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

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ERRATA.

MPC	Line	
19982	3 & 4	The orbits for 1991 YF1 and 1991 YG1 are to be deleted.

* * * * *

CORRECTED OBSERVATIONS.

The following observations correct those previously published.

Object		Date	UT	R. A. (2000)	Decl.	Reference	Mag.	N	Obs.
1947 XC	*	1947 12	12.17634	02 54 19.96	+15 23 20.2	MPC 242		6	690
1947 XC		1947 12	14.17634	02 42 30.57	+14 45 39.0	MPC 242		6	690
1991 VE		1991 11	27.54020	02 01 24.79	+09 22 17.7	MPC 19402			413
1991 VE		1991 11	27.55530	02 01 22.40	+09 22 18.4	MPC 19402			413
1991 VE		1991 11	27.55875	02 01 21.83	+09 22 18.8	MPC 19402			413
1991 VE		1991 11	27.56567	02 01 20.72	+09 22 19.2	MPC 19402			413
1992 LU		1992 06	29.21979	15 37 59.74	+01 49 02.2	MPC 20575		7	675
1992 LU		1992 06	29.24497	15 37 59.44	+01 48 54.8	MPC 20575		7	675
(4015)		1949 11	19.12778	00 14 55.23	+13 48 56.9	MPC 16653		1	675
(4015)		1949 11	19.13194	00 14 57.01	+13 49 02.2	IAUC 1250		3	675
(4015)		1949 11	19.13611	00 14 58.72	+13 49 08.4	MPC 16653		1	675
(4015)		1949 11	19.15799	00 15 08.31	+13 49 40.4	MPC 16653		5	675

Note 1: designated as comet 1949 III (Wilson-Harrington); see IAUC 5585 for a discussion on the identity. 2: mean of preceding and following trail-end positions. 3 = 2 + 1. 4: mean of previously published trail-end positions. 5 = 4 + 1. 6: 1947 XC = (2201). 7: observations originally interchanged.

* * * * *

DELETED OBSERVATIONS.

The following observations are to be deleted.

Object		Date	UT	R. A. (2000)	Decl.	Reference	Obs.
1938 WT	*	1938 11	28.00031	05 37 12.62	+21 10 27.2	RI 1945	028
1939 FA	*	1939 03	16.81910	12 28 17.08	+17 52 35.8	RI 1944	028
1939 PG	*	1939 08	09.87789	19 58 35.00	-11 20 27.6	RI 2014	028
1939 PH	*	1939 08	15.84028	20 44 48.16	-05 34 04.6	RI 2014	028
1939 RO	*	1939 09	09.89235	22 31 24.72	+28 05 00.3	RI 2031	028
1941 AA	*	1941 01	09.11632	09 04 43.57	+12 35 29.7	RI 2267	028

1941 BV	*	1941 01 29.84063	07 40 50.71	+43 00 33.5	RI	2267		028
1941 WX	*	1941 11 29.18004	06 08 28.21	+22 26 19.6	RI	2324		028
1942 AF	*	1942 01 07.86476	06 28 14.54	+23 31 07.4	RI	2390		028
1942 GA1	*	1942 04 11.96603	15 48 47.42	-06 30 59.1	RI	2398		028
1942 LA	*	1942 06 08.94705	15 52 22.12	-09 29 03.0	RI	2390		028
1942 LB	*	1942 06 08.94705	16 09 02.70	-05 18 17.1	RI	2390		028
1942 PA	*	1942 08 10.97708	21 11 37.38	-07 12 16.1	RI	2408		028
1942 VY	*	1942 11 08.84653	00 41 42.98	+28 41 37.4	RI	2419		028
1942 XL	*	1942 12 02.86042	03 27 50.76	+22 59 07.2	RI	2438		028
1942 XN	*	1942 12 02.86044	03 40 07.54	+27 29 46.3	RI	2438		028
1942 XO	*	1942 12 11.76594	03 45 41.80	+44 23 18.0	RI	2525		028
1943 AE	*	1943 01 15.80836	06 51 23.09	+50 36 55.2	RI	2524		028
1943 LC	*	1943 06 04.91620	15 33 24.48	+04 53 37.9	RI	2523		028
1943 TN	*	1943 10 11.11111	03 17 53.48	+21 50 09.0	RI	2525		028
1943 UG	*	1943 10 31.91123	03 32 19.50	+11 32 39.5	RI	2525		028
1944 QC	*	1944 08 26.01181	23 27 04.22	-11 42 46.6	RI	2561		028
1944 QM	*	1944 08 18.89433	22 15 08.80	+11 02 25.4	RI	2560		028

* * * * *

IDENTIFICATION CHANGES.

Continuation to MPC 20543.

Object		Date	UT	R. A. (2000)	Decl.	Old desig.	Mag.	Obs.
1950 DP1	*	1950 02 16.97892	10 00 05.27	+10 01 22.0	1950 DK			012
1976 YB8	*	1976 12 20.95308	05 57 17.90	+15 29 58.9	1976 YB3		17.0	095
1978 JW3	*	1978 05 05.94458	14 58 14.19	-01 57 40.1	1978 GY4		16.7	095
1989 PY1	*	1989 08 02.26771	19 15 56.45	-15 17 01.6	1989 OK1		17.8	675
1989 PY1		1989 08 02.29809	19 15 55.25	-15 17 17.0	1989 OK1			675
1991 FJ6	*	1991 03 23.28021	12 56 09.17	-02 55 22.7	1991 FX3			809
1991 FJ6		1991 03 23.29063	12 56 08.71	-02 55 18.1	1991 FX3			809
1991 FJ6		1991 03 23.30104	12 56 08.25	-02 55 13.4	1991 FX3			809
1991 JH7	*	1991 05 05.48576	13 58 00.94	+00 09 59.2	1991 JH		16.5	399
1991 JH7		1991 05 05.50104	13 58 00.19	+00 10 03.1	1991 JH			399

* * * * *

OBSERVATIONS OF COMETS.

Observations are published here for the following observatory codes:

104 Pian dei Termini. 0.4-m f/5 reflector. Observers L. Tesi and P. Gigli. Measured by L. Tesi, reduction by L. Melani.

372 Geisei. 0.60-m f/3.5 reflector. Observer T. Seki.

402 Dynic Astronomical Observatory. 0.25-m f/3.4 Schmidt. Observer A. Sugie.

413 Siding Spring. 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.

557 Ondrejov. 0.18-m f/5.6 Maksutov + CCD. Observer P. Pravec.

657 Climenhaga Observatory, Victoria. 0.25-m Schmidt telescope and 0.5-m reflector + CCD. Observers J. B. Tatum and D. D. Balam.

658 Dominion Astrophysical Observatory, Victoria. 1.85-m reflector. Observer D. D. Balam.

675 Palomar. 0.46-m Schmidt. Observers E. F. Helin, K. J. Lawrence, J. Alu and P. Rose.

801 Oak Ridge. 1.5-m reflector + CCD. Observers R. E. McCrosky and C.-Y. Shao.
894 Otomo. 0.25-m f/3.4 reflector. Observer S. Otomo.
897 YGCO Chiyoda Station. 0.25-m f/3.4 Wright-Schmidt. Observer T. Kojima.
900 Kiryuu Observatory, Ohtsu. 0.10-m f/5.9 astrocamera. Observer Y. Ikari.
950 La Palma. Nordic Optical Telescope. Observers G. Tancredi and M. Lindgren.

Object	Date	UT	R. A. (2000)	Decl.	Mag.	N Obs.
		Periodic Comet Grigg-Skjellerup				
/1987 X	1992	07 06.27403	09 57 29.50	+06 58 29.1		474
/1987 X	1992	07 06.28294	09 57 31.55	+06 58 26.6	16.4 N	474
/1987 X	1992	07 06.29234	09 57 34.10	+06 58 22.1	16.6 N	474
/1987 X	1992	08 23.37722	13 35 27.99	+00 58 47.6		413
/1987 X	1992	08 23.37951	13 35 28.63	+00 58 46.3		413
		Comet McNaught-Russell (1990 XXII)				
/1990 XXII	1992	08 21.63013	22 16 37.56	-26 28 13.8		413
/1990 XXII	1992	08 21.63338	22 16 37.46	-26 28 15.3		413
/1990 XXII	1992	08 22.57233	22 16 07.35	-26 34 27.9		413
/1990 XXII	1992	08 22.57613	22 16 07.21	-26 34 29.3		413
		Comet Shoemaker-Levy (1991d)				
/1991d	1992	07 26.37806	20 24 42.07	+35 18 39.5		658
/1991d	1992	07 26.38085	20 24 41.91	+35 18 36.6		658
/1991d	1992	07 26.38431	20 24 41.64	+35 18 32.8		658
/1991d	1992	07 26.90243	20 24 06.82	+35 09 03.2		104
/1991d	1992	07 26.91493	20 24 06.03	+35 08 50.7		104
/1991d	1992	07 27.35831	20 23 35.85	+35 00 38.7		658
/1991d	1992	07 27.36108	20 23 35.59	+35 00 36.1		658
/1991d	1992	07 27.36386	20 23 35.41	+35 00 32.3		658
/1991d	1992	07 29.88993	20 20 47.73	+34 12 43.3		104
/1991d	1992	07 29.90104	20 20 46.87	+34 12 29.5		104
/1991d	1992	08 02.87639	20 16 32.64	+32 53 23.0		104
/1991d	1992	08 02.88785	20 16 31.73	+32 53 07.5		104
/1991d	1992	08 05.66735	20 13 42.62	+31 55 15.3		900
/1991d	1992	08 05.70292	20 13 40.32	+31 54 26.1		900
/1991d	1992	08 05.72558	20 13 38.93	+31 54 01.0		900
/1991d	1992	08 24.09970	19 58 48.16	+24 57 02.7		801
/1991d	1992	08 24.10785	19 58 47.84	+24 56 51.2		801
/1991d	1992	08 26.06384	19 57 38.94	+24 10 43.2		801
/1991d	1992	08 26.07690	19 57 38.49	+24 10 24.7		801
/1991d	1992	08 26.34721	19 57 29.30	+24 04 02.5		657
/1991d	1992	08 26.34860	19 57 29.25	+24 03 59.0		657
/1991d	1992	08 26.34992	19 57 29.18	+24 03 57.7		657
/1991d	1992	08 28.24245	19 56 28.34	+23 19 20.1		657
/1991d	1992	08 28.24388	19 56 28.30	+23 19 17.9		657
/1991d	1992	08 28.24552	19 56 28.21	+23 19 14.4		657
/1991d	1992	08 30.58801	19 55 19.74	+22 24 07.3		900
/1991d	1992	08 30.59622	19 55 19.57	+22 23 58.7		900
/1991d	1992	08 31.08117	19 55 06.17	+22 12 33.3		801
/1991d	1992	08 31.09856	19 55 05.63	+22 12 07.5		801
/1991d	1992	09 03.21473	19 53 48.51	+20 59 17.3		657
/1991d	1992	09 03.21624	19 53 48.49	+20 59 16.1		657
/1991d	1992	09 03.21791	19 53 48.42	+20 59 14.6		657

Comet Helin-Lawrence (1991l)

/1991l	1992	08	24.31245	01 33 06.82	+14 19 05.7				801
/1991l	1992	08	24.32608	01 33 05.61	+14 19 13.8				801
/1991l	1992	08	31.32841	01 21 41.73	+15 02 16.3				801
/1991l	1992	08	31.34656	01 21 39.91	+15 02 22.5				801

Comet Helin-Alu (1991r)

/1991r	1992	06	23.68819	19 14 30.86	+18 59 45.6	17	T		372
/1991r	1992	06	23.69792	19 14 30.66	+18 59 48.4				372
/1991r	1992	07	26.36420	18 57 22.59	+21 24 59.7				658
/1991r	1992	07	26.36765	18 57 22.43	+21 24 59.4				658
/1991r	1992	07	26.37148	18 57 22.35	+21 24 59.6				658
/1991r	1992	07	27.34477	18 56 54.72	+21 26 38.3				658
/1991r	1992	07	27.34790	18 56 54.63	+21 26 38.7				658
/1991r	1992	07	28.30417	18 56 27.88	+21 28 07.0				658
/1991r	1992	07	28.30698	18 56 27.78	+21 28 07.3				658
/1991r	1992	07	28.30973	18 56 27.72	+21 28 07.6				658
/1991r	1992	08	24.09767	18 47 33.77	+21 20 38.2				801
/1991r	1992	08	24.13741	18 47 33.26	+21 20 33.7				801
/1991r	1992	08	26.08228	18 47 14.20	+21 17 04.6			1	801
/1991r	1992	08	26.18692	18 47 13.11	+21 16 52.5			1	801

Comet McNaught-Russell (1991v)

/1991v	1992	08	09.81098	07 37 06.87	-43 50 58.8				413
/1991v	1992	08	09.81389	07 37 07.10	-43 50 58.3				413
/1991v	1992	08	21.79941	07 53 29.71	-43 15 45.3				413
/1991v	1992	08	21.80238	07 53 29.94	-43 15 45.0				413
/1991v	1992	08	21.80677	07 53 30.33	-43 15 44.4				413

Periodic Comet Shoemaker-Levy 8

/1992f	1992	08	20.48233	15 18 32.95	-14 12 22.2				413
/1992f	1992	08	20.48463	15 18 33.14	-14 12 23.1				413
/1992f	1992	08	21.45744	15 19 40.37	-14 16 35.8				413
/1992f	1992	08	21.45942	15 19 40.52	-14 16 36.3				413

Periodic Comet Giclas

/1992l	1992	08	24.34340	03 29 48.84	+09 02 59.2				801
/1992l	1992	08	24.35938	03 29 50.46	+09 03 01.5				801

Periodic Comet Wolf

/1992m	1992	07	27.45311	01 06 08.68	+22 59 03.8				658
/1992m	1992	07	27.45762	01 06 08.94	+22 59 04.4				658
/1992m	1992	07	27.46182	01 06 09.18	+22 59 04.3				658

Periodic Comet Schuster

/1992n	1992	08	25.34321	05 10 53.66	+18 36 26.0				801
/1992n	1992	08	25.34758	05 10 54.12	+18 36 30.2				801
/1992n	1992	08	27.47095	05 16 47.97	+19 10 26.0				657
/1992n	1992	08	27.47307	05 16 48.37	+19 10 28.0				657
/1992n	1992	08	28.48801	05 19 37.61	+19 26 36.6				657
/1992n	1992	08	28.49032	05 19 37.87	+19 26 37.6				657
/1992n	1992	08	28.49251	05 19 38.28	+19 26 40.5				657

Periodic Comet Daniel

/1992o	1992	07	29.78576	05 38 34.79	+21 14 15.5	19	T	2	372
/1992o	1992	08	08.78646	06 07 55.29	+22 43 06.9	18	T	2	372
/1992o	1992	08	09.78765	06 10 53.81	+22 51 08.0	18	T	2	372

Comet Brewington (1992p)

/1992p	1992	08	28.73646	07 14 20.74	+36 52 54.7	13	T	3	402
/1992p	1992	08	28.74688	07 14 22.32	+36 52 52.3			3	402
/1992p	1992	08	28.76059	07 14 24.03	+36 52 54.1	13.5	T	4	897
/1992p	1992	08	28.76389	07 14 25.28	+36 52 50.8			3	402
/1992p	1992	08	29.77941	07 17 14.72	+36 50 48.5	14	T	5	372
/1992p	1992	08	29.80555	07 17 19.10	+36 50 45.1			5	372
/1992p	1992	08	29.81042	07 17 19.89	+36 50 44.9			5	372
/1992p	1992	08	31.08770	07 20 50.8	+36 47 58			6	557
/1992p	1992	08	31.09063	07 20 51.2	+36 47 56			6	557
/1992p	1992	08	31.09964	07 20 52.6	+36 47 54			6	557
/1992p	1992	08	31.36906	07 21 36.98	+36 47 20.4				801
/1992p	1992	08	31.37354	07 21 37.74	+36 47 19.9				801
/1992p	1992	08	31.76088	07 22 41.21	+36 46 26.9	14	T		897
/1992p	1992	08	31.77309	07 22 43.48	+36 46 24.4	13.5	T		372
/1992p	1992	08	31.77691	07 22 44.26	+36 46 23.0				372
/1992p	1992	08	31.78698	07 22 45.77	+36 46 21.1	13.5	T		372
/1992p	1992	08	31.79120	07 22 46.23	+36 46 19.5	14	T		894
/1992p	1992	08	31.79167	07 22 46.13	+36 46 21.7				897
/1992p	1992	09	01.50469	07 24 42.63	+36 44 37.3				657
/1992p	1992	09	01.79861	07 25 30.41	+36 43 54.8	14	T		894
/1992p	1992	09	02.47274	07 27 19.22	+36 42 08.1				657
/1992p	1992	09	04.79601	07 33 30.24	+36 35 51.6	14	T		372
/1992p	1992	09	04.81181	07 33 32.70	+36 35 49.5				372

Comet Helin-Lawrence (1992q)

/1992q	1992	08	29.43102	02 03 53.36	-12 23 45.1	15	T	7	675
/1992q	1992	08	29.44826	02 03 52.60	-12 24 12.8			7	675
/1992q	1992	08	30.36181	02 03 23.16	-12 51 49.2	15.0	T	8	675
/1992q	1992	08	30.46285	02 03 19.66	-12 54 53.0			8	675
/1992q	1992	08	31.34948	02 02 49.48	-13 22 07.8			9	675
/1992q	1992	08	31.44045	02 02 46.13	-13 24 56.5			9	675
/1992q	1992	08	31.69462	02 02 37.19	-13 32 49.2	15	T		897
/1992q	1992	08	31.70978	02 02 36.60	-13 33 17.3				897
/1992q	1992	08	31.72118	02 02 36.05	-13 33 37.9	15	T		372
/1992q	1992	08	31.73652	02 02 35.55	-13 34 07.3				897
/1992q	1992	09	01.32642	02 02 13.96	-13 52 33.3				801
/1992q	1992	09	01.43073	02 02 10.07	-13 55 50.6				675
/1992q	1992	09	01.77535	02 01 56.99	-14 06 42.7	14.5	T		894
/1992q	1992	09	02.45920	02 01 30.52	-14 28 25.1				657
/1992q	1992	09	04.73625	01 59 55.00	-15 42 13.3	15	T		372
/1992q	1992	09	05.68264	01 59 12.00	-16 13 33.4			A	413
/1992q	1992	09	05.68499	01 59 11.89	-16 13 38.1			A	413
/1992q	1992	09	05.80512	01 59 06.11	-16 17 38.7			A	413
/1992q	1992	09	05.80767	01 59 05.98	-16 17 43.8			A	413

Periodic Comet Tuttle

/1992r	1992	07	29.06250	20 05 39.19	+31 35 56.8	21.2	N	B	950
/1992r	1992	07	29.14236	20 05 36.12	+31 35 59.6	21.3	N	B	950
/1992r	1992	07	29.97188	20 05 01.70	+31 35 49.9	21.4	N	B	950
/1992r	1992	07	30.89896	20 04 23.08	+31 35 30.9	21.2	N	B	950
/1992r	1992	07	31.19896	20 04 10.51	+31 35 23.5	21.4	N	B	950

Note 1: poor, diffuse image. 2: comet diffuse and condensed. 3: very faint and diffuse. 4: weak image. 5: 5′ tail in p.a. 300 . 6: image prolonged in p.a. 300 10 . 7: strong condensation, no tail. 8: correction to IAUC 5597. 9: correction to IAUC 5600. A: narrow tail 2′ long in p.a. 330 . B: stellar appearance.

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						
E. W. Elst, Royal Observatory, B-1180 Brussels, Belgium						
Observers E. W. Elst, J. B. Emond						
Measurer E. W. Elst						
0.9-m Schmidt telescope						
1950 DE	1992 08	08.01528	21 21 20.24	-11 01 18.9		010
1950 DE	1992 08	08.02569	21 21 19.81	-11 01 22.8		010
1950 DE	1992 08	08.03611	21 21 19.32	-11 01 26.6		010
1950 DE	1992 08	09.07662	21 20 35.56	-11 07 29.0	18.5	010
1950 DE	1992 08	09.08704	21 20 35.09	-11 07 32.3		010
1950 DE	1992 08	09.09745	21 20 34.67	-11 07 35.9		010
1981 EY8	1992 08	08.01528	21 27 51.97	-12 07 04.8		010
1981 EY8	1992 08	08.02569	21 27 51.30	-12 07 05.1		010
1981 EY8	1992 08	08.03611	21 27 50.71	-12 07 05.5		010
1981 EY8	1992 08	09.07662	21 26 52.83	-12 07 47.5	18.6	010
1981 EY8	1992 08	09.08704	21 26 52.21	-12 07 47.5		010
1981 EY8	1992 08	09.09745	21 26 51.58	-12 07 47.5		010

1985	GA1		1992	07	26.00266	20 25 08.33	-17 11 20.0			010
1985	GA1		1992	07	26.01308	20 25 07.73	-17 11 26.5			010
1985	GA1		1992	07	26.97603	20 24 17.52	-17 19 47.1		18.0	010
1985	GA1		1992	07	26.99409	20 24 16.52	-17 19 56.6			010
1985	GA1		1992	07	27.00450	20 24 15.82	-17 20 03.0			010
1990	BZ1		1992	08	08.01528	21 32 50.45	-10 06 28.3			010
1990	BZ1		1992	08	08.02569	21 32 49.90	-10 06 31.3			010
1990	BZ1		1992	08	08.03611	21 32 49.27	-10 06 34.2			010
1990	BZ1		1992	08	09.07662	21 31 55.86	-10 10 50.1		18.6	010
1990	BZ1		1992	08	09.08704	21 31 55.22	-10 10 53.8			010
1990	BZ1		1992	08	09.09745	21 31 54.65	-10 10 57.0			010
1992	OD1	*	1992	07	26.00266	20 20 47.26	-17 07 47.8			010
1992	OD1		1992	07	26.01308	20 20 46.65	-17 08 00.7			010
1992	OD1		1992	07	26.97603	20 20 01.58	-17 19 10.1		18.5	010
1992	OD1		1992	07	26.99409	20 20 00.77	-17 19 22.0			010
1992	OD1		1992	07	27.00450	20 20 00.12	-17 19 29.0			010
1992	OE1	*	1992	07	26.00266	20 20 50.09	-17 36 55.4			010
1992	OE1		1992	07	26.01308	20 20 49.44	-17 37 02.7			010
1992	OE1		1992	07	26.97603	20 19 58.90	-17 44 26.8		18.6	010
1992	OE1		1992	07	26.99409	20 19 57.79	-17 44 35.7			010
1992	OE1		1992	07	27.00450	20 19 57.22	-17 44 40.6			010
1992	OF1	*	1992	07	26.00266	20 22 00.70	-18 54 52.5			010
1992	OF1		1992	07	26.01308	20 22 00.26	-18 54 56.2			010
1992	OF1		1992	07	26.97603	20 21 14.76	-19 01 36.6		18.5	010
1992	OF1		1992	07	26.99409	20 21 13.82	-19 01 44.7			010
1992	OF1		1992	07	27.00450	20 21 13.32	-19 01 49.7			010
1992	PE	*	1992	08	08.01528	21 19 24.11	-11 01 55.4			010
1992	PE		1992	08	08.02569	21 19 23.36	-11 02 01.3			010
1992	PE		1992	08	08.03611	21 19 22.86	-11 02 04.9			010
1992	PE		1992	08	09.07662	21 18 34.18	-11 08 45.1		19.5	010
1992	PE		1992	08	09.08704	21 18 33.68	-11 08 49.8			010
1992	PE		1992	08	09.09745	21 18 33.15	-11 08 54.6			010
1992	PF	*	1992	08	08.01528	21 20 01.81	-11 33 22.4			010
1992	PF		1992	08	08.02569	21 20 01.26	-11 33 25.5			010
1992	PF		1992	08	08.03611	21 20 00.70	-11 33 28.5			010
1992	PF		1992	08	09.07662	21 19 12.03	-11 39 17.7		18.0	010
1992	PF		1992	08	09.08704	21 19 11.52	-11 39 20.1			010
1992	PF		1992	08	09.09745	21 19 11.01	-11 39 23.2			010
1992	PG	*	1992	08	08.01528	21 20 27.17	-12 13 24.2			010
1992	PG		1992	08	08.02569	21 20 26.66	-12 13 29.9			010
1992	PG		1992	08	08.03611	21 20 26.15	-12 13 34.9			010
1992	PG		1992	08	09.07662	21 19 40.16	-12 22 59.0		17.9	010
1992	PG		1992	08	09.08704	21 19 39.70	-12 23 03.7			010
1992	PG		1992	08	09.09745	21 19 39.27	-12 23 07.8			010
1992	PH	*	1992	08	08.01528	21 21 11.57	-10 04 30.5			010
1992	PH		1992	08	08.02569	21 21 10.83	-10 04 34.3			010
1992	PH		1992	08	08.03611	21 21 10.21	-10 04 37.0			010
1992	PH		1992	08	09.07662	21 20 11.06	-10 09 15.0		18.5	010
1992	PH		1992	08	09.08704	21 20 10.41	-10 09 18.0			010
1992	PH		1992	08	09.09745	21 20 09.81	-10 09 20.3			010
1992	PJ	*	1992	08	08.01528	21 22 07.01	-11 06 18.5			010
1992	PJ		1992	08	08.02569	21 22 06.28	-11 06 21.2			010
1992	PJ		1992	08	08.03611	21 22 05.59	-11 06 22.7			010
1992	PJ		1992	08	09.07662	21 21 00.66	-11 10 07.5		18.3	010
1992	PJ		1992	08	09.08704	21 20 59.95	-11 10 08.8			010
1992	PJ		1992	08	09.09745	21 20 59.22	-11 10 10.9			010
1992	PK	*	1992	08	08.01528	21 23 30.56	-11 37 15.9			010
1992	PK		1992	08	08.02569	21 23 29.83	-11 37 15.5			010
1992	PK		1992	08	08.03611	21 23 29.12	-11 37 15.1			010

1992	PK		1992	08	09.07662	21	22	25.90	-11 36 02.7	18.3	010
1992	PK		1992	08	09.08704	21	22	25.22	-11 36 01.8		010
1992	PK		1992	08	09.09745	21	22	24.55	-11 36 00.1		010
1992	PL	*	1992	08	08.01528	21	23	45.65	-11 40 28.5		010
1992	PL		1992	08	08.02569	21	23	45.04	-11 40 29.1		010
1992	PL		1992	08	08.03611	21	23	44.33	-11 40 29.8		010
1992	PL		1992	08	09.07662	21	22	45.91	-11 41 45.2	19.2	010
1992	PL		1992	08	09.08704	21	22	45.33	-11 41 44.3		010
1992	PL		1992	08	09.09745	21	22	44.84	-11 41 45.6		010
1992	PM	*	1992	08	08.01528	21	23	53.41	-11 03 40.2		010
1992	PM		1992	08	08.02569	21	23	52.72	-11 03 43.1		010
1992	PM		1992	08	08.03611	21	23	52.15	-11 03 46.0		010
1992	PM		1992	08	09.07662	21	22	53.53	-11 08 22.9	18.9	010
1992	PM		1992	08	09.08704	21	22	52.93	-11 08 25.6		010
1992	PM		1992	08	09.09745	21	22	52.30	-11 08 28.3		010
1992	PN	*	1992	08	08.01528	21	24	01.24	-11 08 59.4		010
1992	PN		1992	08	08.02569	21	24	00.58	-11 09 04.1		010
1992	PN		1992	08	08.03611	21	23	59.90	-11 09 06.5		010
1992	PN		1992	08	09.07662	21	23	00.88	-11 14 39.4	18.6	010
1992	PN		1992	08	09.08704	21	23	00.30	-11 14 42.1		010
1992	PN		1992	08	09.09745	21	22	59.77	-11 14 44.9		010
1992	PO	*	1992	08	08.01528	21	25	05.34	-12 28 23.3		010
1992	PO		1992	08	08.02569	21	25	04.75	-12 28 22.7		010
1992	PO		1992	08	08.03611	21	25	04.06	-12 28 23.1		010
1992	PO		1992	08	09.07662	21	24	07.89	-12 27 46.4	19.6	010
1992	PO		1992	08	09.08704	21	24	07.37	-12 27 45.0		010
1992	PO		1992	08	09.09745	21	24	06.85	-12 27 45.0		010
1992	PP	*	1992	08	08.01528	21	25	45.82	-09 44 17.4		010
1992	PP		1992	08	08.02569	21	25	45.28	-09 44 21.8		010
1992	PP		1992	08	08.03611	21	25	44.86	-09 44 27.3		010
1992	PP		1992	08	09.07662	21	24	59.61	-09 52 49.3	19.0	010
1992	PP		1992	08	09.08704	21	24	59.13	-09 52 54.5		010
1992	PP		1992	08	09.09745	21	24	58.69	-09 52 58.9		010
1992	PQ	*	1992	08	08.01528	21	25	46.10	-10 12 46.5		010
1992	PQ		1992	08	08.02569	21	25	45.40	-10 12 46.3		010
1992	PQ		1992	08	08.03611	21	25	44.53	-10 12 43.3		010
1992	PQ		1992	08	09.07662	21	24	37.87	-10 09 46.2	19.5	010
1992	PQ		1992	08	09.08704	21	24	37.22	-10 09 44.9		010
1992	PQ		1992	08	09.09745	21	24	36.61	-10 09 45.2		010
1992	PR	*	1992	08	08.01528	21	26	07.69	-10 20 21.8		010
1992	PR		1992	08	08.02569	21	26	07.17	-10 20 28.2		010
1992	PR		1992	08	08.03611	21	26	06.58	-10 20 33.8		010
1992	PR		1992	08	09.07662	21	25	18.89	-10 28 23.6	19.2	010
1992	PR		1992	08	09.08704	21	25	18.22	-10 28 29.1		010
1992	PR		1992	08	09.09745	21	25	17.80	-10 28 33.9		010
1992	PS	*	1992	08	08.01528	21	26	19.15	-10 23 54.2		010
1992	PS		1992	08	08.02569	21	26	18.54	-10 23 57.7		010
1992	PS		1992	08	08.03611	21	26	17.96	-10 24 01.8		010
1992	PS		1992	08	09.07662	21	25	27.22	-10 30 41.0	19.0	010
1992	PS		1992	08	09.08704	21	25	26.59	-10 30 45.4		010
1992	PS		1992	08	09.09745	21	25	26.07	-10 30 49.2		010
1992	PT	*	1992	08	08.01528	21	26	21.93	-13 22 36.9		010
1992	PT		1992	08	08.02569	21	26	21.22	-13 22 38.5		010
1992	PT		1992	08	08.03611	21	26	20.76	-13 22 41.9		010
1992	PT		1992	08	09.07662	21	25	29.03	-13 26 56.5	18.7	010
1992	PT		1992	08	09.08704	21	25	28.47	-13 26 58.5		010
1992	PT		1992	08	09.09745	21	25	27.95	-13 26 59.9		010
1992	PU	*	1992	08	08.01528	21	26	25.11	-09 49 46.0		010
1992	PU		1992	08	08.02569	21	26	24.51	-09 49 49.0		010

1992	PU		1992	08	08.03611	21	26	23.90	-09 49 51.4	010
1992	PU		1992	08	09.07662	21	25	27.46	-09 54 27.0	18.5 010
1992	PU		1992	08	09.08704	21	25	26.78	-09 54 31.0	010
1992	PU		1992	08	09.09745	21	25	26.11	-09 54 33.2	010
1992	PV	*	1992	08	08.01528	21	27	40.39	-10 36 20.3	010
1992	PV		1992	08	08.02569	21	27	39.64	-10 36 24.5	010
1992	PV		1992	08	08.03611	21	27	39.00	-10 36 29.2	010
1992	PV		1992	08	09.07662	21	26	40.90	-10 41 38.2	18.8 010
1992	PV		1992	08	09.08704	21	26	40.22	-10 41 42.6	010
1992	PV		1992	08	09.09745	21	26	39.62	-10 41 44.8	010
1992	PW	*	1992	08	08.01528	21	28	04.08	-09 01 40.6	010
1992	PW		1992	08	08.02569	21	28	03.38	-09 01 38.5	010
1992	PW		1992	08	08.03611	21	28	02.68	-09 01 39.2	010
1992	PW		1992	08	09.07662	21	26	58.92	-09 02 45.9	19.2 010
1992	PW		1992	08	09.08704	21	26	58.31	-09 02 47.7	010
1992	PW		1992	08	09.09745	21	26	57.67	-09 02 48.3	010
1992	PX	*	1992	08	08.01528	21	28	10.76	-11 21 28.8	010
1992	PX		1992	08	08.02569	21	28	10.07	-11 21 32.9	010
1992	PX		1992	08	08.03611	21	28	09.51	-11 21 37.8	010
1992	PX		1992	08	09.07662	21	27	14.84	-11 28 46.2	18.5 010
1992	PX		1992	08	09.08704	21	27	14.20	-11 28 50.6	010
1992	PX		1992	08	09.09745	21	27	13.65	-11 28 54.7	010
1992	PY	*	1992	08	08.01528	21	28	47.76	-09 16 03.6	010
1992	PY		1992	08	08.02569	21	28	46.82	-09 15 58.5	010
1992	PY		1992	08	08.03611	21	28	45.80	-09 15 51.2	010
1992	PY		1992	08	09.07662	21	27	13.46	-09 04 59.6	18.0 010
1992	PY		1992	08	09.08704	21	27	12.54	-09 04 53.5	010
1992	PY		1992	08	09.09745	21	27	11.55	-09 04 47.3	010
1992	PZ	*	1992	08	08.01528	21	29	01.87	-11 57 24.1	010
1992	PZ		1992	08	08.02569	21	29	01.33	-11 57 27.0	010
1992	PZ		1992	08	08.03611	21	29	00.85	-11 57 30.2	010
1992	PZ		1992	08	09.07662	21	28	06.70	-12 01 16.8	19.0 010
1992	PZ		1992	08	09.08704	21	28	06.10	-12 01 19.8	010
1992	PZ		1992	08	09.09745	21	28	05.57	-12 01 21.6	010
1992	PA1	*	1992	08	08.01528	21	29	11.44	-09 12 07.8	010
1992	PA1		1992	08	08.02569	21	29	10.68	-09 12 11.4	010
1992	PA1		1992	08	08.03611	21	29	10.01	-09 12 13.5	010
1992	PA1		1992	08	09.07662	21	28	09.90	-09 15 49.7	18.5 010
1992	PA1		1992	08	09.08704	21	28	09.16	-09 15 51.9	010
1992	PA1		1992	08	09.09745	21	28	08.51	-09 15 55.5	010
1992	PB1	*	1992	08	08.01528	21	29	22.14	-12 26 27.9	010
1992	PB1		1992	08	08.02569	21	29	21.74	-12 26 31.5	010
1992	PB1		1992	08	08.03611	21	29	21.24	-12 26 35.5	010
1992	PB1		1992	08	09.07662	21	28	36.20	-12 33 00.5	18.5 010
1992	PB1		1992	08	09.08704	21	28	35.73	-12 33 03.9	010
1992	PB1		1992	08	09.09745	21	28	35.26	-12 33 07.3	010
1992	PC1	*	1992	08	08.01528	21	29	39.42	-13 11 41.3	010
1992	PC1		1992	08	08.02569	21	29	38.61	-13 11 44.0	010
1992	PC1		1992	08	08.03611	21	29	37.96	-13 11 49.5	010
1992	PC1		1992	08	09.07662	21	28	41.47	-13 16 43.8	19.2 010
1992	PC1		1992	08	09.08704	21	28	40.86	-13 16 45.2	010
1992	PC1		1992	08	09.09745	21	28	40.39	-13 16 48.0	010
1992	PD1	*	1992	08	08.01528	21	29	42.88	-11 41 29.1	010
1992	PD1		1992	08	08.02569	21	29	42.31	-11 41 33.6	010
1992	PD1		1992	08	08.03611	21	29	41.81	-11 41 37.8	010
1992	PD1		1992	08	09.07662	21	28	49.85	-11 48 03.7	19.0 010
1992	PD1		1992	08	09.08704	21	28	49.30	-11 48 08.1	010
1992	PD1		1992	08	09.09745	21	28	48.83	-11 48 11.6	010
1992	PE1	*	1992	08	08.01528	21	30	05.82	-12 28 22.5	010

1992	PE1		1992	08	08.02569	21	30	05.25	-12 28 25.7	010
1992	PE1		1992	08	08.03611	21	30	04.76	-12 28 31.9	010
1992	PE1		1992	08	09.07662	21	29	19.87	-12 35 46.2	18.8 010
1992	PE1		1992	08	09.08704	21	29	19.45	-12 35 50.1	010
1992	PE1		1992	08	09.09745	21	29	18.99	-12 35 55.2	010
1992	PF1	*	1992	08	08.01528	21	30	32.58	-13 30 43.5	010
1992	PF1		1992	08	08.02569	21	30	32.04	-13 30 44.2	010
1992	PF1		1992	08	08.03611	21	30	31.51	-13 30 45.5	010
1992	PF1		1992	08	09.07662	21	29	38.15	-13 32 21.0	18.4 010
1992	PF1		1992	08	09.08704	21	29	37.68	-13 32 20.8	010
1992	PF1		1992	08	09.09745	21	29	37.19	-13 32 22.4	010
1992	PG1	*	1992	08	08.01528	21	30	36.98	-09 08 13.8	010
1992	PG1		1992	08	08.02569	21	30	36.45	-09 08 18.5	010
1992	PG1		1992	08	08.03611	21	30	35.82	-09 08 24.9	010
1992	PG1		1992	08	09.07662	21	29	43.46	-09 17 35.8	18.5 010
1992	PG1		1992	08	09.08704	21	29	42.82	-09 17 41.9	010
1992	PG1		1992	08	09.09745	21	29	42.17	-09 17 48.4	010
1992	PH1	*	1992	08	08.01528	21	31	10.22	-12 45 04.1	010
1992	PH1		1992	08	08.02569	21	31	09.41	-12 45 05.9	010
1992	PH1		1992	08	08.03611	21	31	08.69	-12 45 07.6	010
1992	PH1		1992	08	09.07662	21	30	02.12	-12 47 12.1	18.7 010
1992	PH1		1992	08	09.08704	21	30	01.42	-12 47 12.1	010
1992	PH1		1992	08	09.09745	21	30	00.71	-12 47 13.5	010
1992	PJ1	*	1992	08	08.01528	21	31	29.19	-09 00 20.3	010
1992	PJ1		1992	08	08.02569	21	31	28.65	-09 00 19.2	010
1992	PJ1		1992	08	08.03611	21	31	27.96	-09 00 22.0	010
1992	PJ1		1992	08	09.07662	21	30	31.67	-09 00 50.0	19.5 010
1992	PJ1		1992	08	09.08704	21	30	31.08	-09 00 51.3	010
1992	PJ1		1992	08	09.09745	21	30	30.30	-09 00 52.7	010
1992	PK1	*	1992	08	08.01528	21	31	48.54	-13 40 27.5	010
1992	PK1		1992	08	08.02569	21	31	47.86	-13 40 28.2	010
1992	PK1		1992	08	08.03611	21	31	47.16	-13 40 29.0	010
1992	PK1		1992	08	09.07662	21	30	40.30	-13 40 44.8	19.3 010
1992	PK1		1992	08	09.08704	21	30	39.67	-13 40 43.9	010
1992	PK1		1992	08	09.09745	21	30	39.08	-13 40 44.9	010
1992	PL1	*	1992	08	08.01528	21	32	19.02	-12 39 07.7	010
1992	PL1		1992	08	08.02569	21	32	18.46	-12 39 10.6	010
1992	PL1		1992	08	08.03611	21	32	17.85	-12 39 13.6	010
1992	PL1		1992	08	09.07662	21	31	23.93	-12 44 08.4	19.0 010
1992	PL1		1992	08	09.08704	21	31	23.35	-12 44 10.7	010
1992	PL1		1992	08	09.09745	21	31	22.79	-12 44 14.7	010
1992	PM1	*	1992	08	08.01528	21	34	01.30	-12 31 28.2	010
1992	PM1		1992	08	08.02569	21	34	00.78	-12 31 31.6	010
1992	PM1		1992	08	08.03611	21	34	00.17	-12 31 34.2	010
1992	PM1		1992	08	09.07662	21	33	07.86	-12 34 38.4	20.0 010
1992	PM1		1992	08	09.08704	21	33	07.31	-12 34 39.8	010
1992	PM1		1992	08	09.09745	21	33	06.80	-12 34 42.5	010
1992	PN1	*	1992	08	08.01528	21	34	14.70	-12 01 44.6	010
1992	PN1		1992	08	08.02569	21	34	14.05	-12 01 45.1	010
1992	PN1		1992	08	08.03611	21	34	13.37	-12 01 44.7	010
1992	PN1		1992	08	09.07662	21	33	09.88	-12 00 23.2	18.6 010
1992	PN1		1992	08	09.08704	21	33	09.20	-12 00 22.9	010
1992	PN1		1992	08	09.09745	21	33	08.55	-12 00 22.4	010
1992	PO1	*	1992	08	08.01528	21	34	22.88	-12 00 09.5	010
1992	PO1		1992	08	08.02569	21	34	22.27	-12 00 10.6	010
1992	PO1		1992	08	08.03611	21	34	21.73	-12 00 10.6	010
1992	PO1		1992	08	09.07662	21	33	31.17	-12 00 41.5	18.2 010
1992	PO1		1992	08	09.08704	21	33	30.60	-12 00 42.1	010
1992	PO1		1992	08	09.09745	21	33	30.04	-12 00 42.3	010

1992	PP1	*	1992	08	08.01528	21	34	43.68	-11 09 33.3	010
1992	PP1		1992	08	08.02569	21	34	42.76	-11 09 37.0	010
1992	PP1		1992	08	08.03611	21	34	42.17	-11 09 40.4	010
1992	PP1		1992	08	09.07662	21	33	38.12	-11 13 13.5 19.4	010
1992	PP1		1992	08	09.08704	21	33	37.40	-11 13 15.7	010
1992	PP1		1992	08	09.09745	21	33	36.77	-11 13 18.3	010
1992	PQ1	*	1992	08	08.01528	21	34	56.05	-12 23 53.8	010
1992	PQ1		1992	08	08.02569	21	34	55.36	-12 23 54.1	010
1992	PQ1		1992	08	08.03611	21	34	54.66	-12 23 55.7	010
1992	PQ1		1992	08	09.07662	21	33	51.86	-12 24 57.3 19.2	010
1992	PQ1		1992	08	09.08704	21	33	51.23	-12 24 57.4	010
1992	PQ1		1992	08	09.09745	21	33	50.61	-12 24 58.8	010
1992	PR1	*	1992	08	08.01528	21	35	12.04	-12 55 00.6	010
1992	PR1		1992	08	08.02569	21	35	11.51	-12 55 09.6	010
1992	PR1		1992	08	08.03611	21	35	11.03	-12 55 17.0	010
1992	PR1		1992	08	09.07662	21	34	26.16	-13 08 20.4 18.4	010
1992	PR1		1992	08	09.08704	21	34	25.68	-13 08 29.0	010
1992	PR1		1992	08	09.09745	21	34	25.23	-13 08 35.8	010
1992	PS1	*	1992	08	08.01528	21	35	29.41	-13 28 23.2	010
1992	PS1		1992	08	08.02569	21	35	28.68	-13 28 25.2	010
1992	PS1		1992	08	08.03611	21	35	28.13	-13 28 27.0	010
1992	PS1		1992	08	09.07662	21	34	27.21	-13 29 45.4 19.5	010
1992	PS1		1992	08	09.08704	21	34	26.55	-13 29 46.7	010
1992	PS1		1992	08	09.09745	21	34	25.99	-13 29 47.8	010
1992	PT1	*	1992	08	08.01528	21	36	12.75	-12 01 50.8	010
1992	PT1		1992	08	08.02569	21	36	12.08	-12 01 58.6	010
1992	PT1		1992	08	08.03611	21	36	11.60	-12 02 07.3	010
1992	PT1		1992	08	09.07662	21	35	21.92	-12 13 51.1 18.8	010
1992	PT1		1992	08	09.08704	21	35	21.45	-12 13 58.5	010
1992	PT1		1992	08	09.09745	21	35	20.85	-12 14 06.5	010
1992	PU1	*	1992	08	08.01528	21	36	46.05	-11 01 29.4	010
1992	PU1		1992	08	08.02569	21	36	45.51	-11 01 32.3	010
1992	PU1		1992	08	08.03611	21	36	45.01	-11 01 35.9	010
1992	PU1		1992	08	09.07662	21	35	59.09	-11 06 27.8 18.7	010
1992	PU1		1992	08	09.08704	21	35	58.64	-11 06 31.1	010
1992	PU1		1992	08	09.09745	21	35	58.10	-11 06 35.3	010
1992	PV1	*	1992	08	08.01528	21	38	00.39	-11 51 42.1	010
1992	PV1		1992	08	08.02569	21	37	59.83	-11 51 47.8	010
1992	PV1		1992	08	08.03611	21	37	59.29	-11 51 53.3	010
1992	PV1		1992	08	09.07662	21	37	11.48	-12 00 08.7 18.2	010
1992	PV1		1992	08	09.08704	21	37	10.96	-12 00 14.1	010
1992	PV1		1992	08	09.09745	21	37	10.43	-12 00 19.0	010
1992	PW1	*	1992	08	08.01528	21	38	18.62	-12 37 07.1	010
1992	PW1		1992	08	08.02569	21	38	17.97	-12 37 11.2	010
1992	PW1		1992	08	08.03611	21	38	17.42	-12 37 15.6	010
1992	PW1		1992	08	09.07662	21	37	18.18	-12 42 45.8 18.8	010
1992	PW1		1992	08	09.08704	21	37	17.55	-12 42 49.7	010
1992	PW1		1992	08	09.09745	21	37	16.90	-12 42 52.3	010
1992	PX1	*	1992	08	08.01528	21	38	39.56	-12 38 50.0	010
1992	PX1		1992	08	08.02569	21	38	39.00	-12 38 53.5	010
1992	PX1		1992	08	08.03611	21	38	38.46	-12 38 58.8	010
1992	PX1		1992	08	09.07662	21	37	48.59	-12 44 57.5 19.0	010
1992	PX1		1992	08	09.08704	21	37	47.90	-12 45 01.3	010
1992	PX1		1992	08	09.09745	21	37	47.34	-12 45 05.1	010
1992	PY1	*	1992	08	08.01528	21	38	52.08	-10 46 18.0	010
1992	PY1		1992	08	08.02569	21	38	51.45	-10 46 17.3	010
1992	PY1		1992	08	08.03611	21	38	50.74	-10 46 18.6	010
1992	PY1		1992	08	09.07662	21	37	49.47	-10 46 10.6 19.0	010
1992	PY1		1992	08	09.08704	21	37	48.87	-10 46 12.2	010

1992 PY1	1992 08 09.09745	21 37 48.12	-10 46 12.8			010
1992 PA2	1992 08 08.01528	21 19 50.75	-13 20 47.2			010
1992 PA2	1992 08 08.02569	21 19 50.07	-13 20 46.0			010
1992 PA2	1992 08 08.03611	21 19 49.45	-13 20 45.2			010
4027 P-L	1992 08 08.01528	21 37 28.80	-10 05 35.9			010
4027 P-L	1992 08 08.02569	21 37 28.28	-10 05 39.2			010
4027 P-L	1992 08 08.03611	21 37 27.70	-10 05 40.9			010
4027 P-L	1992 08 09.07662	21 36 39.12	-10 08 51.7		18.5	010
4027 P-L	1992 08 09.08704	21 36 38.60	-10 08 54.2			010
4027 P-L	1992 08 09.09745	21 36 38.03	-10 08 56.7			010
2280 T-2	1992 08 08.01528	21 38 48.71	-10 30 41.1			010
2280 T-2	1992 08 08.02569	21 38 48.15	-10 30 43.3			010
2280 T-2	1992 08 08.03611	21 38 47.52	-10 30 49.1			010
2280 T-2	1992 08 09.07662	21 37 46.99	-10 37 07.2		18.8	010
2280 T-2	1992 08 09.08704	21 37 46.16	-10 37 12.5			010
2280 T-2	1992 08 09.09745	21 37 45.54	-10 37 17.1			010
(277)	1992 07 26.00266	20 18 06.36	-17 52 53.9			010
(277)	1992 07 26.01308	20 18 05.80	-17 52 55.5			010
(277)	1992 07 26.97603	20 17 16.13	-17 55 32.5		17.8	010
(277)	1992 07 26.99409	20 17 15.02	-17 55 35.4			010
(277)	1992 07 27.00450	20 17 14.49	-17 55 36.7			010
(1349)	1992 08 08.01528	21 26 25.02	-11 49 46.7			010
(1349)	1992 08 08.02569	21 26 24.32	-11 49 47.1			010
(1349)	1992 08 08.03611	21 26 23.77	-11 49 47.5			010
(1349)	1992 08 09.07662	21 25 27.91	-11 50 19.2		16.7	010
(1349)	1992 08 09.08704	21 25 27.29	-11 50 19.4			010
(1349)	1992 08 09.09745	21 25 26.75	-11 50 19.1			010
(1624)	1992 07 26.00266	20 18 02.72	-19 06 07.9			010
(1624)	1992 07 26.01308	20 18 02.31	-19 06 09.5			010
(1624)	1992 07 26.97603	20 17 17.47	-19 09 00.8		19.0	010
(1624)	1992 07 26.99409	20 17 16.56	-19 09 03.4			010
(1624)	1992 07 27.00450	20 17 16.05	-19 09 06.3			010
(1793)	1992 08 08.01528	21 27 24.93	-12 12 44.7			010
(1793)	1992 08 08.02569	21 27 24.26	-12 12 48.1			010
(1793)	1992 08 08.03611	21 27 23.59	-12 12 49.9			010
(1793)	1992 08 09.07662	21 26 19.96	-12 17 56.2		17.8	010
(1793)	1992 08 09.08704	21 26 19.34	-12 17 58.4			010
(1793)	1992 08 09.09745	21 26 18.72	-12 18 01.1			010
(2309)	1992 08 08.01528	21 33 10.85	-09 17 35.3			010
(2309)	1992 08 08.02569	21 33 10.23	-09 17 40.2			010
(2309)	1992 08 08.03611	21 33 09.76	-09 17 44.1			010
(2309)	1992 08 09.07662	21 32 24.58	-09 24 27.1		18.2	010
(2309)	1992 08 09.08704	21 32 24.08	-09 24 32.1			010
(2309)	1992 08 09.09745	21 32 23.54	-09 24 36.7			010
(4028)	1992 08 08.01528	21 36 40.56	-11 21 19.2			010
(4028)	1992 08 08.02569	21 36 39.93	-11 21 22.6			010
(4028)	1992 08 08.03611	21 36 39.30	-11 21 26.1			010
(4028)	1992 08 09.07662	21 35 44.89	-11 26 39.0		18.3	010
(4028)	1992 08 09.08704	21 35 44.32	-11 26 42.0			010
(4028)	1992 08 09.09745	21 35 43.69	-11 26 45.6			010
(4179)	1992 07 26.97603	20 10 15.37	-19 58 51.5			010
(4179)	1992 07 26.99409	20 10 13.64	-19 58 57.3			010
(4179)	1992 07 27.00450	20 10 12.50	-19 58 59.2			010
(4263)	1992 07 26.00266	20 13 40.58	-19 04 12.3			010
(4263)	1992 07 26.01308	20 13 39.86	-19 04 12.3			010
(4263)	1992 07 26.97603	20 12 36.69	-19 03 25.4		18.4	010
(4263)	1992 07 26.99409	20 12 35.36	-19 03 25.5			010
(4263)	1992 07 27.00450	20 12 34.70	-19 03 24.0			010
(4527)	1992 08 08.01528	21 37 14.34	-12 48 07.2			010

(4527)		1992 08 08.02569	21 37 13.88	-12 48 12.4					010
(4527)		1992 08 08.03611	21 37 13.35	-12 48 18.0					010
(4527)		1992 08 09.07662	21 36 29.95	-12 57 02.7		17.9			010
(4527)		1992 08 09.08704	21 36 29.44	-12 57 07.8					010
(4527)		1992 08 09.09745	21 36 28.99	-12 57 12.8					010

033 Tautenburg
F. Borngen, Thuringer Landessternwarte, Dorfstrasse 73,
O-6901 Tautenburg, Federal Republic of Germany
1.3-m Schmidt telescope
PPM

1978 SS2		1992 02 08.92569	07 34 46.61	+09 40 45.4		18.4			033
1978 SS2		1992 02 08.97222	07 34 44.75	+09 40 55.5					033
1978 SS2		1992 02 09.94167	07 34 08.53	+09 44 24.1					033
1988 CF5		1992 01 03.04653	07 59 05.72	+06 52 55.1		17.8			033
1988 CF5		1992 01 03.09306	07 59 03.08	+06 52 59.9					033
1990 TJ2		1991 12 12.05660	08 16 34.58	+07 39 14.4		18.0			033
1990 TJ2		1991 12 12.13819	08 16 32.92	+07 38 59.0					033
1990 TJ2		1991 12 13.01840	08 16 15.96	+07 36 14.5					033
1990 TJ2		1992 01 03.04653	08 04 26.05	+07 00 56.9		17.6			033
1990 TJ2		1992 01 03.09306	08 04 23.80	+07 00 55.9					033
1990 TJ2		1992 02 08.92569	07 35 23.23	+08 15 08.7		17.7			033
1990 TJ2		1992 02 08.97222	07 35 21.45	+08 15 19.4					033
1990 TJ2		1992 02 09.94167	07 34 46.51	+08 18 49.6					033
1991 TJ12		1991 10 09.92361	00 35 13.29	+06 29 01.2		18.9			033
1991 TJ12		1991 10 09.97153	00 35 10.00	+06 28 56.4					033
1992 AF		1991 12 12.05660	08 18 08.61	+09 08 24.8		17.1			033
1992 AF		1991 12 12.13819	08 18 07.82	+09 07 59.2					033
1992 AF		1991 12 13.01840	08 18 00.47	+09 03 27.2					033
1992 AF		1992 01 03.04653	08 08 40.09	+07 47 36.7		16.7			033
1992 AF		1992 01 03.09306	08 08 38.01	+07 47 30.9					033
1992 AF		1992 02 08.92569	07 39 54.27	+08 22 33.1		17.1			033
1992 AF		1992 02 08.97222	07 39 52.53	+08 22 41.4					033
1992 AF		1992 02 09.94167	07 39 19.61	+08 25 47.5					033
1992 BH		1991 12 12.05660	08 21 57.31	+06 21 49.7		17.7			033
1992 BH		1991 12 12.13819	08 21 56.31	+06 21 59.2					033
1992 BH		1991 12 13.01840	08 21 45.87	+06 23 43.5					033
(4252)		1992 02 08.92569	07 33 17.29	+07 45 56.7		17.8			033
(4252)		1992 02 08.97222	07 33 15.21	+07 46 18.4					033
(4252)		1992 02 09.94167	07 32 35.53	+07 53 54.8					033

046 Klet
J. Ticha, Hvezdarna Klet, CS-37001 Ceske Budejovice, Czechoslovakia
Observers Z. Moravec, A. Mrkos, J. Ticha, M. Tichy, Z. Vavrova
Measurers Z. Moravec, A. Mrkos, M. Tichy, Z. Vavrova
0.63-m Maksutov reflector, 0.57-m f/5 reflector

1983 EV		1992 03 09.93819	11 49 47.82	+03 11 29.5					046
1983 EV		1992 03 09.95249	11 49 47.25	+03 11 30.2					046
1990 QL2		1992 03 04.98976	11 03 19.41	+06 45 10.2					046
1990 QL2		1992 03 05.00417	11 03 18.63	+06 45 18.8					046
1991 PW		1991 08 07.98137	21 27 46.39	-09 09 17.3		16.6			046
1991 PW		1991 08 07.99554	21 27 45.73	-09 09 18.5					046
1992 DU4	*	1992 02 29.86671	11 03 05.01	+05 58 23.8		16.4			046
1992 DU4		1992 03 04.98976	11 00 36.45	+06 24 33.4					046
1992 DU4		1992 03 05.00417	11 00 35.70	+06 24 34.4				U	046
1992 DV4	*	1992 02 29.86671	11 10 28.97	+05 36 49.8		16.7			046
1992 DV4		1992 03 01.97157	11 09 55.49	+05 41 42.3					046
1992 DV4		1992 03 01.98587	11 09 54.82	+05 41 45.3				U	046
1992 DW4	*	1992 02 29.86671	11 10 50.32	+05 06 20.7		16.3			046

1992 DW4		1992 03 04.98976	11 07 58.90	+05 14 53.8					046
1992 DW4		1992 03 05.00417	11 07 58.24	+05 14 55.1					046
1992 EY2	*	1992 03 01.05641	11 21 24.10	+05 55 43.9		16.7			046
1992 EY2		1992 03 01.97157	11 20 45.09	+05 55 47.4				U	046
1992 EY2		1992 03 01.98587	11 20 44.50	+05 55 47.4					046
1992 EZ2	*	1992 03 02.00427	11 16 47.52	+02 56 42.9		16.5			046
1992 EZ2		1992 03 02.01851	11 16 46.76	+02 56 56.1					046
1992 EZ2		1992 03 05.02998	11 14 20.36	+03 14 35.0					046
1992 EZ2		1992 03 05.04525	11 14 19.71	+03 14 46.8					046
(318)		1992 03 01.97157	11 18 58.31	+05 44 13.0					046
(318)		1992 03 01.98585	11 18 57.72	+05 44 19.5					046
(494)		1992 02 10.96532	08 27 12.10	+29 40 35.5					046
(494)		1992 02 10.97991	08 27 11.27	+29 40 37.0					046
(494)		1992 02 24.78546	08 17 01.33	+29 47 41.9					046
(494)		1992 02 24.80039	08 17 00.89	+29 47 41.3					046
(494)		1992 02 26.79796	08 15 51.66	+29 46 36.7					046
(494)		1992 02 26.81220	08 15 51.16	+29 46 36.4					046
(494)		1992 02 28.78060	08 14 48.87	+29 45 02.8					046
(494)		1992 02 28.79553	08 14 48.41	+29 45 02.5					046
(679)		1992 02 10.96532	08 27 58.35	+30 42 55.2					046
(679)		1992 02 10.97991	08 27 57.44	+30 43 03.0					046
(703)		1992 03 04.98976	11 03 30.97	+02 36 47.1				E	046
(703)		1992 03 05.00417	11 03 30.20	+02 36 52.1				E	046
(703)		1992 03 05.02998	11 03 28.62	+02 37 05.4				E	046
(703)		1992 03 05.04525	11 03 27.61	+02 37 12.0				E	046
(847)		1992 03 05.02998	11 06 18.44	+01 49 32.2				E	046
(847)		1992 03 05.04525	11 06 17.67	+01 49 37.4				E	046
(1422)		1992 03 05.02998	11 14 08.23	+02 14 07.8					046
(1422)		1992 03 05.04525	11 14 07.68	+02 14 17.1					046
(1726)		1992 03 05.02998	11 04 49.36	+00 40 28.6				E	046
(1726)		1992 03 05.04525	11 04 48.42	+00 40 29.4				E	046
(2264)		1992 03 09.93819	11 46 35.19	+01 14 50.9					046
(2264)		1992 03 09.95249	11 46 34.60	+01 14 54.8					046
(2277)		1992 03 04.92014	11 09 37.55	+23 43 15.9					046
(2277)		1992 03 04.93553	11 09 36.73	+23 43 22.7					046
(2277)		1992 03 09.98073	11 05 22.28	+24 21 49.5					046
(2277)		1992 03 09.99537	11 05 21.60	+24 21 56.2					046
(3395)		1992 03 09.93819	11 46 08.11	+02 55 43.1					046
(3395)		1992 03 09.95249	11 46 07.35	+02 55 45.8					046
(3423)		1992 03 09.93819	11 44 45.91	+01 26 51.8					046
(3423)		1992 03 09.95249	11 44 45.19	+01 26 55.4					046
(4402)		1992 03 09.93819	11 46 57.51	+00 32 43.2					046
(4402)		1992 03 09.95249	11 46 56.87	+00 32 48.4					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

1990 BQ1		1992 07 22.92326	21 54 50.01	-01 05 51.4					104
1990 BQ1		1992 07 22.93507	21 54 49.15	-01 05 42.9					104
1990 BQ1		1992 07 29.92431	21 46 13.37	+00 29 34.6					104
1990 BQ1		1992 07 29.93611	21 46 12.41	+00 29 44.1					104
1990 BQ1		1992 07 30.91597	21 44 54.96	+00 42 35.3					104
1990 BQ1		1992 07 30.92778	21 44 53.96	+00 42 44.5					104
1992 LR		1992 07 19.89826	17 38 14.10	-00 13 37.8					104
1992 LR		1992 07 21.90104	17 51 37.07	+00 40 08.9					104
1992 LR		1992 07 21.91215	17 51 41.03	+00 40 25.6					104

1992 LR		1992 07 24.89688	18 13 07.49	+01 58 22.8			104
1992 LR		1992 07 24.90799	18 13 11.79	+01 58 38.0			104
1992 LR		1992 07 29.85243	18 51 37.54	+03 54 36.0			104
1992 LR		1992 07 29.86389	18 51 42.73	+03 54 50.9			104
1992 LR		1992 08 01.95278	19 16 29.21	+04 53 46.9			104
1992 LR		1992 08 01.96458	19 16 34.94	+04 54 00.6			104
1992 LR		1992 08 02.91597	19 24 14.45	+05 09 35.3			104
1992 LR		1992 08 02.92778	19 24 19.41	+05 09 45.7			104

293 Burlington remote site
T. Handley, 13 Linden Avenue, Burlington, NJ 08016, U.S.A.
0.26-m f/3.9 Wright-Schmidt camera

1989 YF5		1992 07 03.24688	19 08 32.00	-20 36 49.2			293
1989 YF5		1992 07 03.25729	19 08 31.35	-20 36 46.6			293
(1954)		1992 07 03.24688	19 13 14.45	-19 34 51.1			293
(1954)		1992 07 03.25729	19 13 14.07	-19 34 47.9			293

298 Van Vleck Observatory
J. Sudol, Macalester College, 1600 Grand Avenue, St. Paul, MN 55105, U.S.A.
Observers J. Sudol, G. Garber
0.51-m f/16.6 refractor
From Minor Planet Bulletin

(704)		1990 08 15.17635	22 43 19.93	+16 21 20.4			298
(704)		1990 08 16.18958	22 42 34.77	+16 25 00.1			298
(704)		1990 08 17.17778	22 41 50.08	+16 28 21.4			298

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

1931 VS		1989 11 24.64757	02 46 40.26	+24 05 52.8	16.5		372
1931 VS		1989 11 24.65937	02 46 39.31	+24 05 54.0			372
1974 QX1		1990 02 01.65486	08 25 35.55	+21 41 35.2	18		372
1974 QX1		1990 02 01.66319	08 25 34.94	+21 41 39.7			372
1979 KO		1992 08 09.75460	04 16 32.24	+03 56 08.4	17		372
1979 KO		1992 08 09.77014	04 16 32.64	+03 56 08.8			372
1982 US6		1990 12 06.48472	01 48 43.40	+11 23 43.7	16.5		372
1982 US6		1990 12 06.50556	01 48 43.21	+11 23 48.1			372
1988 UH		1992 07 23.63715	20 40 30.43	-13 00 21.6	18.5		372
1988 UH		1992 07 23.64826	20 40 30.01	-13 00 22.9			372
1989 CV		1992 07 23.59514	20 05 55.58	-27 49 02.3	18		372
1989 CV		1992 07 23.60521	20 05 55.18	-27 49 04.7			372
1989 EN5		1989 03 10.58750	10 37 07.90	+02 07 07.2	18		372
1989 EN5		1989 03 10.59792	10 37 07.54	+02 07 08.8			372
1989 QM1	*	1989 08 27.56736	20 06 58.09	-29 54 22.1	17		372
1989 QM1		1989 08 27.58611	20 06 57.35	-29 54 20.5			372
1989 VM6	*	1989 11 09.81910	10 51 58.93	+05 16 26.0	18.5		372
1989 YH		1989 12 31.72014	08 51 40.27	+19 46 56.8	18		372
1989 YH		1989 12 31.74132	08 51 39.59	+19 46 59.1			372
1989 YZ1		1990 01 03.75590	08 49 12.26	+20 12 20.9	17		372
1989 YZ1		1990 01 03.76632	08 49 11.59	+20 12 20.9			372
1989 YZ1		1990 02 01.65486	08 25 34.62	+21 46 03.4	17		372
1989 YZ1		1990 02 01.66319	08 25 34.11	+21 46 06.4			372
1989 YY3		1990 01 25.58611	08 43 26.48	+21 26 10.8	17		372
1989 YY3		1990 01 25.59583	08 43 25.73	+21 26 14.5			372
1989 YV9	*	1989 12 31.80313	08 49 38.74	+12 26 20.0	18		372
1989 YV9		1989 12 31.81354	08 49 38.21	+12 26 22.0			372
1990 CY	*	1990 02 01.69583	08 11 31.10	+24 35 06.9	17.5		372

1990 CY		1990	02	01.70625	08	11	30.31	+24 35 11.7		372
1990 HE7	*	1990	04	28.64757	21	20	49.52	-17 27 12.2	17	372
1990 HE7		1990	04	28.66007	21	20	48.73	-17 27 08.6		372
1990 UQ13	*	1990	10	20.62454	01	22	22.50	-06 04 35.0	18	372
1990 UQ13		1990	10	20.63542	01	22	21.57	-06 04 35.3		372
1990 UR13	*	1990	10	20.62454	01	24	05.21	-06 32 01.8	17	372
1990 UR13		1990	10	20.63542	01	24	04.76	-06 32 04.7		372
1990 US13	*	1990	10	27.71042	03	14	08.42	+15 08 51.2	18	372
1990 US13		1990	10	27.72240	03	14	07.72	+15 08 47.2		372
1990 UT13	*	1990	10	19.70382	01	47	05.71	+10 18 20.8	18	372
1990 UT13		1990	10	19.71406	01	47	04.98	+10 18 16.2		372
1990 VH12		1990	11	11.72986	04	14	10.64	+12 12 10.4	17	372
1990 VH12		1990	11	11.74028	04	14	10.16	+12 12 05.7		372
1990 VV15	*	1990	11	14.67188	02	48	32.52	+26 07 37.6	17.5	372
1990 VV15		1990	11	14.68160	02	48	31.63	+26 07 39.5		372
1990 WQ15	*	1990	11	21.66354	04	09	40.76	+16 50 33.0	17	372
1990 WQ15		1990	11	21.67535	04	09	39.88	+16 50 29.9		372
1990 WR15	*	1990	11	21.66354	04	10	47.66	+16 53 42.5	16.5	372
1990 WR15		1990	11	21.67535	04	10	47.00	+16 53 40.1		372
1990 XC2		1990	12	19.60799	03	24	47.65	+15 11 11.8	18	372
1990 XC2		1990	12	19.61944	03	24	47.32	+15 11 09.8		372
1990 YU		1990	12	19.60799	03	26	55.15	+14 51 26.8	17.5	372
1990 YU		1990	12	19.61944	03	26	54.87	+14 51 24.6		372
1990 YO1	*	1990	12	24.64306	09	15	39.82	+18 58 03.2	17.5	372
1990 YO1		1990	12	24.66528	09	15	39.69	+18 58 15.5		372
1991 AB2		1990	12	21.65833	07	55	05.27	+13 46 49.6	17.5	372
1991 AB2		1990	12	21.67153	07	55	04.68	+13 46 51.2		372
1991 BD		1990	12	19.71320	08	27	06.21	+18 04 03.8	17.5	372
1991 BD		1990	12	19.72535	08	27	05.70	+18 04 03.2		372
1991 CO5	*	1991	02	07.63125	10	22	42.42	+07 16 21.6	18.5	372
1991 CO5		1991	02	07.64583	10	22	41.55	+07 16 30.5		372
1991 EU		1992	07	23.61666	20	54	37.03	-20 48 35.7	18.5	372
1991 EU		1992	07	23.62673	20	54	35.82	-20 48 43.1		372
1992 GO4		1992	04	05.69861	14	31	25.42	-14 03 55.8	18	372
1992 GO4		1992	04	05.71008	14	31	25.00	-14 03 57.8		372
1992 NR		1992	07	10.71007	21	19	50.43	-08 45 04.5	17	372
1992 NR		1992	07	10.73160	21	19	49.72	-08 45 12.3		372
1992 OK		1992	08	09.70382	21	18	23.10	+00 26 40.0	17	372
1992 OK		1992	08	09.71319	21	18	22.73	+00 26 42.0		372
1992 OK		1992	08	21.61007	21	10	07.66	+00 20 14.8	17	372
1992 OK		1992	08	21.62257	21	10	07.00	+00 20 14.2		372
1992 OK		1992	08	23.64479	21	08	50.63	+00 15 53.3	16.5	372
1992 OK		1992	08	31.60000	21	04	38.61	-00 08 07.7	17	372
1992 OK		1992	08	31.61007	21	04	38.23	-00 08 10.2		372
1992 QD	*	1992	08	26.60486	22	49	19.48	-00 01 08.7	15.5	372
1992 QD		1992	08	26.61528	22	49	19.09	-00 01 15.5		372
1992 QD		1992	08	27.57777	22	48	42.67	-00 12 08.1	15	372
1992 QD		1992	08	27.60903	22	48	41.25	-00 12 32.8		372
1992 QD		1992	08	27.69583	22	48	37.80	-00 13 29.5		372
1992 QE	*	1992	08	26.60486	22	50	25.77	-00 18 59.9	17	372
1992 QE		1992	08	26.61528	22	50	25.17	-00 19 01.5		372
1992 QE		1992	08	27.57778	22	49	31.81	-00 20 21.5	17	372
1992 QE		1992	08	27.60903	22	49	30.00	-00 20 22.1		372
1992 QE		1992	08	27.69583	22	49	25.06	-00 20 32.1		372
1992 QE		1992	08	29.63837	22	47	35.85	-00 23 32.1	17	372
1992 QE		1992	08	29.67465	22	47	33.79	-00 23 36.1		372
1992 QF	*	1992	08	26.63403	00	08	57.86	-23 00 08.1	18	372
1992 QF		1992	08	26.68681	00	08	54.55	-23 00 09.4		372
1992 QF		1992	08	26.70278	00	08	53.59	-23 00 09.7		372

1992 QF	1992 08 27.66528	00 07 52.01	-23 00 53.2	18			372
1992 QF	1992 08 27.68194	00 07 51.16	-23 00 53.1				372
1992 QF	1992 08 29.69392	00 05 37.55	-23 01 49.9	17			372
1992 QF	1992 08 29.70868	00 05 36.58	-23 01 50.0				372
(178)	1992 07 23.61666	20 55 00.80	-20 42 30.8	15			372
(178)	1992 07 23.62673	20 54 59.97	-20 42 33.6				372
(449)	1992 07 23.61666	20 55 13.68	-20 34 21.9	16			372
(449)	1992 07 23.62673	20 55 12.80	-20 34 24.6				372
(546)	1989 11 26.78947	12 03 49.77	+11 12 03.9	15.5			372
(546)	1989 11 26.80069	12 03 50.57	+11 11 58.7				372
(546)	1989 11 28.80417	12 06 41.81	+10 53 53.7	16			372
(546)	1989 11 28.81181	12 06 42.52	+10 53 49.5				372
(801)	1992 08 09.70382	21 20 55.33	+01 06 34.7	16.5			372
(801)	1992 08 09.71319	21 20 54.95	+01 06 37.7				372
(1082)	1990 02 01.63785	07 50 15.65	+19 49 42.2	16.5			372
(1082)	1990 02 01.64549	07 50 15.25	+19 49 43.6				372
(1680)	1989 10 31.70590	02 43 09.79	+11 23 18.6	17			372
(1680)	1989 11 02.66952	02 41 24.96	+11 16 37.2	17			372
(1680)	1989 11 02.68924	02 41 24.52	+11 16 37.2				372
(1841)	1990 10 19.70382	01 48 04.80	+09 57 44.8	17			372
(1841)	1990 10 19.71406	01 48 04.37	+09 57 45.8				372
(2057)	1990 01 03.75590	08 45 45.71	+20 08 50.4	17			372
(2057)	1990 01 03.76632	08 45 45.29	+20 08 52.8				372
(2057)	1990 01 29.68125	08 23 10.66	+21 28 58.6	17			372
(2057)	1990 01 29.69479	08 23 09.92	+21 29 03.7				372
(3166)	1989 12 09.76388	10 08 16.21	+17 15 00.1	17			372
(3166)	1989 12 09.77430	10 08 16.73	+17 15 00.4				372
(3191)	1990 12 27.81076	09 44 02.47	+17 28 18.6	17.5			372
(3191)	1990 12 27.82257	09 44 02.19	+17 28 20.4				372
(3804)	1991 01 09.68542	09 33 23.78	+17 33 02.4	17			372
(3804)	1991 01 09.69792	09 33 23.31	+17 33 07.6				372
(3836)	1990 12 24.64306	09 16 52.38	+17 55 20.5	18			372
(3836)	1990 12 24.66528	09 16 51.87	+17 55 31.4				372
(3899)	1991 04 16.67813	14 06 44.41	-09 38 06.5	17			372
(3899)	1991 04 16.68924	14 06 43.76	-09 38 00.7				372
(4015)	1992 08 29.77118	05 38 10.59	+27 50 01.2	18.5			372
(4191)	1990 12 19.60799	03 26 29.90	+15 06 38.8	18			372
(4191)	1990 12 19.61944	03 26 29.38	+15 06 37.7				372
(4480)	1989 11 02.64514	01 46 53.98	+09 00 51.4	17.5			372
(4638)	1989 03 10.58750	10 38 06.80	+01 43 46.0	17			372
(4638)	1989 03 10.59792	10 38 06.30	+01 43 49.7				372
(4779)	1989 10 30.52326	01 48 36.29	+10 35 44.4	17.5			372
(4779)	1989 10 30.53611	01 48 35.81	+10 35 42.1				372
(4869)	1989 11 02.70104	03 11 08.48	+12 32 17.6	17			372
(4869)	1989 11 02.71146	03 11 07.61	+12 32 16.5				372
(4882)	1989 11 02.64514	01 45 16.58	+08 55 28.0	17			372

376 Uenohara
N. Kawasato, 3-51, Hana-Koganei, Kodaira, Tokyo 187, Japan
0.30-m reflector + CCD
GSC

1988 YB	1992 08 06.63553	22 13 02.44	-13 42 02.6	18			376
1988 YB	1992 08 06.65058	22 13 01.61	-13 42 11.4				376
1988 YB	1992 08 22.64271	22 01 46.77	-14 46 31.9				376
1988 YB	1992 08 22.65174	22 01 46.28	-14 46 36.6				376
1989 XB	1992 08 06.55463	20 22 53.03	-17 46 51.1				376
1989 XB	1992 08 06.57963	20 22 51.53	-17 47 00.0				376
1989 XB	1992 08 22.59549	20 08 57.02	-19 18 29.0				376
1989 XB	1992 08 22.60833	20 08 56.46	-19 18 33.9				376

1990 BG1		1992 08 06.68681	22 27 51.55	-18 20 50.9	18	376
1990 BG1		1992 08 06.70220	22 27 50.79	-18 20 58.4		376
1991 CA		1992 09 01.50168	22 35 11.86	-08 09 20.7		376
1991 CA		1992 09 01.51366	22 35 11.10	-08 09 24.4		376
1991 JE1		1992 08 22.62355	21 45 29.84	-04 11 37.7		376
1991 JE1		1992 08 22.63299	21 45 29.43	-04 11 42.4		376
1992 RA	*	1992 09 01.50168	22 35 15.9	-07 57 53	17.5	376
1992 RA		1992 09 01.51366	22 35 15.3	-07 57 56		376
1992 RA		1992 09 03.52211	22 33 15.57	-08 14 44.9		376
1992 RA		1992 09 03.53322	22 33 15.13	-08 14 48.4		376

399 Kushiro
H. Kaneda, Taiyo MS 2-H, 2 chome 2-15, Kawazoe 8 jo, Minami-ku,
Sapporo 005, Japan
Observer S. Ueda
Measurer H. Kaneda
0.25-m f/3.5 reflector
GSC

1955 EH	1992 04 03.57500	12 34 59.35	+03 55 21.2	17	399
1955 EH	1992 04 03.59001	12 34 58.45	+03 55 29.4		399
1976 YF5	1992 03 08.60278	11 58 27.96	-01 01 23.8	17.5	399
1976 YF5	1992 03 08.61771	11 58 27.24	-01 01 20.8		399
1980 RJ	1992 03 08.60278	11 56 14.02	+00 24 59.8	17	399
1980 RJ	1992 03 08.61771	11 56 13.09	+00 25 03.7		399
1980 TM	1992 03 24.51389	11 42 49.12	+04 57 25.4	17	399
1980 TM	1992 03 24.52882	11 42 48.43	+04 57 28.6		399
1980 TM	1992 03 26.58056	11 41 08.82	+05 05 31.0	17.5	399
1980 TM	1992 03 26.59618	11 41 07.92	+05 05 33.8		399
1980 UL1	1989 10 21.40278	00 15 33.77	+11 37 43.5	16.5	399
1980 UL1	1989 10 21.41910	00 15 33.08	+11 37 34.2		399
1980 UL1	1989 10 21.43715	00 15 32.44	+11 37 24.9		399
1981 EP26	1992 03 02.55579	11 13 55.17	+03 35 09.9	17	399
1981 EP26	1992 03 02.57049	11 13 54.46	+03 35 18.9		399
1981 EP26	1992 03 03.53681	11 13 05.50	+03 43 56.4	17	399
1981 EP26	1992 03 03.55174	11 13 04.87	+03 44 04.1		399
1981 EP26	1992 03 22.48264	10 57 30.54	+06 32 48.0	17	399
1981 EP26	1992 03 22.49757	10 57 30.05	+06 32 54.6		399
1985 CC2	1992 03 07.58194	12 07 06.12	+05 11 01.1	17	399
1985 CC2	1992 03 07.59687	12 07 05.33	+05 11 09.1		399
1985 CC2	1992 03 08.56806	12 06 16.24	+05 18 35.7	16.5	399
1985 CC2	1992 03 08.58299	12 06 15.40	+05 18 42.4		399
1987 VG1	1992 08 28.48287	23 02 29.70	+09 39 10.4	16.5	399
1987 VG1	1992 08 28.55842	23 02 26.31	+09 38 57.4		399
1988 CH2	1992 03 24.54792	11 44 49.67	+10 22 29.6	17	399
1988 CH2	1992 03 24.56296	11 44 48.77	+10 22 35.9		399
1988 CN4	1992 02 08.67431	09 07 12.60	+06 11 08.1	16.5	399
1988 CN4	1992 02 08.68929	09 07 11.79	+06 11 12.7		399
1989 GL1	1992 03 07.47292	10 07 58.47	+09 15 31.0	16.5	399
1989 GL1	1992 03 07.48785	10 07 57.53	+09 15 36.7		399
1989 RB2	1992 02 21.42361	09 14 01.78	+11 00 20.3	16.5	399
1989 RB2	1992 02 21.43854	09 14 00.94	+11 00 24.1		399
1989 UB10	1989 10 21.43715	00 14 57.36	+11 33 13.4		399
1990 TN	1992 04 03.57500	12 43 04.32	+03 44 16.1	16.5	399
1990 TN	1992 04 03.59001	12 43 03.32	+03 44 16.5		399
1991 AR1	1992 03 08.60278	11 58 31.10	+00 45 09.0	17.5	399
1991 AR1	1992 03 08.61771	11 58 30.40	+00 45 13.6		399
1992 AM1	1992 02 08.63264	09 44 15.34	+18 45 13.7	17	399
1992 AM1	1992 02 08.64757	09 44 14.62	+18 45 16.8		399
1992 BO	1992 02 22.46042	09 26 14.50	+22 25 36.9	17	399

1992 BO		1992 02 22.48333	09 26 13.28	+22 25 40.5					399
1992 CE		1992 03 07.47292	10 04 45.97	+07 40 32.5		16.5			399
1992 CE		1992 03 07.48785	10 04 45.36	+07 40 37.3					399
1992 DC1		1992 03 26.51458	11 19 22.29	+15 55 39.9		17			399
1992 DC1		1992 03 26.52951	11 19 21.63	+15 55 40.8					399
1992 GO		1992 03 08.63611	12 10 39.62	+07 39 39.0		17			399
1992 GO		1992 03 08.65104	12 10 38.95	+07 39 48.1					399
1992 GO		1992 03 26.54792	11 57 05.08	+10 36 12.6		17			399
1992 GO		1992 03 26.56285	11 57 04.14	+10 36 21.9					399
1992 MB		1992 06 27.59236	17 35 45.16	-14 11 29.3		16			399
1992 MB		1992 06 27.60694	17 35 44.10	-14 11 29.1					399
1992 MB		1992 06 29.59664	17 33 48.85	-14 11 18.0		16			399
1992 MB		1992 06 29.61123	17 33 47.97	-14 11 16.4					399
1992 QG	*	1992 08 26.54410	23 04 32.39	-05 03 01.3		16.5			399
1992 QG		1992 08 26.56181	23 04 31.64	-05 03 11.1					399
1992 QG		1992 08 26.57639	23 04 30.95	-05 03 17.0					399
1992 QG		1992 08 28.51435	23 02 59.29	-05 20 35.2		16			399
1992 QG		1992 08 28.52917	23 02 58.48	-05 20 43.8					399
1992 QH	*	1992 08 26.54410	23 04 50.84	-04 11 48.1		15.5			399
1992 QH		1992 08 26.56181	23 04 49.82	-04 11 50.2					399
1992 QH		1992 08 26.57639	23 04 48.99	-04 11 50.6					399
1992 QH		1992 08 28.51435	23 03 04.81	-04 13 18.8		15.5			399
1992 QH		1992 08 28.52917	23 03 04.00	-04 13 19.2					399
1992 QJ	*	1992 08 26.54410	23 09 21.29	-03 27 55.9		17			399
1992 QJ		1992 08 26.56181	23 09 20.19	-03 27 59.6					399
1992 QJ		1992 08 26.57639	23 09 19.46	-03 28 02.3					399
1992 QJ		1992 08 28.51435	23 07 26.84	-03 34 23.8		17			399
1992 QJ		1992 08 28.52917	23 07 26.07	-03 34 25.6					399
1159 T-2		1992 03 02.51736	10 25 08.52	-04 12 34.6		17			399
1159 T-2		1992 03 02.53229	10 25 07.94	-04 12 28.1					399
1159 T-2		1992 03 03.50139	10 24 22.36	-04 02 20.6		17			399
1159 T-2		1992 03 03.51632	10 24 21.54	-04 02 11.1					399
1159 T-2		1992 03 22.44763	10 11 55.67	-00 34 44.5		17			399
1159 T-2		1992 03 22.46395	10 11 55.21	-00 34 33.7					399
1159 T-2		1992 03 23.49375	10 11 25.95	-00 23 28.2		17.5			399
1159 T-2		1992 03 23.50868	10 11 25.58	-00 23 18.2					399
3070 T-2		1992 02 25.58472	11 26 33.71	+07 44 23.2		16.5			399
3070 T-2		1992 02 25.59931	11 26 32.89	+07 44 31.0					399
3070 T-2		1992 02 26.51806	11 25 47.74	+07 52 12.4		16			399
3070 T-2		1992 02 26.53299	11 25 46.88	+07 52 17.9					399
3070 T-2		1992 03 22.51667	11 03 54.11	+11 04 43.5		16.5			399
3070 T-2		1992 03 22.53194	11 03 53.32	+11 04 49.1					399
(4687)		1992 02 21.42361	09 13 59.69	+11 00 57.6		17			399
(4687)		1992 02 21.43854	09 13 58.86	+11 00 59.0					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 QD		1992 08 27.61751	22 48 40.94	-00 12 37.6	16.0		D	402
1992 QD		1992 08 27.63186	22 48 40.35	-00 12 47.0			D	402

408 Nyukasa
K. Watanabe, 3-8 Mason Hashimoto B-203, Atsubetsu Chuo 3 Jo 4 Chome, Atsubetsu-Ku, Sapporo 004, Japan
Observers M. Hirasawa, S. Suzuki
Measurer K. Watanabe
0.16-m f/3.8 Wright-Schmidt camera

1990 TS	1990 11 17.51765	01 50 08.53	+17 55 48.8	16.0		408
1990 TS	1990 11 17.53857	01 50 07.63	+17 55 44.7			408
1990 TS	1990 11 17.55619	01 50 06.71	+17 55 40.0			408

413 Siding Spring
R. H. McNaught, Siding Spring Observatory, Coonabarabran, N.S.W. 2357, Australia
Observers M. J. Drinkwater, M. Hartley, R. H. McNaught, Q. A. Parker, A. Savage, D. I. Steel
Measurer R. H. McNaught
Uppsala Southern Schmidt, U.K. Schmidt, 1.0-m reflector + CCD

1951 SY	1992 08 21.53200	17 07 33.69	+01 39 07.8			413
1951 SY	1992 08 21.53507	17 07 33.76	+01 39 05.4			413
1973 NA	1992 08 21.39616	14 50 21.09	-72 36 01.9		I	413
1973 NA	1992 08 21.39817	14 50 21.30	-72 36 01.4			413
1973 NA	1992 08 22.43115	14 51 58.56	-72 34 34.6			413
1973 NA	1992 08 22.43336	14 51 58.76	-72 34 34.5			413
1986 RA	1992 08 20.49670	16 23 59.20	+06 25 28.2			413
1986 RA	1992 08 20.49866	16 23 59.36	+06 25 26.1			413
1987 SL	1992 08 20.47436	15 03 00.66	-53 23 09.0		I	413
1987 SL	1992 08 20.47646	15 03 01.42	-53 23 08.1			413
1987 SL	1992 08 21.45157	15 09 11.68	-53 19 28.2			413
1987 SL	1992 08 21.45341	15 09 12.36	-53 19 27.7			413
1988 RA	1992 08 20.55708	21 09 01.17	-49 48 11.3			413
1988 RA	1992 08 21.58106	21 07 33.58	-49 45 25.9			413
1988 RA	1992 08 21.58318	21 07 33.40	-49 45 25.4			413
1988 VQ2	1992 07 26.62539	21 37 36.75	-47 46 39.7			413
1988 VQ2	1992 07 26.68789	21 37 33.94	-47 47 20.0			413
1988 VQ2	1992 08 05.45988	21 29 16.71	-49 16 20.2			413
1988 VQ2	1992 08 05.46214	21 29 16.58	-49 16 21.2			413
1988 VQ2	1992 08 20.56064	21 14 40.61	-50 09 06.0			413
1988 VQ2	1992 08 20.56262	21 14 40.50	-50 09 05.9			413
1988 VQ2	1992 08 21.58604	21 13 45.53	-50 08 36.3			413
1988 VQ2	1992 08 21.58811	21 13 45.41	-50 08 36.2			413
1989 WK2	1992 08 21.48127	17 43 39.22	-02 12 00.9			413
1989 WK2	1992 08 21.48500	17 43 39.20	-02 12 02.6			413
1989 WK2	1992 08 22.48524	17 43 35.74	-02 19 56.0			413
1989 WK2	1992 08 22.48878	17 43 35.72	-02 19 57.6			413
1989 YP	1992 08 22.49331	16 26 47.24	-09 10 41.7			413
1989 YP	1992 08 22.49611	16 26 47.31	-09 10 42.8			413
1990 DA	1992 08 21.70256	23 23 22.56	-17 26 27.8			413
1990 DA	1992 08 21.70505	23 23 22.46	-17 26 31.4			413
1990 DA	1992 08 22.59126	23 22 47.75	-17 48 29.5			413
1990 DA	1992 08 22.59316	23 22 47.67	-17 48 32.3			413
1991 DA	1992 07 03.64623	20 36 31.08	-65 01 05.0			413
1991 DA	1992 07 03.65147	20 36 30.60	-65 01 05.7			413
1991 DA	1992 07 03.65953	20 36 29.86	-65 01 06.4			413
1991 DA	1992 07 03.66677	20 36 29.16	-65 01 06.9			413
1991 DA	1992 07 03.74897	20 36 21.75	-65 01 14.3			413
1991 DA	1992 08 21.41763	19 29 29.92	-62 45 37.1			413
1991 DA	1992 08 21.42247	19 29 29.51	-62 45 35.2			413
1991 DA	1992 08 21.42631	19 29 29.42	-62 45 33.7			413
1991 DA	1992 08 21.42846	19 29 29.30	-62 45 32.9			413
1991 DA	1992 08 22.51344	19 28 31.18	-62 38 40.1			413
1991 DA	1992 08 22.51840	19 28 30.95	-62 38 38.4			413
1991 DA	1992 08 22.52439	19 28 30.57	-62 38 36.3			413
1991 DA	1992 08 22.52984	19 28 30.20	-62 38 34.5			413
1991 DA	1992 08 22.53494	19 28 29.95	-62 38 31.7			413
1991 DA	1992 08 22.53998	19 28 29.75	-62 38 30.2			413

1991	DA	1992	08	22.54729	19 28 29.38	-62	38	26.8		413
1991	FF	1992	08	21.54576	17 37 23.31	-41	37	03.5		413
1991	FF	1992	08	21.54833	17 37 23.33	-41	37	02.2		413
1991	GD	1992	08	20.66502	00 43 06.70	+36	30	47.9		413
1991	GD	1992	08	20.66712	00 43 06.74	+36	30	49.9		413
1991	GD	1992	08	21.69748	00 43 07.87	+36	40	48.0		413
1991	GD	1992	08	21.70032	00 43 07.86	+36	40	49.2		413
1991	GZ9	1992	08	22.55855	19 19 13.16	-19	14	38.1		413
1991	GZ9	1992	08	22.56126	19 19 13.10	-19	14	38.0		413
1991	JT	1992	08	20.63182	23 51 39.60	+13	39	59.2		413
1991	JT	1992	08	20.63380	23 51 39.54	+13	39	59.1		413
1991	JT	1992	08	21.64837	23 51 02.04	+13	38	07.5		413
1991	JT	1992	08	21.65058	23 51 02.00	+13	38	07.1		413
1991	JR2	1992	08	20.60782	22 52 22.13	-02	54	43.3		413
1991	JR2	1992	08	20.60984	22 52 22.04	-02	54	44.3		413
1991	JR2	1992	08	21.62495	22 51 38.48	-03	03	04.5		413
1991	JR2	1992	08	21.62741	22 51 38.37	-03	03	06.0		413
1991	PN10	1991	09	06.57581	23 13 13.63	-03	29	12.1	16.5 V	413
1991	PN10	1991	09	06.61748	23 13 11.45	-03	30	11.4		413
1992	EB1	1992	08	21.40186	15 30 48.72	-41	57	31.4		413
1992	EB1	1992	08	21.40439	15 30 49.15	-41	57	30.7		413
1992	EB1	1992	08	22.44019	15 33 56.41	-41	52	04.1		413
1992	FE	1992	08	23.37031	13 43 34.69	-14	15	22.6		413
1992	FE	1992	08	23.37252	13 43 34.99	-14	15	23.9		413
1992	FL1	1992	08	22.45502	16 04 59.26	-25	16	19.8		413
1992	FL1	1992	08	22.45861	16 04 59.72	-25	16	20.1		413
1992	FM1	1992	08	21.38968	14 16 29.08	-40	29	15.4		413
1992	FM1	1992	08	21.39218	14 16 29.40	-40	29	15.6		413
1992	FM1	1992	08	22.42584	14 18 47.09	-40	31	19.3		413
1992	HE	1992	08	09.80501	04 25 03.23	-13	49	42.3		413
1992	HE	1992	08	09.80669	04 25 03.22	-13	49	39.8		413
1992	HE	1992	08	20.75860	04 21 59.04	-09	04	36.0		413
1992	HE	1992	08	20.76060	04 21 58.97	-09	04	32.9		413
1992	HE	1992	08	21.79189	04 21 28.24	-08	37	23.3		413
1992	HE	1992	08	21.79372	04 21 28.17	-08	37	20.6		413
1992	HE	1992	08	22.69810	04 20 59.42	-08	13	26.7		413
1992	HE	1992	08	22.69994	04 20 59.35	-08	13	23.8		413
1992	JB	1992	08	21.51850	16 51 26.07	-00	07	51.0	I	413
1992	JB	1992	08	21.52115	16 51 26.37	-00	07	53.2		413
1992	JE	1992	08	21.51207	16 35 41.94	-07	52	47.1		413
1992	JE	1992	08	21.51478	16 35 42.55	-07	52	49.5		413
1992	JE	1992	08	22.49834	16 39 28.38	-08	07	37.0		413
1992	JE	1992	08	22.50002	16 39 28.76	-08	07	38.6		413
1992	JG	1992	08	21.40809	15 42 18.10	-26	52	20.5		413
1992	JG	1992	08	21.41065	15 42 18.58	-26	52	22.5		413
1992	JG	1992	08	22.44397	15 45 39.36	-27	05	46.1		413
1992	JG	1992	08	22.44664	15 45 39.86	-27	05	47.7		413
1992	KD	1992	08	21.52525	17 04 50.76	+15	49	41.1		413
1992	LC	1992	08	21.44502	15 45 42.42	-30	57	43.1		413
1992	LC	1992	08	21.44767	15 45 42.70	-30	57	44.0		413
1992	LC	1992	08	22.44928	15 47 32.83	-31	03	33.3		413
1992	LC	1992	08	22.45196	15 47 33.10	-31	03	34.2		413
1992	LC	1992	08	23.39334	15 49 16.64	-31	08	56.5		413
1992	LC	1992	08	23.39973	15 49 17.34	-31	08	58.4		413
1992	LC	1992	08	23.40242	15 49 17.58	-31	08	59.2		413
1992	LE	1992	08	21.53918	17 18 35.10	-08	11	18.2		413
1992	LE	1992	08	21.54141	17 18 35.22	-08	11	19.9		413
1992	LG	1992	08	21.47618	15 50 24.31	-18	46	53.1		413
1992	LG	1992	08	21.47824	15 50 24.48	-18	46	53.8		413

1992	LG	1992	08	22.47351	15 51 44.10	-18 52 33.7				413
1992	LG	1992	08	22.47618	15 51 44.32	-18 52 34.5				413
1992	LK	1992	08	21.49758	16 03 53.37	-23 57 37.2				413
1992	LK	1992	08	21.49981	16 03 53.58	-23 57 38.2				413
1992	LM	1992	08	21.47194	15 43 50.30	-20 27 34.0				413
1992	LM	1992	08	21.47411	15 43 50.42	-20 27 34.3				413
1992	LM	1992	08	22.46304	15 44 45.07	-20 31 52.2				413
1992	LM	1992	08	22.46565	15 44 45.21	-20 31 52.8				413
1992	LN	1992	08	22.47882	15 55 24.25	-20 07 01.3				413
1992	LN	1992	08	22.48142	15 55 24.44	-20 07 02.3				413
1992	LQ	1992	08	22.46836	15 47 27.10	-20 59 48.6				413
1992	LQ	1992	08	22.47087	15 47 27.23	-20 59 49.5				413
1992	LR	1992	08	05.49293	19 44 38.38	+05 47 17.5				413
1992	LR	1992	08	05.49483	19 44 39.17	+05 47 18.9				413
1992	LR	1992	08	20.65725	21 21 53.01	+06 19 28.6				413
1992	LR	1992	08	20.65925	21 21 53.53	+06 19 27.9				413
1992	LR	1992	08	22.56644	21 30 47.65	+06 08 04.2				413
1992	LR	1992	08	22.56816	21 30 48.07	+06 08 03.5				413
1992	LU	1992	08	21.49304	16 01 59.72	-04 36 43.0				413
1992	LU	1992	08	21.49516	16 01 59.84	-04 36 44.0				413
1992	ME	1992	08	21.50642	16 28 57.87	-10 47 17.1				413
1992	ME	1992	08	21.50846	16 28 58.06	-10 47 19.9				413
1992	ME	1992	08	22.37230	16 30 17.56	-11 07 17.8	18	V		413
1992	ME	1992	08	22.41744	16 30 21.52	-11 08 18.7				413
1992	ME	1992	08	25.49578	16 35 12.15	-12 17 51.4				413
1992	NA	1992	08	09.79670	23 36 20.84	-45 08 30.0				413
1992	NA	1992	08	09.79880	23 36 21.53	-45 08 25.2				413
1992	NA	1992	08	20.63772	00 49 10.17	-33 06 28.8				413
1992	NA	1992	08	20.63944	00 49 10.87	-33 06 17.8				413
1992	NA	1992	08	21.65444	00 56 47.56	-31 12 42.3				413
1992	NA	1992	08	21.65622	00 56 48.31	-31 12 30.0				413
1992	NA	1992	08	21.82341	00 57 58.70	-30 52 42.4				413
1992	NA	1992	08	21.82501	00 57 59.38	-30 52 30.9				413
1992	NA	1992	08	22.55289	01 03 39.36	-29 23 36.7				413
1992	NA	1992	08	22.55447	01 03 40.05	-29 23 25.1				413
1992	NA	1992	08	22.70459	01 04 44.33	-29 04 43.2				413
1992	NA	1992	08	22.70639	01 04 45.09	-29 04 29.3				413
1992	NA	1992	08	28.62552	01 50 31.74	-13 42 16.3				413
1992	NA	1992	08	28.62622	01 50 32.04	-13 42 09.6				413
1992	NA	1992	08	28.62691	01 50 32.42	-13 42 01.9	13.2	V		413
1992	NJ	1992	08	20.54941	20 55 33.10	-49 36 47.3				413
1992	NJ	1992	08	20.55183	20 55 32.94	-49 36 46.7				413
1992	NJ	1992	08	21.57584	20 54 31.43	-49 33 53.2				413
1992	NJ	1992	08	21.57821	20 54 31.29	-49 33 52.7				413
1992	NR	1992	07	11.79412	21 19 16.69	-08 52 48.9				413
1992	OB	1992	08	20.57626	21 19 32.18	-45 06 29.2				413
1992	OB	1992	08	20.57889	21 19 32.02	-45 06 29.1				413
1992	OB	1992	08	21.59611	21 18 36.30	-45 05 20.8				413
1992	OB	1992	08	21.59822	21 18 36.17	-45 05 20.7				413
1992	OC	1992	08	20.56619	21 17 19.68	-40 20 54.2				413
1992	OC	1992	08	20.56823	21 17 19.53	-40 20 52.6				413
1992	OC	1992	08	21.59126	21 16 14.46	-40 07 11.0				413
1992	OC	1992	08	21.59336	21 16 14.32	-40 07 09.3				413
1992	OE	1992	07	30.71980	23 31 40.36	+00 07 14.9			F	413
1992	OE	1992	08	02.77170	23 29 41.93	+00 48 12.7				413
1992	OE	1992	08	09.77456	23 23 57.45	+02 20 03.2				413
1992	OE	1992	08	09.77654	23 23 57.33	+02 20 04.6				413
1992	OE	1992	08	20.62513	23 12 02.00	+04 33 21.4				413
1992	OE	1992	08	20.62709	23 12 01.85	+04 33 22.8				413

1992	OE		1992	08	21.64429	23	10	45.10	+04	45	06.7	413
1992	OE		1992	08	21.64618	23	10	44.96	+04	45	08.0	413
1992	OF		1992	08	09.78896	00	47	07.87	-02	53	49.8	413
1992	OF		1992	08	09.79061	00	47	07.96	-02	53	49.5	413
1992	OF		1992	08	20.64932	00	54	43.86	-02	38	41.3	413
1992	OF		1992	08	20.65140	00	54	43.91	-02	38	41.2	413
1992	OF		1992	08	21.66089	00	55	13.09	-02	38	21.1	413
1992	OF		1992	08	21.66269	00	55	13.13	-02	38	21.1	413
1992	OF		1992	08	21.66712	00	55	13.23	-02	38	21.0	413
1992	OF		1992	08	21.69269	00	55	13.84	-02	38	20.5	413
1992	OF		1992	08	22.59704	00	55	38.30	-02	38	10.7	413
1992	OF		1992	08	22.59933	00	55	38.34	-02	38	10.8	413
1992	OG		1992	08	21.75431	01	03	25.92	-13	09	19.2	413
1992	OG		1992	08	21.75694	01	03	26.00	-13	09	23.4	413
1992	OG		1992	08	25.60880	01	05	16.05	-14	57	04.3	413
1992	OJ		1992	08	20.53463	19	07	27.56	-28	50	02.6	413
1992	OJ		1992	08	20.53645	19	07	27.54	-28	50	01.4	413
1992	OK		1992	08	20.58485	21	10	47.74	+00	22	18.1	413
1992	OK		1992	08	20.58707	21	10	47.64	+00	22	17.9	413
1992	OK		1992	08	21.60175	21	10	07.88	+00	20	27.4	413
1992	OK		1992	08	21.60389	21	10	07.79	+00	20	27.2	413
1992	OM		1992	08	09.75852	22	28	43.92	-04	17	02.0	413
1992	OM		1992	08	09.76002	22	28	43.86	-04	16	59.6	413
1992	OM		1992	08	20.60233	22	22	42.32	-00	16	26.0	413
1992	OM		1992	08	20.60434	22	22	42.23	-00	16	23.6	413
1992	OM		1992	08	21.61931	22	22	04.19	+00	02	39.3	413
1992	OM		1992	08	21.62152	22	22	04.09	+00	02	41.8	413
1992	ON		1992	08	09.78376	23	16	22.85	-23	51	19.2	413
1992	ON		1992	08	09.78613	23	16	22.57	-23	51	16.9	413
1992	ON		1992	08	20.61359	22	52	19.83	-20	47	44.6	413
1992	ON		1992	08	20.61557	22	52	19.54	-20	47	42.2	413
1992	ON		1992	08	21.63604	22	49	56.67	-20	28	40.4	413
1992	ON		1992	08	21.63791	22	49	56.41	-20	28	37.5	413
1992	ON		1992	08	22.58632	22	47	43.74	-20	10	42.9	413
1992	ON		1992	08	22.58846	22	47	43.42	-20	10	40.5	413
1992	OO		1992	08	09.76377	22	35	26.94	-29	45	57.3	413
1992	OO		1992	08	09.76530	22	35	26.89	-29	45	59.6	413
1992	OO		1992	08	20.61917	22	29	10.97	-34	15	47.2	413
1992	OO		1992	08	20.62122	22	29	10.88	-34	15	50.0	413
1992	OO		1992	08	21.64000	22	28	29.30	-34	38	58.2	413
1992	OO		1992	08	21.64179	22	28	29.22	-34	39	00.6	413
1992	OO		1992	08	22.58068	22	27	50.72	-34	59	54.2	413
1992	OO		1992	08	22.58274	22	27	50.63	-34	59	57.0	413
1992	OV		1992	07	26.62539	21	22	24.71	-43	08	25.2	V 413
1992	OV		1992	07	26.68789	21	22	20.87	-43	08	38.4	V 413
1992	OV	*	1992	07	28.55549	21	20	26.98	-43	15	05.2	18 V F 413
1992	OV		1992	07	28.61799	21	20	23.16	-43	15	17.6	F 413
1992	OV		1992	08	01.48086	21	16	20.00	-43	25	50.7	413
1992	OV		1992	08	01.53641	21	16	16.25	-43	25	58.0	413
1992	OW		1992	07	26.62539	21	35	10.70	-41	38	13.8	V 413
1992	OW		1992	07	26.68789	21	35	07.62	-41	38	43.8	F 413
1992	OW	*	1992	07	28.55549	21	33	36.13	-41	54	16.0	17.5 V 413
1992	OW		1992	07	28.61799	21	33	32.88	-41	54	45.3	413
1992	OW		1992	08	01.48086	21	30	06.47	-42	23	41.0	413
1992	OW		1992	08	01.53641	21	30	03.25	-42	24	04.4	413
1992	OX	*	1992	07	28.55549	21	37	21.34	-41	35	54.3	17 V 413
1992	OX		1992	07	28.61799	21	37	17.78	-41	36	16.1	413
1992	OX		1992	08	01.48086	21	33	37.70	-41	55	39.3	413
1992	OX		1992	08	01.53641	21	33	34.43	-41	55	54.0	413

1992	PA		1992	07	28.55549	21	31	04.11	-43	10	19.9		V	413
1992	PA		1992	07	28.61799	21	31	00.88	-43	10	51.2		F	413
1992	PA	*	1992	08	01.48086	21	27	32.59	-43	45	38.0	18 V		413
1992	PA		1992	08	01.53641	21	27	29.55	-43	46	05.0			413
1992	PB		1992	07	28.55549	21	37	36.41	-44	14	43.7		V	413
1992	PB		1992	07	28.61799	21	37	32.38	-44	15	08.3		V	413
1992	PB	*	1992	08	01.48086	21	33	42.79	-44	32	55.8	18.5 V	F	413
1992	PB		1992	08	01.53641	21	33	39.58	-44	33	09.5		F	413
1992	QA	*	1992	08	19.45391	19	08	19.41	-65	42	17.9	17.5 V		413
1992	QA		1992	08	19.50252	19	08	17.94	-65	41	48.0			413
1992	QA		1992	08	21.41450	19	07	46.86	-65	20	59.0			413
1992	QA		1992	08	21.46311	19	07	46.09	-65	20	30.7			413
1992	QA		1992	08	22.42771	19	07	37.26	-65	09	36.3		F	413
1992	QA		1992	08	22.48674	19	07	36.55	-65	08	59.4		F	413
1992	QA		1992	08	22.62182	19	07	34.92	-65	07	22.6			413
1992	QA		1992	08	22.62620	19	07	34.86	-65	07	19.2		I	413
1992	QB	*	1992	08	19.45391	19	16	41.41	-63	33	46.3	17 V		413
1992	QB		1992	08	19.50252	19	16	41.35	-63	33	24.1			413
1992	QB		1992	08	22.64086	19	17	19.09	-63	06	13.6			413
1992	QB		1992	08	22.64414	19	17	19.14	-63	06	11.6			413
1992	QB		1992	08	22.64788	19	17	19.20	-63	06	09.5			413
1992	QB		1992	08	23.75194	19	17	42.03	-62	55	47.9			413
1992	QB		1992	08	25.54317	19	18	29.78	-62	38	25.8			413
1992	QC	*	1992	08	21.68391	00	42	51.72	-46	52	23.5	16 V		413
1992	QC		1992	08	21.74641	00	42	47.39	-46	52	08.8			413
1992	QC		1992	08	25.59115	00	38	22.66	-46	35	00.8			413
1992	QC		1992	08	28.58715	00	34	16.56	-46	15	49.9			413
1992	QN		1992	09	05.57947	22	18	57.75	-20	23	57.7			413
1992	QN		1992	09	05.58167	22	18	57.38	-20	23	56.5			413
1992	QN		1992	09	05.74212	22	18	31.68	-20	22	29.8			413
1992	QN		1992	09	05.74476	22	18	31.27	-20	22	28.4			413
1992	RB	*	1992	09	02.58329	00	37	08.67	-30	59	36.3	17.5 V		413
1992	RB		1992	09	02.64579	00	37	06.69	-31	01	04.1			413
1992	RB		1992	09	04.67201	00	36	07.18	-31	49	28.4			413
1992	RB		1992	09	04.73451	00	36	05.24	-31	50	53.2			413
1992	RB		1992	09	05.70970	00	35	33.63	-32	13	47.3			413
1992	RB		1992	09	05.71309	00	35	33.51	-32	13	51.9			413
1992	RC	*	1992	09	02.58329	00	37	36.89	-30	53	25.4	16 V		413
1992	RC		1992	09	02.64579	00	37	34.48	-30	54	42.8			413
1992	RC		1992	09	04.67201	00	36	18.17	-31	36	56.8			413
1992	RC		1992	09	04.73451	00	36	15.66	-31	38	12.0			413
1992	RC		1992	09	05.70105	00	35	36.50	-31	57	53.9			413
1992	RC		1992	09	05.70377	00	35	36.37	-31	57	57.2			413
1992	RD	*	1992	09	02.58329	00	50	00.34	-29	54	48.4	18 V	V	413
1992	RD		1992	09	02.64579	00	49	58.22	-29	56	10.5		F	413
1992	RD		1992	09	04.67201	00	48	56.10	-30	37	59.9			413
1992	RD		1992	09	04.73451	00	48	54.06	-30	39	12.1			413
1992	RD		1992	09	05.71615	00	48	21.12	-30	59	05.7			413
1992	RD		1992	09	05.71910	00	48	21.00	-30	59	09.2			413
(686)			1992	08	22.37230	16	27	05.60	-11	06	09.9			413
(686)			1992	08	22.41744	16	27	08.16	-11	06	11.0			413
(1459)			1992	08	20.51485	17	41	20.44	-42	38	28.8		I	413
(1459)			1992	08	20.51682	17	41	20.49	-42	38	27.8		I	413
(1459)			1992	08	21.55154	17	41	28.57	-42	34	43.5			413
(1459)			1992	08	21.55363	17	41	28.58	-42	34	43.0			413
(1591)			1992	07	28.55549	21	45	58.90	-45	05	41.3			413
(1591)			1992	07	28.61799	21	45	55.40	-45	06	43.9			413
(1796)			1992	08	20.59626	21	54	30.56	+07	42	51.5			413
(1796)			1992	08	20.59823	21	54	30.47	+07	42	50.6			413

(1796)		1992 08 21.61331	21 53 51.42	+07 35 24.4			413
(1796)		1992 08 21.61542	21 53 51.33	+07 35 23.5			413
(1954)		1992 08 20.52663	18 37 49.55	-14 39 12.0			413
(1954)		1992 08 20.52846	18 37 49.54	-14 39 11.5			413
(1954)		1992 08 21.56270	18 37 45.00	-14 34 24.2			413
(1954)		1992 08 21.56479	18 37 44.99	-14 34 23.7			413
(2055)		1992 08 02.51661	21 25 52.08	-38 05 17.6			413
(2062)		1992 08 20.38729	12 40 10.36	-22 22 39.2			413
(2062)		1992 08 20.39042	12 40 10.67	-22 22 55.9			413
(2062)		1992 08 21.38387	12 41 47.85	-23 52 02.7			413
(2062)		1992 08 21.38605	12 41 48.07	-23 52 14.4			413
(2830)		1992 09 02.58329	00 47 55.57	-30 55 28.4			413
(2830)		1992 09 02.64579	00 47 51.93	-30 55 51.0			413
(2830)		1992 09 04.67201	00 45 53.80	-31 07 34.8			413
(2830)		1992 09 04.73451	00 45 50.16	-31 07 55.6			413
(4953)		1992 08 20.52032	18 17 04.76	-49 25 53.5			413
(4953)		1992 08 20.52260	18 17 04.74	-49 25 52.5			413
(4953)		1992 08 21.55685	18 17 01.48	-49 17 35.5			413
(4953)		1992 08 21.55892	18 17 01.47	-49 17 34.7			413
(5244)		1992 08 21.43375	14 19 07.37	-12 25 24.3			413
(5244)		1992 08 21.43601	14 19 07.44	-12 25 24.8			413

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

1989 SN5		1992 06 27.55550	19 34 01.24	-16 10 46.1	19		474
1989 SN5		1992 06 27.59803	19 33 58.81	-16 10 48.6			474
1989 SN5		1992 06 28.54912	19 33 04.66	-16 11 43.1			474
1989 SN5		1992 06 28.59171	19 33 02.29	-16 11 44.7			474
1992 GA		1992 06 22.47147	12 53 15.88	-22 07 46.8			474
1992 GA		1992 06 22.50382	12 53 17.39	-22 07 44.4			474
1992 GH		1992 06 28.43604	12 28 57.59	-26 55 52.2			474
1992 GH		1992 06 28.45595	12 28 58.95	-26 55 55.6			474
1992 LC		1992 06 23.44473	13 44 47.21	-16 59 37.6			474
1992 LC		1992 06 23.47373	13 44 51.81	-17 00 36.7			474
1992 LR		1992 06 23.36036	16 01 15.53	-10 38 36.9			474
1992 LR		1992 06 23.37054	16 01 16.29	-10 38 25.4			474
1992 LR		1992 06 24.37656	16 02 45.49	-10 18 26.3			474
1992 LR		1992 06 24.38252	16 02 45.97	-10 18 19.3			474
1992 MN	*	1992 06 27.55550	19 34 12.70	-16 11 16.5	19		474
1992 MN		1992 06 27.59803	19 34 11.00	-16 11 18.6			474
1992 MN		1992 06 28.54912	19 33 29.04	-16 12 48.4			474
1992 MN		1992 06 28.59171	19 33 27.13	-16 12 54.2			474

500 Geocentric
R. S. Harrington, U.S. Naval Observatory, Washington, DC 20392, U.S.A.
Observers K. Johnston, C. Wade, G. Kaplan, P. K. Seidelmann
VLA

(1)		1981 05 19.49940	08 23 54.66	+27 58 40.8			500
(1)		1981 12 26.49940	14 29 52.33	-06 07 00.7			500
(1)		1982 05 09.49939	15 19 46.10	-09 13 04.5			500
(1)		1983 12 17.49938	22 11 29.54	-21 20 36.8			500
(2)		1981 12 29.49940	12 51 34.81	-08 35 33.5			500
(2)		1982 03 24.49939	13 23 27.67	+11 35 09.5			500
(2)		1985 07 22.49937	04 16 21.12	-02 14 16.2			500
(2)		1985 09 01.49937	05 22 24.64	-08 11 03.4			500

(4)	1984 01 08.49938	04 56 44.04	+19 24 17.6	500
(10)	1983 04 13.49939	13 35 05.14	-16 09 10.5	500
(10)	1985 08 19.49937	01 52 50.76	+16 28 37.2	500

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

(480)	1992 07 20.88405	21 39 30.36	+18 54 56.0	573
(480)	1992 07 20.89117	21 39 30.04	+18 54 59.5	573
(712)	1992 07 27.87560	21 29 35.40	+06 57 04.3	573
(712)	1992 07 27.88677	21 29 34.86	+06 57 04.4	573
(1264)	1992 07 27.90060	22 04 44.16	+27 30 29.8	573
(1264)	1992 07 27.90448	22 04 44.02	+27 30 30.0	573

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

(5270)	1992 07 22.88480	19 16 18.97	-02 13 00.5	589
(5270)	1992 07 22.89257	19 16 18.62	-02 13 02.6	589
(5270)	1992 07 22.89660	19 16 18.37	-02 13 03.6	589
(5270)	1992 07 23.90078	19 15 31.64	-02 17 32.5	589
(5270)	1992 07 23.90644	19 15 31.44	-02 17 34.7	589
(5270)	1992 07 23.91269	19 15 31.15	-02 17 36.8	589
(5270)	1992 07 25.84798	19 14 03.71	-02 26 49.5	589
(5270)	1992 07 25.85771	19 14 03.27	-02 26 52.2	589
(5270)	1992 07 25.86276	19 14 03.04	-02 26 53.8	589
(5270)	1992 07 25.87060	19 14 02.67	-02 26 55.6	589
(5270)	1992 07 25.88187	19 14 02.16	-02 26 59.3	589

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

1991 DB	1991 04 18.32272	17 57 46.98	+59 14 28.3	657
1991 DB	1991 04 18.32557	17 57 48.52	+59 14 23.8	657
1991 DB	1991 04 19.37243	18 04 05.04	+58 37 21.8	657
1991 DB	1991 04 19.37836	18 04 06.97	+58 37 11.3	657
(348)	1992 05 22.30111	15 05 21.09	-07 56 53.2	657
(380)	1992 05 24.29722	16 35 31.34	-17 15 33.2	657
(380)	1992 05 24.35052	16 35 28.36	-17 15 33.1	657
(380)	1992 06 05.35052	16 24 02.27	-17 15 36.0	657
(521)	1992 05 22.25875	15 14 25.65	-08 34 39.4	657
(521)	1992 05 22.28514	15 14 24.28	-08 34 36.6	657
(521)	1992 06 03.27611	15 05 05.46	-08 27 04.5	657
(521)	1992 06 03.32125	15 05 03.47	-08 27 03.8	657
(584)	1992 06 27.36840	21 15 05.85	-10 29 12.8	657
(584)	1992 06 27.41979	21 15 05.12	-10 28 48.0	657
(2714)	1992 05 22.32819	16 16 24.81	-08 22 21.3	657
(2714)	1992 05 22.34417	16 16 23.92	-08 22 20.8	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

1982 UB7	1992 07 27.42013	21 23 26.67	+06 39 01.8			658
1982 UB7	1992 07 27.42221	21 23 26.58	+06 39 01.6			658
1982 UB7	1992 07 27.42464	21 23 26.49	+06 39 01.5			658
1982 UB7	1992 07 28.41528	21 22 46.36	+06 38 20.2			658
1982 UB7	1992 07 28.41841	21 22 46.24	+06 38 20.2			658
1982 UB7	1992 07 28.42118	21 22 46.12	+06 38 20.0			658
1986 RA	1992 07 26.26758	16 03 12.67	+12 55 23.1			658
1986 RA	1992 07 26.27113	16 03 12.80	+12 55 20.2			658
1986 RA	1992 07 26.27460	16 03 12.77	+12 55 18.9			658
1986 RA	1992 07 27.23975	16 03 28.49	+12 43 39.1			658
1986 RA	1992 07 27.24373	16 03 28.56	+12 43 36.2			658
1986 RA	1992 07 27.24650	16 03 28.60	+12 43 34.1			658
1989 BA1	1992 07 27.40902	21 25 22.32	+39 51 28.5			658
1989 BA1	1992 07 27.41178	21 25 22.19	+39 51 29.6			658
1989 BA1	1992 07 27.41456	21 25 22.02	+39 51 31.4			658
1989 BA1	1992 07 28.40591	21 24 29.29	+39 59 44.1			658
1989 BA1	1992 07 28.40903	21 24 29.15	+39 59 45.8			658
1989 BA1	1992 07 28.41182	21 24 29.01	+39 59 46.3			658
1990 DA	1992 07 27.46700	23 29 32.04	-09 09 36.8			658
1990 DA	1992 07 27.46941	23 29 32.05	-09 09 39.0			658
1990 DA	1992 07 27.47219	23 29 32.08	-09 09 41.0			658
1992 AB	1992 07 28.22432	12 57 57.42	+26 26 14.1			658
1992 AB	1992 07 28.22744	12 57 57.81	+26 26 08.4			658
1992 AB	1992 07 28.23126	12 57 58.35	+26 26 01.0			658
1992 AC	1992 07 28.23750	14 35 24.58	+00 57 55.3			658
1992 AC	1992 07 28.24028	14 35 24.83	+00 57 52.1			658
1992 JE	1992 07 26.27947	15 13 46.62	-01 54 05.3			658
1992 JE	1992 07 26.28258	15 13 47.01	-01 54 07.4			658
1992 JE	1992 07 26.28537	15 13 47.45	-01 54 09.7			658
1992 JE	1992 07 28.26147	15 18 39.35	-02 16 32.2			658
1992 JE	1992 07 28.26459	15 18 39.85	-02 16 34.3			658
1992 JE	1992 07 28.26737	15 18 40.25	-02 16 36.3			658
1992 KD	1992 07 26.31418	16 17 31.74	+17 08 42.8			658
1992 KD	1992 07 26.31695	16 17 32.00	+17 08 42.8			658
1992 KD	1992 07 26.32044	16 17 32.38	+17 08 43.3			658
1992 KD	1992 07 27.26352	16 19 09.78	+17 09 47.4			658
1992 KD	1992 07 27.26630	16 19 10.06	+17 09 47.5			658
1992 KD	1992 07 27.26903	16 19 10.32	+17 09 47.7			658
1992 KD	1992 07 28.29307	16 20 56.23	+17 10 28.6			658
1992 KD	1992 07 28.29654	16 20 56.58	+17 10 28.6			658
1992 KD	1992 07 28.29966	16 20 56.92	+17 10 28.5			658
1992 LR	1992 07 26.34161	18 24 00.27	+02 34 17.2			658
1992 LR	1992 07 26.34335	18 24 01.03	+02 34 19.8			658
1992 LR	1992 07 26.34529	18 24 01.88	+02 34 22.7			658
(1865)	1992 07 26.38952	19 00 40.01	+51 18 50.7			658
(1865)	1992 07 26.39509	19 00 39.61	+51 18 27.8			658
(1865)	1992 07 27.37116	18 59 41.59	+50 10 25.9			658
(1865)	1992 07 27.37463	18 59 41.35	+50 10 11.5			658
(1865)	1992 07 27.37706	18 59 41.19	+50 10 01.2			658
(1917)	1992 07 27.28053	16 55 26.83	+18 47 04.2			658
(1917)	1992 07 27.28331	16 55 26.74	+18 47 02.5			658
(1917)	1992 07 27.28608	16 55 26.68	+18 47 00.9			658
(3270)	1992 07 27.28956	16 56 36.49	+09 31 23.9			658
(3270)	1992 07 27.29234	16 56 36.45	+09 31 21.9			658
(3270)	1992 07 27.29512	16 56 36.40	+09 31 19.7			658
(3551)	1992 07 27.30622	17 26 34.33	-00 03 10.2			658
(3551)	1992 07 27.31144	17 26 34.03	-00 03 13.0			658
(3551)	1992 07 27.31456	17 26 33.52	-00 03 13.8			658
(5143)	1992 07 26.44997	22 36 02.28	-05 18 25.8			658

(5143)	1992 07 26.45308	22 36 01.90	-05 18 27.0		658
(5143)	1992 07 26.45620	22 36 01.53	-05 18 28.4		658
(5143)	1992 07 27.38191	22 34 11.69	-05 25 10.7		658
(5143)	1992 07 27.38470	22 34 11.35	-05 25 11.9		658
(5143)	1992 07 27.38748	22 34 11.00	-05 25 13.2		658
(5280)	1992 07 27.39930	20 52 21.26	+03 26 24.7		658
(5280)	1992 07 27.40172	20 52 21.19	+03 26 24.0		658
(5280)	1992 07 27.40445	20 52 21.05	+03 26 23.2		658

667 Wanapum Dam
J. Pryal, 9515 N.E. 120th Street, E4, Kirkland, WA 98034, U.S.A.
0.14-m f/3.5 Schmidt-Newtonian reflector
From Minor Planet Bulletin

(20)	1990 08 27.28262	21 46 42.28	-12 22 01.4		667
(28)	1990 08 26.31874	21 44 26.95	-14 05 06.7		667
(28)	1990 08 27.30067	21 43 41.85	-14 11 15.5		667
(29)	1990 08 26.31388	21 59 46.32	-17 17 43.9		667
(29)	1990 08 27.29165	21 58 49.51	-17 20 02.0		667
(44)	1990 08 26.32430	22 10 58.80	-13 20 20.2		667
(44)	1990 08 27.30831	22 10 05.16	-13 26 33.6		667
(64)	1990 08 26.32916	22 08 39.47	-10 40 31.9		667
(704)	1990 08 26.33610	22 34 22.09	+16 47 14.0		667

675 Palomar
E. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A. (2)
C. Shoemaker, P.O. Box 984, Flagstaff, AZ 86002, U.S.A. (3)
C. J. van Houten, Sterrewacht Leiden, Postbus 9513, NL-2300 RA Leiden, The Netherlands (4)
E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A. (6)
9 = 3 + 6
Observers J. Alu (2, S), S. J. Bus (6, S), B. M. Cudnik (3, S), M. A. Dahm (3, S), T. Gehrels (4, L), E. Helin (2, S), H. E. Holt (3, S), C. T. Kowal (6, L), K. A. Lawler (3, S), K. Lawrence (2, S), L. Lee (2, S), G. J. Leonard (3, S), D. H. Levy (3, S), D. Moraru (2, S), C. M. Olmstead (3, S), P. Rose (2,S), C. S. Shoemaker (3, S), E. M. Shoemaker (3, S), C. E. Smith (3, S), J. Stiffler (3, S), N. G. Thomas (3, S)
Measurers S. J. Bus (9), B. M. Cudnik (9), M. A. Dahm (9), K. Lawrence (2), L. Lee (2), G. J. Leonard (9), D. Moraru (2), C. M. Olmstead (6), P. Rose(2), C. S. Shoemaker (3), B. A. Skiff (9), C. J. van Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4)
1.2-m (L) and 0.46-m (S) Schmidt telescopes

1953 EC2	*	1953 03 09.31250	10 18 43.78	-04 47 52.6	16.8	6	675
1953 EC2		1953 03 09.33576	10 18 42.92	-04 47 39.4		6	675
1953 ED2	*	1953 03 09.31250	10 26 26.57	-09 34 38.9	17.0	6	675
1953 ED2		1953 03 09.33576	10 26 25.54	-09 34 28.3		6	675
1953 EE2	*	1953 03 09.31250	10 31 09.26	-08 47 04.3	16.2	6	675
1953 EE2		1953 03 09.33576	10 31 08.30	-08 46 51.6		6	675
1953 EF2	*	1953 03 09.31250	10 32 28.45	-04 15 33.0	17.5	6	675
1953 EF2		1953 03 09.33576	10 32 27.53	-04 15 25.6		6	675
1953 EG2	*	1953 03 09.31250	10 32 48.12	-06 52 17.7	17.5	6	675
1953 EG2		1953 03 09.33576	10 32 46.99	-06 52 17.6		6	675
1953 EH2	*	1953 03 09.31250	10 36 05.53	-03 43 37.2	16.5	6	675
1953 EH2		1953 03 09.33576	10 36 04.47	-03 43 23.6		6	675
1953 EJ2	*	1953 03 09.31250	10 44 00.50	-04 38 29.2	16.5	6	675
1953 EJ2		1953 03 09.33576	10 44 01.14	-04 38 58.5		6	675
1953 GN		1991 09 13.23385	21 05 01.58	-13 54 22.6		9	675
1953 GN		1991 09 13.29080	21 05 00.20	-13 54 39.3		9	675

1954	RW	*	1954	09	03.38056	00	00	12.65	-09	07	20.9	16.8	6 675
1954	RW		1954	09	03.40486	00	00	11.03	-09	07	15.1		6 675
1954	TE1	*	1954	10	06.33021	01	09	39.64	+16	49	59.2	16.5	6 675
1954	TE1		1954	10	06.35139	01	09	38.19	+16	49	50.1		6 675
1954	TF1	*	1954	10	06.33021	01	10	35.50	+16	40	55.6	18.2	6 675
1954	TF1		1954	10	06.35139	01	10	34.11	+16	40	53.3		6 675
1954	TG1	*	1954	10	06.33021	01	15	40.81	+16	58	46.2	15.8	6 675
1954	TG1		1954	10	06.35139	01	15	39.73	+16	58	25.2		6 675
1954	TH1	*	1954	10	06.33021	01	24	39.12	+17	16	48.7	17.8	6 675
1954	TH1		1954	10	06.35139	01	24	37.84	+17	16	39.4		6 675
1954	TJ1	*	1954	10	06.33021	01	27	05.23	+19	44	19.0	17.8	6 675
1954	TJ1		1954	10	06.35139	01	27	03.70	+19	44	16.3		6 675
1954	TK1	*	1954	10	06.33021	01	27	36.47	+19	31	40.1	17.5	6 675
1954	TK1		1954	10	06.35139	01	27	34.97	+19	31	38.2		6 675
1954	TL1	*	1954	10	06.33021	01	32	53.96	+20	37	49.2	18.2	6 675
1954	TL1		1954	10	06.35139	01	32	52.56	+20	37	43.9		6 675
1962	SR		1949	11	19.13194	00	14	24.68	+15	46	59.1		6 675
1962	SR		1949	11	19.15799	00	14	24.85	+15	46	51.2		6 675
1962	SR		1991	09	13.20573	20	36	49.80	-08	48	58.5	16.8	9 675
1962	SR		1991	09	13.26619	20	36	48.88	-08	49	00.8		9 675
1969	LB		1992	08	02.32882	22	12	38.27	-11	22	48.9		9 675
1969	LB		1992	08	02.37118	22	12	36.44	-11	22	54.9		9 675
1969	LB		1992	08	06.36493	22	09	50.72	-11	32	23.6		9 675
1969	LB		1992	08	06.40416	22	09	48.99	-11	32	29.7		9 675
1974	OE		1978	10	27.30539	00	53	48.46	+07	23	23.4		6 675
1974	OE		1978	10	28.29411	00	52	56.52	+07	21	32.4		6 675
1974	OE		1978	10	29.30729	00	52	04.52	+07	19	43.9		6 675
1974	OE		1978	11	28.16875	00	39	52.22	+07	22	51.0	19.0	6 675
1974	OE		1978	11	29.16308	00	39	56.00	+07	25	06.7		6 675
1975	SA1		1954	09	03.38056	00	09	04.71	-08	32	07.9		6 675
1975	SA1		1954	09	03.40486	00	09	03.56	-08	32	10.1		6 675
1975	TM2		1981	05	08.43507	15	50	05.32	-16	40	38.7	17.2 V	6 675
1975	TM2		1981	05	09.38021	15	49	09.48	-16	36	52.3		6 675
1976	SA6		1992	06	04.26024	15	07	13.27	-20	02	15.3	17.0	9 675
1976	SA6		1992	06	04.29271	15	07	11.71	-20	02	11.5		9 675
1977	TC1		1951	07	30.29028	19	49	50.06	-13	39	47.1		6 675
1977	TC1		1951	07	30.31528	19	49	48.63	-13	39	49.5		6 675
1977	TS3		1981	05	08.43507	15	51	26.36	-15	06	09.3	17.0 V	6 675
1977	TS3		1981	05	09.38021	15	50	43.12	-15	03	55.5		6 675
1977	XM	*	1977	12	07.26979	04	29	13.92	+23	57	11.6	16.2 V	6 675
1977	XM		1977	12	08.22292	04	28	24.26	+23	49	41.2		6 675
1977	XN	*	1977	12	07.26979	04	29	22.55	+20	54	26.5	17.8 V	6 675
1977	XN		1977	12	08.22292	04	28	28.34	+20	53	40.8		6 675
1977	XO	*	1977	12	07.26979	04	29	25.87	+23	54	28.6	17.8 V	6 675
1977	XO		1977	12	08.22292	04	28	21.11	+23	51	01.0		6 675
1977	XP	*	1977	12	07.26979	04	29	41.46	+21	03	43.7	17.8 V	6 675
1977	XP		1977	12	08.22292	04	28	55.57	+20	58	11.4		6 675
1977	XQ	*	1977	12	07.26979	04	29	47.34	+21	54	46.5	16.5 V	6 675
1977	XQ		1977	12	08.22292	04	28	49.01	+21	47	33.1		6 675
1977	XR	*	1977	12	07.26979	04	30	41.51	+22	34	07.2	18.0 V	6 675
1977	XR		1977	12	08.22292	04	29	49.75	+22	28	50.6		6 675
1977	XS	*	1977	12	07.26979	04	32	03.25	+21	33	31.7	17.2 V	6 675
1977	XS		1977	12	08.22292	04	31	08.54	+21	32	44.8		6 675
1977	XT	*	1977	12	07.26979	04	32	37.96	+20	02	39.4	16.5 V	6 675
1977	XT		1977	12	08.22292	04	31	46.61	+19	59	50.1		6 675
1977	XU	*	1977	12	07.26979	04	32	43.64	+21	58	45.9	18.2 V	6 675
1977	XU		1977	12	08.22292	04	31	34.11	+21	58	40.2		6 675
1977	XV	*	1977	12	07.26979	04	33	10.84	+21	28	51.1	18.0 V	6 675
1977	XV		1977	12	08.22292	04	31	58.77	+21	08	43.0		6 675

1977 XW	*	1977	12	07.26979	04	33	14.85	+18	57	59.6	17.5 V	6 675
1977 XW		1977	12	08.22292	04	32	16.57	+18	53	10.8		6 675
1977 XX	*	1977	12	07.26979	04	33	16.63	+23	55	01.2	17.2 V	6 675
1977 XX		1977	12	08.22292	04	32	06.55	+23	54	22.7		6 675
1977 XY	*	1977	12	07.26979	04	33	31.21	+20	32	55.0	17.8 V	6 675
1977 XY		1977	12	08.22292	04	32	23.18	+20	36	15.8		6 675
1977 XZ	*	1977	12	07.26979	04	34	05.50	+21	09	23.2	17.2 V	6 675
1977 XZ		1977	12	08.22292	04	33	03.84	+21	08	28.8		6 675
1977 XA1	*	1977	12	07.26979	04	34	06.96	+18	56	30.3	17.8 V	6 675
1977 XA1		1977	12	08.22292	04	33	17.48	+18	55	00.1		6 675
1977 XB1	*	1977	12	07.26979	04	34	33.48	+18	40	47.2	17.5 V	6 675
1977 XB1		1977	12	08.22292	04	33	41.80	+18	39	42.2		6 675
1977 XC1	*	1977	12	07.26979	04	34	58.24	+21	34	32.5	18.2 V	6 675
1977 XC1		1977	12	08.22292	04	34	03.23	+21	32	27.0		6 675
1977 XD1	*	1977	12	07.26979	04	35	08.34	+21	11	12.7	16.8 V	6 675
1977 XD1		1977	12	08.22292	04	34	08.32	+21	12	16.1		6 675
1977 XE1	*	1977	12	07.26979	04	35	19.92	+20	38	42.7	18.0 V	6 675
1977 XE1		1977	12	08.22292	04	34	23.11	+20	38	48.3		6 675
1977 XF1	*	1977	12	07.26979	04	35	32.87	+21	25	19.4	16.8 V	6 675
1977 XF1		1977	12	08.22292	04	34	34.06	+21	20	07.2		6 675
1977 XG1	*	1977	12	07.26979	04	35	33.60	+18	38	51.6	18.2 V	6 675
1977 XG1		1977	12	08.22292	04	34	47.49	+18	37	50.5		6 675
1977 XH1	*	1977	12	07.26979	04	36	12.66	+22	16	36.3	17.8 V	6 675
1977 XH1		1977	12	08.22292	04	34	46.36	+22	25	42.5		6 675
1977 XJ1	*	1977	12	07.26979	04	36	25.61	+21	17	17.9	17.2 V	6 675
1977 XJ1		1977	12	08.22292	04	35	27.51	+21	19	14.4		6 675
1977 XK1	*	1977	12	07.26979	04	36	27.67	+19	55	24.1	17.2 V	6 675
1977 XK1		1977	12	08.22292	04	35	18.31	+19	54	43.0		6 675
1977 XL1	*	1977	12	07.26979	04	36	49.69	+23	24	46.0	17.5 V	6 675
1977 XL1		1977	12	08.22292	04	35	46.55	+23	20	09.2		6 675
1977 XM1	*	1977	12	07.26979	04	37	10.09	+23	20	18.8	17.0 V	6 675
1977 XM1		1977	12	08.22292	04	36	08.72	+23	17	14.4		6 675
1977 XN1	*	1977	12	07.26979	04	37	18.66	+22	51	04.2	17.0 V	6 675
1977 XN1		1977	12	08.22292	04	36	24.70	+22	50	19.4		6 675
1977 XO1	*	1977	12	07.26979	04	37	23.45	+20	14	00.6	17.2 V	6 675
1977 XO1		1977	12	08.22292	04	36	23.90	+20	11	13.2		6 675
1977 XP1	*	1977	12	07.26979	04	37	38.49	+21	12	36.4	17.0 V	6 675
1977 XP1		1977	12	08.22292	04	36	49.62	+21	11	29.1		6 675
1977 XQ1	*	1977	12	07.26979	04	37	46.43	+21	15	28.6	17.5 V	6 675
1977 XQ1		1977	12	08.22292	04	36	42.99	+21	12	50.0		6 675
1977 XR1	*	1977	12	07.26979	04	38	04.22	+22	44	47.5	17.8 V	6 675
1977 XR1		1977	12	08.22292	04	37	11.27	+22	42	45.0		6 675
1977 XS1	*	1977	12	07.26979	04	38	10.15	+23	41	05.1	17.2 V	6 675
1977 XS1		1977	12	08.22292	04	37	10.46	+23	43	19.5		6 675
1977 XT1	*	1977	12	07.26979	04	38	22.28	+22	45	01.3	16.8 V	6 675
1977 XT1		1977	12	08.22292	04	37	27.27	+22	47	44.4		6 675
1977 XU1	*	1977	12	07.26979	04	38	33.09	+22	39	56.0	16.5 V	6 675
1977 XU1		1977	12	08.22292	04	37	24.72	+22	40	51.9		6 675
1977 XV1	*	1977	12	07.26979	04	39	03.38	+23	01	18.7	17.5 V	6 675
1977 XV1		1977	12	08.22292	04	37	56.12	+23	00	36.7		6 675
1977 XW1	*	1977	12	07.26979	04	39	27.94	+23	02	56.7	17.2 V	6 675
1977 XW1		1977	12	08.22292	04	38	37.14	+23	01	23.3		6 675
1977 XX1	*	1977	12	07.26979	04	39	39.30	+22	31	05.8	17.2 V	6 675
1977 XX1		1977	12	08.22292	04	38	44.30	+22	32	35.8		6 675
1977 XY1	*	1977	12	07.26979	04	39	57.90	+20	31	31.2	17.5 V	6 675
1977 XY1		1977	12	08.22292	04	39	09.31	+20	29	12.0		6 675
1977 XZ1	*	1977	12	07.26979	04	39	59.78	+20	29	09.3	17.5 V	6 675
1977 XZ1		1977	12	08.22292	04	39	03.86	+20	26	16.4		6 675
1977 XA2	*	1977	12	07.26979	04	40	22.51	+19	03	48.8	16.5 V	6 675

1977 XA2		1977	12	08.22292	04	39	20.19	+19	03	05.5	6	675
1977 XB2	*	1977	12	07.26979	04	40	32.26	+22	43	04.1	17.0 V	6 675
1977 XB2		1977	12	08.22292	04	39	34.59	+22	43	42.3	6	675
1977 XC2	*	1977	12	07.26979	04	40	45.02	+24	05	53.1	18.0 V	6 675
1977 XC2		1977	12	08.22292	04	39	55.82	+24	07	06.2	6	675
1977 XD2	*	1977	12	07.26979	04	40	55.54	+22	30	24.4	17.2 V	6 675
1977 XD2		1977	12	08.22292	04	39	58.23	+22	33	29.6	6	675
1977 XE2	*	1977	12	07.26979	04	41	33.19	+21	01	34.8	17.8 V	6 675
1977 XE2		1977	12	08.22292	04	40	38.52	+20	55	02.7	6	675
1977 XF2	*	1977	12	07.26979	04	41	35.12	+20	02	42.4	16.8 V	6 675
1977 XF2		1977	12	08.22292	04	40	42.63	+20	04	07.9	6	675
1977 XG2	*	1977	12	07.26979	04	41	39.11	+23	52	01.7	16.5 V	6 675
1977 XG2		1977	12	08.22292	04	40	39.29	+23	53	08.8	6	675
1977 XH2	*	1977	12	07.26979	04	42	20.64	+24	15	30.4	16.5 V	6 675
1977 XH2		1977	12	08.22292	04	41	26.57	+24	15	58.3	6	675
1977 XJ2	*	1977	12	07.26979	04	42	43.47	+22	35	13.0	17.0 V	6 675
1977 XJ2		1977	12	08.22292	04	41	46.77	+22	35	35.4	6	675
1977 XK2	*	1977	12	07.26979	04	43	18.76	+20	02	40.2	17.2 V	6 675
1977 XK2		1977	12	08.22292	04	41	52.54	+19	34	17.2	6	675
1977 XL2	*	1977	12	07.26979	04	43	39.63	+20	18	02.1	17.5 V	6 675
1977 XL2		1977	12	08.22292	04	42	36.48	+20	16	18.2	6	675
1977 XM2	*	1977	12	07.26979	04	43	49.77	+23	47	16.9	16.8 V	6 675
1977 XM2		1977	12	08.22292	04	42	47.28	+23	43	23.7	6	675
1977 XN2	*	1977	12	07.26979	04	44	26.43	+24	15	44.4	17.5 V	6 675
1977 XN2		1977	12	08.22292	04	43	31.80	+24	14	00.2	6	675
1977 XO2	*	1977	12	07.26979	04	44	30.19	+23	16	31.1	17.8 V	6 675
1977 XO2		1977	12	08.22292	04	43	29.31	+23	16	33.5	6	675
1977 XP2	*	1977	12	07.26979	04	44	47.32	+18	37	14.3	17.5 V	6 675
1977 XP2		1977	12	08.22292	04	43	55.94	+18	35	59.0	6	675
1977 XQ2	*	1977	12	07.26979	04	45	01.93	+21	37	08.2	17.8 V	6 675
1977 XQ2		1977	12	08.22292	04	44	04.22	+21	31	14.2	6	675
1977 XR2	*	1977	12	07.26979	04	45	02.62	+23	57	26.2	17.0 V	6 675
1977 XR2		1977	12	08.22292	04	44	01.34	+24	00	25.7	6	675
1977 XS2	*	1977	12	07.26979	04	45	05.30	+19	47	06.5	16.8 V	6 675
1977 XS2		1977	12	08.22292	04	44	03.72	+19	44	34.1	6	675
1977 XT2	*	1977	12	07.26979	04	45	05.79	+24	12	36.9	17.8 V	6 675
1977 XT2		1977	12	08.22292	04	44	10.75	+24	11	56.1	6	675
1977 XU2	*	1977	12	07.26979	04	45	15.10	+19	29	08.3	17.2 V	6 675
1977 XU2		1977	12	08.22292	04	44	10.01	+19	30	13.9	6	675
1977 XV2	*	1977	12	07.26979	04	45	38.46	+19	45	54.3	16.5 V	6 675
1977 XV2		1977	12	08.22292	04	44	32.14	+19	46	36.3	6	675
1977 XW2	*	1977	12	07.26979	04	45	40.66	+22	54	36.7	18.0 V	6 675
1977 XW2		1977	12	08.22292	04	44	45.44	+22	52	37.0	6	675
1977 XX2	*	1977	12	07.26979	04	45	57.08	+23	51	06.6	17.8 V	6 675
1977 XX2		1977	12	08.22292	04	44	55.14	+23	52	33.0	6	675
1977 XY2	*	1977	12	07.26979	04	46	23.30	+24	17	39.8	17.0 V	6 675
1977 XY2		1977	12	08.22292	04	45	20.73	+24	16	58.5	6	675
1977 XZ2	*	1977	12	07.26979	04	46	29.27	+24	13	28.4	17.2 V	6 675
1977 XZ2		1977	12	08.22292	04	45	36.01	+24	11	52.3	6	675
1977 XA3	*	1977	12	07.26979	04	46	51.76	+20	51	27.7	18.5 V	6 675
1977 XA3		1977	12	08.22292	04	45	52.75	+20	48	56.7	6	675
1977 XB3	*	1977	12	07.26979	04	46	57.03	+19	51	42.9	17.8 V	6 675
1977 XB3		1977	12	08.22292	04	46	01.92	+19	46	38.0	6	675
1977 XC3	*	1977	12	07.26979	04	47	15.92	+22	29	03.0	17.0 V	6 675
1977 XC3		1977	12	08.22292	04	46	18.54	+22	38	53.9	6	675
1977 XD3	*	1977	12	07.26979	04	47	19.73	+19	28	45.2	17.0 V	6 675
1977 XD3		1977	12	08.22292	04	46	10.20	+19	29	10.2	6	675
1977 XE3	*	1977	12	07.26979	04	47	23.54	+22	25	31.4	17.5 V	6 675
1977 XE3		1977	12	08.22292	04	46	14.10	+22	26	49.1	6	675

1977	XF3	*	1977	12	07.26979	04	48	16.94	+22	53	55.3	17.5 V	6 675
1977	XF3		1977	12	08.22292	04	47	11.21	+23	01	51.7		6 675
1977	XG3	*	1977	12	07.26979	04	48	21.97	+22	25	12.6	16.8 V	6 675
1977	XG3		1977	12	08.22292	04	47	27.17	+22	27	30.5		6 675
1977	XH3	*	1977	12	07.26979	04	49	33.29	+22	53	21.5	17.2 V	6 675
1977	XH3		1977	12	08.22292	04	48	27.26	+22	54	10.8		6 675
1977	XJ3	*	1977	12	07.26979	04	50	39.53	+19	56	53.7	17.2 V	6 675
1977	XJ3		1977	12	08.22292	04	49	48.75	+19	54	20.4		6 675
1977	XK3	*	1977	12	07.26979	04	51	08.40	+20	57	33.9	18.2 V	6 675
1977	XK3		1977	12	08.22292	04	50	08.72	+21	00	51.2		6 675
1977	XL3	*	1977	12	07.26979	04	52	29.55	+18	55	51.0	17.0 V	6 675
1977	XL3		1977	12	08.22292	04	51	39.92	+18	55	01.4		6 675
1977	XM3	*	1977	12	07.26979	04	52	46.46	+23	59	01.5	17.8 V	6 675
1977	XM3		1977	12	08.22292	04	51	45.76	+23	58	02.8		6 675
1977	XN3	*	1977	12	07.26979	04	54	09.12	+18	57	08.1	17.5 V	6 675
1977	XN3		1977	12	08.22292	04	53	20.08	+18	54	01.6		6 675
1977	XO3	*	1977	12	07.26979	04	54	14.24	+22	44	43.8	17.5 V	6 675
1977	XO3		1977	12	08.22292	04	53	11.20	+22	43	11.1		6 675
1977	XP3	*	1977	12	07.26979	04	54	22.43	+18	20	38.0	17.0 V	6 675
1977	XP3		1977	12	08.22292	04	53	18.33	+18	21	34.3		6 675
1977	XQ3	*	1977	12	07.26979	04	55	20.17	+22	04	51.4	17.2 V	6 675
1977	XQ3		1977	12	08.22292	04	54	30.46	+22	03	29.9		6 675
1977	XR3	*	1977	12	07.26979	04	55	28.10	+19	10	48.1	16.8 V	6 675
1977	XR3		1977	12	08.22292	04	54	39.28	+19	09	36.1		6 675
1978	RN		1991	09	13.20573	20	50	23.19	-12	21	01.1	17.5	9 675
1978	RN		1991	09	13.23385	20	50	22.57	-12	21	11.9		9 675
1978	RN		1991	09	13.26619	20	50	21.85	-12	21	21.8		9 675
1978	RN		1991	09	13.29080	20	50	21.38	-12	21	29.9		9 675
1978	RN		1991	09	14.22390	20	50	03.43	-12	26	28.5		9 675
1978	RN		1991	09	14.26053	20	50	02.67	-12	26	40.3		9 675
1978	RV5		1978	10	27.30539	01	01	16.19	+09	17	45.3		6 675
1978	RV5		1978	10	28.29411	01	00	26.67	+09	14	33.1		6 675
1978	RV5		1978	10	29.30729	00	59	37.23	+09	11	22.4		6 675
1978	RV5		1978	11	28.16875	00	49	52.69	+08	41	52.0	17.5	6 675
1978	RV5		1978	11	29.16308	00	50	04.62	+08	43	28.5		6 675
1978	SO4		1978	10	27.30539	01	07	47.12	+08	27	42.8		6 675
1978	SO4		1978	10	28.29411	01	07	10.36	+08	25	16.8		6 675
1978	SO4		1978	10	29.30729	01	06	33.16	+08	22	50.5		6 675
1978	SO4		1978	11	28.16875	00	54	46.29	+07	42	05.1	17.5	6 675
1978	SO4		1978	11	29.16308	00	54	38.22	+07	42	04.1		6 675
1978	SP4		1978	10	27.30539	01	03	00.13	+08	01	46.7		6 675
1978	SP4		1978	10	28.29411	01	02	12.12	+08	00	16.0		6 675
1978	SP4		1978	10	29.30729	01	01	23.59	+07	58	46.5		6 675
1978	SP4		1978	11	28.16875	00	46	20.99	+07	52	10.2	18.5	6 675
1978	SP4		1978	11	29.16308	00	46	11.82	+07	53	33.5		6 675
1978	SQ4		1978	10	27.30539	01	04	54.71	+12	32	38.3		6 675
1978	SQ4		1978	10	28.29411	01	04	07.80	+12	30	51.1		6 675
1978	SQ4		1978	10	29.30729	01	03	20.92	+12	29	01.9		6 675
1978	SR4		1978	11	28.16875	00	59	16.62	+06	09	12.7	18.8	6 675
1978	SR4		1978	11	29.16308	00	59	35.37	+06	10	26.6		6 675
1978	SU4		1978	10	27.30539	01	12	15.51	+09	16	11.8		6 675
1978	SU4		1978	10	28.29411	01	11	32.75	+09	07	31.1		6 675
1978	SU4		1978	10	29.30729	01	10	49.88	+08	58	45.6		6 675
1978	SF5		1978	11	28.16875	01	00	03.92	+07	40	55.4	19.0	6 675
1978	SF5		1978	11	29.16308	01	00	12.66	+07	45	40.3		6 675
1978	SH7		1978	11	28.16875	00	36	07.41	+11	12	33.3	18.5	6 675
1978	SH7		1978	11	29.16308	00	36	32.14	+11	14	37.4		6 675
1978	SN7		1978	10	27.30539	00	49	22.64	+10	38	10.9		6 675
1978	SN7		1978	10	28.29411	00	48	47.52	+10	30	28.7		6 675

1978	SN7		1978	10	29.30729	00	48	12.44	+10	22	38.0		6	675
1978	SN7		1978	11	28.16875	00	40	08.80	+07	25	08.8	18.5	6	675
1978	SN7		1978	11	29.16308	00	40	13.33	+07	21	35.8		6	675
1978	SO7		1978	11	28.16875	00	41	01.53	+08	32	13.3	17.8	6	675
1978	SO7		1978	11	29.16308	00	41	25.26	+08	33	46.7		6	675
1978	SV7		1978	10	27.30539	00	47	31.03	+12	21	56.0		6	675
1978	SV7		1978	10	28.29411	00	46	47.81	+12	18	29.0		6	675
1978	SW7		1978	10	27.30539	00	47	30.42	+12	10	06.3		6	675
1978	SW7		1978	10	28.29411	00	46	46.97	+12	06	09.6		6	675
1978	SW7		1978	11	28.16875	00	38	57.28	+10	56	09.6	17.2	6	675
1978	SW7		1978	11	29.16308	00	39	12.95	+10	56	19.1		6	675
1978	SX7		1978	10	27.30539	00	49	47.04	+11	57	51.1		6	675
1978	SX7		1978	10	28.29411	00	49	01.84	+11	55	03.8		6	675
1978	SX7		1978	10	29.30729	00	48	16.88	+11	52	13.9		6	675
1978	SX7		1978	11	28.16875	00	41	07.63	+11	17	57.7	18.0	6	675
1978	SX7		1978	11	29.16308	00	41	26.78	+11	19	12.5		6	675
1978	SA8		1978	10	27.30539	00	59	08.54	+07	01	39.0		6	675
1978	SA8		1978	10	28.29411	00	58	32.14	+06	55	31.2		6	675
1978	SA8		1978	10	29.30729	00	57	56.09	+06	49	22.4		6	675
1978	SA8		1978	11	28.16875	00	53	54.92	+05	22	40.9	18.2	6	675
1978	SA8		1978	11	29.16308	00	54	16.12	+05	23	15.2		6	675
1978	SB8		1978	10	27.30539	00	54	41.79	+07	57	50.8		6	675
1978	SB8		1978	10	28.29411	00	53	55.09	+07	57	30.8		6	675
1978	SB8		1978	10	29.30729	00	53	08.81	+07	57	16.0		6	675
1978	SB8		1978	11	28.16875	00	46	24.12	+08	50	34.9	18.2	6	675
1978	SB8		1978	11	29.16308	00	46	43.91	+08	54	38.4		6	675
1978	SD8		1978	10	27.30539	00	57	36.93	+06	57	53.6		6	675
1978	SD8		1978	10	28.29411	00	56	53.18	+06	57	33.6		6	675
1978	SD8		1978	10	29.30729	00	56	09.90	+06	57	19.6		6	675
1978	SD8		1978	11	28.16875	00	51	14.47	+07	58	22.7	18.5	6	675
1978	SD8		1978	11	29.16308	00	51	37.61	+08	02	46.8		6	675
1978	TD2		1978	10	27.30539	01	09	06.09	+08	22	09.6	17.5	6	675
1978	TD2		1978	10	28.29411	01	08	21.76	+08	18	09.4		6	675
1978	TD2		1978	10	29.30729	01	07	37.01	+08	14	08.3		6	675
1978	TP6		1978	10	27.30539	00	52	48.64	+11	11	33.8		6	675
1978	TP6		1978	10	28.29411	00	52	06.24	+11	07	32.2		6	675
1978	TP6		1978	10	29.30729	00	51	23.59	+11	03	26.2		6	675
1978	UJ4	*	1978	10	27.30539	00	47	48.06	+10	54	01.8	18.0	6	675
1978	UJ4		1978	10	28.29411	00	47	23.58	+10	45	34.3		6	675
1978	UJ4		1978	10	29.30729	00	47	00.27	+10	37	04.5		6	675
1978	UJ4		1978	11	28.16875	00	50	37.86	+08	07	48.6	19.5	6	675
1978	UJ4		1978	11	29.16308	00	51	14.97	+08	06	41.6		6	675
1978	UK4	*	1978	10	27.30539	00	47	59.02	+06	59	48.2	17.5	6	675
1978	UK4		1978	10	28.29411	00	47	17.00	+06	53	46.2		6	675
1978	UK4		1978	10	29.30729	00	46	34.96	+06	47	41.3		6	675
1978	UL4	*	1978	10	27.30539	00	49	30.58	+11	06	02.7	17.0	6	675
1978	UL4		1978	10	28.29411	00	49	02.84	+10	53	04.4		6	675
1978	UL4		1978	10	29.30729	00	48	35.71	+10	39	54.2		6	675
1978	UL4		1978	11	28.16875	00	47	48.42	+05	52	38.6	18.5	6	675
1978	UL4		1978	11	29.16308	00	48	13.34	+05	47	13.5		6	675
1978	UM4	*	1978	10	27.30539	00	49	50.74	+12	08	55.1	19.0	6	675
1978	UM4		1978	10	28.29411	00	49	04.05	+12	01	58.1		6	675
1978	UM4		1978	10	29.30729	00	48	17.12	+11	54	51.6		6	675
1978	UN4	*	1978	10	27.30539	00	49	56.83	+10	11	21.8	18.5	6	675
1978	UN4		1978	10	28.29411	00	49	22.66	+10	03	50.5		6	675
1978	UN4		1978	10	29.30729	00	48	48.30	+09	56	09.5		6	675
1978	UN4		1978	11	28.16875	00	39	42.49	+06	58	51.6	19.5	6	675
1978	UN4		1978	11	29.16308	00	39	41.69	+06	55	01.1		6	675
1978	UO4	*	1978	10	27.30539	00	50	05.76	+12	17	27.8	19.5	6	675

1978	UO4		1978	10	28.29411	00	49	23.14	+12	10	18.3		6	675
1978	UO4		1978	10	29.30729	00	48	40.55	+12	03	00.5		6	675
1978	UP4	*	1978	10	27.30539	00	50	17.82	+11	35	31.7	18.0	6	675
1978	UP4		1978	10	28.29411	00	49	36.24	+11	28	03.1		6	675
1978	UP4		1978	10	29.30729	00	48	54.59	+11	20	25.2		6	675
1978	UP4		1978	11	28.16875	00	38	59.46	+08	27	26.6	19.2	6	675
1978	UP4		1978	11	29.16308	00	39	03.73	+08	24	07.2		6	675
1978	UQ4	*	1978	10	27.30539	00	50	27.37	+09	11	58.9	19.0	6	675
1978	UQ4		1978	10	28.29411	00	49	49.87	+09	03	05.4		6	675
1978	UQ4		1978	10	29.30729	00	49	12.50	+08	54	07.3		6	675
1978	UR4	*	1978	10	27.30539	00	50	28.66	+10	07	18.1	18.5	6	675
1978	UR4		1978	10	28.29411	00	49	39.87	+10	02	00.7		6	675
1978	UR4		1978	10	29.30729	00	48	51.16	+09	56	38.9		6	675
1978	UR4		1978	11	28.16875	00	38	58.44	+08	23	24.1	19.8	6	675
1978	UR4		1978	11	29.16308	00	39	10.19	+08	23	08.9		6	675
1978	US4	*	1978	10	27.30539	00	50	29.35	+10	10	20.7	18.5	6	675
1978	US4		1978	10	28.29411	00	49	49.51	+10	03	49.7		6	675
1978	US4		1978	10	29.30729	00	49	10.41	+09	57	17.1		6	675
1978	UT4	*	1978	10	27.30539	00	50	35.76	+11	41	18.6	19.5	6	675
1978	UT4		1978	10	28.29411	00	49	51.03	+11	33	26.4		6	675
1978	UT4		1978	10	29.30729	00	49	06.71	+11	25	28.6		6	675
1978	UU4	*	1978	10	27.30539	00	51	34.41	+12	27	42.3	18.5	6	675
1978	UU4		1978	10	28.29411	00	50	55.30	+12	23	05.8		6	675
1978	UU4		1978	10	29.30729	00	50	16.69	+12	18	24.5		6	675
1978	UV4	*	1978	10	27.30539	00	51	36.89	+07	12	56.7	18.0	6	675
1978	UV4		1978	10	28.29411	00	51	02.89	+07	07	47.5		6	675
1978	UV4		1978	10	29.30729	00	50	29.56	+07	02	40.0		6	675
1978	UV4		1978	11	28.16875	00	48	34.32	+06	03	45.3	20.0	6	675
1978	UV4		1978	11	29.16308	00	48	59.79	+06	05	02.8		6	675
1978	UW4	*	1978	10	27.30539	00	51	39.82	+10	27	18.9	18.0	6	675
1978	UW4		1978	10	28.29411	00	50	54.61	+10	19	13.7		6	675
1978	UW4		1978	10	29.30729	00	50	09.48	+10	11	01.2		6	675
1978	UW4		1978	11	28.16875	00	39	57.70	+07	17	36.8	19.0	6	675
1978	UW4		1978	11	29.16308	00	40	03.63	+07	14	45.7		6	675
1978	UX4	*	1978	10	27.30539	00	52	39.28	+11	11	33.9	18.5	6	675
1978	UX4		1978	10	28.29411	00	51	48.58	+11	08	12.4		6	675
1978	UX4		1978	10	29.30729	00	50	57.93	+11	04	48.6		6	675
1978	UY4	*	1978	10	27.30539	00	52	42.12	+07	48	47.0	18.0	6	675
1978	UY4		1978	10	28.29411	00	52	09.94	+07	41	37.8		6	675
1978	UY4		1978	10	29.30729	00	51	38.39	+07	34	26.0		6	675
1978	UY4		1978	11	28.16875	00	51	42.60	+05	49	27.4	19.5	6	675
1978	UY4		1978	11	29.16308	00	52	15.10	+05	49	54.7		6	675
1978	UZ4	*	1978	10	27.30539	00	53	25.02	+12	26	05.0	18.5	6	675
1978	UZ4		1978	10	28.29411	00	52	21.07	+12	25	21.9		6	675
1978	UZ4		1978	10	29.30729	00	51	16.74	+12	24	37.3		6	675
1978	UA5	*	1978	10	27.30539	00	53	33.20	+08	35	24.0	18.5	6	675
1978	UA5		1978	10	28.29411	00	52	50.82	+08	32	18.1		6	675
1978	UA5		1978	10	29.30729	00	52	08.85	+08	29	13.4		6	675
1978	UA5		1978	11	28.16875	00	46	47.45	+08	10	49.3	19.8	6	675
1978	UA5		1978	11	29.16308	00	47	08.89	+08	13	01.3		6	675
1978	UB5	*	1978	10	27.30539	00	53	39.93	+07	08	58.6	17.5	6	675
1978	UB5		1978	10	28.29411	00	52	56.79	+07	01	07.5		6	675
1978	UB5		1978	10	29.30729	00	52	13.53	+06	53	10.8		6	675
1978	UC5	*	1978	10	27.30539	00	53	55.95	+11	34	31.3	19.0	6	675
1978	UC5		1978	10	28.29411	00	53	09.20	+11	32	35.5		6	675
1978	UC5		1978	10	29.30729	00	52	22.15	+11	30	38.1		6	675
1978	UD5	*	1978	10	27.30539	00	53	58.07	+11	25	31.2	18.5	6	675
1978	UD5		1978	10	28.29411	00	53	13.03	+11	17	30.1		6	675
1978	UD5		1978	10	29.30729	00	52	28.23	+11	09	21.4		6	675

1978 UD5		1978	11	28.16875	00	43	55.44	+08	16	42.4	20.2	6	675
1978 UD5		1978	11	29.16308	00	44	08.81	+08	14	06.8		6	675
1978 UE5	*	1978	10	27.30539	00	53	59.77	+09	42	39.4	19.0	6	675
1978 UE5		1978	10	28.29411	00	53	19.28	+09	37	38.1		6	675
1978 UE5		1978	10	29.30729	00	52	39.23	+09	32	33.7		6	675
1978 UE5		1978	11	28.16875	00	47	11.23	+08	15	52.4	20.0	6	675
1978 UE5		1978	11	29.16308	00	47	30.72	+08	16	16.3		6	675
1978 UF5	*	1978	10	27.30539	00	54	22.17	+08	00	16.0	18.5	6	675
1978 UF5		1978	10	28.29411	00	53	36.52	+07	54	59.8		6	675
1978 UF5		1978	10	29.30729	00	52	50.86	+07	49	41.2		6	675
1978 UG5	*	1978	10	27.30539	00	54	43.78	+10	08	23.1	17.5	6	675
1978 UG5		1978	10	28.29411	00	53	52.60	+10	06	29.5		6	675
1978 UG5		1978	10	29.30729	00	53	01.41	+10	04	36.3		6	675
1978 UH5	*	1978	10	27.30539	00	54	46.19	+11	32	52.9	18.5	6	675
1978 UH5		1978	10	28.29411	00	54	05.57	+11	26	15.6		6	675
1978 UH5		1978	10	29.30729	00	53	24.91	+11	19	31.4		6	675
1978 UJ5	*	1978	10	27.30539	00	55	03.43	+09	21	02.8	18.0	6	675
1978 UJ5		1978	10	28.29411	00	54	18.15	+09	15	54.7		6	675
1978 UJ5		1978	10	29.30729	00	53	32.84	+09	10	42.4		6	675
1978 UJ5		1978	11	28.16875	00	45	35.45	+07	50	27.8	19.2	6	675
1978 UJ5		1978	11	29.16308	00	45	50.53	+07	50	45.7		6	675
1978 UK5	*	1978	10	27.30539	00	55	54.37	+12	02	52.6	19.5	6	675
1978 UK5		1978	10	28.29411	00	54	56.27	+12	04	40.4		6	675
1978 UK5		1978	10	29.30729	00	53	58.12	+12	06	29.5		6	675
1978 UL5	*	1978	10	27.30539	00	56	10.70	+06	39	34.4	18.0	6	675
1978 UL5		1978	10	28.29411	00	55	26.52	+06	34	05.3		6	675
1978 UL5		1978	10	29.30729	00	54	42.49	+06	28	36.1		6	675
1978 UM5	*	1978	10	27.30539	00	56	27.70	+08	13	04.1	19.0	6	675
1978 UM5		1978	10	28.29411	00	55	39.38	+08	12	54.2		6	675
1978 UM5		1978	10	29.30729	00	54	50.83	+08	12	46.9		6	675
1978 UN5	*	1978	10	27.30539	00	56	54.53	+08	21	18.7	18.0	6	675
1978 UN5		1978	10	28.29411	00	56	08.59	+08	19	11.4		6	675
1978 UN5		1978	10	29.30729	00	55	22.87	+08	17	05.7		6	675
1978 UN5		1978	11	28.16875	00	46	24.71	+08	12	32.0	19.5	6	675
1978 UN5		1978	11	29.16308	00	46	34.46	+08	14	33.0		6	675
1978 UO5	*	1978	10	27.30539	00	57	03.31	+12	22	30.4	19.0	6	675
1978 UO5		1978	10	28.29411	00	56	09.65	+12	21	40.4		6	675
1978 UO5		1978	10	29.30729	00	55	15.35	+12	20	50.2		6	675
1978 UP5	*	1978	10	27.30539	00	57	33.76	+11	41	11.3	17.5	6	675
1978 UP5		1978	10	28.29411	00	56	39.85	+11	42	29.8		6	675
1978 UP5		1978	10	29.30729	00	55	46.14	+11	43	51.2		6	675
1978 UQ5	*	1978	10	27.30539	00	57	43.12	+10	58	31.9	19.5	6	675
1978 UQ5		1978	10	28.29411	00	57	08.92	+10	50	10.4		6	675
1978 UQ5		1978	10	29.30729	00	56	34.77	+10	41	41.0		6	675
1978 UR5	*	1978	10	27.30539	00	57	55.61	+07	20	13.8	18.5	6	675
1978 UR5		1978	10	28.29411	00	57	15.24	+07	15	52.5		6	675
1978 UR5		1978	10	29.30729	00	56	34.65	+07	11	28.0		6	675
1978 US5	*	1978	10	27.30539	00	58	03.28	+09	01	14.4	17.5	6	675
1978 US5		1978	10	28.29411	00	57	06.52	+09	03	01.6		6	675
1978 US5		1978	10	29.30729	00	56	09.74	+09	04	52.2		6	675
1978 US5		1978	11	28.16875	00	41	13.89	+10	24	18.4	19.0	6	675
1978 US5		1978	11	29.16308	00	41	11.32	+10	28	05.6		6	675
1978 UT5	*	1978	10	27.30539	00	58	10.90	+10	08	54.4	18.0	6	675
1978 UT5		1978	10	28.29411	00	57	27.04	+10	05	39.1		6	675
1978 UT5		1978	10	29.30729	00	56	43.13	+10	02	22.6		6	675
1978 UU5	*	1978	10	27.30539	00	58	20.01	+07	26	30.2	18.5	6	675
1978 UU5		1978	10	28.29411	00	57	42.02	+07	23	46.0		6	675
1978 UU5		1978	10	29.30729	00	57	04.07	+07	21	02.4		6	675
1978 UV5	*	1978	10	27.30539	00	58	29.51	+10	54	28.8	18.5	6	675

1978	UV5		1978	10	28.29411	00	57	36.43	+10	50	22.0		6	675
1978	UV5		1978	10	29.30729	00	56	43.16	+10	46	13.4		6	675
1978	UW5	*	1978	10	27.30539	00	58	50.73	+07	45	09.1	18.5	6	675
1978	UW5		1978	10	28.29411	00	58	01.10	+07	42	12.5		6	675
1978	UW5		1978	10	29.30729	00	57	11.36	+07	39	16.4		6	675
1978	UX5	*	1978	10	27.30539	00	58	59.11	+09	19	50.1	19.0	6	675
1978	UX5		1978	10	28.29411	00	58	15.48	+09	11	27.4		6	675
1978	UX5		1978	10	29.30729	00	57	32.09	+09	02	58.6		6	675
1978	UX5		1978	11	28.16875	00	50	20.30	+06	25	22.3	20.0	6	675
1978	UX5		1978	11	29.16308	00	50	36.11	+06	23	45.7		6	675
1978	UY5	*	1978	10	27.30539	00	59	37.53	+06	58	28.2	18.0	6	675
1978	UY5		1978	10	28.29411	00	58	51.80	+06	50	52.2		6	675
1978	UY5		1978	10	29.30729	00	58	05.77	+06	43	10.4		6	675
1978	UZ5	*	1978	10	27.30539	00	59	41.79	+11	04	37.7	19.0	6	675
1978	UZ5		1978	10	28.29411	00	59	08.08	+10	55	03.8		6	675
1978	UZ5		1978	10	29.30729	00	58	34.23	+10	45	18.2		6	675
1978	UZ5		1978	11	28.16875	00	50	36.13	+06	58	56.3	20.0	6	675
1978	UZ5		1978	11	29.16308	00	50	39.67	+06	53	59.0		6	675
1978	UA6	*	1978	10	27.30539	00	59	44.94	+07	14	17.7	19.0	6	675
1978	UA6		1978	10	28.29411	00	58	57.15	+07	11	25.1		6	675
1978	UA6		1978	10	29.30729	00	58	08.96	+07	08	31.6		6	675
1978	UB6	*	1978	10	27.30539	01	00	16.05	+08	10	49.5	18.5	6	675
1978	UB6		1978	10	28.29411	00	59	27.76	+08	04	09.3		6	675
1978	UB6		1978	10	29.30729	00	58	39.35	+07	57	24.8		6	675
1978	UC6	*	1978	10	27.30539	01	00	16.93	+09	26	59.8	18.5	6	675
1978	UC6		1978	10	28.29411	00	59	30.07	+09	19	57.0		6	675
1978	UC6		1978	10	29.30729	00	58	43.36	+09	12	48.4		6	675
1978	UD6	*	1978	10	27.30539	01	00	28.82	+12	13	21.2	19.5	6	675
1978	UD6		1978	10	28.29411	00	59	33.00	+12	09	25.8		6	675
1978	UD6		1978	10	29.30729	00	58	37.03	+12	05	27.6		6	675
1978	UE6	*	1978	10	27.30539	01	00	39.06	+07	48	20.2	18.5	6	675
1978	UE6		1978	10	28.29411	00	59	42.00	+07	47	54.3		6	675
1978	UE6		1978	10	29.30729	00	58	44.35	+07	47	31.2		6	675
1978	UE6		1978	11	28.16875	00	41	18.01	+08	16	59.7	19.2	6	675
1978	UE6		1978	11	29.16308	00	41	08.64	+08	19	40.8		6	675
1978	UF6	*	1978	10	27.30539	01	01	07.12	+10	57	52.4	17.5	6	675
1978	UF6		1978	10	28.29411	01	00	12.10	+10	54	40.0		6	675
1978	UF6		1978	10	29.30729	00	59	17.06	+10	51	26.3		6	675
1978	UF6		1978	11	28.16875	00	45	23.56	+10	03	56.5	18.5	6	675
1978	UF6		1978	11	29.16308	00	45	24.21	+10	04	27.3		6	675
1978	UG6	*	1978	10	27.30539	01	01	10.41	+11	56	18.0	18.5	6	675
1978	UG6		1978	10	28.29411	01	00	19.41	+11	50	42.8		6	675
1978	UG6		1978	10	29.30729	00	59	28.03	+11	44	59.4		6	675
1978	UH6	*	1978	10	27.30539	01	01	14.12	+12	04	44.3	19.5	6	675
1978	UH6		1978	10	28.29411	01	00	29.71	+12	02	05.8		6	675
1978	UH6		1978	10	29.30729	00	59	44.63	+11	59	21.9		6	675
1978	UJ6	*	1978	10	27.30539	01	01	26.24	+06	24	53.2	18.0	6	675
1978	UJ6		1978	10	28.29411	01	00	41.87	+06	16	55.6		6	675
1978	UJ6		1978	10	29.30729	00	59	57.45	+06	08	54.7		6	675
1978	UK6	*	1978	10	27.30539	01	01	33.04	+07	15	26.2	18.0	6	675
1978	UK6		1978	10	28.29411	01	00	48.84	+07	08	43.2		6	675
1978	UK6		1978	10	29.30729	01	00	04.42	+07	01	56.7		6	675
1978	UL6	*	1978	10	27.30539	01	01	35.61	+08	41	08.6	18.5	6	675
1978	UL6		1978	10	28.29411	01	00	54.88	+08	35	14.7		6	675
1978	UL6		1978	10	29.30729	01	00	14.34	+08	29	19.8		6	675
1978	UL6		1978	11	28.16875	00	54	31.72	+06	59	36.3	20.0	6	675
1978	UL6		1978	11	29.16308	00	54	51.07	+06	59	55.8		6	675
1978	UM6	*	1978	10	27.30539	01	02	05.43	+10	51	40.9	18.5	6	675
1978	UM6		1978	10	28.29411	01	01	22.20	+10	46	15.6		6	675

1978 UM6		1978	10	29.30729	01	00	38.81	+10	40	46.3	6	675
1978 UN6	*	1978	10	27.30539	01	02	07.69	+10	44	22.9	18.5	6 675
1978 UN6		1978	10	28.29411	01	01	22.84	+10	41	09.3	6	675
1978 UN6		1978	10	29.30729	01	00	37.59	+10	37	52.7	6	675
1978 UO6	*	1978	10	27.30539	01	02	13.54	+10	57	45.9	19.0	6 675
1978 UO6		1978	10	28.29411	01	01	07.13	+10	59	55.8	6	675
1978 UO6		1978	10	29.30729	01	00	00.22	+11	02	08.4	6	675
1978 UP6	*	1978	10	27.30539	01	02	43.50	+10	33	38.7	19.0	6 675
1978 UP6		1978	10	28.29411	01	02	04.58	+10	25	51.4	6	675
1978 UP6		1978	10	29.30729	01	01	25.81	+10	17	57.5	6	675
1978 UQ6	*	1978	10	27.30539	01	02	48.64	+10	31	57.5	19.0	6 675
1978 UQ6		1978	10	28.29411	01	01	53.58	+10	31	02.6	6	675
1978 UQ6		1978	10	29.30729	01	00	58.50	+10	30	09.8	6	675
1978 UR6	*	1978	10	27.30539	01	02	58.88	+10	11	00.6	18.5	6 675
1978 UR6		1978	10	28.29411	01	02	15.84	+10	05	43.8	6	675
1978 UR6		1978	10	29.30729	01	01	33.01	+10	00	24.6	6	675
1978 US6	*	1978	10	27.30539	01	03	01.81	+08	22	46.0	18.5	6 675
1978 US6		1978	10	28.29411	01	02	23.38	+08	15	45.9	6	675
1978 US6		1978	10	29.30729	01	01	44.59	+08	08	40.5	6	675
1978 UT6	*	1978	10	27.30539	01	03	07.20	+09	34	27.3	19.0	6 675
1978 UT6		1978	10	28.29411	01	02	28.36	+09	28	15.8	6	675
1978 UT6		1978	10	29.30729	01	01	49.98	+09	22	01.8	6	675
1978 UU6	*	1978	10	27.30539	01	03	10.31	+09	37	32.4	19.0	6 675
1978 UU6		1978	10	28.29411	01	02	31.72	+09	31	50.4	6	675
1978 UU6		1978	10	29.30729	01	01	53.77	+09	26	08.1	6	675
1978 UV6	*	1978	10	27.30539	01	03	10.79	+07	46	14.6	18.5	6 675
1978 UV6		1978	10	28.29411	01	02	24.54	+07	41	11.9	6	675
1978 UV6		1978	10	29.30729	01	01	38.38	+07	36	09.8	6	675
1978 UW6	*	1978	10	27.30539	01	03	11.67	+08	35	45.3	18.0	6 675
1978 UW6		1978	10	28.29411	01	02	30.20	+08	31	59.0	6	675
1978 UW6		1978	10	29.30729	01	01	48.28	+08	28	11.3	6	675
1978 UW6		1978	11	28.16875	00	48	12.95	+07	11	33.1	6	675
1978 UW6		1978	11	29.16308	00	48	02.50	+07	10	33.3	6	675
1978 UX6	*	1978	10	27.30539	01	03	20.62	+11	06	09.3	18.5	6 675
1978 UX6		1978	10	28.29411	01	02	37.08	+11	01	20.9	6	675
1978 UX6		1978	10	29.30729	01	01	53.41	+10	56	26.7	6	675
1978 UY6	*	1978	10	27.30539	01	03	34.06	+07	37	30.5	17.5	6 675
1978 UY6		1978	10	28.29411	01	02	49.50	+07	31	47.4	6	675
1978 UY6		1978	10	29.30729	01	02	04.93	+07	26	03.9	6	675
1978 UZ6	*	1978	10	27.30539	01	03	35.17	+12	06	22.0	19.0	6 675
1978 UZ6		1978	10	28.29411	01	03	03.46	+11	53	36.2	6	675
1978 UZ6		1978	10	29.30729	01	02	32.39	+11	40	42.2	6	675
1978 UA7	*	1978	10	27.30539	01	04	35.91	+07	01	26.3	16.5	6 675
1978 UA7		1978	10	28.29411	01	03	41.95	+06	58	52.4	6	675
1978 UA7		1978	10	29.30729	01	02	47.53	+06	56	19.8	6	675
1978 UA7		1978	11	28.16875	00	46	41.21	+06	32	18.3	17.5	6 675
1978 UA7		1978	11	29.16308	00	46	33.34	+06	33	32.2	6	675
1978 UB7	*	1978	10	27.30539	01	04	59.53	+12	21	36.1	19.5	6 675
1978 UB7		1978	10	28.29411	01	03	59.41	+12	21	14.4	6	675
1978 UB7		1978	10	29.30729	01	02	58.48	+12	20	52.1	6	675
1978 UC7	*	1978	10	27.30539	01	05	02.21	+09	17	52.5	18.5	6 675
1978 UC7		1978	10	28.29411	01	04	17.99	+09	14	48.2	6	675
1978 UC7		1978	10	29.30729	01	03	33.75	+09	11	44.8	6	675
1978 UD7	*	1978	10	27.30539	01	05	06.14	+11	43	15.0	17.5	6 675
1978 UD7		1978	10	28.29411	01	04	07.00	+11	41	04.6	6	675
1978 UD7		1978	10	29.30729	01	03	07.67	+11	38	51.8	6	675
1978 UD7		1978	11	28.16875	00	48	15.47	+11	15	20.4	18.5	6 675
1978 UD7		1978	11	29.16308	00	48	15.84	+11	16	26.4	6	675
1978 UE7	*	1978	10	27.30539	01	05	07.01	+09	31	34.1	19.0	6 675

1978	UE7		1978	10	28.29411	01	04	33.12	+09	27	25.7		6	675
1978	UE7		1978	10	29.30729	01	03	59.21	+09	23	15.2		6	675
1978	UF7	*	1978	10	27.30539	01	05	15.01	+12	25	49.7	18.0	6	675
1978	UF7		1978	10	28.29411	01	04	39.36	+12	16	26.2		6	675
1978	UF7		1978	10	29.30729	01	04	03.58	+12	06	53.2		6	675
1978	UF7		1978	11	28.16875	00	55	33.59	+08	26	50.0	19.5	6	675
1978	UF7		1978	11	29.16308	00	55	36.71	+08	22	06.5		6	675
1978	UG7	*	1978	10	27.30539	01	05	28.49	+11	58	33.6	19.5	6	675
1978	UG7		1978	10	28.29411	01	04	40.90	+11	54	08.4		6	675
1978	UG7		1978	10	29.30729	01	03	53.11	+11	49	39.2		6	675
1978	UH7	*	1978	10	27.30539	01	05	37.21	+07	54	51.7	18.0	6	675
1978	UH7		1978	10	28.29411	01	04	51.04	+07	50	13.3		6	675
1978	UH7		1978	10	29.30729	01	04	04.59	+07	45	33.9		6	675
1978	UJ7	*	1978	10	27.30539	01	06	01.83	+09	02	37.9	19.0	6	675
1978	UJ7		1978	10	28.29411	01	05	16.38	+08	57	31.0		6	675
1978	UJ7		1978	10	29.30729	01	04	30.63	+08	52	21.0		6	675
1978	UK7	*	1978	10	27.30539	01	06	25.05	+06	51	34.5	17.0	6	675
1978	UK7		1978	10	28.29411	01	05	42.76	+06	45	58.0		6	675
1978	UK7		1978	10	29.30729	01	05	00.51	+06	40	21.6		6	675
1978	UK7		1978	11	28.16875	00	57	17.99	+05	21	32.2	19.0	6	675
1978	UK7		1978	11	29.16308	00	57	32.02	+05	22	14.0		6	675
1978	UL7	*	1978	10	27.30539	01	06	41.14	+10	43	30.4	17.0	6	675
1978	UL7		1978	10	28.29411	01	05	47.87	+10	36	42.3		6	675
1978	UL7		1978	10	29.30729	01	04	54.46	+10	29	47.8		6	675
1978	UL7		1978	11	28.16875	00	51	03.31	+08	11	33.2	18.0	6	675
1978	UL7		1978	11	29.16308	00	51	03.14	+08	09	42.7		6	675
1978	UM7	*	1978	10	27.30539	01	07	07.70	+06	46	13.5	18.0	6	675
1978	UM7		1978	10	28.29411	01	06	32.23	+06	41	01.1		6	675
1978	UM7		1978	10	29.30729	01	05	57.28	+06	35	51.7		6	675
1978	UN7	*	1978	10	27.30539	01	07	16.46	+06	35	33.2	18.5	6	675
1978	UN7		1978	10	28.29411	01	06	58.63	+06	22	44.7		6	675
1978	UO7	*	1978	10	27.30539	01	07	24.87	+08	39	19.4	19.0	6	675
1978	UO7		1978	10	28.29411	01	06	41.42	+08	35	03.6		6	675
1978	UO7		1978	10	29.30729	01	05	57.47	+08	30	44.8		6	675
1978	UP7	*	1978	10	27.30539	01	07	27.53	+07	37	47.3	18.0	6	675
1978	UP7		1978	10	28.29411	01	06	37.85	+07	35	08.8		6	675
1978	UP7		1978	10	29.30729	01	05	47.36	+07	32	30.3		6	675
1978	UQ7	*	1978	10	27.30539	01	07	32.60	+07	50	04.5	18.0	6	675
1978	UQ7		1978	10	28.29411	01	06	44.99	+07	46	41.4		6	675
1978	UQ7		1978	10	29.30729	01	05	56.73	+07	43	18.2		6	675
1978	UQ7		1978	11	28.16875	00	50	39.13	+06	45	53.7	19.5	6	675
1978	UQ7		1978	11	29.16308	00	50	28.42	+06	45	46.8		6	675
1978	UR7	*	1978	10	27.30539	01	07	41.37	+06	16	37.0	18.5	6	675
1978	UR7		1978	10	28.29411	01	06	59.65	+06	12	41.6		6	675
1978	UR7		1978	10	29.30729	01	06	17.33	+06	08	45.0		6	675
1978	US7	*	1978	10	27.30539	01	08	20.21	+06	23	43.6	18.5	6	675
1978	US7		1978	10	28.29411	01	07	36.10	+06	18	12.3		6	675
1978	US7		1978	10	29.30729	01	06	51.72	+06	12	39.7		6	675
1978	UT7	*	1978	10	27.30539	01	08	22.89	+09	13	13.3	17.5	6	675
1978	UT7		1978	10	28.29411	01	07	46.06	+09	05	52.4		6	675
1978	UT7		1978	10	29.30729	01	07	09.00	+08	58	27.2		6	675
1978	UT7		1978	11	28.16875	00	58	37.32	+06	28	38.0	18.5	6	675
1978	UT7		1978	11	29.16308	00	58	41.47	+06	26	19.6		6	675
1978	UU7	*	1978	10	27.30539	01	08	24.19	+06	20	25.4	18.5	6	675
1978	UU7		1978	10	28.27848	01	07	42.60	+06	13	44.8		6	675
1978	UV7	*	1978	10	27.30539	01	08	33.02	+06	44	03.7	17.5	6	675
1978	UV7		1978	10	28.29411	01	07	52.56	+06	38	00.0		6	675
1978	UV7		1978	10	29.30729	01	07	11.91	+06	31	54.7		6	675
1978	UW7	*	1978	10	27.30539	01	08	43.45	+12	14	51.2	17.0	6	675

1978	UW7		1978	10	28.29411	01	08	00.63	+12	03	49.3	6 675
1978	UW7		1978	10	29.30729	01	07	17.71	+11	52	38.3	6 675
1978	UW7		1978	11	28.16875	00	57	34.69	+07	45	37.6	18.8 6 675
1978	UW7		1978	11	29.16308	00	57	39.75	+07	40	47.1	6 675
1978	UX7	*	1978	10	27.30539	01	09	02.23	+09	13	52.0	18.0 6 675
1978	UX7		1978	10	28.29411	01	08	15.52	+09	07	58.3	6 675
1978	UX7		1978	10	29.30729	01	07	28.63	+09	02	01.8	6 675
1978	UX7		1978	11	28.16875	00	55	57.63	+07	11	29.6	19.5 6 675
1978	UX7		1978	11	29.16308	00	56	01.85	+07	10	36.9	6 675
1978	UY7	*	1978	10	27.30539	01	09	07.57	+07	14	56.6	18.0 6 675
1978	UY7		1978	10	28.29411	01	08	23.09	+07	09	44.7	6 675
1978	UY7		1978	10	29.30729	01	07	38.29	+07	04	31.7	6 675
1978	UZ7	*	1978	10	27.30539	01	09	19.53	+09	54	07.3	18.5 6 675
1978	UZ7		1978	10	28.29411	01	08	34.94	+09	49	19.8	6 675
1978	UZ7		1978	10	29.30729	01	07	50.08	+09	44	27.2	6 675
1978	UA8	*	1978	10	27.30539	01	09	38.80	+11	26	47.6	19.0 6 675
1978	UA8		1978	10	28.29411	01	08	55.82	+11	21	55.8	6 675
1978	UA8		1978	10	29.30729	01	08	12.55	+11	16	58.7	6 675
1978	UB8	*	1978	10	27.30539	01	09	39.86	+11	28	00.4	19.5 6 675
1978	UB8		1978	10	28.29411	01	08	55.61	+11	21	39.6	6 675
1978	UB8		1978	10	29.30729	01	08	11.06	+11	15	12.9	6 675
1978	UC8	*	1978	10	27.30539	01	09	47.54	+06	49	01.7	18.0 6 675
1978	UC8		1978	10	28.29411	01	09	08.00	+06	44	59.9	6 675
1978	UC8		1978	10	29.30729	01	08	28.31	+06	40	58.4	6 675
1978	UD8	*	1978	10	27.30539	01	10	50.48	+08	22	19.6	18.5 6 675
1978	UD8		1978	10	28.29411	01	09	51.63	+08	20	58.7	6 675
1978	UD8		1978	10	29.30729	01	08	52.38	+08	19	42.4	6 675
1978	UE8	*	1978	10	27.30539	01	10	59.43	+10	59	28.3	19.5 6 675
1978	UE8		1978	10	28.29411	01	10	05.33	+10	58	40.1	6 675
1978	UE8		1978	10	29.30729	01	09	10.82	+10	57	52.1	6 675
1978	UE8		1978	11	28.16875	00	52	12.34	+11	04	05.0	20.0 6 675
1978	UE8		1978	11	29.16308	00	52	03.17	+11	05	48.2	6 675
1978	UF8	*	1978	10	27.30539	01	11	13.82	+08	09	20.3	18.0 6 675
1978	UF8		1978	10	28.29411	01	10	16.26	+08	05	46.1	6 675
1978	UF8		1978	10	29.30729	01	09	18.18	+08	02	13.1	6 675
1978	UG8	*	1978	10	27.30539	01	11	22.43	+07	28	35.0	18.0 6 675
1978	UG8		1978	10	28.29411	01	10	39.79	+07	23	47.0	6 675
1978	UG8		1978	10	29.30729	01	09	56.82	+07	18	58.9	6 675
1978	UG8		1978	11	28.16875	00	57	43.02	+05	51	59.4	19.5 6 675
1978	UG8		1978	11	29.16308	00	57	39.36	+05	51	18.4	6 675
1978	UH8	*	1978	10	27.30539	01	11	44.07	+07	10	16.0	18.0 6 675
1978	UH8		1978	10	28.29411	01	11	00.41	+07	07	47.1	6 675
1978	UH8		1978	10	29.30729	01	10	16.39	+07	05	19.9	6 675
1978	UJ8	*	1978	10	27.30539	01	11	54.07	+11	02	16.2	19.0 6 675
1978	UJ8		1978	10	28.29411	01	11	09.51	+10	55	27.4	6 675
1978	UJ8		1978	10	29.30729	01	10	24.78	+10	48	33.0	6 675
1978	UJ8		1978	11	28.16875	00	58	21.31	+08	16	53.5	20.2 6 675
1978	UJ8		1978	11	29.16308	00	58	21.39	+08	14	20.2	6 675
1978	UK8	*	1978	10	27.30539	01	12	01.57	+11	56	46.6	19.5 6 675
1978	UK8		1978	10	28.29411	01	11	12.04	+11	51	43.6	6 675
1978	UK8		1978	10	29.30729	01	10	22.45	+11	46	38.7	6 675
1978	UL8	*	1978	10	27.30539	01	12	01.99	+06	25	18.6	18.0 6 675
1978	UL8		1978	10	28.29411	01	11	07.54	+06	22	23.8	6 675
1978	UL8		1978	10	29.30729	01	10	12.85	+06	19	31.8	6 675
1978	UM8	*	1978	10	28.29411	01	11	42.37	+06	20	44.0	19.0 6 675
1978	UM8		1978	10	29.30729	01	11	00.21	+06	10	39.8	6 675
1978	VV9		1992	06	04.26024	15	13	47.34	-20	02	23.1	17.2 9 675
1978	VV9		1992	06	04.29271	15	13	46.07	-20	02	15.2	9 675
1978	WR19	*	1978	11	28.16875	00	34	45.17	+07	26	05.1	19.2 6 675

1978	WR19		1978	11	29.16308	00	35	23.63	+07	27	01.6		6	675
1978	WT19	*	1978	11	28.16875	00	35	39.44	+05	31	43.8	19.2	6	675
1978	WT19		1978	11	29.16308	00	36	09.16	+05	35	20.3		6	675
1978	WU19	*	1978	11	28.16875	00	36	10.02	+07	21	03.9	19.5	6	675
1978	WU19		1978	11	29.16308	00	36	17.69	+07	17	18.0		6	675
1978	WV19	*	1978	11	28.16875	00	36	23.74	+08	40	29.0	19.0	6	675
1978	WV19		1978	11	29.16308	00	36	56.80	+08	43	06.9		6	675
1978	WW19	*	1978	11	28.16875	00	37	03.81	+11	03	42.3	19.2	6	675
1978	WW19		1978	11	29.16308	00	37	35.23	+11	01	57.1		6	675
1978	WX19	*	1978	11	28.16875	00	37	35.99	+10	29	50.3	19.0	6	675
1978	WX19		1978	11	29.16308	00	38	05.92	+10	29	54.4		6	675
1978	WY19	*	1978	11	28.16875	00	38	42.50	+10	54	06.1	19.5	6	675
1978	WY19		1978	11	29.16308	00	38	49.45	+10	50	33.6		6	675
1978	WZ19	*	1978	11	28.16875	00	38	58.76	+05	58	15.1	17.8	6	675
1978	WZ19		1978	11	29.16308	00	39	36.58	+06	03	17.9		6	675
1978	WA20	*	1978	11	28.16875	00	39	34.96	+06	31	00.3	19.5	6	675
1978	WA20		1978	11	29.16308	00	40	03.53	+06	30	37.6		6	675
1978	WB20	*	1978	11	28.16875	00	39	48.38	+05	50	47.0	19.2	6	675
1978	WB20		1978	11	29.16308	00	39	49.94	+05	41	41.6		6	675
1978	WD20	*	1978	11	28.16875	00	40	24.60	+08	57	13.3	19.5	6	675
1978	WD20		1978	11	29.16308	00	40	54.25	+08	57	00.2		6	675
1978	WE20	*	1978	11	28.16875	00	42	26.78	+09	38	15.7	19.0	6	675
1978	WE20		1978	11	29.16308	00	42	28.95	+09	32	43.7		6	675
1978	WF20	*	1978	11	28.16875	00	42	36.63	+11	26	52.5	18.0	6	675
1978	WF20		1978	11	29.16308	00	42	34.31	+11	24	42.8		6	675
1978	WG20	*	1978	11	28.16875	00	42	37.97	+05	15	59.9	19.5	6	675
1978	WG20		1978	11	29.16308	00	42	59.86	+05	11	56.3		6	675
1978	WH20	*	1978	11	28.16875	00	42	44.45	+05	30	59.5	19.2	6	675
1978	WH20		1978	11	29.16308	00	43	16.17	+05	31	28.1		6	675
1978	WJ20	*	1978	11	28.16875	00	44	10.26	+07	28	42.2	19.8	6	675
1978	WJ20		1978	11	29.16308	00	44	25.23	+07	31	28.2		6	675
1978	WK20	*	1978	11	28.16875	00	44	11.58	+07	13	15.0	19.5	6	675
1978	WK20		1978	11	29.16308	00	44	39.38	+07	11	06.4		6	675
1978	WL20	*	1978	11	28.16875	00	44	45.50	+09	57	02.0	18.2	6	675
1978	WL20		1978	11	29.16308	00	45	37.39	+09	49	47.5		6	675
1978	WM20	*	1978	11	28.16875	00	45	26.60	+05	44	13.8	19.5	6	675
1978	WM20		1978	11	29.16308	00	45	39.98	+05	50	08.0		6	675
1978	WN20	*	1978	11	28.16875	00	45	53.08	+07	53	07.5	19.2	6	675
1978	WN20		1978	11	29.16308	00	45	53.07	+07	53	08.0		6	675
1978	WO20	*	1978	11	28.16875	00	45	58.79	+05	32	18.0	18.8	6	675
1978	WO20		1978	11	29.16308	00	46	21.42	+05	36	34.1		6	675
1978	WP20	*	1978	11	28.16875	00	46	08.93	+11	03	29.7	18.2	6	675
1978	WP20		1978	11	29.16308	00	46	52.61	+10	56	52.6		6	675
1978	WQ20	*	1978	11	28.16875	00	46	17.59	+10	26	08.1	18.8	6	675
1978	WQ20		1978	11	29.16308	00	46	25.98	+10	22	28.3		6	675
1978	WR20	*	1978	11	28.16875	00	47	22.43	+07	42	27.3	19.5	6	675
1978	WR20		1978	11	29.16308	00	47	41.59	+07	44	08.3		6	675
1978	WS20	*	1978	11	28.16875	00	47	46.89	+06	41	24.0	19.0	6	675
1978	WS20		1978	11	29.16308	00	47	36.02	+06	49	27.5		6	675
1978	WT20	*	1978	11	28.16875	00	48	13.04	+09	27	04.9	19.2	6	675
1978	WT20		1978	11	29.16308	00	48	06.38	+09	17	26.6		6	675
1978	WU20	*	1978	11	28.16875	00	48	59.96	+11	34	13.3	19.0	6	675
1978	WU20		1978	11	29.16308	00	49	07.22	+11	25	24.2		6	675
1978	WV20	*	1978	11	28.16875	00	50	33.62	+07	27	24.0	20.0	6	675
1978	WV20		1978	11	29.16308	00	50	37.44	+07	24	45.3		6	675
1978	WW20	*	1978	11	28.16875	00	50	34.75	+07	01	21.0	20.0	6	675
1978	WW20		1978	11	29.16308	00	50	47.84	+07	04	18.8		6	675
1978	WX20	*	1978	11	28.16875	00	50	47.39	+09	45	21.4	19.5	6	675
1978	WX20		1978	11	29.16308	00	51	27.61	+09	41	20.3		6	675

1978	WY20	*	1978	11	28.16875	00	51	26.29	+10 41 23.6	18.0	6 675
1978	WY20		1978	11	29.16308	00	51	28.08	+10 39 06.9		6 675
1978	WZ20	*	1978	11	28.16875	00	52	13.67	+09 41 01.0	18.8	6 675
1978	WZ20		1978	11	29.16308	00	52	34.79	+09 28 53.3		6 675
1978	WA21	*	1978	11	28.16875	00	52	42.95	+10 00 26.1	19.0	6 675
1978	WA21		1978	11	29.16308	00	53	01.81	+09 57 21.3		6 675
1978	WB21	*	1978	11	28.16875	00	53	51.61	+08 00 41.2	19.0	6 675
1978	WB21		1978	11	29.16308	00	53	36.79	+08 02 19.1		6 675
1978	WC21	*	1978	11	28.16875	00	54	01.62	+11 28 45.9	19.5	6 675
1978	WC21		1978	11	29.16308	00	54	32.45	+11 27 52.7		6 675
1978	WD21	*	1978	11	28.16875	00	54	22.42	+08 52 28.4	19.5	6 675
1978	WD21		1978	11	29.16308	00	54	43.17	+08 53 12.3		6 675
1978	WE21	*	1978	11	28.16875	00	54	29.28	+06 52 15.5	19.8	6 675
1978	WE21		1978	11	29.16308	00	54	49.11	+06 54 09.7		6 675
1978	WF21	*	1978	11	28.16875	00	54	42.06	+09 42 55.5	19.2	6 675
1978	WF21		1978	11	29.16308	00	54	43.65	+09 38 09.1		6 675
1978	WG21	*	1978	11	28.16875	00	54	45.87	+10 27 54.9	19.0	6 675
1978	WG21		1978	11	29.16308	00	54	42.96	+10 25 08.1		6 675
1978	WH21	*	1978	11	28.16875	00	54	50.79	+08 30 17.5	20.5	6 675
1978	WH21		1978	11	29.16308	00	55	04.31	+08 27 20.3		6 675
1978	WJ21	*	1978	11	28.16875	00	55	14.91	+07 18 05.0	20.2	6 675
1978	WJ21		1978	11	29.16308	00	55	15.80	+07 14 18.3		6 675
1978	WK21	*	1978	11	28.16875	00	55	26.70	+09 37 03.0		6 675
1978	WK21		1978	11	29.16308	00	55	26.23	+09 45 27.1		6 675
1978	WL21	*	1978	11	28.16875	00	55	56.10	+09 35 52.4	19.8	6 675
1978	WL21		1978	11	29.16308	00	55	48.41	+09 33 39.6		6 675
1978	WM21	*	1978	11	28.16875	00	57	57.20	+08 26 35.8	19.5	6 675
1978	WM21		1978	11	29.16308	00	57	49.95	+08 21 53.7		6 675
1978	WN21	*	1978	11	28.16875	00	58	10.04	+08 19 34.5	19.0	6 675
1978	WN21		1978	11	29.16308	00	58	13.60	+08 20 47.0		6 675
1978	WO21	*	1978	11	28.16875	00	58	18.55	+10 52 29.0	19.2	6 675
1978	WO21		1978	11	29.16308	00	58	44.13	+10 49 28.5		6 675
1978	WP21	*	1978	11	28.16875	00	58	53.97	+05 26 46.0	19.8	6 675
1978	WP21		1978	11	29.16308	00	58	48.07	+05 24 44.7		6 675
1978	WQ21	*	1978	11	28.16875	00	59	34.55	+10 23 44.4	18.8	6 675
1978	WQ21		1978	11	29.16308	00	59	29.65	+10 23 09.1		6 675
1978	WR21	*	1978	11	28.16875	00	59	46.60	+06 11 42.1	19.5	6 675
1978	WR21		1978	11	29.16308	00	59	47.25	+06 15 30.8		6 675
1980	FY		1978	10	27.30539	00	56	31.16	+09 16 50.6		6 675
1980	FY		1978	10	28.29411	00	55	39.70	+09 11 24.2		6 675
1980	FY		1978	10	29.30729	00	54	48.13	+09 05 53.8		6 675
1980	FY		1978	11	28.16875	00	42	45.60	+07 31 30.8	19.0	6 675
1980	FY		1978	11	29.16308	00	42	50.35	+07 31 07.6		6 675
1980	FN1		1978	11	28.16875	00	57	49.84	+05 33 02.6	19.2	6 675
1980	FN1		1978	11	29.16308	00	57	50.06	+05 33 30.6		6 675
1980	FZ3		1992	08	03.44792	03	11	32.03	+22 03 35.5		9 675
1980	TK6		1991	09	13.20573	20	34	55.99	-08 02 29.8	17.5	9 675
1980	TK6		1991	09	13.26619	20	34	55.27	-08 02 48.1		9 675
1981	DZ		1991	09	12.20822	21	33	17.87	-00 20 09.4		9 675
1981	DZ		1991	09	12.26152	21	33	15.84	-00 20 28.0		9 675
1981	DU1		1949	11	19.13194	00	05	12.61	+10 25 47.2		6 675
1981	DU1		1949	11	19.15799	00	05	12.72	+10 25 38.0		6 675
1981	DU1		1954	10	06.33021	01	06	49.59	+19 48 29.8		6 675
1981	DU1		1954	10	06.35139	01	06	48.27	+19 48 17.0		6 675
1981	DC2		1978	11	28.16875	00	35	08.66	+08 23 47.5	18.8	6 675
1981	DC2		1978	11	29.16308	00	35	31.11	+08 19 08.1		6 675
1981	EF5		1954	10	06.33021	01	26	02.92	+17 19 26.1	17.5	6 675
1981	EF5		1954	10	06.35139	01	26	01.82	+17 19 13.1		6 675
1981	EO9		1949	11	19.13194	00	15	20.92	+15 43 25.0		6 675

1981	EO9		1949	11	19.15799	00	15	20.72	+15	43	21.4			6	675
1981	EQ9		1978	10	27.30539	01	08	03.01	+08	03	09.7			6	675
1981	EQ9		1978	10	28.29411	01	07	24.41	+07	58	05.9			6	675
1981	EQ9		1978	10	29.30729	01	06	45.35	+07	52	58.5			6	675
1981	EG24		1978	10	27.30539	00	48	35.02	+07	48	55.5			6	675
1981	EG24		1978	10	28.29411	00	47	54.39	+07	44	27.7			6	675
1981	EG24		1978	10	29.30729	00	47	13.40	+07	39	55.4			6	675
1981	EG27		1978	10	27.30539	00	54	45.51	+09	08	27.9			6	675
1981	EG27		1978	10	28.29411	00	54	05.46	+09	04	08.3			6	675
1981	EG27		1978	10	29.30729	00	53	25.00	+08	59	44.7			6	675
1981	EM30		1992	08	02.32882	22	17	31.05	-11	02	32.6	17.5		9	675
1981	EM30		1992	08	02.37118	22	17	29.63	-11	02	44.7			9	675
1981	EM30		1992	08	06.36493	22	15	15.02	-11	22	32.8			9	675
1981	EM30		1992	08	06.40416	22	15	13.46	-11	22	46.4			9	675
1981	EF37		1954	10	06.33021	01	32	03.41	+19	02	00.1			6	675
1981	EF37		1954	10	06.35139	01	32	01.84	+19	02	03.1			6	675
1981	JS2		1978	10	27.30539	01	00	11.40	+08	03	21.3			6	675
1981	JS2		1978	10	28.29411	00	59	23.76	+07	59	09.2			6	675
1981	JS2		1978	10	29.30729	00	58	36.17	+07	54	58.0			6	675
1981	JS2		1978	11	28.16875	00	47	54.98	+06	58	21.3	19.2		6	675
1981	JS2		1978	11	29.16308	00	48	00.31	+06	58	58.8			6	675
1981	JH6	*	1981	05	08.43507	15	36	28.44	-14	24	24.3	16.8	V	6	675
1981	JH6		1981	05	09.38021	15	35	33.52	-14	23	44.6			6	675
1981	JJ6	*	1981	05	08.43507	15	37	06.41	-13	32	16.0	16.5	V	6	675
1981	JJ6		1981	05	09.38021	15	36	14.47	-13	25	15.2			6	675
1981	JK6	*	1981	05	08.43507	15	38	10.31	-13	24	24.1	16.8	V	6	675
1981	JK6		1981	05	09.38021	15	37	28.12	-13	13	17.9			6	675
1981	JL6	*	1981	05	08.43507	15	39	54.68	-16	59	14.4	17.0	V	6	675
1981	JL6		1981	05	09.38021	15	39	02.19	-16	56	40.9			6	675
1981	JM6	*	1981	05	08.43507	15	40	55.74	-11	34	58.7	16.2	V	6	675
1981	JM6		1981	05	09.38021	15	40	02.03	-11	42	12.6			6	675
1981	JN6	*	1981	05	08.43507	15	41	02.65	-11	22	34.0	16.8	V	6	675
1981	JN6		1981	05	09.38021	15	40	05.82	-11	22	19.2			6	675
1981	JO6	*	1981	05	08.43507	15	42	36.67	-13	17	56.2	17.2	V	6	675
1981	JO6		1981	05	09.38021	15	41	41.41	-13	16	33.1			6	675
1981	JP6	*	1981	05	08.43507	15	47	02.43	-16	25	03.9	16.8	V	6	675
1981	JP6		1981	05	09.38021	15	46	10.95	-16	16	33.7			6	675
1981	JQ6	*	1981	05	08.43507	15	47	48.82	-15	40	03.3	15.5	V	6	675
1981	JQ6		1981	05	09.38021	15	46	48.95	-15	40	55.5			6	675
1981	JR6	*	1981	05	08.43507	15	48	15.89	-14	33	41.6	16.8	V	6	675
1981	JR6		1981	05	09.38021	15	47	16.02	-14	38	53.6			6	675
1981	JS6	*	1981	05	08.43507	15	50	30.71	-15	37	37.0	17.0	V	6	675
1981	JS6		1981	05	09.38021	15	49	36.56	-15	35	23.6			6	675
1981	PF		1992	07	26.20417	18	08	48.69	-07	00	16.6	16.0		2	675
1981	PF		1992	07	26.22691	18	08	47.96	-07	00	34.4			2	675
1981	PF		1992	07	28.24948	18	08	01.73	-07	28	47.0			2	675
1981	PF		1992	07	28.27101	18	08	01.22	-07	29	04.8			2	675
1981	QE3		1992	08	02.32882	22	24	51.81	-13	56	31.6	17.0		9	675
1981	QE3		1992	08	02.37118	22	24	50.28	-13	56	42.3			9	675
1981	QE3		1992	08	06.36493	22	22	31.61	-14	13	48.0			9	675
1981	QE3		1992	08	06.40416	22	22	30.11	-14	13	58.2			9	675
1982	BS		1953	03	09.31250	10	29	14.79	-06	25	32.1	17.2		6	675
1982	BS		1953	03	09.33576	10	29	13.32	-06	25	23.0			6	675
1982	UF2		1992	08	02.32188	21	43	11.26	-02	54	04.8	17.0		9	675
1982	UF2		1992	08	02.36510	21	43	09.06	-02	54	11.0			9	675
1982	UF2		1992	08	06.34373	21	39	48.74	-03	05	33.4			9	675
1982	UF2		1992	08	06.38524	21	39	46.51	-03	05	40.9			9	675
1982	UE7		1992	08	05.31667	21	23	09.75	-14	03	36.3	18.8		9	675
1982	UE7		1992	08	05.39844	21	23	05.84	-14	03	55.0			9	675

1985	DX2	1992	07	27.43212	21	16	57.62	-06	22	44.8	16.0	2 675
1985	DX2	1992	07	28.43837	21	16	15.72	-06	27	55.2		2 675
1985	DX2	1992	07	28.46285	21	16	14.53	-06	28	06.0		2 675
1985	DX2	1992	08	04.34549	21	11	17.95	-07	06	02.2	17.5	9 675
1985	YH	1992	07	31.34236	21	45	29.97	+00	06	09.9	17.5	9 675
1985	YH	1992	07	31.37830	21	45	28.11	+00	06	09.5		9 675
1985	YH	1992	08	02.32188	21	43	49.29	+00	05	53.3		9 675
1985	YH	1992	08	02.36510	21	43	46.96	+00	05	52.6		9 675
1985	YH	1992	08	06.34373	21	40	17.68	+00	03	30.5		9 675
1985	YH	1992	08	06.38524	21	40	15.36	+00	03	29.1		9 675
1986	QQ	1992	06	06.26441	15	12	48.13	-24	13	45.5	18.0	9 675
1986	SZ1	1949	11	19.13194	23	58	39.80	+15	52	20.4		6 675
1986	SZ1	1949	11	19.15799	23	58	40.06	+15	52	07.1		6 675
1986	TN1	1992	06	04.26024	15	09	16.13	-16	14	41.8	17.0	9 675
1986	TN1	1992	06	04.29271	15	09	14.77	-16	14	25.6		9 675
1986	XH	1951	07	30.29028	19	34	40.14	-12	25	58.4		6 675
1986	XH	1951	07	30.31528	19	34	38.81	-12	25	58.7		6 675
1987	EV	1978	11	28.16875	00	39	59.85	+10	27	45.0	18.5	6 675
1987	EV	1978	11	29.16308	00	39	58.59	+10	25	35.8		6 675
1987	MM1	1992	08	07.35972	22	06	26.70	+00	38	53.0	16.5	9 675
1987	MM1	1992	08	07.42309	22	06	24.16	+00	38	34.4		9 675
1987	PL	1992	08	04.34549	21	37	47.84	-07	32	34.4	16.8	9 675
1987	PL	1992	08	05.31667	21	36	59.71	-07	32	55.7		9 675
1987	PL	1992	08	05.39844	21	36	55.50	-07	32	57.9		9 675
1987	PL	1992	08	07.29740	21	35	20.31	-07	33	52.0		9 675
1987	PL	1992	08	07.32986	21	35	18.53	-07	33	52.8		9 675
1987	QW1	1981	05	08.43507	15	38	51.34	-16	37	31.8	17.2 V	6 675
1987	QW1	1981	05	09.38021	15	38	05.57	-16	34	35.2		6 675
1987	SW1	1951	08	26.24028	19	32	36.50	-03	50	25.4		6 675
1987	SW1	1951	08	26.26528	19	32	35.94	-03	50	35.6		6 675
1987	SE7	1954	10	06.33021	01	19	37.49	+19	33	02.0		6 675
1987	SE7	1954	10	06.35139	01	19	35.91	+19	32	56.9		6 675
1988	AA5	1991	09	13.20573	20	34	27.95	-10	49	19.7	17.5	9 675
1988	AA5	1991	09	13.26619	20	34	26.82	-10	49	39.7		9 675
1988	BB	1949	11	19.13194	00	11	45.12	+11	49	24.9		6 675
1988	BB	1949	11	19.15799	00	11	44.85	+11	49	20.0		6 675
1988	QY	1954	10	06.33021	01	28	03.73	+21	52	09.5		6 675
1988	QY	1954	10	06.35139	01	28	03.08	+21	52	02.2		6 675
1988	RF1	1954	10	06.33021	01	27	04.78	+21	23	24.8		6 675
1988	RF1	1954	10	06.35139	01	27	03.58	+21	23	23.5		6 675
1988	RT6	1992	08	06.43490	22	41	46.93	+01	43	21.0	16.8	9 675
1988	RT6	1992	08	06.48056	22	41	45.47	+01	42	57.1		9 675
1988	RU6	1992	08	04.34549	21	14	18.42	-13	12	27.4	17.8	9 675
1988	RB12	1992	08	06.35833	22	22	26.90	-15	54	02.0		9 675
1988	RB12	1992	08	06.39757	22	22	25.15	-15	54	02.7		9 675
1988	TH1	1951	07	30.31528	19	40	52.76	-09	28	23.2		6 675
1988	TQ4	1992	08	02.37118	22	08	13.24	-12	02	50.0	17.5	9 675
1988	TQ4	1992	08	06.36493	22	05	23.12	-12	20	38.2		9 675
1988	TQ4	1992	08	06.40416	22	05	21.31	-12	20	49.2		9 675
1988	VK	1991	09	14.29740	22	31	51.70	-19	18	39.6		9 675
1988	VK	1991	09	14.34705	22	31	49.26	-19	18	56.4		9 675
1988	XK1	1977	12	07.26979	04	54	24.95	+22	47	13.2	16.5 V	6 675
1988	XK1	1977	12	08.22292	04	53	17.34	+22	46	34.9		6 675
1989	AK	1977	12	07.26979	04	49	47.80	+20	20	04.4	15.0 V	6 675
1989	AK	1977	12	08.22292	04	48	56.64	+20	21	09.5		6 675
1989	AV2	1987	11	22.48194	05	47	57.03	+33	17	26.0	17.5	3 675
1989	AV2	1987	11	22.52569	05	47	55.54	+33	17	22.7		3 675
1989	AV2	1987	11	23.51961	05	47	22.59	+33	16	09.2		3 675
1989	AV2	1988	01	19.20642	05	13	41.96	+30	39	07.8	17.5	3 675

1989	AV2	1988	01	20.25434	05	13	18.98	+30	35	16.3		3 675
1989	AV2	1988	01	20.29583	05	13	18.11	+30	35	07.8		3 675
1989	AV2	1992	04	04.31649	13	20	44.33	-32	47	05.5	18.3	3 675
1989	AV2	1992	04	04.35503	13	20	42.93	-32	47	00.9		3 675
1989	EV	1991	09	16.27778	22	21	12.61	-25	54	50.5	16.8	9 675
1989	EV	1991	09	16.32500	22	21	10.27	-25	54	49.8		9 675
1989	GB1	1951	07	30.29028	19	55	54.94	-13	08	52.5		6 675
1989	GB1	1951	07	30.31528	19	55	53.69	-13	08	54.8		6 675
1989	PE	1951	08	26.22292	19	26	09.42	-06	14	35.5	17.8	6 675
1989	PE	1951	08	26.26528	19	26	08.95	-06	15	45.7		6 675
1989	WH4	1992	08	02.32882	22	13	51.39	-12	14	51.1	18.0	9 675
1989	WH4	1992	08	02.37118	22	13	49.43	-12	15	09.3		9 675
1989	WH4	1992	08	06.36493	22	10	49.66	-12	43	37.6		9 675
1989	WH4	1992	08	06.40416	22	10	47.76	-12	43	54.9		9 675
1989	YN	1992	08	02.34566	22	36	13.87	-01	42	18.0	17.0	9 675
1989	YN	1992	08	02.38559	22	36	12.31	-01	42	20.7		9 675
1989	YN	1992	08	06.43490	22	33	36.58	-01	47	17.6	17.0	9 675
1989	YN	1992	08	06.48056	22	33	34.67	-01	47	22.1		9 675
1990	BJ	1992	07	27.30920	19	34	30.12	-15	51	34.3	16.0	2 675
1990	BJ	1992	07	27.33316	19	34	28.00	-15	51	22.9		2 675
1990	BJ	1992	07	29.30573	19	31	47.65	-15	34	39.1		2 675
1990	BJ	1992	07	29.32969	19	31	45.69	-15	34	27.9		2 675
1990	BQ1	1992	07	31.34236	21	44	20.51	+00	48	07.3		9 675
1990	BQ1	1992	07	31.37830	21	44	17.54	+00	48	35.6	16.0	9 675
1990	BQ1	1992	08	02.32188	21	41	39.75	+01	13	32.8		9 675
1990	BQ1	1992	08	02.36510	21	41	36.15	+01	14	05.3		9 675
1990	BQ1	1992	08	06.34373	21	36	02.60	+02	03	11.6		9 675
1990	BQ1	1992	08	06.38524	21	35	58.98	+02	03	42.1		9 675
1990	BZ1	1992	08	04.34549	21	35	55.81	-09	51	53.9	17.8	9 675
1990	BZ1	1992	08	05.31667	21	35	07.41	-09	55	38.8		9 675
1990	BZ1	1992	08	05.39844	21	35	03.04	-09	55	59.9		9 675
1990	BZ1	1992	08	07.29740	21	33	27.29	-10	03	33.7		9 675
1990	BZ1	1992	08	07.32986	21	33	25.52	-10	03	42.2	18.5	9 675
1990	DK	1989	01	09.36145	08	23	35.59	+12	15	04.7	17	3 675
1990	DK	1989	01	09.39531	08	23	34.40	+12	15	06.1		3 675
1990	DK	1989	01	30.29253	08	11	50.63	+12	38	59.0	17.2	3 675
1990	DK	1989	01	30.34409	08	11	48.85	+12	39	04.5		3 675
1990	DK	1989	02	02.21336	08	10	14.12	+12	43	15.7	17.5	3 675
1990	DK	1989	03	07.19063	07	57	06.73	+13	32	01.2	17.5	3 675
1990	DK	1989	03	07.23107	07	57	06.31	+13	32	04.0		3 675
1990	DK	1989	03	08.15729	07	56	55.47	+13	33	15.2		3 675
1990	DK	1989	03	08.19704	07	56	54.95	+13	33	18.0		3 675
1990	DK	1992	04	26.39479	15	17	34.18	-22	06	17.6	18.4	3 675
1990	DK	1992	04	26.42344	15	17	33.19	-22	06	13.0		3 675
1990	DK	1992	04	29.37152	15	16	05.42	-21	59	20.0		3 675
1990	DK	1992	04	29.40659	15	16	04.29	-21	59	15.2		3 675
1990	DK	1992	06	06.25451	14	57	40.73	-20	15	47.9	18.6	3 675
1990	DK	1992	06	06.29184	14	57	39.88	-20	15	43.7		3 675
1990	EO	1991	09	10.31389	22	47	51.99	+03	48	52.6	16.8	9 675
1990	EO	1991	09	10.36476	22	47	49.13	+03	48	31.4		9 675
1990	UD	1977	12	07.26979	04	46	09.79	+23	43	54.4	15.2 V	6 675
1990	UD	1977	12	08.22292	04	44	59.56	+23	45	09.3		6 675
1990	VX2	1992	06	06.26441	15	30	39.99	-25	42	56.1	18.0	9 675
1990	XK	1992	06	08.29271	15	38	20.09	-22	49	55.6	16.0	9 675
1990	XK	1992	06	08.33524	15	38	18.15	-22	49	35.9		9 675
1991	AF	1992	06	08.29271	15	33	11.19	-19	40	44.2	18.0	9 675
1991	AF	1992	06	08.33524	15	33	08.95	-19	40	30.3		9 675
1991	CA3	1992	07	27.46476	22	44	09.14	-21	00	34.4	16.5	2 675
1991	CA3	1992	07	27.48125	22	44	08.00	-21	00	31.4		2 675

1991 FF1	1992	07	26.20417	18	13	40.09	-04	05	27.2	16.5	2	675
1991 FF1	1992	07	26.22691	18	13	39.21	-04	05	33.3		2	675
1991 FF1	1992	07	28.24948	18	12	26.69	-04	16	18.5		2	675
1991 FF1	1992	07	28.27101	18	12	25.88	-04	16	24.9		2	675
1991 JE1	1992	08	06.35174	21	56	45.42	-02	26	36.2	17.0	9	675
1991 JE1	1992	08	06.39149	21	56	43.75	-02	26	49.4		9	675
1991 JE1	1992	08	06.41024	21	56	42.95	-02	26	55.2	16.8	9	675
1991 JE1	1992	08	06.45399	21	56	41.22	-02	27	09.6		9	675
1991 JE1	1992	08	07.34688	21	56	05.84	-02	32	15.7		9	675
1991 JE1	1992	08	07.35972	21	56	05.23	-02	32	20.5	16.8	9	675
1991 JE1	1992	08	07.38194	21	56	04.41	-02	32	28.0		9	675
1991 JE1	1992	08	07.42309	21	56	02.64	-02	32	42.1		9	675
1991 LD	1951	07	30.29028	19	33	48.45	-13	55	43.1		6	675
1991 LD	1951	07	30.31528	19	33	47.35	-13	55	45.4		6	675
1991 LD	1992	08	02.34566	22	38	51.27	+01	00	47.5	17.0	9	675
1991 LD	1992	08	02.38559	22	38	49.95	+01	00	44.7		9	675
1991 LD	1992	08	06.43490	22	36	36.75	+00	53	16.9	17.0	9	675
1991 LD	1992	08	06.48056	22	36	35.11	+00	53	11.3		9	675
1991 NY	1991	09	13.29080	20	56	35.34	-09	49	07.9		9	675
1991 NY	1991	09	14.22390	20	56	53.98	-09	54	19.4		9	675
1991 NY	1991	09	14.26053	20	56	54.63	-09	54	32.7		9	675
1991 NE1	1991	09	13.23385	21	00	38.72	-12	45	53.0		9	675
1991 NE1	1991	09	13.29080	21	00	37.11	-12	45	53.1		9	675
1991 NE1	1991	09	14.22390	21	00	13.23	-12	46	25.0		9	675
1991 NE1	1991	09	14.26053	21	00	12.28	-12	46	24.5		9	675
1991 NS1	1991	09	13.20573	20	41	55.29	-13	10	02.0	17.5	9	675
1991 NS1	1991	09	13.23385	20	41	55.25	-13	10	11.5		9	675
1991 NS1	1991	09	13.26619	20	41	55.25	-13	10	23.9		9	675
1991 NS1	1991	09	13.29080	20	41	55.34	-13	10	31.7		9	675
1991 NS1	1991	09	14.22390	20	41	59.09	-13	15	56.8		9	675
1991 NS1	1991	09	14.26053	20	41	59.13	-13	16	08.6		9	675
1991 NV1	1991	09	13.20573	20	31	53.82	-09	02	53.4	17.8	9	675
1991 NV1	1991	09	13.26619	20	31	52.82	-09	03	05.6		9	675
1991 NP2	1991	09	13.20573	20	35	10.08	-16	36	09.6	17.2	9	675
1991 NP2	1991	09	13.26619	20	35	09.69	-16	35	55.8		9	675
1991 NT2	1991	09	12.20822	21	26	01.21	+00	36	37.5	16.5	9	675
1991 NT2	1991	09	12.26152	21	25	59.07	+00	36	31.0		9	675
1991 OO	1991	09	13.23385	21	09	35.83	-09	22	53.7		9	675
1991 OO	1991	09	13.29080	21	09	35.14	-09	23	05.8		9	675
1991 OO	1991	09	14.22390	21	09	26.39	-09	26	44.3		9	675
1991 PA	1991	09	13.23385	21	03	35.00	-14	08	19.3		9	675
1991 PA	1991	09	13.29080	21	03	34.34	-14	08	14.0		9	675
1991 PA	1991	09	14.22390	21	03	26.96	-14	06	46.4		9	675
1991 PA	1991	09	14.26053	21	03	26.57	-14	06	44.1		9	675
1991 PQ	1991	09	13.20573	20	47	24.03	-11	16	07.1	17.0	9	675
1991 PQ	1991	09	13.23385	20	47	23.38	-11	16	07.5		9	675
1991 PQ	1991	09	13.26619	20	47	22.41	-11	16	04.8		9	675
1991 PQ	1991	09	13.29080	20	47	21.76	-11	16	03.3		9	675
1991 PQ	1991	09	14.22390	20	46	57.56	-11	15	24.6		9	675
1991 PQ	1991	09	14.26053	20	46	56.57	-11	15	23.2		9	675
1991 PS	1991	09	13.20573	20	43	52.23	-12	47	32.0	17.5	9	675
1991 PS	1991	09	13.23385	20	43	51.60	-12	47	35.0		9	675
1991 PS	1991	09	13.26619	20	43	50.74	-12	47	39.3		9	675
1991 PS	1991	09	13.29080	20	43	50.18	-12	47	40.6		9	675
1991 PS	1991	09	14.22390	20	43	30.32	-12	49	18.9		9	675
1991 PS	1991	09	14.26053	20	43	29.51	-12	49	22.4		9	675
1991 PV	1991	09	13.23385	21	06	35.91	-12	55	50.0		9	675
1991 PV	1991	09	13.29080	21	06	35.23	-12	55	58.8		9	675
1991 PW	1991	09	13.23385	21	05	13.38	-10	29	46.9		9	675

1991	PW		1991	09	13.29080	21	05	12.68	-10	29	53.2			9	675
1991	PW		1991	09	14.22390	21	05	05.14	-10	31	21.1			9	675
1991	PW		1991	09	14.26053	21	05	04.77	-10	31	24.1			9	675
1991	PT1		1991	09	13.23385	21	02	16.16	-13	03	50.8	18.2		9	675
1991	PT1		1991	09	13.29080	21	02	14.62	-13	04	02.5	18.8		9	675
1991	PU8		1991	09	14.22390	20	49	02.19	-10	56	30.8			9	675
1991	PU8		1991	09	14.26053	20	49	01.42	-10	56	33.5			9	675
1991	PX8		1991	09	13.23385	20	55	57.70	-10	23	26.9			9	675
1991	PX8		1991	09	13.29080	20	55	56.14	-10	23	38.2			9	675
1991	PX8		1991	09	14.22390	20	55	33.71	-10	26	47.3			9	675
1991	PX8		1991	09	14.26053	20	55	32.84	-10	26	54.5			9	675
1991	PG9		1991	09	13.23385	20	50	07.14	-09	03	31.5			9	675
1991	PG9		1991	09	13.29080	20	50	06.47	-09	03	55.8			9	675
1991	PG9		1991	09	14.22390	20	49	58.68	-09	10	17.5			9	675
1991	PG9		1991	09	14.26053	20	49	58.36	-09	10	32.5			9	675
1991	PE10		1954	10	06.33021	01	31	35.69	+20	37	15.7			6	675
1991	PE10		1954	10	06.35139	01	31	34.36	+20	37	16.1			6	675
1991	PP10		1991	09	10.31389	23	05	47.05	+05	40	53.5	17.5		9	675
1991	PP10		1991	09	10.36476	23	05	43.67	+05	40	55.5			9	675
1991	PF11		1991	09	10.31389	22	45	12.08	+04	31	52.5	17.5		9	675
1991	PF11		1991	09	10.36476	22	45	09.41	+04	31	40.1			9	675
1991	PA12		1991	09	10.31389	22	40	03.70	+02	02	44.3	16.5		9	675
1991	PA12		1991	09	10.36476	22	40	00.95	+02	02	26.4			9	675
1991	PB12		1991	09	10.31389	22	45	18.38	+04	49	16.9	17.0		9	675
1991	PB12		1991	09	10.36476	22	45	16.10	+04	49	01.8			9	675
1991	PC12		1991	09	10.31389	22	51	00.31	+02	26	14.4	17.0		9	675
1991	PC12		1991	09	10.36476	22	50	58.38	+02	25	28.2			9	675
1991	PD12		1991	09	10.31389	22	52	38.54	+00	29	43.6	17.2		9	675
1991	PD12		1991	09	10.36476	22	52	36.46	+00	29	03.5			9	675
1991	PE12		1991	09	10.31389	22	50	17.01	+06	19	41.4	18.0		9	675
1991	PE12		1991	09	10.36476	22	50	14.52	+06	19	29.3			9	675
1991	PF12		1991	09	10.31389	22	47	58.84	+06	59	40.7	17.2		9	675
1991	PF12		1991	09	10.36476	22	47	56.11	+06	59	30.0			9	675
1991	PH12		1991	09	10.31389	22	54	08.96	+08	34	59.8	17.2		9	675
1991	PH12		1991	09	10.36476	22	54	06.42	+08	34	51.3			9	675
1991	PJ12		1991	09	10.31389	22	58	59.69	+07	40	26.2	17.5		9	675
1991	PJ12		1991	09	10.36476	22	58	57.29	+07	40	13.1			9	675
1991	PK12		1991	09	10.31389	23	01	25.10	+08	14	03.8	17.5		9	675
1991	PK12		1991	09	10.36476	23	01	22.76	+08	13	44.0			9	675
1991	PW14		1991	09	12.20822	21	42	29.72	+00	32	54.5	17.8		9	675
1991	PW14		1991	09	12.26152	21	42	26.94	+00	32	59.5			9	675
1991	PG17		1991	09	12.20822	21	29	11.30	-04	26	13.0	17.2		9	675
1991	PG17		1991	09	12.26152	21	29	08.91	-04	26	13.1			9	675
1991	PN18		1991	09	10.31389	22	52	41.22	+01	33	41.6	16.2		9	675
1991	PN18		1991	09	10.36476	22	52	37.97	+01	33	26.3			9	675
1991	PU19	*	1991	08	08.43003	23	19	11.87	+02	44	19.9	17.8		9	675
1991	PU19		1991	08	08.46441	23	19	11.21	+02	44	25.0			9	675
1991	PU19		1991	09	10.31389	22	57	33.50	+02	41	19.2	17.2		9	675
1991	PU19		1991	09	10.36476	22	57	30.87	+02	41	10.8			9	675
1991	RJ5		1977	12	07.26979	04	49	15.20	+20	59	08.9	16.5	V	6	675
1991	RJ5		1977	12	08.22292	04	48	20.40	+20	58	45.9			6	675
1991	RB12		1991	09	13.23385	20	57	26.71	-15	14	51.4			9	675
1991	RB12		1991	09	14.22390	20	56	55.57	-15	12	43.2			9	675
1991	RB12		1991	09	14.26053	20	56	54.37	-15	12	38.9			9	675
1991	RA25		1991	09	14.29740	22	37	12.31	-18	09	11.2	17.8		9	675
1991	RA25		1991	09	14.34705	22	37	09.70	-18	09	19.7			9	675
1991	RY29		1991	09	10.31389	22	37	03.26	+02	19	26.1	18.2		9	675
1991	RY29		1991	09	10.36476	22	37	00.26	+02	19	12.0			9	675
1991	RY29	*	1991	09	12.28472	22	35	10.12	+02	10	14.1	18.2		9	675

1991	RY29		1991	09	12.32465	22	35	07.62	+02	10	04.0	17.5	9	675
1991	RZ29		1991	09	14.29740	22	18	30.85	-22	18	01.1	17.2	9	675
1991	RZ29		1991	09	14.34705	22	18	29.17	-22	18	17.6		9	675
1991	RZ29	*	1991	09	15.26059	22	18	00.90	-22	23	18.8	17.5	9	675
1991	RZ29		1991	09	15.31203	22	17	59.09	-22	23	35.4		9	675
1991	RZ29		1991	09	16.27778	22	17	29.98	-22	28	39.9	17.5	9	675
1991	RZ29		1991	09	16.32500	22	17	28.53	-22	28	54.0		9	675
1991	RA30		1991	09	14.29740	22	19	37.32	-20	42	56.2	16.8	9	675
1991	RA30		1991	09	14.34705	22	19	34.89	-20	43	08.7	17.2	9	675
1991	RA30	*	1991	09	15.26059	22	18	53.78	-20	47	06.9	17.5	9	675
1991	RA30		1991	09	15.26962	22	18	53.36	-20	47	09.0	17.2	9	675
1991	RA30		1991	09	15.31203	22	18	51.35	-20	47	20.3	16.8	9	675
1991	RA30		1991	09	15.32083	22	18	50.92	-20	47	22.4		9	675
1991	RA30		1991	09	16.27778	22	18	08.85	-20	51	19.2	17.2	9	675
1991	RA30		1991	09	16.32500	22	18	06.72	-20	51	29.7		9	675
1991	RB30		1991	09	14.29740	22	20	41.93	-18	53	00.5	17.2	9	675
1991	RB30		1991	09	14.34705	22	20	39.58	-18	53	10.7		9	675
1991	RB30	*	1991	09	15.26059	22	19	59.56	-18	56	31.3	16.8	9	675
1991	RB30		1991	09	15.26962	22	19	59.17	-18	56	33.3	17.0	9	675
1991	RB30		1991	09	15.31203	22	19	57.27	-18	56	44.5		9	675
1991	RB30		1991	09	15.32083	22	19	56.85	-18	56	44.8		9	675
1991	RC30		1991	09	14.29740	22	21	19.88	-19	15	59.6	18.2	9	675
1991	RC30		1991	09	14.34705	22	21	17.38	-19	16	03.6		9	675
1991	RC30	*	1991	09	15.26059	22	20	33.87	-19	17	38.2	17.8	9	675
1991	RC30		1991	09	15.26962	22	20	33.42	-19	17	39.1	18.0	9	675
1991	RC30		1991	09	15.31203	22	20	31.39	-19	17	44.3		9	675
1991	RC30		1991	09	15.32083	22	20	30.97	-19	17	43.0		9	675
1991	RD30		1991	09	14.29740	22	22	48.90	-18	47	09.4	18.2	9	675
1991	RD30		1991	09	14.34705	22	22	46.36	-18	47	19.6		9	675
1991	RD30	*	1991	09	15.26059	22	22	04.04	-18	50	46.6	17.8	9	675
1991	RD30		1991	09	15.31203	22	22	01.58	-18	50	59.3		9	675
1991	RE30		1991	09	14.29740	22	22	43.36	-20	42	08.4	17.2	9	675
1991	RE30		1991	09	14.34705	22	22	41.27	-20	42	16.0		9	675
1991	RE30	*	1991	09	15.26059	22	22	05.08	-20	44	43.2		9	675
1991	RE30		1991	09	15.26962	22	22	05.04	-20	44	42.6		9	675
1991	RE30		1991	09	15.31203	22	22	03.04	-20	44	48.8	16.8	9	675
1991	RE30		1991	09	15.32083	22	22	02.62	-20	44	49.5	17.2	9	675
1991	RE30		1991	09	16.27778	22	21	25.43	-20	47	12.5	17.2	9	675
1991	RE30		1991	09	16.32500	22	21	23.58	-20	47	19.5		9	675
1991	RF30		1991	09	14.29740	22	23	17.36	-19	49	24.6	17.0	9	675
1991	RF30		1991	09	14.34705	22	23	14.66	-19	49	11.1		9	675
1991	RF30	*	1991	09	15.26059	22	22	28.85	-19	45	13.7	17.2	9	675
1991	RF30		1991	09	15.31203	22	22	26.18	-19	45	00.5		9	675
1991	RG30		1991	09	14.29740	22	29	01.38	-18	54	26.8	17.2	9	675
1991	RG30		1991	09	14.34705	22	28	58.96	-18	54	42.0		9	675
1991	RG30	*	1991	09	15.26059	22	28	18.31	-18	59	32.7	17.2	9	675
1991	RG30		1991	09	15.31203	22	28	15.90	-18	59	48.9		9	675
1991	RH30		1991	09	14.29740	22	30	43.07	-21	33	47.9	17.5	9	675
1991	RH30		1991	09	14.34705	22	30	40.70	-21	33	39.9		9	675
1991	RH30	*	1991	09	15.26059	22	30	01.29	-21	31	15.0	17.5	9	675
1991	RH30		1991	09	15.31203	22	29	58.86	-21	31	06.0		9	675
1991	RJ30		1991	09	14.29740	22	32	40.15	-23	20	31.1	17.8	9	675
1991	RJ30		1991	09	14.34705	22	32	38.16	-23	20	56.6	17.2	9	675
1991	RJ30	*	1991	09	15.26059	22	32	06.11	-23	28	37.9	17.8	9	675
1991	RJ30		1991	09	15.31203	22	32	04.05	-23	29	04.4	17.2	9	675
1991	RK30		1991	09	14.29740	22	35	22.74	-20	40	59.0	17.2	9	675
1991	RK30		1991	09	14.34705	22	35	19.80	-20	40	47.0		9	675
1991	RK30	*	1991	09	15.26059	22	34	29.88	-20	37	24.2	17.2	9	675
1991	RK30		1991	09	15.31203	22	34	27.00	-20	37	12.4		9	675

1991	RL30		1991	09	14.29740	22	37	50.62	-19 13 01.4	17.5	9 675
1991	RL30		1991	09	14.34705	22	37	47.40	-19 12 43.6		9 675
1991	RL30	*	1991	09	15.26059	22	36	51.48	-19 07 21.5	17.5	9 675
1991	RL30		1991	09	15.31203	22	36	48.20	-19 07 03.1	17.0	9 675
1991	RM30		1991	09	14.29740	22	38	06.51	-18 38 44.3	17.2	9 675
1991	RM30		1991	09	14.34705	22	38	03.44	-18 38 38.3		9 675
1991	RM30	*	1991	09	15.26059	22	37	11.15	-18 36 48.9	17.2	9 675
1991	RM30		1991	09	15.31203	22	37	08.07	-18 36 43.3		9 675
1991	RN30		1991	09	14.29740	22	38	24.22	-18 06 53.2	17.8	9 675
1991	RN30		1991	09	14.34705	22	38	21.93	-18 06 52.1		9 675
1991	RN30	*	1991	09	15.26059	22	37	41.05	-18 06 49.6	17.5	9 675
1991	RN30		1991	09	15.31203	22	37	38.67	-18 06 49.1		9 675
1991	RO30		1991	09	14.29740	22	38	59.69	-18 50 51.0	17.2	9 675
1991	RO30		1991	09	14.34705	22	38	56.79	-18 50 47.8		9 675
1991	RO30	*	1991	09	15.26059	22	38	08.26	-18 49 56.3	17.0	9 675
1991	RO30		1991	09	15.31203	22	38	05.26	-18 49 53.7		9 675
1991	RP30		1991	09	14.29740	22	46	05.80	-18 10 01.6	17.2	9 675
1991	RP30		1991	09	14.34705	22	46	03.21	-18 10 09.6		9 675
1991	RP30	*	1991	09	15.26059	22	45	19.81	-18 12 46.1	17.2	9 675
1991	RP30		1991	09	15.31203	22	45	17.14	-18 12 54.8		9 675
1991	RQ30		1991	09	14.29740	22	48	22.94	-20 35 06.1	16.2	9 675
1991	RQ30		1991	09	14.34705	22	48	20.55	-20 35 13.6		9 675
1991	RQ30	*	1991	09	15.26059	22	47	40.86	-20 37 29.3	16.2	9 675
1991	RQ30		1991	09	15.31203	22	47	38.41	-20 37 36.6		9 675
1991	RR30	*	1991	09	15.26962	21	55	29.37	-20 46 30.4	18.0	9 675
1991	RR30		1991	09	15.32083	21	55	27.35	-20 46 31.3		9 675
1991	RR30		1991	09	16.27778	21	54	51.71	-20 46 54.9	17.8	9 675
1991	RR30		1991	09	16.32500	21	54	49.38	-20 46 51.7		9 675
1991	RS30	*	1991	09	15.26962	22	12	03.45	-19 34 19.7	17.2	9 675
1991	RS30		1991	09	15.32083	22	12	00.20	-19 34 01.4		9 675
1991	RS30		1991	09	16.27778	22	11	03.82	-19 28 40.5	17.5	9 675
1991	RS30		1991	09	16.32500	22	11	00.96	-19 28 24.6		9 675
1991	RT30		1991	09	14.29740	22	17	34.87	-19 11 25.7	16.5	9 675
1991	RT30		1991	09	14.34705	22	17	32.72	-19 11 34.9		9 675
1991	RT30	*	1991	09	15.26962	22	16	58.24	-19 14 37.7	16.2	9 675
1991	RT30		1991	09	15.32083	22	16	56.16	-19 14 47.2		9 675
1991	RU30		1991	09	10.30260	22	36	09.83	-09 55 37.2	17.8	9 675
1991	RU30		1991	09	10.35573	22	36	07.06	-09 55 58.6		9 675
1991	RV30		1991	09	11.29878	23	10	24.69	-07 04 46.0	18.5	9 675
1991	RV30		1991	09	11.35451	23	10	21.36	-07 05 12.6	17.8	9 675
1991	RW30		1991	09	11.29878	23	11	18.01	-06 30 29.1	17.5	9 675
1991	RW30		1991	09	11.35451	23	11	14.27	-06 30 39.1		9 675
1991	RX30		1991	09	11.29878	23	12	23.10	-06 52 24.6	17.8	9 675
1991	RX30		1991	09	11.35451	23	12	19.69	-06 52 30.3		9 675
1991	RY30		1991	09	16.28715	22	59	41.24	-08 56 43.1	18.8	9 675
1991	RY30		1991	09	16.33368	22	59	38.79	-08 56 47.8	18.2	9 675
1991	RZ30		1991	09	16.31007	23	07	00.56	-08 03 00.9	17.5	9 675
1991	RZ30		1991	09	16.35521	23	06	58.26	-08 03 17.1		9 675
1991	RA31		1991	09	16.28715	22	46	02.92	-06 11 05.2	17.5	9 675
1991	RA31		1991	09	16.30035	22	46	02.56	-06 11 16.7	17.5	9 675
1991	RA31		1991	09	16.33368	22	46	01.57	-06 11 52.4		9 675
1991	RA31		1991	09	16.34583	22	46	01.27	-06 12 03.5		9 675
1991	RB31		1991	09	11.29878	23	08	35.06	-04 40 13.5	17.5	9 675
1991	RB31		1991	09	11.35451	23	08	31.71	-04 40 22.5		9 675
1991	RC31		1991	09	11.29878	23	15	06.97	-04 38 34.7	16.8	9 675
1991	RC31		1991	09	11.35451	23	15	03.89	-04 38 46.1	17.5	9 675
1991	RD31		1991	09	11.29878	23	15	46.16	-04 46 10.5	18.0	9 675
1991	RD31		1991	09	11.35451	23	15	43.71	-04 46 36.6		9 675
1991	RE31		1991	09	11.29878	23	11	58.73	-03 29 14.8	18.2	9 675

1991	RE31		1991	09	11.35451	23	11	56.13	-03	29	44.9		9	675
1991	RF31	*	1991	09	11.29878	23	12	38.60	-01	50	54.8	17.5	9	675
1991	RF31		1991	09	11.35451	23	12	35.60	-01	51	14.9		9	675
1991	RG31		1991	09	17.34861	23	45	23.21	+01	37	28.5	17.8	9	675
1991	RG31		1991	09	17.38229	23	45	21.52	+01	37	17.2		9	675
1991	RH31	*	1991	09	15.41753	00	17	30.09	-03	38	00.2	18.0	9	675
1991	RH31		1991	09	15.46424	00	17	27.93	-03	38	29.6		9	675
1991	SN1		1951	07	30.29028	19	55	31.13	-09	03	11.9		6	675
1991	SN1		1951	07	30.31528	19	55	29.50	-09	03	18.0		6	675
1991	SJ2		1991	09	10.31389	22	52	54.08	+01	28	14.0	17.5	9	675
1991	SJ2		1991	09	10.36476	22	52	50.87	+01	28	17.7		9	675
1991	SC4		1991	09	10.31389	22	46	57.49	+01	45	17.9	17.0	9	675
1991	SC4		1991	09	10.36476	22	46	54.31	+01	45	11.5		9	675
1991	SC4	*	1991	09	16.30035	22	41	15.97	+01	32	32.8	17.0	9	675
1991	SC4		1991	09	16.34583	22	41	13.28	+01	32	26.9		9	675
1991	TB		1991	09	16.27778	22	03	35.02	-23	52	02.0	18.2	9	675
1991	TB		1991	09	16.32500	22	03	32.47	-23	51	54.0		9	675
1992	CD		1978	10	27.30539	01	05	36.48	+09	37	57.6	17.5	6	675
1992	CD		1978	10	28.29411	01	04	55.74	+09	33	58.2		6	675
1992	CD		1978	10	29.30729	01	04	14.62	+09	29	54.3		6	675
1992	CD		1978	11	28.16875	00	51	14.63	+08	05	14.9	18.5	6	675
1992	CD		1978	11	29.16308	00	51	06.05	+08	04	01.2		6	675
1992	KF		1992	06	08.29271	15	43	25.63	-19	58	46.2	17.2	9	675
1992	KF		1992	06	08.33524	15	43	23.05	-19	59	00.8		9	675
1992	LG		1992	06	04.26024	15	22	45.27	-14	14	07.3	17.0	9	675
1992	LG		1992	06	04.29271	15	22	43.63	-14	14	03.2		9	675
1992	LK		1992	06	08.29271	15	29	34.38	-16	48	54.4	17.0	9	675
1992	LM		1992	06	08.29271	15	35	33.79	-17	18	03.1	17.5	9	675
1992	LP		1992	06	08.29271	15	40	06.97	-16	26	10.8	17.5	9	675
1992	LP		1992	06	08.33524	15	40	04.52	-16	26	07.1		9	675
1992	LQ		1992	06	08.29271	15	44	14.52	-16	18	59.4	17.8	9	675
1992	LQ		1992	06	08.33524	15	44	12.51	-16	19	04.0		9	675
1992	LR		1992	08	02.23941	19	18	50.02	+04	58	52.7	14.5	3	675
1992	LR		1992	08	03.27847	19	27	07.81	+05	15	23.0		3	675
1992	LR		1992	08	03.30642	19	27	20.09	+05	15	49.9		3	675
1992	MA		1992	07	02.24479	17	17	18.41	-22	31	54.3	16	2	675
1992	MA		1992	07	02.29514	17	17	16.00	-22	31	55.4		2	675
1992	ML		1992	06	06.26441	15	25	54.29	-22	13	06.6		9	675
1992	ML		1992	06	06.29931	15	25	52.30	-22	12	59.0	17.8	9	675
1992	MM		1992	06	04.26024	15	31	22.00	-18	14	35.1	17.2	9	675
1992	MM		1992	06	04.29271	15	31	20.31	-18	14	32.7		9	675
1992	MM		1992	06	08.33524	15	28	01.00	-18	09	28.3	17.0	9	675
1992	NF		1992	07	26.20972	18	29	26.63	-16	18	19.3	16.5	2	675
1992	NF		1992	07	26.23247	18	29	25.86	-16	18	27.7		2	675
1992	NF		1992	07	28.27691	18	28	14.93	-16	29	38.4		2	675
1992	NF		1992	07	28.30260	18	28	13.95	-16	29	45.9		2	675
1992	NR		1992	06	29.43038	21	24	00.62	-07	37	27.2	18.0	3	675
1992	NR		1992	06	29.45763	21	24	00.29	-07	37	35.4		3	675
1992	NR		1992	06	30.43877	21	23	46.27	-07	42	25.5		3	675
1992	NR		1992	06	30.46441	21	23	45.77	-07	42	32.1		3	675
1992	NS	*	1992	07	02.39358	18	32	35.24	-05	30	14.7	16.0	2	675
1992	NS		1992	07	02.41771	18	32	33.99	-05	30	11.4		2	675
1992	NS		1992	07	05.28958	18	30	09.86	-05	24	50.2		2	675
1992	NS		1992	07	05.30885	18	30	08.86	-05	24	47.8		2	675
1992	NS		1992	07	26.20417	18	16	11.78	-05	37	09.0	16.0	2	675
1992	NS		1992	07	26.22691	18	16	11.09	-05	37	12.4		2	675
1992	NS		1992	07	28.27101	18	15	20.53	-05	42	38.9		2	675
1992	OK		1992	07	31.34236	21	24	39.70	+00	06	23.8	16.5	9	675
1992	OK		1992	07	31.37830	21	24	38.22	+00	06	33.2		9	675

1992	OK		1992	08	02.32188	21	23	25.24	+00	12	36.1			9	675
1992	OK		1992	08	02.36510	21	23	23.38	+00	12	43.5			9	675
1992	OK		1992	08	06.34373	21	20	44.37	+00	22	01.2			9	675
1992	OK		1992	08	06.38524	21	20	42.38	+00	22	08.6			9	675
1992	OM		1992	07	31.39931	22	31	26.10	-08	29	38.8	16.0	V	3	675
1992	OM		1992	07	31.43073	22	31	25.66	-08	28	45.4			3	675
1992	OM		1992	08	03.36215	22	30	57.59	-07	06	27.7			3	675
1992	OM		1992	08	03.40000	22	30	56.75	-07	05	24.9			3	675
1992	OM		1992	08	06.41632	22	30	04.59	-05	43	46.2			3	675
1992	OM		1992	08	06.46146	22	30	03.25	-05	42	34.5			3	675
1992	OT	*	1992	07	26.20417	18	13	40.96	-04	42	17.1	16.0		2	675
1992	OT		1992	07	26.22691	18	13	40.18	-04	42	29.2			2	675
1992	OT		1992	07	28.24948	18	12	44.94	-05	04	12.8			2	675
1992	OT		1992	07	28.27101	18	12	44.32	-05	04	25.8			2	675
1992	OU	*	1992	07	26.20417	18	18	57.45	-02	46	05.2	16.5		2	675
1992	OU		1992	07	26.22691	18	18	56.33	-02	46	20.9			2	675
1992	OU		1992	07	28.24948	18	17	45.07	-03	10	09.9			2	675
1992	OU		1992	07	28.27101	18	17	44.38	-03	10	25.9			2	675
1992	OY		1992	07	26.33090	20	23	37.59	-06	17	48.4	16.0		2	675
1992	OY		1992	07	26.35694	20	23	35.54	-06	17	36.7			2	675
1992	OY	*	1992	07	26.39722	20	23	32.48	-06	17	20.0	16.0		2	675
1992	OY		1992	07	26.42101	20	23	30.49	-06	17	09.5			2	675
1992	OY		1992	07	28.38628	20	21	04.82	-06	02	55.8			2	675
1992	OY		1992	07	28.41076	20	21	03.05	-06	02	46.5			2	675
1992	OZ	*	1992	07	26.39722	20	36	22.41	-08	55	17.1	15.5		2	675
1992	OZ		1992	07	26.43101	20	36	20.67	-08	55	04.3			2	675
1992	OZ		1992	07	28.38628	20	34	09.32	-08	36	25.9			2	675
1992	OZ		1992	07	28.41076	20	34	07.62	-08	36	12.0			2	675
1992	OA1	*	1992	07	26.40538	20	56	26.88	-19	55	29.0	16.5		2	675
1992	OA1		1992	07	26.42917	20	56	25.26	-19	56	04.2			2	675
1992	OA1		1992	07	28.39236	20	54	36.71	-20	40	15.9			2	675
1992	OA1		1992	07	28.41649	20	54	35.48	-20	40	46.8			2	675
1992	OC1	*	1992	07	27.19080	17	59	47.94	-16	36	38.1	16.0		2	675
1992	OC1		1992	07	27.21285	17	59	47.21	-16	36	25.0			2	675
1992	OC1		1992	07	29.19601	17	58	57.56	-16	18	48.0			2	675
1992	OC1		1992	07	29.23177	17	58	56.98	-16	18	34.8			2	675
1992	OG1	*	1992	07	27.31563	19	28	00.13	-25	07	36.7	16.0		2	675
1992	OG1		1992	07	27.33889	19	27	58.86	-25	07	51.5			2	675
1992	OG1		1992	07	29.29983	19	26	23.11	-25	27	06.4			2	675
1992	OG1		1992	07	29.32344	19	26	21.89	-25	27	18.7			2	675
1992	PD		1992	08	29.32465	22	29	22.25	-10	31	50.1	16		2	675
1992	PD		1992	08	29.34809	22	29	20.92	-10	32	17.8			2	675
1992	PD		1992	08	31.30990	22	27	42.00	-11	13	06.9			2	675
1992	PD		1992	08	31.33194	22	27	40.85	-11	13	34.3			2	675
1992	PF		1992	08	04.34549	21	22	51.05	-11	13	37.3	17.0		9	675
1992	PF		1992	08	05.31667	21	22	06.89	-11	18	42.7			9	675
1992	PF		1992	08	05.39844	21	22	02.84	-11	19	08.2			9	675
1992	PF		1992	08	07.29740	21	20	35.60	-11	29	22.3			9	675
1992	PF		1992	08	07.32986	21	20	33.89	-11	29	33.5			9	675
1992	PG		1992	07	05.38993	21	37	18.95	-08	26	01.0	15.5		2	675
1992	PG		1992	07	05.42326	21	37	18.58	-08	26	08.8			2	675
1992	PG		1992	08	04.34549	21	23	07.06	-11	40	49.3	16.2		9	675
1992	PG		1992	08	05.31667	21	22	25.30	-11	49	20.7			9	675
1992	PG		1992	08	05.39844	21	22	21.56	-11	50	04.1			9	675
1992	PG		1992	08	07.29740	21	20	58.98	-12	06	55.9			9	675
1992	PG		1992	08	07.32986	21	20	57.46	-12	07	13.6			9	675
1992	PH		1992	08	04.34549	21	24	40.05	-09	48	42.7	18.0		9	675
1992	PH		1992	08	05.31667	21	23	45.08	-09	52	47.0			9	675
1992	PH		1992	08	05.39844	21	23	40.24	-09	53	08.1			9	675

1992	PH		1992	08	07.29740	21	21	52.58	-10 01 19.6		9 675
1992	PH		1992	08	07.32986	21	21	50.60	-10 01 27.6		9 675
1992	PK		1992	08	04.34549	21	27	08.71	-11 41 58.0	17.5	9 675
1992	PK		1992	08	05.31667	21	26	12.03	-11 40 36.8		9 675
1992	PK		1992	08	05.39844	21	26	06.93	-11 40 30.9		9 675
1992	PK		1992	08	07.29740	21	24	14.26	-11 38 05.2		9 675
1992	PK		1992	08	07.32986	21	24	12.15	-11 38 02.9		9 675
1992	PT		1992	08	04.34549	21	29	20.72	-13 08 02.7	18.0	9 675
1992	PT		1992	08	05.31667	21	28	34.31	-13 11 49.2		9 675
1992	PT		1992	08	05.39844	21	28	30.00	-13 12 08.6		9 675
1992	PT		1992	08	07.29740	21	26	57.74	-13 19 40.0		9 675
1992	PT		1992	08	07.32986	21	26	55.99	-13 19 47.7		9 675
1992	PU		1992	08	04.34549	21	29	40.95	-09 34 23.8	18.0	9 675
1992	PU		1992	08	05.31667	21	28	49.94	-09 38 19.6		9 675
1992	PU		1992	08	05.39844	21	28	45.35	-09 38 39.0		9 675
1992	PU		1992	08	07.29740	21	27	04.30	-09 46 39.2		9 675
1992	PU		1992	08	07.32986	21	27	02.28	-09 46 47.4		9 675
1992	PV1		1992	08	04.34549	21	40	43.03	-11 23 19.5	16.8	9 675
1992	PV1		1992	08	05.31667	21	40	01.12	-11 30 41.2		9 675
1992	PV1		1992	08	05.39844	21	39	57.27	-11 31 18.9		9 675
1992	PV1		1992	08	07.29740	21	38	33.10	-11 46 01.2		9 675
1992	PV1		1992	08	07.32986	21	38	31.51	-11 46 16.5		9 675
1992	PZ1	*	1992	08	04.34549	21	17	44.67	-08 24 34.7	16.8	9 675
1992	PZ1		1992	08	05.31667	21	17	04.83	-08 31 56.8		9 675
1992	PZ1		1992	08	05.39844	21	17	01.06	-08 32 33.7		9 675
1992	PZ1		1992	08	07.29740	21	15	42.41	-08 47 24.5		9 675
1992	PZ1		1992	08	07.32986	21	15	40.87	-08 47 39.5		9 675
1992	PA2	*	1992	08	04.34549	21	23	25.84	-13 26 51.7	17.5	9 675
1992	PA2		1992	08	05.31667	21	22	29.72	-13 25 13.7		9 675
1992	PA2		1992	08	07.29740	21	20	33.47	-13 21 58.1		9 675
1992	PA2		1992	08	07.32986	21	20	31.40	-13 21 54.4		9 675
1992	PB2	*	1992	08	04.34549	21	28	41.32	-06 12 55.6	18.0	9 675
1992	PB2		1992	08	05.31667	21	27	58.15	-06 15 08.4		9 675
1992	PB2		1992	08	05.39844	21	27	54.32	-06 15 19.5		9 675
1992	PB2		1992	08	07.29740	21	26	28.98	-06 19 56.3		9 675
1992	PB2		1992	08	07.32986	21	26	27.54	-06 20 01.8		9 675
1992	PC2		1992	07	31.34236	21	26	23.99	-01 42 45.0	17.5	9 675
1992	PC2		1992	07	31.37830	21	26	22.19	-01 42 51.6		9 675
1992	PC2	*	1992	08	02.32188	21	24	48.35	-01 49 04.5		9 675
1992	PC2		1992	08	02.36510	21	24	46.09	-01 49 13.1		9 675
1992	PC2		1992	08	06.34373	21	21	28.00	-02 04 15.2		9 675
1992	PC2		1992	08	06.38524	21	21	25.82	-02 04 25.6		9 675
1992	PD2		1992	07	31.34236	21	26	25.32	-03 22 04.9	17.0	9 675
1992	PD2		1992	07	31.37830	21	26	23.74	-03 22 12.5		9 675
1992	PD2	*	1992	08	02.32188	21	25	02.01	-03 29 26.7		9 675
1992	PD2		1992	08	02.36510	21	25	00.09	-03 29 36.6		9 675
1992	PD2		1992	08	06.34373	21	22	07.79	-03 46 18.9		9 675
1992	PD2		1992	08	06.38524	21	22	05.89	-03 46 29.2		9 675
1992	PE2		1992	07	31.34236	21	33	20.35	-04 08 55.4	17.5	9 675
1992	PE2		1992	07	31.37830	21	33	18.29	-04 08 43.6		9 675
1992	PE2	*	1992	08	02.32188	21	31	29.01	-03 59 05.1		9 675
1992	PE2		1992	08	02.36510	21	31	26.46	-03 58 53.1		9 675
1992	PE2		1992	08	06.34373	21	27	32.49	-03 40 51.5		9 675
1992	PE2		1992	08	06.38524	21	27	29.90	-03 40 41.7		9 675
1992	PF2		1992	07	31.34236	21	34	21.90	-04 25 03.7	16.8	9 675
1992	PF2		1992	07	31.37830	21	34	19.94	-04 25 12.4		9 675
1992	PF2	*	1992	08	02.32188	21	32	38.98	-04 33 52.6		9 675
1992	PF2		1992	08	02.36510	21	32	36.59	-04 34 04.8		9 675
1992	PF2		1992	08	06.34373	21	29	02.53	-04 54 02.1		9 675

1992	PF2		1992	08	06.38524	21	29	00.18	-04	54	15.6		9	675
1992	PG2		1992	07	31.34236	21	33	52.18	-00	14	05.8	17.0	9	675
1992	PG2		1992	07	31.37830	21	33	50.92	-00	14	15.8		9	675
1992	PG2	*	1992	08	02.32188	21	32	45.84	-00	23	47.5		9	675
1992	PG2		1992	08	02.36510	21	32	44.25	-00	24	01.6		9	675
1992	PG2		1992	08	06.34373	21	30	22.86	-00	46	45.8		9	675
1992	PG2		1992	08	06.38524	21	30	21.20	-00	47	01.7		9	675
1992	PH2		1992	07	31.34236	21	38	01.35	-02	19	09.2	17.2	9	675
1992	PH2		1992	07	31.37830	21	37	59.68	-02	19	08.2		9	675
1992	PH2	*	1992	08	02.32188	21	36	31.92	-02	18	32.5		9	675
1992	PH2		1992	08	02.36510	21	36	29.82	-02	18	32.2		9	675
1992	PH2		1992	08	06.34373	21	33	23.10	-02	19	02.6		9	675
1992	PH2		1992	08	06.38524	21	33	21.01	-02	19	03.6		9	675
1992	PJ2		1992	07	31.34236	21	38	15.87	-00	01	31.5	16.2	9	675
1992	PJ2		1992	07	31.37830	21	38	14.69	-00	01	36.6		9	675
1992	PJ2	*	1992	08	02.32188	21	37	16.97	-00	07	07.0		9	675
1992	PJ2		1992	08	02.36510	21	37	15.46	-00	07	15.7		9	675
1992	PJ2		1992	08	06.34373	21	35	07.02	-00	22	34.2		9	675
1992	PJ2		1992	08	06.38524	21	35	05.44	-00	22	44.6		9	675
1992	PK2		1992	07	31.34236	21	41	29.14	-04	40	04.5	17.8	9	675
1992	PK2		1992	07	31.37830	21	41	27.54	-04	40	11.0		9	675
1992	PK2	*	1992	08	02.32188	21	40	04.15	-04	45	21.1		9	675
1992	PK2		1992	08	02.36510	21	40	02.26	-04	45	26.7		9	675
1992	PK2		1992	08	06.34373	21	37	06.33	-04	57	15.2		9	675
1992	PK2		1992	08	06.35174	21	37	06.09	-04	57	17.8	18.0	9	675
1992	PK2		1992	08	06.38524	21	37	04.40	-04	57	22.7		9	675
1992	PK2		1992	08	06.39149	21	37	04.14	-04	57	24.4		9	675
1992	PK2		1992	08	07.34688	21	36	21.15	-05	00	29.8		9	675
1992	PK2		1992	08	07.38194	21	36	19.48	-05	00	35.2		9	675
1992	PL2		1992	07	31.34236	21	41	47.08	-00	07	30.2	17.8	9	675
1992	PL2		1992	07	31.37830	21	41	45.23	-00	07	25.0		9	675
1992	PL2	*	1992	08	02.32188	21	40	10.94	-00	04	02.1		9	675
1992	PL2		1992	08	02.36510	21	40	08.77	-00	03	57.6		9	675
1992	PL2		1992	08	06.34373	21	36	50.29	+00	01	32.2		9	675
1992	PL2		1992	08	06.38524	21	36	48.11	+00	01	34.7		9	675
1992	PM2		1992	07	31.34236	21	44	35.41	-03	23	09.5	17.5	9	675
1992	PM2		1992	07	31.37830	21	44	33.71	-03	23	09.6		9	675
1992	PM2	*	1992	08	02.32188	21	43	09.40	-03	24	19.0		9	675
1992	PM2		1992	08	02.36510	21	43	07.42	-03	24	20.3		9	675
1992	PM2		1992	08	06.34373	21	40	02.72	-03	29	28.7		9	675
1992	PM2		1992	08	06.35174	21	40	02.39	-03	29	30.1	17.8	9	675
1992	PM2		1992	08	06.38524	21	40	00.59	-03	29	32.9		9	675
1992	PM2		1992	08	06.39149	21	40	00.29	-03	29	34.9		9	675
1992	PM2		1992	08	07.34688	21	39	14.18	-03	31	20.3		9	675
1992	PM2		1992	08	07.38194	21	39	12.31	-03	31	25.6		9	675
1992	PN2	*	1992	08	02.34566	22	13	30.14	-00	09	25.5	17.8	9	675
1992	PN2		1992	08	02.38559	22	13	28.48	-00	09	27.0		9	675
1992	PN2		1992	08	06.43490	22	10	47.54	-00	13	15.8	17.8	9	675
1992	PN2		1992	08	06.48056	22	10	45.42	-00	13	19.1		9	675
1992	PO2	*	1992	08	02.34566	22	19	22.23	+00	54	12.4	17.5	9	675
1992	PO2		1992	08	02.38559	22	19	20.80	+00	54	08.7		9	675
1992	PO2		1992	08	06.43490	22	16	58.14	+00	43	48.7	17.5	9	675
1992	PO2		1992	08	06.48056	22	16	56.36	+00	43	41.2		9	675
1992	PP2	*	1992	08	02.34566	22	21	11.92	+02	48	19.1	17.2	9	675
1992	PP2		1992	08	02.38559	22	21	09.96	+02	48	32.5		9	675
1992	PP2		1992	08	06.43490	22	17	53.39	+03	09	04.3	17.2	9	675
1992	PP2		1992	08	06.48056	22	17	51.05	+03	09	16.0		9	675
1992	PQ2	*	1992	08	02.34566	22	22	55.08	-00	36	28.0	17.8	9	675
1992	PQ2		1992	08	02.38559	22	22	53.40	-00	36	24.3		9	675

1992	PQ2		1992	08	06.43490	22	20	03.49	-00	33	26.9	17.8	9	675
1992	PQ2		1992	08	06.48056	22	20	01.44	-00	33	24.8		9	675
1992	PR2	*	1992	08	02.34566	22	23	54.53	-00	37	25.9	17.8	9	675
1992	PR2		1992	08	02.38559	22	23	53.35	-00	37	36.5		9	675
1992	PR2		1992	08	06.43490	22	21	52.62	-00	57	17.4	17.5	9	675
1992	PR2		1992	08	06.48056	22	21	51.18	-00	57	31.4		9	675
1992	PS2	*	1992	08	02.34566	22	29	21.48	-02	12	14.2	17.5	9	675
1992	PS2		1992	08	06.43490	22	26	25.63	-02	17	48.8	17.5	9	675
1992	PS2		1992	08	06.48056	22	26	23.52	-02	17	53.7		9	675
1992	PT2	*	1992	08	02.34566	22	33	33.37	-01	21	25.7	17.5	9	675
1992	PT2		1992	08	06.43490	22	31	09.95	-01	26	08.7	17.5	9	675
1992	PT2		1992	08	06.48056	22	31	08.17	-01	26	12.4		9	675
1992	PU2	*	1992	08	02.34566	22	36	40.71	+00	38	42.7	17.8	9	675
1992	PU2		1992	08	02.38559	22	36	39.35	+00	38	36.5		9	675
1992	PU2		1992	08	06.43490	22	34	26.11	+00	25	20.4	17.8	9	675
1992	PU2		1992	08	06.48056	22	34	24.44	+00	25	11.9		9	675
1992	PV2		1992	08	02.32188	21	49	22.87	-01	39	45.2		9	675
1992	PV2		1992	08	02.36510	21	49	20.99	-01	39	45.6		9	675
1992	PV2		1992	08	06.34373	21	46	20.39	-01	40	23.0		9	675
1992	PV2		1992	08	06.35174	21	46	20.02	-01	40	22.8	17.8	9	675
1992	PV2		1992	08	06.38524	21	46	18.37	-01	40	23.4		9	675
1992	PV2		1992	08	06.39149	21	46	18.11	-01	40	24.8		9	675
1992	PV2	*	1992	08	06.41024	21	46	17.15	-01	40	22.7	17.5	9	675
1992	PV2		1992	08	06.45399	21	46	14.99	-01	40	25.0		9	675
1992	PV2		1992	08	07.34688	21	45	33.36	-01	40	54.0		9	675
1992	PV2		1992	08	07.35972	21	45	32.63	-01	40	53.8	17.2	9	675
1992	PV2		1992	08	07.38194	21	45	31.67	-01	40	57.3		9	675
1992	PV2		1992	08	07.42309	21	45	29.54	-01	40	57.0		9	675
1992	PW2	*	1992	08	06.41024	21	53	46.63	+01	23	43.3	18.0	9	675
1992	PW2		1992	08	06.45399	21	53	45.06	+01	23	37.0		9	675
1992	PW2		1992	08	07.35972	21	53	14.37	+01	21	38.0	18.0	9	675
1992	PW2		1992	08	07.42309	21	53	11.96	+01	21	28.8		9	675
1992	PX2	*	1992	08	06.41024	21	56	21.96	-00	29	22.7	17.2	9	675
1992	PX2		1992	08	06.45399	21	56	19.49	-00	29	22.0		9	675
1992	PX2		1992	08	07.35972	21	55	29.34	-00	29	14.4	17.2	9	675
1992	PX2		1992	08	07.42309	21	55	25.67	-00	29	16.4		9	675
1992	PY2	*	1992	08	06.41024	21	58	06.56	+02	46	12.6	17.0	9	675
1992	PY2		1992	08	06.45399	21	58	04.16	+02	46	16.6		9	675
1992	PY2		1992	08	07.35972	21	57	15.59	+02	47	59.3	17.0	9	675
1992	PY2		1992	08	07.42309	21	57	12.03	+02	48	06.8		9	675
1992	PZ2	*	1992	08	06.41024	21	59	28.55	+02	58	10.9	18.0	9	675
1992	PZ2		1992	08	06.45399	21	59	26.56	+02	58	08.3		9	675
1992	PZ2		1992	08	07.35972	21	58	46.23	+02	57	42.4	18.0	9	675
1992	PZ2		1992	08	07.42309	21	58	43.25	+02	57	40.0		9	675
1992	PA3	*	1992	08	06.41024	21	59	50.61	+01	48	25.9	17.2	9	675
1992	PA3		1992	08	06.45399	21	59	48.77	+01	48	06.1		9	675
1992	PA3		1992	08	07.35972	21	59	11.43	+01	41	12.9	17.2	9	675
1992	PA3		1992	08	07.42309	21	59	08.67	+01	40	44.6		9	675
1992	PB3		1992	08	06.35174	22	00	05.67	-02	52	14.9	17.0	9	675
1992	PB3		1992	08	06.39149	22	00	04.20	-02	52	23.3		9	675
1992	PB3	*	1992	08	06.41024	22	00	03.52	-02	52	27.5	17.0	9	675
1992	PB3		1992	08	06.45399	22	00	01.99	-02	52	36.4		9	675
1992	PB3		1992	08	07.34688	21	59	32.83	-02	56	04.3		9	675
1992	PB3		1992	08	07.35972	21	59	32.29	-02	56	06.9	17.0	9	675
1992	PB3		1992	08	07.38194	21	59	31.54	-02	56	12.1		9	675
1992	PB3		1992	08	07.42309	21	59	29.92	-02	56	22.1		9	675
1992	PC3	*	1992	08	06.41024	22	04	19.30	+04	08	50.6	17.0	9	675
1992	PC3		1992	08	06.45399	22	04	17.36	+04	08	54.3		9	675
1992	PC3		1992	08	07.35972	22	03	37.38	+04	10	10.0	17.0	9	675

1992	PC3		1992	08	07.42309	22	03	34.41	+04	10	14.6		9	675
1992	PD3	*	1992	08	06.41024	22	07	33.43	-03	23	16.6	17.0	9	675
1992	PD3		1992	08	06.45399	22	07	31.94	-03	23	27.3		9	675
1992	PD3		1992	08	07.35972	22	07	03.23	-03	27	19.5	17.0	9	675
1992	PD3		1992	08	07.42309	22	07	00.92	-03	27	35.5		9	675
1992	PE3		1992	08	02.34566	22	11	05.13	+01	03	52.6	17.2	9	675
1992	PE3		1992	08	02.38559	22	11	03.79	+01	03	54.4		9	675
1992	PE3	*	1992	08	06.41024	22	08	39.03	+01	06	03.1	17.2	9	675
1992	PE3		1992	08	06.43490	22	08	38.04	+01	06	04.6	17.2	9	675
1992	PE3		1992	08	06.45399	22	08	37.18	+01	06	02.9		9	675
1992	PE3		1992	08	06.48056	22	08	36.17	+01	06	04.1		9	675
1992	PE3		1992	08	07.35972	22	08	01.75	+01	05	53.5	17.2	9	675
1992	PE3		1992	08	07.42309	22	07	59.03	+01	05	53.3		9	675
1992	PF3	*	1992	08	06.34373	21	39	09.16	-05	29	33.2	16.8	9	675
1992	PF3		1992	08	06.35174	21	39	08.72	-05	29	34.5	16.5	9	675
1992	PF3		1992	08	06.38524	21	39	06.81	-05	29	32.8		9	675
1992	PF3		1992	08	06.39149	21	39	06.45	-05	29	34.4		9	675
1992	PF3		1992	08	07.34688	21	38	14.97	-05	29	40.6		9	675
1992	PF3		1992	08	07.38194	21	38	12.91	-05	29	40.6		9	675
1992	PG3	*	1992	08	06.35174	21	43	29.29	-07	05	15.7	17.2	9	675
1992	PG3		1992	08	06.39149	21	43	26.78	-07	05	16.1		9	675
1992	PG3		1992	08	07.34688	21	42	30.48	-07	05	44.2		9	675
1992	PG3		1992	08	07.38194	21	42	28.27	-07	05	45.1		9	675
1992	PH3	*	1992	08	06.35174	21	44	49.38	-05	13	39.1	17.0	9	675
1992	PH3		1992	08	06.39149	21	44	47.25	-05	13	40.8		9	675
1992	PH3		1992	08	07.34688	21	43	56.35	-05	14	32.0		9	675
1992	PH3		1992	08	07.38194	21	43	54.44	-05	14	33.5		9	675
1992	PJ3	*	1992	08	06.35174	21	50	09.58	-05	08	56.2	17.8	9	675
1992	PJ3		1992	08	06.39149	21	50	07.45	-05	08	55.6		9	675
1992	PJ3		1992	08	07.34688	21	49	18.86	-05	08	44.9		9	675
1992	PJ3		1992	08	07.38194	21	49	17.00	-05	08	44.3		9	675
1992	PK3	*	1992	08	06.35174	21	58	53.82	-06	27	26.0	17.2	9	675
1992	PK3		1992	08	06.39149	21	58	51.70	-06	27	25.1		9	675
1992	PK3		1992	08	07.34688	21	58	03.83	-06	27	08.6		9	675
1992	PK3		1992	08	07.38194	21	58	01.92	-06	27	08.3		9	675
1992	PL3	*	1992	08	06.35174	21	59	05.94	-04	18	00.4	17.5	9	675
1992	PL3		1992	08	06.39149	21	59	04.02	-04	18	13.1		9	675
1992	PL3		1992	08	07.34688	21	58	19.87	-04	24	20.4		9	675
1992	PL3		1992	08	07.38194	21	58	18.18	-04	24	34.1		9	675
1992	PM3	*	1992	08	05.41337	21	54	01.91	-20	11	41.0		9	675
1992	PM3		1992	08	05.45208	21	53	59.97	-20	11	46.3		9	675
1992	PM3		1992	08	06.35833	21	53	17.18	-20	14	28.8	17.5	9	675
1992	PM3		1992	08	06.39757	21	53	15.07	-20	14	34.3		9	675
1992	PN3	*	1992	08	05.41337	21	56	36.03	-18	39	02.7		9	675
1992	PN3		1992	08	05.45208	21	56	34.06	-18	39	15.8		9	675
1992	PN3		1992	08	06.35833	21	55	47.80	-18	43	57.0	17.8	9	675
1992	PN3		1992	08	06.39757	21	55	45.60	-18	44	08.9		9	675
1992	PO3	*	1992	08	05.41337	21	58	08.32	-18	52	53.1		9	675
1992	PO3		1992	08	05.45208	21	58	06.83	-18	53	16.2		9	675
1992	PO3		1992	08	06.35833	21	57	33.46	-19	02	23.8	17.5	9	675
1992	PO3		1992	08	06.39757	21	57	31.80	-19	02	45.9		9	675
1992	PP3	*	1992	08	05.41337	21	59	33.48	-17	39	00.0		9	675
1992	PP3		1992	08	05.45208	21	59	31.21	-17	38	59.6		9	675
1992	PP3		1992	08	06.35833	21	58	38.92	-17	38	16.2	17.5	9	675
1992	PP3		1992	08	06.39757	21	58	36.40	-17	38	13.7		9	675
1992	PQ3	*	1992	08	05.41337	21	59	57.67	-17	37	00.2		9	675
1992	PQ3		1992	08	05.45208	21	59	55.86	-17	37	17.9		9	675
1992	PQ3		1992	08	06.35833	21	59	15.73	-17	44	17.5	17.5	9	675
1992	PQ3		1992	08	06.39757	21	59	13.72	-17	44	34.8		9	675

1992	PR3	*	1992	08	05.41337	22	03	27.48	-18	02	01.3		9	675
1992	PR3		1992	08	05.45208	22	03	24.93	-18	02	07.6		9	675
1992	PR3		1992	08	06.35833	22	02	28.60	-18	04	38.8	17.5	9	675
1992	PR3		1992	08	06.39757	22	02	25.96	-18	04	47.2		9	675
1992	PS3	*	1992	08	05.41337	22	07	35.06	-20	01	54.8		9	675
1992	PS3		1992	08	05.45208	22	07	33.30	-20	02	12.7		9	675
1992	PS3		1992	08	06.35833	22	06	54.91	-20	09	17.1	17.2	9	675
1992	PS3		1992	08	06.39757	22	06	53.01	-20	09	35.8		9	675
1992	PT3	*	1992	08	05.41337	22	10	14.04	-16	44	20.0		9	675
1992	PT3		1992	08	05.45208	22	10	12.71	-16	44	32.4		9	675
1992	PT3		1992	08	06.35833	22	09	45.84	-16	49	26.5	16.8	9	675
1992	PT3		1992	08	06.39757	22	09	44.44	-16	49	39.1		9	675
1992	PU3		1992	08	02.32882	22	13	25.21	-14	51	44.6	17.8	9	675
1992	PU3		1992	08	02.37118	22	13	23.45	-14	51	57.7		9	675
1992	PU3	*	1992	08	05.41337	22	11	24.07	-15	08	53.1		9	675
1992	PU3		1992	08	05.45208	22	11	22.33	-15	09	05.3		9	675
1992	PU3		1992	08	06.35833	22	10	44.50	-15	14	15.9	17.0	9	675
1992	PU3		1992	08	06.36493	22	10	44.28	-15	14	17.0		9	675
1992	PU3		1992	08	06.39757	22	10	42.67	-15	14	29.1		9	675
1992	PU3		1992	08	06.40416	22	10	42.41	-15	14	30.3		9	675
1992	PV3	*	1992	08	05.41337	22	14	34.09	-16	07	59.7		9	675
1992	PV3		1992	08	05.45208	22	14	32.38	-16	08	17.9		9	675
1992	PV3		1992	08	06.35833	22	13	54.46	-16	15	14.3	17.0	9	675
1992	PV3		1992	08	06.39757	22	13	52.65	-16	15	32.6		9	675
1992	PW3	*	1992	08	05.41337	22	18	02.87	-19	22	31.1		9	675
1992	PW3		1992	08	05.45208	22	18	01.26	-19	22	46.8		9	675
1992	PW3		1992	08	06.35833	22	17	24.38	-19	28	51.6	17.5	9	675
1992	PW3		1992	08	06.39757	22	17	22.67	-19	29	06.6		9	675
1992	PX3	*	1992	08	05.41337	22	19	29.34	-18	15	32.5		9	675
1992	PX3		1992	08	05.45208	22	19	26.99	-18	15	34.3		9	675
1992	PX3		1992	08	06.35833	22	18	35.80	-18	17	03.8	17.8	9	675
1992	PX3		1992	08	06.39757	22	18	33.45	-18	17	06.4		9	675
1992	PY3	*	1992	08	02.32882	21	59	43.91	-09	00	34.0	17.8	9	675
1992	PY3		1992	08	02.37118	21	59	42.09	-09	00	27.6		9	675
1992	PY3		1992	08	06.36493	21	57	07.77	-08	50	58.5		9	675
1992	PY3		1992	08	06.40416	21	57	06.04	-08	50	53.8		9	675
1992	PZ3	*	1992	08	02.32882	22	01	40.90	-13	10	05.1	17.0	9	675
1992	PZ3		1992	08	02.37118	22	01	38.55	-13	10	04.5		9	675
1992	PZ3		1992	08	06.36493	21	57	58.37	-13	07	58.1		9	675
1992	PZ3		1992	08	06.40416	21	57	55.92	-13	07	57.2		9	675
1992	PA4	*	1992	08	02.32882	22	03	55.72	-11	23	24.2	17.0	9	675
1992	PA4		1992	08	02.37118	22	03	54.01	-11	23	32.7		9	675
1992	PA4		1992	08	06.36493	22	01	14.89	-11	37	28.4		9	675
1992	PA4		1992	08	06.40416	22	01	13.19	-11	37	36.9		9	675
1992	PB4	*	1992	08	02.32882	22	08	03.05	-09	26	38.3	17.8	9	675
1992	PB4		1992	08	02.37118	22	08	01.22	-09	26	46.6		9	675
1992	PB4		1992	08	06.36493	22	05	14.76	-09	41	18.6		9	675
1992	PB4		1992	08	06.40416	22	05	12.89	-09	41	28.6		9	675
1992	PC4	*	1992	08	02.32882	22	08	21.60	-10	10	50.8	18.5	9	675
1992	PC4		1992	08	02.37118	22	08	19.69	-10	10	55.8		9	675
1992	PC4		1992	08	06.36493	22	05	32.04	-10	20	19.2		9	675
1992	PC4		1992	08	06.40416	22	05	30.17	-10	20	26.9		9	675
1992	PD4	*	1992	08	02.32882	22	10	51.23	-10	01	46.4	18.2	9	675
1992	PD4		1992	08	02.37118	22	10	49.49	-10	01	50.6		9	675
1992	PD4		1992	08	06.36493	22	08	09.92	-10	09	12.0		9	675
1992	PD4		1992	08	06.40416	22	08	08.36	-10	09	13.6		9	675
1992	PE4	*	1992	08	02.32882	22	14	21.22	-09	03	04.3	17.8	9	675
1992	PE4		1992	08	02.37118	22	14	18.87	-09	02	55.8		9	675
1992	PE4		1992	08	06.36493	22	10	45.73	-08	49	54.1		9	675

1992	PE4		1992	08	06.40416	22	10	43.39	-08	49	45.3		9	675
1992	PF4	*	1992	08	02.32882	22	15	38.04	-08	21	28.4	17.8	9	675
1992	PF4		1992	08	02.37118	22	15	36.39	-08	21	37.6		9	675
1992	PF4		1992	08	06.36493	22	12	57.67	-08	35	56.6		9	675
1992	PF4		1992	08	06.40416	22	12	55.97	-08	36	06.2		9	675
1992	PG4	*	1992	08	02.32882	22	15	50.84	-12	50	51.7	17.8	9	675
1992	PG4		1992	08	02.37118	22	15	48.88	-12	51	01.2		9	675
1992	PG4		1992	08	06.36493	22	12	55.42	-13	00	30.3		9	675
1992	PG4		1992	08	06.40416	22	12	53.42	-13	00	36.2		9	675
1992	PH4	*	1992	08	02.32882	22	15	54.94	-11	06	39.4		9	675
1992	PH4		1992	08	02.37118	22	15	53.11	-11	06	43.6		9	675
1992	PH4		1992	08	06.36493	22	13	02.34	-11	14	16.4	17.0	9	675
1992	PH4		1992	08	06.40416	22	13	00.36	-11	14	21.7		9	675
1992	PJ4	*	1992	08	02.32882	22	16	05.23	-12	09	55.7	18.0	9	675
1992	PJ4		1992	08	02.37118	22	16	03.79	-12	10	15.2		9	675
1992	PJ4		1992	08	06.36493	22	13	44.01	-12	40	44.1		9	675
1992	PJ4		1992	08	06.40416	22	13	42.56	-12	41	02.9		9	675
1992	PK4	*	1992	08	02.32882	22	18	00.96	-10	23	17.0	17.8	9	675
1992	PK4		1992	08	02.37118	22	17	59.41	-10	23	24.8		9	675
1992	PK4		1992	08	06.36493	22	15	32.55	-10	36	42.3		9	675
1992	PK4		1992	08	06.40416	22	15	30.96	-10	36	51.2		9	675
1992	PL4	*	1992	08	02.32882	22	18	03.99	-08	13	53.4	17.5	9	675
1992	PL4		1992	08	02.37118	22	18	02.34	-08	14	00.4		9	675
1992	PL4		1992	08	06.36493	22	15	29.10	-08	24	32.7		9	675
1992	PL4		1992	08	06.40416	22	15	27.42	-08	24	39.6		9	675
1992	PM4	*	1992	08	02.32882	22	18	12.66	-07	17	09.9	18.5	9	675
1992	PM4		1992	08	02.37118	22	18	10.98	-07	17	15.3		9	675
1992	PM4		1992	08	06.36493	22	15	45.37	-07	25	40.2		9	675
1992	PM4		1992	08	06.40416	22	15	43.64	-07	25	46.5		9	675
1992	PN4	*	1992	08	02.32882	22	18	23.68	-10	38	02.9	16.8	9	675
1992	PN4		1992	08	02.37118	22	18	22.27	-10	38	21.9		9	675
1992	PN4		1992	08	06.36493	22	16	08.02	-11	08	52.6		9	675
1992	PO4	*	1992	08	02.32882	22	18	49.23	-07	35	27.6	17.8	9	675
1992	PO4		1992	08	02.37118	22	18	47.91	-07	35	38.7		9	675
1992	PO4		1992	08	06.36493	22	16	46.33	-07	53	00.2		9	675
1992	PO4		1992	08	06.40416	22	16	44.93	-07	53	11.4		9	675
1992	PP4	*	1992	08	02.32882	22	19	47.20	-11	36	02.1	17.5	9	675
1992	PP4		1992	08	02.37118	22	19	45.50	-11	36	16.2		9	675
1992	PP4		1992	08	06.36493	22	17	02.38	-11	58	22.9		9	675
1992	PP4		1992	08	06.40416	22	17	00.56	-11	58	36.8		9	675
1992	PQ4	*	1992	08	02.32882	22	20	28.83	-11	51	08.2	17.5	9	675
1992	PQ4		1992	08	02.37118	22	20	27.31	-11	51	16.9		9	675
1992	PQ4		1992	08	06.36493	22	18	04.93	-12	04	54.7		9	675
1992	PQ4		1992	08	06.40416	22	18	03.37	-12	05	02.3		9	675
1992	PR4	*	1992	08	02.32882	22	22	31.38	-09	30	24.6	18.2	9	675
1992	PR4		1992	08	02.37118	22	22	29.71	-09	30	44.0		9	675
1992	PR4		1992	08	06.36493	22	19	49.54	-10	04	09.6		9	675
1992	PR4		1992	08	06.40416	22	19	47.67	-10	04	30.8		9	675
1992	PS4	*	1992	08	02.32882	22	23	24.46	-09	26	38.3	18.2	9	675
1992	PS4		1992	08	02.37118	22	23	22.62	-09	26	38.9		9	675
1992	PS4		1992	08	06.36493	22	20	28.51	-09	27	43.6		9	675
1992	PS4		1992	08	06.40416	22	20	26.69	-09	27	43.8		9	675
1992	PT4	*	1992	08	02.32882	22	24	44.22	-12	20	09.8	17.2	9	675
1992	PT4		1992	08	02.37118	22	24	42.78	-12	20	38.4		9	675
1992	PT4		1992	08	06.36493	22	22	27.73	-13	04	26.5		9	675
1992	PT4		1992	08	06.40416	22	22	26.27	-13	04	52.5		9	675
1992	PU4	*	1992	08	02.32882	22	26	48.61	-11	13	35.3	16.8	9	675
1992	PU4		1992	08	02.37118	22	26	47.12	-11	13	43.0		9	675
1992	PU4		1992	08	06.36493	22	24	28.69	-11	27	21.7		9	675

1992	PU4		1992	08	06.40416	22	24	27.24	-11	27	30.6		9	675
1992	PV4	*	1992	08	02.32882	22	26	48.83	-10	07	46.3	17.8	9	675
1992	PV4		1992	08	02.37118	22	26	47.18	-10	07	50.5		9	675
1992	PV4		1992	08	06.36493	22	24	17.12	-10	15	22.4		9	675
1992	PV4		1992	08	06.40416	22	24	15.39	-10	15	26.2		9	675
1992	PW4	*	1992	08	02.32882	22	27	48.31	-10	47	05.2	17.5	9	675
1992	PW4		1992	08	02.37118	22	27	46.57	-10	47	06.6		9	675
1992	PW4		1992	08	06.36493	22	24	58.92	-10	49	51.2		9	675
1992	PW4		1992	08	06.40416	22	24	57.06	-10	49	53.2		9	675
1992	QN	*	1992	08	29.33611	22	39	57.86	-21	18	18.3	16.5	2	675
1992	QN		1992	08	29.36059	22	39	52.88	-21	18	10.9		2	675
1992	QN		1992	08	31.31563	22	33	47.86	-21	05	27.0		2	675
1992	QN		1992	08	31.33802	22	33	43.68	-21	05	16.8		2	675
1992	QN		1992	09	01.33576	22	30	44.06	-20	58	10.5		2	675
1992	QN		1992	09	02.21563	22	28	10.78	-20	51	37.7		2	675
1992	QN		1992	09	02.24028	22	28	06.33	-20	51	26.0		2	675
1992	QP	*	1992	08	29.32465	22	13	57.59	-09	49	20.4	15.5	2	675
1992	QP		1992	08	29.34809	22	13	56.76	-09	49	42.5		2	675
1992	QP		1992	08	31.30990	22	13	01.35	-10	20	47.9		2	675
1992	QP		1992	08	31.33194	22	13	00.69	-10	21	06.7		2	675
1992	QQ	*	1992	08	29.32465	22	29	57.82	-12	07	06.3	16.5	2	675
1992	QQ		1992	08	29.34809	22	29	56.32	-12	06	51.6		2	675
1992	QQ		1992	08	31.30990	22	28	17.47	-11	47	09.9		2	675
1992	QQ		1992	08	31.33194	22	28	16.07	-11	46	54.1		2	675
1992	QR	*	1992	08	23.40434	00	34	46.50	-10	32	36.8	17.0	3	675
1992	QR		1992	08	23.45174	00	34	46.86	-10	33	54.8		3	675
1992	QR		1992	08	27.42361	00	35	10.18	-12	23	57.0		3	675
1992	QR		1992	08	27.46250	00	35	10.04	-12	25	02.8		3	675
1992	QR		1992	08	28.42135	00	35	10.73	-12	52	24.0		3	675
2019	P-L		1991	09	13.20573	20	50	17.33	-12	49	24.4	18.5	9	675
2019	P-L		1991	09	13.23385	20	50	16.56	-12	49	31.8	18.5	9	675
2019	P-L		1991	09	13.26619	20	50	15.58	-12	49	39.1		9	675
2019	P-L		1991	09	13.29080	20	50	15.01	-12	49	45.6		9	675
2019	P-L		1991	09	14.22390	20	49	51.79	-12	52	56.7		9	675
2019	P-L		1991	09	14.26053	20	49	50.83	-12	53	02.7		9	675
2023	P-L		1977	12	07.26979	04	50	35.95	+23	19	28.0	18.0 V	6	675
2023	P-L		1977	12	08.22292	04	49	44.42	+23	17	57.7		6	675
2561	P-L	*	1960	09	24.46184	00	57	40.14	+00	24	40.3	18.3	4	675
2561	P-L		1960	09	26.37988	00	55	54.97	+00	20	56.1		4	675
2561	P-L		1960	09	28.43822	00	53	59.89	+00	16	56.5		4	675
2561	P-L		1960	09	29.39514	00	53	05.93	+00	15	07.6		4	675
2561	P-L		1960	10	17.31529	00	36	15.78	-00	11	45.2		4	675
2561	P-L		1960	10	22.26809	00	32	02.15	-00	15	00.4		4	675
2561	P-L		1960	10	25.30351	00	29	37.72	-00	15	46.0		4	675
2561	P-L		1960	10	26.35766	00	28	49.67	-00	15	46.3		4	675
4027	P-L		1992	08	04.34549	21	40	18.78	-09	54	40.5	17.8	9	675
4027	P-L		1992	08	05.31667	21	39	34.16	-09	57	29.6		9	675
4027	P-L		1992	08	05.39844	21	39	30.43	-09	57	45.5		9	675
4027	P-L		1992	08	07.29740	21	38	02.63	-10	03	24.0		9	675
4027	P-L		1992	08	07.32986	21	38	01.06	-10	03	29.7		9	675
4072	P-L	*	1960	09	24.37573	00	38	13.62	+07	40	29.1	18.8	4	675
4072	P-L		1960	09	24.45000	00	38	09.20	+07	39	59.2		4	675
4072	P-L		1960	09	25.42780	00	37	13.01	+07	33	20.8		4	675
4072	P-L		1960	09	26.30558	00	36	22.47	+07	27	19.1		4	675
4072	P-L		1960	09	28.36808	00	34	22.75	+07	13	00.0		4	675
4072	P-L		1960	10	17.27085	00	17	26.07	+05	01	36.2		4	675
4072	P-L		1960	10	17.30420	00	17	24.49	+05	01	23.5		4	675
4072	P-L		1960	10	22.22293	00	13	54.23	+04	31	09.7		4	675
4072	P-L		1960	10	24.35836	00	12	33.06	+04	19	03.9		4	675

4072	P-L		1960	10	26.32573	00	11	24.13	+04	08	24.8			4	675
4095	P-L	*	1960	09	24.37573	00	25	23.67	+08	21	23.9	19.6		4	675
4095	P-L		1960	09	25.42780	00	24	32.91	+08	14	53.4			4	675
4095	P-L		1960	09	26.30558	00	23	50.87	+08	09	24.7			4	675
4095	P-L		1960	09	28.36808	00	22	10.42	+07	56	10.5			4	675
4095	P-L		1960	10	17.27085	00	07	45.14	+05	48	02.2			4	675
4095	P-L		1960	10	22.22293	00	04	44.50	+05	16	20.5			4	675
4095	P-L		1960	10	26.32573	00	02	37.82	+04	51	55.5			4	675
4607	P-L	*	1960	09	24.41183	00	19	59.75	-00	16	56.2	18.5		4	675
4607	P-L		1960	09	26.31530	00	18	21.10	-00	24	33.4			4	675
4607	P-L		1960	09	27.40836	00	17	24.22	-00	28	53.9			4	675
4607	P-L		1960	09	28.39725	00	16	32.90	-00	32	48.2			4	675
4607	P-L		1960	10	17.28198	00	01	29.51	-01	36	34.7			4	675
4607	P-L		1960	10	22.23406	23	58	18.33	-01	47	56.6			4	675
4607	P-L		1960	10	25.25350	23	56	34.96	-01	53	28.5			4	675
4607	P-L		1960	10	26.31531	23	56	01.05	-01	55	07.9			4	675
5011	P-L		1960	09	29.44510	00	52	00.65	+12	30	06.5			4	675
5011	P-L	*	1960	10	22.27920	00	34	15.16	+09	59	35.7	19.2		4	675
5011	P-L		1960	10	25.37570	00	32	15.09	+09	39	02.7			4	675
5011	P-L		1960	10	26.36840	00	31	38.80	+09	32	35.8			4	675
6045	P-L		1992	08	02.34566	22	35	34.15	+00	28	28.5	18.5		9	675
6045	P-L		1992	08	02.38559	22	35	32.86	+00	28	25.6			9	675
9057	P-L		1960	09	24.33613	23	52	33.55	+03	33	51.5			4	675
9057	P-L	*	1960	10	17.21390	23	33	59.07	+01	38	08.5	19.1		4	675
9057	P-L		1960	10	22.15559	23	31	22.62	+01	19	12.0			4	675
9057	P-L		1960	10	24.18787	23	30	29.35	+01	12	22.1			4	675
9057	P-L		1960	10	26.26113	23	29	41.83	+01	06	03.0			4	675
1188	T-1		1971	03	24.38924	12	13	23.42	-04	26	49.8			4	675
1188	T-1		1971	03	25.27326	12	12	26.47	-04	25	00.6			4	675
1188	T-1	*	1971	03	25.31562	12	12	23.55	-04	24	55.5	16.8		4	675
1188	T-1		1971	03	26.26771	12	11	21.88	-04	22	56.2			4	675
1188	T-1		1971	03	27.32500	12	10	12.92	-04	20	39.4			4	675
1188	T-1		1971	04	02.40000	12	03	44.07	-04	07	06.5			4	675
1188	T-1		1971	04	16.18087	11	51	10.46	-03	40	34.6			4	675
1188	T-1		1971	04	16.26458	11	51	06.51	-03	40	27.1			4	675
1188	T-1		1971	05	13.18941	11	43	21.92	-03	52	50.5			4	675
1188	T-1		1971	05	14.21962	11	43	34.28	-03	55	33.1			4	675
2291	T-1		1977	12	07.26979	04	42	09.74	+22	21	13.8	17.2	V	6	675
2291	T-1		1977	12	08.22292	04	41	09.67	+22	20	36.7			6	675
3057	T-1		1971	03	24.42015	12	24	37.14	-05	48	10.8			4	675
3057	T-1		1971	03	25.33090	12	23	50.06	-05	42	29.6			4	675
3057	T-1		1971	03	26.29653	12	22	59.77	-05	36	26.7			4	675
3057	T-1	*	1971	03	26.33611	12	22	57.57	-05	36	11.8	19.4		4	675
3057	T-1		1971	03	27.33854	12	22	05.26	-05	29	49.4			4	675
3057	T-1		1971	04	02.40000	12	16	50.76	-04	50	49.1			4	675
3057	T-1		1971	04	16.18087	12	06	10.39	-03	25	16.0			4	675
3057	T-1		1971	04	16.26458	12	06	06.80	-03	24	45.2			4	675
4232	T-1		1978	10	27.30539	00	55	29.67	+07	15	58.9	18.5		6	675
4232	T-1		1978	10	28.29411	00	54	41.81	+07	13	17.3			6	675
4232	T-1		1978	10	29.30729	00	53	53.49	+07	10	34.9			6	675
4232	T-1		1978	11	28.16875	00	39	08.63	+06	34	31.9	19.5		6	675
4232	T-1		1978	11	29.16308	00	39	00.27	+06	35	09.1			6	675
1158	T-2		1973	09	19.18611	00	17	39.78	+04	21	41.9			4	675
1158	T-2		1973	09	19.23785	00	17	37.31	+04	21	23.2			4	675
1158	T-2		1973	09	20.22847	00	16	49.12	+04	15	32.6			4	675
1158	T-2		1973	09	24.34688	00	13	22.56	+03	50	01.7			4	675
1158	T-2		1973	09	24.41597	00	13	18.86	+03	49	35.6			4	675
1158	T-2		1973	09	25.24375	00	12	36.89	+03	44	12.7			4	675
1158	T-2		1973	09	25.30729	00	12	33.52	+03	43	50.7			4	675

1158	T-2	*	1973	09	29.25330	00	09	10.53	+03	17	57.1	18.5	4	675
1158	T-2		1973	09	29.31806	00	09	06.98	+03	17	32.3		4	675
1158	T-2		1973	09	30.21007	00	08	21.38	+03	11	35.5		4	675
1158	T-2		1973	09	30.27431	00	08	17.93	+03	11	10.1		4	675
1158	T-2		1973	10	04.28958	00	04	55.35	+02	44	24.1		4	675
1158	T-2		1973	10	04.35208	00	04	51.99	+02	43	59.3		4	675
1158	T-2		1973	10	05.31684	00	04	04.69	+02	37	38.3		4	675
1158	T-2		1973	10	05.37917	00	04	01.56	+02	37	14.8		4	675
1310	T-2		1973	09	19.22500	00	28	10.67	-00	08	20.8		4	675
1310	T-2		1973	09	19.27865	00	28	07.84	-00	08	34.0		4	675
1310	T-2		1973	09	20.22847	00	27	21.30	-00	12	44.3		4	675
1310	T-2		1973	09	20.27795	00	27	18.92	-00	12	53.6		4	675
1310	T-2		1973	09	20.30278	00	27	17.41	-00	13	03.6		4	675
1310	T-2		1973	09	24.37431	00	23	49.31	-00	31	04.5		4	675
1310	T-2		1973	09	24.38750	00	23	48.55	-00	31	10.1		4	675
1310	T-2		1973	09	24.44167	00	23	45.60	-00	31	22.6		4	675
1310	T-2		1973	09	24.45434	00	23	44.88	-00	31	29.5		4	675
1310	T-2		1973	09	25.26875	00	23	02.63	-00	35	05.0		4	675
1310	T-2		1973	09	25.28125	00	23	02.03	-00	35	10.5		4	675
1310	T-2		1973	09	25.30729	00	23	00.51	-00	35	17.3		4	675
1310	T-2		1973	09	25.33299	00	22	59.04	-00	35	21.9		4	675
1310	T-2		1973	09	25.34601	00	22	58.35	-00	35	26.5		4	675
1310	T-2	*	1973	09	29.25330	00	19	31.44	-00	52	39.5	18.0	4	675
1310	T-2		1973	09	29.27986	00	19	29.85	-00	52	43.9		4	675
1310	T-2		1973	09	29.31806	00	19	27.86	-00	52	54.8		4	675
1310	T-2		1973	09	29.34375	00	19	26.27	-00	53	00.7		4	675
1310	T-2		1973	09	30.23524	00	18	39.14	-00	56	49.6		4	675
1310	T-2		1973	09	30.30174	00	18	35.34	-00	57	06.4		4	675
1310	T-2		1973	10	04.28958	00	15	05.70	-01	13	29.0		4	675
1310	T-2		1973	10	04.31493	00	15	04.38	-01	13	34.0		4	675
1310	T-2		1973	10	04.35208	00	15	02.30	-01	13	42.4		4	675
1310	T-2		1973	10	04.37674	00	15	01.07	-01	13	48.2		4	675
1310	T-2		1973	10	05.31684	00	14	12.78	-01	17	27.5		4	675
1310	T-2		1973	10	05.34167	00	14	11.45	-01	17	31.2		4	675
1310	T-2		1973	10	05.37917	00	14	09.33	-01	17	41.5		4	675
1310	T-2		1973	10	05.40347	00	14	08.09	-01	17	45.2		4	675
1360	T-2		1973	09	19.19948	00	31	07.84	+04	01	08.3		4	675
1360	T-2		1973	09	19.25006	00	31	05.64	+04	00	52.8		4	675
1360	T-2		1973	09	20.26458	00	30	19.81	+03	55	31.7		4	675
1360	T-2		1973	09	24.36181	00	27	10.43	+03	33	21.7		4	675
1360	T-2		1973	09	24.42847	00	27	07.15	+03	32	58.8		4	675
1360	T-2		1973	09	25.25642	00	26	28.64	+03	28	22.2		4	675
1360	T-2		1973	09	25.32031	00	26	25.59	+03	28	02.7		4	675
1360	T-2	*	1973	09	29.25330	00	23	19.95	+03	06	09.3	18.5	4	675
1360	T-2		1973	09	29.26632	00	23	19.46	+03	06	04.7		4	675
1360	T-2		1973	09	29.31806	00	23	16.81	+03	05	48.1		4	675
1360	T-2		1973	09	29.33073	00	23	16.23	+03	05	44.0		4	675
1360	T-2		1973	09	30.21007	00	22	35.01	+03	00	48.1		4	675
1360	T-2		1973	09	30.22257	00	22	34.34	+03	00	43.4		4	675
1360	T-2		1973	09	30.27431	00	22	31.91	+03	00	26.9		4	675
1360	T-2		1973	09	30.28785	00	22	31.21	+03	00	21.2		4	675
1360	T-2		1973	10	04.28958	00	19	24.21	+02	38	07.4		4	675
1360	T-2		1973	10	04.30208	00	19	23.74	+02	38	02.9		4	675
1360	T-2		1973	10	04.35208	00	19	21.16	+02	37	46.9		4	675
1360	T-2		1973	10	04.36476	00	19	20.69	+02	37	42.3		4	675
1360	T-2		1973	10	05.31684	00	18	36.96	+02	32	28.1		4	675
1360	T-2		1973	10	05.32917	00	18	36.40	+02	32	24.6		4	675
1360	T-2		1973	10	05.37917	00	18	33.95	+02	32	08.1		4	675
1360	T-2		1973	10	05.39132	00	18	33.49	+02	32	03.1		4	675

2232	T-2		1991	09	13.23385	21	03	35.54	-13	52	09.0	18.5	9	675
2232	T-2		1991	09	13.29080	21	03	34.20	-13	52	24.5		9	675
2232	T-2		1991	09	14.22390	21	03	17.45	-13	56	29.8		9	675
2232	T-2		1991	09	14.26053	21	03	16.71	-13	56	38.0		9	675
4293	T-2		1992	08	02.32882	22	24	23.20	-14	19	42.7	17.5	9	675
4293	T-2		1992	08	02.37118	22	24	21.55	-14	19	53.8		9	675
4293	T-2		1992	08	06.36493	22	21	50.42	-14	40	24.5		9	675
4293	T-2		1992	08	06.40416	22	21	48.87	-14	40	38.6		9	675
5137	T-2		1973	09	20.21458	00	25	09.60	+13	52	30.8		4	675
5137	T-2		1973	09	20.29253	00	25	05.88	+13	51	51.1		4	675
5137	T-2		1973	09	24.40035	00	21	50.79	+13	16	07.6		4	675
5137	T-2		1973	09	24.47986	00	21	46.72	+13	15	22.5		4	675
5137	T-2	*	1973	09	25.29375	00	21	07.99	+13	07	55.4	19.6	4	675
5137	T-2		1973	09	25.35903	00	21	04.71	+13	07	20.1		4	675
5137	T-2		1973	09	29.24062	00	17	57.86	+12	30	49.6		4	675
5137	T-2		1973	09	29.30486	00	17	54.69	+12	30	12.9		4	675
5137	T-2		1973	09	30.19722	00	17	11.87	+12	21	33.2		4	675
5137	T-2		1973	09	30.35295	00	17	04.14	+12	20	01.7		4	675
5137	T-2		1973	10	04.27708	00	13	57.74	+11	41	10.5		4	675
5137	T-2		1973	10	04.33906	00	13	54.64	+11	40	30.1		4	675
5137	T-2		1973	10	05.36632	00	13	06.93	+11	30	10.9		4	675
5137	T-2		1973	10	05.42847	00	13	03.91	+11	29	31.3		4	675
3109	T-3		1977	10	07.27031	01	31	40.91	+09	46	59.9		4	675
3109	T-3		1977	10	11.28819	01	28	47.96	+09	30	27.9		4	675
3109	T-3		1977	10	11.35642	01	28	45.05	+09	30	13.6		4	675
3109	T-3		1977	10	12.28681	01	28	04.63	+09	26	17.7		4	675
3109	T-3		1977	10	12.35347	01	28	01.62	+09	26	00.6		4	675
3109	T-3	*	1977	10	16.27309	01	25	10.38	+09	09	23.3	19.4	4	675
3109	T-3		1977	10	16.33872	01	25	07.38	+09	09	06.7		4	675
3109	T-3		1977	10	17.27552	01	24	26.42	+09	05	09.6		4	675
3109	T-3		1977	10	17.34236	01	24	23.23	+09	04	53.2		4	675
3109	T-3		1977	10	21.39792	01	21	27.38	+08	47	38.4		4	675
3109	T-3		1977	10	21.45799	01	21	24.84	+08	47	23.8		4	675
3109	T-3		1977	10	22.39844	01	20	44.44	+08	43	25.8		4	675
3109	T-3		1977	10	22.45920	01	20	41.77	+08	43	08.6		4	675
3226	T-3		1977	10	07.27031	01	28	25.40	+04	15	39.9		4	675
3226	T-3		1977	10	07.28125	01	28	24.82	+04	15	40.1		4	675
3226	T-3		1977	10	11.28819	01	24	20.88	+04	11	54.3		4	675
3226	T-3		1977	10	11.30000	01	24	20.43	+04	11	54.2		4	675
3226	T-3		1977	10	11.35642	01	24	16.52	+04	11	51.3		4	675
3226	T-3		1977	10	11.36771	01	24	16.06	+04	11	49.4		4	675
3226	T-3		1977	10	12.28681	01	23	19.08	+04	10	59.7		4	675
3226	T-3		1977	10	12.29826	01	23	18.37	+04	10	59.3		4	675
3226	T-3		1977	10	12.35347	01	23	14.77	+04	10	55.4		4	675
3226	T-3		1977	10	12.36441	01	23	14.11	+04	10	55.7		4	675
3226	T-3	*	1977	10	16.27309	01	19	10.21	+04	07	47.2	17.2	4	675
3226	T-3		1977	10	16.28368	01	19	09.54	+04	07	47.5		4	675
3226	T-3		1977	10	16.33872	01	19	05.95	+04	07	45.1		4	675
3226	T-3		1977	10	16.34931	01	19	05.19	+04	07	45.7		4	675
3226	T-3		1977	10	17.27552	01	18	07.36	+04	07	05.7		4	675
3226	T-3		1977	10	17.28628	01	18	06.75	+04	07	07.1		4	675
3226	T-3		1977	10	17.34236	01	18	03.01	+04	07	03.9		4	675
3226	T-3		1977	10	17.35313	01	18	02.40	+04	07	03.8		4	675
3226	T-3		1977	10	21.39792	01	13	51.44	+04	04	56.1		4	675
3226	T-3		1977	10	21.45799	01	13	47.67	+04	04	55.6		4	675
3226	T-3		1977	10	22.39844	01	12	50.32	+04	04	35.1		4	675
3226	T-3		1977	10	22.45920	01	12	46.50	+04	04	33.2		4	675
(6)			1991	09	14.29740	22	21	21.69	-21	29	25.0		9	675
(6)			1991	09	14.34705	22	21	19.84	-21	30	00.7		9	675

(6)	1991	09	16.27778	22	20	15.76	-21	52	18.9	9	675
(6)	1991	09	16.32500	22	20	14.13	-21	52	49.9	9	675
(7)	1991	09	10.31389	22	49	50.09	+04	22	14.4	9	675
(7)	1991	09	10.36476	22	49	47.19	+04	21	59.3	9	675
(32)	1982	10	14.15764	19	56	46.11	-14	25	33.1	6	675
(34)	1992	06	28.30694	16	47	23.88	-14	09	51.5	9	675
(34)	1992	06	28.33732	16	47	22.67	-14	09	51.5	9	675
(34)	1992	06	29.26510	16	46	45.31	-14	09	49.3	9	675
(34)	1992	06	29.29497	16	46	44.09	-14	09	49.4	9	675
(34)	1992	06	30.27135	16	46	05.80	-14	09	51.4	9	675
(34)	1992	06	30.30122	16	46	04.59	-14	09	51.1	9	675
(36)	1992	08	03.44792	03	17	27.90	+26	28	12.3	9	675
(36)	1992	08	03.47448	03	17	30.93	+26	28	39.5	9	675
(40)	1977	12	07.26979	04	38	54.11	+19	17	14.5	6	675
(40)	1977	12	08.22292	04	37	49.02	+19	17	24.2	6	675
(56)	1991	09	10.31389	23	02	40.59	+01	19	14.5	9	675
(56)	1991	09	10.36476	23	02	38.27	+01	18	42.8	9	675
(69)	1992	08	02.34566	22	38	14.84	-01	26	15.9	9	675
(69)	1992	08	02.38559	22	38	13.55	-01	26	23.8	9	675
(69)	1992	08	06.43490	22	36	01.36	-01	41	34.7	9	675
(69)	1992	08	06.48056	22	35	59.70	-01	41	46.9	9	675
(78)	1992	08	02.32882	22	25	06.32	-11	40	43.1	9	675
(78)	1992	08	02.37118	22	25	04.36	-11	40	49.0	9	675
(78)	1992	08	06.36493	22	21	58.12	-11	50	30.7	9	675
(78)	1992	08	06.40416	22	21	56.17	-11	50	36.1	9	675
(98)	1954	10	06.33021	01	29	21.92	+21	35	58.9	6	675
(98)	1954	10	06.35139	01	29	20.49	+21	35	59.7	6	675
(108)	1992	08	02.32882	22	14	32.53	-13	43	54.2	9	675
(108)	1992	08	02.37118	22	14	30.84	-13	44	01.9	9	675
(108)	1992	08	06.36493	22	11	51.10	-13	56	15.9	9	675
(108)	1992	08	06.40416	22	11	49.41	-13	56	22.9	9	675
(122)	1992	06	08.29271	15	53	29.16	-18	03	07.9	9	675
(122)	1992	06	08.33524	15	53	27.28	-18	03	02.9	9	675
(133)	1992	08	03.47448	03	33	43.54	+26	16	21.1	9	675
(135)	1992	06	04.26024	15	15	33.02	-22	11	07.4	9	675
(135)	1992	06	04.29271	15	15	31.23	-22	11	00.8	9	675
(135)	1992	06	06.26441	15	13	50.63	-22	03	52.8	9	675
(135)	1992	06	06.29931	15	13	48.83	-22	03	45.6	9	675
(147)	1992	08	02.32882	22	07	32.81	-08	37	41.4	9	675
(147)	1992	08	02.37118	22	07	31.12	-08	37	49.5	9	675
(147)	1992	08	06.35174	22	04	52.96	-08	50	22.4	9	675
(147)	1992	08	06.36493	22	04	52.50	-08	50	26.6	9	675
(147)	1992	08	06.39149	22	04	51.29	-08	50	30.6	9	675
(147)	1992	08	06.40416	22	04	50.86	-08	50	34.7	9	675
(147)	1992	08	07.34688	22	04	11.86	-08	53	42.5	9	675
(147)	1992	08	07.38194	22	04	10.36	-08	53	49.7	9	675
(150)	1978	10	27.30539	00	58	24.98	+06	32	00.4	6	675
(150)	1978	10	28.29411	00	57	47.34	+06	27	07.4	6	675
(150)	1978	10	29.30729	00	57	09.60	+06	22	12.6	6	675
(153)	1992	07	31.34236	21	37	01.34	-02	49	09.9	9	675
(153)	1992	07	31.37830	21	37	00.04	-02	49	14.9	9	675
(153)	1992	08	02.32188	21	35	50.64	-02	53	36.7	9	675
(153)	1992	08	02.36510	21	35	49.04	-02	53	42.9	9	675
(153)	1992	08	06.34373	21	33	23.08	-03	03	48.4	9	675
(153)	1992	08	06.38524	21	33	21.50	-03	03	55.1	9	675
(155)	1992	06	06.26441	15	15	39.87	-23	19	36.9	9	675
(155)	1992	06	06.29931	15	15	38.16	-23	19	34.7	9	675
(191)	1991	09	13.23385	21	04	42.01	-12	45	58.3	9	675
(191)	1991	09	13.29080	21	04	40.69	-12	46	20.7	9	675

(191)		1991	09	14.22390	21	04	21.16	-12	52	24.1	9	675
(191)		1991	09	14.26053	21	04	20.38	-12	52	38.0	9	675
(206)		1992	08	02.32882	22	28	30.78	-09	40	35.3	9	675
(206)		1992	08	02.37118	22	28	29.24	-09	40	47.7	9	675
(206)		1992	08	06.36493	22	25	58.48	-10	00	56.4	9	675
(206)		1992	08	06.40416	22	25	56.86	-10	01	08.8	9	675
(214)		1992	08	03.44792	03	22	02.66	+21	08	57.5	9	675
(214)		1992	08	03.47448	03	22	04.50	+21	09	07.1	9	675
(278)		1977	12	07.26979	04	32	51.03	+23	51	39.9	6	675
(278)		1977	12	08.22292	04	31	52.98	+23	51	45.5	6	675
(280)		1992	06	06.26441	15	10	34.41	-26	09	11.5	9	675
(280)		1992	06	06.29931	15	10	32.89	-26	09	06.1	9	675
(300)		1992	06	08.29271	15	44	29.05	-20	11	33.2	9	675
(300)		1992	06	08.33524	15	44	27.22	-20	11	28.3	9	675
(313)		1982	10	14.15764	19	31	13.61	-12	56	52.2	6	675
(324)		1991	09	10.31389	23	04	54.67	+03	11	16.4	9	675
(324)		1991	09	10.36476	23	04	51.40	+03	11	35.8	9	675
(333)		1992	08	03.44792	03	24	21.54	+20	59	34.2	9	675
(333)		1992	08	03.47448	03	24	23.48	+20	59	43.9	9	675
(355)		1992	08	02.32882	22	17	02.15	-14	08	07.3	9	675
(355)		1992	08	02.37118	22	17	00.14	-14	08	15.1	9	675
(355)		1992	08	06.35833	22	13	49.61	-14	22	19.1	9	675
(355)		1992	08	06.36493	22	13	49.20	-14	22	22.7	9	675
(355)		1992	08	06.39757	22	13	47.52	-14	22	29.9	9	675
(355)		1992	08	06.40416	22	13	47.22	-14	22	31.1	9	675
(357)		1951	07	30.29028	19	38	13.60	-13	21	17.9	6	675
(357)		1951	07	30.31528	19	38	12.43	-13	21	27.4	6	675
(361)		1991	09	14.29740	22	23	03.81	-22	36	03.9	9	675
(361)		1991	09	14.34705	22	23	01.84	-22	36	06.3	9	675
(361)		1991	09	16.27778	22	21	48.54	-22	37	29.4	9	675
(361)		1991	09	16.32500	22	21	46.75	-22	37	31.4	9	675
(385)		1954	10	06.33021	01	23	32.13	+21	37	32.3	6	675
(385)		1954	10	06.35139	01	23	30.88	+21	37	29.9	6	675
(390)		1991	09	10.31389	23	00	47.07	+07	26	10.2	9	675
(390)		1991	09	10.36476	23	00	44.18	+07	26	01.6	9	675
(419)		1992	08	02.34566	22	29	11.68	-01	47	24.1	9	675
(419)		1992	08	06.43490	22	26	32.68	-01	58	28.8	9	675
(419)		1992	08	06.48056	22	26	30.72	-01	58	37.7	9	675
(441)		1954	10	06.33021	01	25	53.98	+19	52	35.1	6	675
(441)		1954	10	06.35139	01	25	52.91	+19	52	27.6	6	675
(441)		1991	09	12.20822	21	19	16.95	-03	28	36.6	9	675
(441)		1991	09	12.26152	21	19	15.06	-03	28	51.2	9	675
(459)		1992	06	06.26441	15	30	09.68	-27	28	37.4	9	675
(459)		1992	06	06.29931	15	30	07.84	-27	28	31.3	9	675
(468)		1992	06	04.26024	14	57	12.64	-17	11	52.2	9	675
(468)		1992	06	04.29271	14	57	11.36	-17	11	47.6	9	675
(510)		1992	08	02.34566	22	17	09.88	+04	47	49.9	9	675
(510)		1992	08	02.38559	22	17	08.46	+04	47	42.7	9	675
(510)		1992	08	06.43490	22	14	47.84	+04	32	27.1	9	675
(510)		1992	08	06.48056	22	14	46.11	+04	32	14.5	9	675
(525)		1951	07	30.29028	19	48	18.75	-10	56	27.6	6	675
(525)		1951	07	30.31528	19	48	17.17	-10	56	32.3	6	675
(544)		1992	08	03.44792	03	23	35.51	+27	01	15.8	9	675
(544)		1992	08	03.47448	03	23	37.25	+27	01	25.0	9	675
(552)		1992	08	04.34549	21	15	03.28	-06	50	08.4	9	675
(552)		1992	08	05.31667	21	14	17.72	-06	51	55.7	9	675
(552)		1992	08	07.29740	21	12	44.52	-06	55	45.1	9	675
(552)		1992	08	07.32986	21	12	42.92	-06	55	49.0	9	675
(556)		1992	08	06.35174	22	10	29.48	-05	38	37.2	9	675

(556)	1992	08	06.39149	22	10	27.43	-05	38	42.6	9 675
(556)	1992	08	07.34688	22	09	39.57	-05	40	54.3	9 675
(556)	1992	08	07.38194	22	09	37.73	-05	40	59.8	9 675
(586)	1992	06	08.29271	15	54	57.94	-19	39	13.5	9 675
(586)	1992	06	08.33524	15	54	55.98	-19	39	07.2	9 675
(637)	1992	06	04.26024	15	20	00.27	-18	46	23.9	9 675
(637)	1992	06	04.29271	15	19	58.95	-18	46	18.3	9 675
(639)	1991	09	12.20822	21	31	32.30	-03	34	48.1	9 675
(639)	1991	09	12.26152	21	31	30.32	-03	34	57.9	9 675
(645)	1992	08	05.41337	22	17	28.78	-16	52	13.6	9 675
(645)	1992	08	05.45208	22	17	27.14	-16	52	21.1	9 675
(645)	1992	08	06.35833	22	16	49.28	-16	55	12.6	9 675
(645)	1992	08	06.39757	22	16	47.57	-16	55	20.0	9 675
(660)	1982	10	14.15764	19	59	21.95	-16	00	26.7	6 675
(665)	1992	08	04.34549	21	21	09.74	-07	48	58.3	9 675
(665)	1992	08	05.31667	21	20	17.74	-07	48	01.9	9 675
(665)	1992	08	05.39844	21	20	13.19	-07	47	56.9	9 675
(665)	1992	08	07.29740	21	18	31.25	-07	46	18.9	9 675
(665)	1992	08	07.32986	21	18	29.44	-07	46	17.3	9 675
(667)	1982	10	14.15764	19	44	51.71	-10	35	34.9	6 675
(694)	1992	08	03.44792	03	32	23.15	+25	54	47.6	9 675
(694)	1992	08	03.47448	03	32	26.09	+25	54	53.0	9 675
(741)	1991	09	14.29740	22	19	48.97	-21	30	37.6	9 675
(741)	1991	09	14.34705	22	19	46.71	-21	30	48.4	9 675
(741)	1991	09	16.27778	22	18	24.73	-21	37	30.7	9 675
(741)	1991	09	16.32500	22	18	22.72	-21	37	40.1	9 675
(762)	1991	09	13.23385	21	10	39.06	-09	54	49.4	9 675
(762)	1991	09	13.29080	21	10	37.27	-09	54	51.8	9 675
(762)	1991	09	14.22390	21	10	08.47	-09	55	45.1	9 675
(762)	1991	09	14.26053	21	10	07.31	-09	55	47.1	9 675
(764)	1992	08	06.41024	21	56	18.69	+01	44	27.3	9 675
(764)	1992	08	06.45399	21	56	16.81	+01	44	24.3	9 675
(764)	1992	08	07.35972	21	55	38.55	+01	43	21.8	9 675
(764)	1992	08	07.42309	21	55	35.79	+01	43	17.4	9 675
(774)	1977	12	07.26979	04	50	40.90	+22	04	13.9	6 675
(774)	1977	12	08.22292	04	49	51.19	+22	01	46.5	6 675
(801)	1992	07	31.34236	21	28	17.71	+02	03	27.8	9 675
(801)	1992	07	31.37830	21	28	16.03	+02	03	17.5	9 675
(801)	1992	08	02.32188	21	26	46.77	+01	52	48.0	9 675
(801)	1992	08	02.36510	21	26	44.73	+01	52	32.6	9 675
(801)	1992	08	06.34373	21	23	37.05	+01	28	48.9	9 675
(801)	1992	08	06.38524	21	23	34.99	+01	28	34.1	9 675
(816)	1991	09	16.27778	21	52	59.59	-21	23	54.7	9 675
(816)	1991	09	16.32500	21	52	58.07	-21	24	07.5	9 675
(857)	1981	05	08.43507	15	43	30.02	-14	37	32.2	6 675
(857)	1981	05	09.38021	15	42	30.79	-14	36	17.7	6 675
(861)	1992	08	05.41337	22	09	18.59	-17	32	38.3	9 675
(861)	1992	08	05.45208	22	09	17.06	-17	32	53.8	9 675
(861)	1992	08	06.35833	22	08	42.16	-17	39	01.4	9 675
(861)	1992	08	06.39757	22	08	40.58	-17	39	17.0	9 675
(874)	1991	09	12.20822	21	47	06.84	-03	16	20.6	9 675
(874)	1991	09	12.26152	21	47	05.01	-03	16	42.3	9 675
(890)	1951	07	30.29028	19	51	52.55	-09	52	18.2	6 675
(890)	1951	07	30.31528	19	51	51.40	-09	52	27.0	6 675
(919)	1992	08	03.44792	03	31	01.08	+21	31	21.9	9 675
(919)	1992	08	03.47448	03	31	03.20	+21	31	28.1	9 675
(932)	1992	06	06.26441	15	07	48.05	-27	04	42.4	9 675
(932)	1992	06	06.29931	15	07	46.25	-27	04	35.6	9 675
(943)	1991	09	14.29740	22	41	37.76	-20	53	53.6	9 675

(943)	1991	09	14.34705	22	41	35.58	-20 54 07.3	9	675
(958)	1992	08	03.44792	03	11	35.45	+22 19 12.8	9	675
(958)	1992	08	03.47448	03	11	36.85	+22 19 20.9	9	675
(960)	1992	08	03.44792	03	20	12.22	+20 45 08.0	9	675
(960)	1992	08	03.47448	03	20	14.94	+20 45 19.2	9	675
(1001)	1951	07	30.29028	19	42	31.28	-12 48 32.2	6	675
(1001)	1951	07	30.31528	19	42	30.10	-12 48 34.1	6	675
(1014)	1992	08	02.32882	22	03	44.92	-08 38 13.6	9	675
(1014)	1992	08	02.37118	22	03	43.00	-08 38 22.4	9	675
(1014)	1992	08	06.35174	22	00	49.04	-08 52 09.4	9	675
(1014)	1992	08	06.36493	22	00	48.46	-08 52 12.7	9	675
(1014)	1992	08	06.39149	22	00	47.19	-08 52 18.1	9	675
(1014)	1992	08	06.40416	22	00	46.69	-08 52 22.5	9	675
(1014)	1992	08	07.34688	22	00	04.14	-08 55 46.2	9	675
(1014)	1992	08	07.38194	22	00	02.49	-08 55 54.1	9	675
(1023)	1992	07	31.34236	21	33	41.52	-01 32 24.9	9	675
(1023)	1992	07	31.37830	21	33	40.07	-01 32 32.4	9	675
(1023)	1992	08	02.32188	21	32	22.96	-01 39 50.0	9	675
(1023)	1992	08	02.36510	21	32	21.17	-01 40 00.1	9	675
(1023)	1992	08	06.34373	21	29	37.80	-01 56 37.1	9	675
(1023)	1992	08	06.38524	21	29	36.03	-01 56 48.0	9	675
(1028)	1991	09	14.29740	22	33	02.85	-23 13 01.5	9	675
(1028)	1991	09	14.34705	22	33	00.71	-23 13 08.0	9	675
(1062)	1992	08	02.32882	22	20	18.83	-12 54 36.2	9	675
(1062)	1992	08	02.37118	22	20	17.08	-12 54 42.9	9	675
(1062)	1992	08	06.36493	22	17	30.40	-13 05 20.5	9	675
(1062)	1992	08	06.40416	22	17	28.67	-13 05 27.0	9	675
(1072)	1992	06	06.26441	15	37	29.31	-24 06 59.0	9	675
(1072)	1992	06	06.29931	15	37	27.66	-24 06 55.5	9	675
(1082)	1992	06	04.26024	15	20	08.52	-15 37 01.8	9	675
(1082)	1992	06	04.29271	15	20	07.12	-15 36 56.8	9	675
(1116)	1991	09	16.27778	21	57	45.60	-22 58 59.0	9	675
(1116)	1991	09	16.32500	21	57	43.24	-22 58 51.1	9	675
(1122)	1991	09	14.29740	22	22	33.92	-19 33 28.9	9	675
(1122)	1991	09	14.34705	22	22	31.41	-19 33 35.7	9	675
(1129)	1953	03	09.31250	10	43	27.37	-04 57 32.3	6	675
(1129)	1953	03	09.33576	10	43	26.22	-04 57 26.1	6	675
(1129)	1992	08	02.34566	22	11	11.39	+00 10 35.2	9	675
(1129)	1992	08	02.38559	22	11	09.70	+00 10 34.3	9	675
(1129)	1992	08	06.41024	22	08	25.48	+00 08 10.4	9	675
(1129)	1992	08	06.43490	22	08	24.48	+00 08 10.4	9	675
(1129)	1992	08	06.45399	22	08	23.58	+00 08 08.3	9	675
(1129)	1992	08	06.48056	22	08	22.45	+00 08 07.6	9	675
(1129)	1992	08	07.35972	22	07	44.95	+00 07 14.9	9	675
(1129)	1992	08	07.42309	22	07	42.16	+00 07 12.4	9	675
(1143)	1992	06	04.26024	15	21	46.55	-17 28 17.3	9	675
(1143)	1992	06	04.29271	15	21	45.65	-17 28 13.5	9	675
(1152)	1992	08	02.32882	22	06	26.80	-13 20 40.5	9	675
(1152)	1992	08	02.37118	22	06	24.52	-13 20 47.6	9	675
(1152)	1992	08	06.36493	22	02	51.37	-13 31 47.3	9	675
(1152)	1992	08	06.40416	22	02	49.10	-13 31 54.0	9	675
(1167)	1992	06	04.26024	15	24	18.93	-16 30 52.7	9	675
(1167)	1992	06	04.29271	15	24	17.69	-16 30 45.8	9	675
(1176)	1982	10	14.15764	19	37	44.87	-16 39 34.2	6	675
(1176)	1991	09	13.20573	20	25	06.39	-12 04 12.0	17.0	9 675
(1176)	1991	09	13.26619	20	25	05.21	-12 04 16.0	9	675
(1198)	1992	08	03.44792	03	23	57.84	+21 26 09.5	9	675
(1198)	1992	08	03.47448	03	24	01.84	+21 26 24.2	9	675
(1215)	1992	08	05.41337	21	59	53.18	-20 28 10.9	9	675

(1215)	1992	08	05.45208	21	59	51.46	-20	28	39.4	9 675
(1215)	1992	08	06.35833	21	59	12.86	-20	39	52.4	9 675
(1215)	1992	08	06.39757	21	59	11.07	-20	40	21.5	9 675
(1225)	1978	10	27.30539	00	58	33.42	+07	24	50.9	6 675
(1225)	1978	10	28.29411	00	57	39.99	+07	20	54.2	6 675
(1225)	1978	10	29.30729	00	56	46.38	+07	16	57.6	6 675
(1225)	1978	11	28.16875	00	43	25.33	+06	28	09.8	6 675
(1225)	1978	11	29.16308	00	43	27.89	+06	29	12.9	6 675
(1243)	1992	06	04.26024	15	11	03.06	-20	33	09.6	9 675
(1243)	1992	06	04.29271	15	11	01.82	-20	32	56.5	9 675
(1245)	1981	05	08.43507	15	36	33.35	-14	58	50.0	6 675
(1245)	1981	05	09.38021	15	35	47.01	-14	55	45.4	6 675
(1249)	1991	09	13.23385	21	03	58.87	-09	03	36.3	9 675
(1249)	1991	09	13.29080	21	03	57.02	-09	03	48.9	9 675
(1249)	1991	09	14.22390	21	03	29.15	-09	07	17.8	9 675
(1249)	1991	09	14.26053	21	03	27.99	-09	07	25.8	9 675
(1256)	1992	06	04.26024	14	58	49.23	-17	26	06.8	9 675
(1256)	1992	06	04.29271	14	58	48.12	-17	26	01.7	9 675
(1262)	1992	08	05.41337	22	04	01.94	-18	16	41.1	9 675
(1262)	1992	08	05.45208	22	04	00.35	-18	17	00.1	9 675
(1262)	1992	08	06.35833	22	03	23.93	-18	24	23.4	9 675
(1262)	1992	08	06.39757	22	03	22.24	-18	24	42.5	9 675
(1298)	1954	10	06.33021	01	19	42.40	+17	34	14.1	6 675
(1298)	1954	10	06.35139	01	19	41.37	+17	34	07.1	6 675
(1314)	1992	08	02.34566	22	20	05.04	-01	45	51.8	9 675
(1314)	1992	08	02.38559	22	20	03.21	-01	45	53.9	9 675
(1314)	1992	08	06.43490	22	17	05.20	-01	47	26.2	9 675
(1314)	1992	08	06.48056	22	17	02.96	-01	47	27.6	9 675
(1316)	1992	06	04.26024	15	24	23.16	-17	25	23.8	9 675
(1316)	1992	06	04.29271	15	24	21.44	-17	25	03.3	9 675
(1317)	1992	08	03.44792	03	31	30.98	+28	19	03.2	9 675
(1317)	1992	08	03.47448	03	31	33.24	+28	19	23.9	9 675
(1320)	1977	12	07.26979	04	36	32.09	+21	37	05.5	6 675
(1320)	1977	12	08.22292	04	35	37.61	+21	38	47.8	6 675
(1348)	1991	09	14.29740	22	31	56.89	-19	08	36.0	9 675
(1348)	1991	09	14.34705	22	31	54.51	-19	08	46.6	9 675
(1349)	1992	08	04.34549	21	29	40.98	-11	48	09.9	9 675
(1349)	1992	08	05.31667	21	28	49.47	-11	48	32.1	9 675
(1349)	1992	08	05.39844	21	28	44.96	-11	48	34.2	9 675
(1349)	1992	08	07.29740	21	27	03.73	-11	49	23.8	9 675
(1349)	1992	08	07.32986	21	27	01.92	-11	49	24.9	9 675
(1381)	1992	06	06.26441	15	13	21.68	-24	50	43.2	9 675
(1381)	1992	06	06.29931	15	13	19.89	-24	50	36.5	9 675
(1410)	1992	08	06.35174	21	46	58.56	-05	16	17.1	9 675
(1410)	1992	08	06.39149	21	46	56.82	-05	16	31.1	9 675
(1410)	1992	08	07.34688	21	46	17.62	-05	22	09.7	9 675
(1410)	1992	08	07.38194	21	46	16.11	-05	22	22.4	9 675
(1416)	1992	08	05.41337	21	56	24.63	-21	20	07.6	9 675
(1416)	1992	08	05.45208	21	56	22.58	-21	20	13.3	9 675
(1416)	1992	08	06.35833	21	55	37.08	-21	22	19.9	9 675
(1416)	1992	08	06.39757	21	55	35.04	-21	22	26.0	9 675
(1424)	1991	09	16.27778	22	17	14.52	-24	00	27.2	9 675
(1424)	1991	09	16.32500	22	17	12.58	-24	00	27.4	9 675
(1435)	1991	09	13.20573	20	44	05.24	-13	49	28.5	18.5 9 675
(1435)	1991	09	13.23385	20	44	04.48	-13	49	32.9	9 675
(1435)	1991	09	13.26619	20	44	03.52	-13	49	42.0	9 675
(1435)	1991	09	13.29080	20	44	02.87	-13	49	44.5	9 675
(1435)	1991	09	14.22390	20	43	39.10	-13	52	56.9	9 675
(1435)	1991	09	14.26053	20	43	37.82	-13	53	04.1	9 675

(1465)	1992	08	04.34549	21	19	10.92	-07	47	06.0	9 675
(1465)	1992	08	05.31667	21	18	27.56	-07	52	51.9	9 675
(1465)	1992	08	05.39844	21	18	23.77	-07	53	20.9	9 675
(1465)	1992	08	07.29740	21	16	58.68	-08	04	44.3	9 675
(1502)	1991	09	13.20573	20	42	26.32	-12	58	45.3	17.0 9 675
(1502)	1991	09	13.23385	20	42	25.74	-12	58	51.2	9 675
(1502)	1991	09	13.26619	20	42	25.00	-12	58	57.9	9 675
(1502)	1991	09	13.29080	20	42	24.48	-12	59	02.5	9 675
(1502)	1991	09	14.22390	20	42	05.77	-13	02	02.2	9 675
(1502)	1991	09	14.26053	20	42	04.99	-13	02	09.0	9 675
(1503)	1992	08	02.32882	22	14	40.47	-08	10	12.5	9 675
(1503)	1992	08	02.37118	22	14	38.33	-08	10	13.9	9 675
(1503)	1992	08	06.36493	22	11	15.34	-08	12	03.1	9 675
(1503)	1992	08	06.40416	22	11	13.22	-08	12	04.9	9 675
(1522)	1992	08	05.41337	22	23	31.14	-19	32	24.9	9 675
(1522)	1992	08	05.45208	22	23	29.15	-19	32	39.0	9 675
(1522)	1992	08	06.35833	22	22	45.31	-19	38	18.8	9 675
(1522)	1992	08	06.39757	22	22	43.29	-19	38	33.4	9 675
(1529)	1991	09	14.29740	22	41	58.14	-19	42	46.6	9 675
(1529)	1991	09	14.34705	22	41	56.24	-19	42	57.1	9 675
(1534)	1991	09	14.29740	22	45	09.11	-23	32	14.9	17.2 9 675
(1534)	1991	09	14.34705	22	45	06.43	-23	32	24.0	9 675
(1541)	1978	10	27.30539	01	01	29.18	+09	24	01.4	6 675
(1541)	1978	10	28.29411	01	00	43.23	+09	20	22.7	6 675
(1541)	1978	10	29.30729	00	59	56.99	+09	16	40.5	6 675
(1541)	1978	11	28.16875	00	46	00.43	+08	08	02.8	6 675
(1541)	1978	11	29.16308	00	45	53.14	+08	07	32.4	6 675
(1546)	1991	09	12.20822	21	20	26.99	+00	01	03.3	9 675
(1546)	1991	09	12.26152	21	20	25.38	+00	00	38.3	9 675
(1563)	1992	06	08.29271	15	34	32.47	-21	44	56.2	9 675
(1563)	1992	06	08.33524	15	34	30.15	-21	44	56.3	9 675
(1680)	1992	06	04.26024	15	05	52.87	-14	16	51.2	9 675
(1680)	1992	06	04.29271	15	05	51.60	-14	16	52.8	9 675
(1709)	1991	09	13.23385	20	54	08.74	-09	25	26.4	9 675
(1709)	1991	09	13.29080	20	54	07.85	-09	25	19.4	9 675
(1709)	1991	09	14.22390	20	53	57.60	-09	23	28.4	9 675
(1709)	1991	09	14.26053	20	53	57.08	-09	23	23.8	9 675
(1731)	1981	05	08.43507	15	47	28.63	-11	27	09.9	6 675
(1731)	1981	05	09.38021	15	46	47.18	-11	24	07.6	6 675
(1732)	1992	08	06.35174	21	42	55.79	-08	58	08.9	9 675
(1732)	1992	08	06.39149	21	42	54.05	-08	58	25.3	9 675
(1732)	1992	08	07.29740	21	42	16.80	-09	05	02.5	9 675
(1760)	1991	09	10.31389	22	58	53.86	+05	14	23.8	9 675
(1760)	1991	09	10.36476	22	58	51.65	+05	14	07.5	9 675
(1778)	1992	06	08.29271	15	57	35.28	-17	57	26.7	9 675
(1778)	1992	06	08.33524	15	57	33.43	-17	57	26.1	9 675
(1793)	1992	08	04.34549	21	31	06.43	-11	55	03.2	9 675
(1793)	1992	08	05.31667	21	30	08.35	-11	59	39.9	9 675
(1793)	1992	08	05.39844	21	30	03.25	-12	00	03.4	9 675
(1793)	1992	08	07.29740	21	28	08.76	-12	09	11.9	9 675
(1793)	1992	08	07.32986	21	28	06.69	-12	09	21.5	9 675
(1816)	1991	09	13.23385	21	08	10.89	-11	54	49.3	9 675
(1816)	1991	09	13.29080	21	08	08.93	-11	55	26.6	9 675
(1816)	1991	09	14.22390	21	07	39.47	-12	05	31.1	9 675
(1816)	1991	09	14.26053	21	07	38.22	-12	05	55.1	9 675
(1832)	1992	08	02.34566	22	31	59.67	+01	26	16.8	9 675
(1832)	1992	08	02.38559	22	31	58.12	+01	26	23.5	9 675
(1832)	1992	08	06.43490	22	29	15.88	+01	35	30.8	9 675
(1832)	1992	08	06.48056	22	29	13.98	+01	35	35.4	9 675

(1837)	1978	11	28.16875	00	47	45.66	+10 45 30.4		6 675
(1837)	1978	11	29.16308	00	47	45.28	+10 42 42.8		6 675
(1846)	1978	10	27.30539	01	02	53.82	+07 15 55.6		6 675
(1846)	1978	10	28.29411	01	02	00.39	+07 12 20.6		6 675
(1846)	1978	10	29.30729	01	01	06.64	+07 08 46.3		6 675
(1846)	1978	11	28.16875	00	47	24.80	+06 30 20.2		6 675
(1846)	1978	11	29.16308	00	47	26.96	+06 31 45.5		6 675
(1855)	1992	08	04.34549	21	10	45.46	-11 35 29.7		9 675
(1855)	1992	08	05.31667	21	09	47.66	-11 40 36.6		9 675
(1855)	1992	08	05.39844	21	09	42.69	-11 41 03.9		9 675
(1856)	1992	08	07.34688	22	11	20.61	-05 08 18.9		9 675
(1856)	1992	08	07.38194	22	11	18.74	-05 08 33.5		9 675
(1924)	1978	10	27.30539	00	59	15.13	+08 59 54.9		6 675
(1924)	1978	10	28.29411	00	58	22.38	+08 55 09.4		6 675
(1924)	1978	10	29.30729	00	57	29.33	+08 50 20.4		6 675
(1924)	1978	11	28.16875	00	42	45.31	+07 23 37.4		6 675
(1924)	1978	11	29.16308	00	42	42.11	+07 23 08.1		6 675
(1958)	1954	10	06.33021	01	26	57.26	+19 06 17.8		6 675
(1958)	1954	10	06.35139	01	26	56.08	+19 06 16.6		6 675
(1982)	1992	06	06.26441	15	32	59.58	-24 38 35.4		9 675
(1982)	1992	06	06.29931	15	32	57.22	-24 38 36.7		9 675
(1985)	1992	08	02.34566	22	19	16.60	-00 14 26.3		9 675
(1985)	1992	08	02.38559	22	19	14.76	-00 14 24.9		9 675
(1985)	1992	08	06.41024	22	16	21.19	-00 12 36.7		9 675
(1985)	1992	08	06.43490	22	16	20.11	-00 12 37.0		9 675
(1985)	1992	08	06.45399	22	16	19.20	-00 12 36.7		9 675
(1985)	1992	08	06.48056	22	16	18.07	-00 12 36.4		9 675
(1985)	1992	08	07.35972	22	15	38.73	-00 12 27.1		9 675
(1985)	1992	08	07.42309	22	15	35.84	-00 12 26.1		9 675
(1994)	1992	08	03.44792	03	42	17.52	+24 55 31.2	18.0	9 675
(1994)	1992	08	03.47448	03	42	20.01	+24 55 42.9		9 675
(2062)	1955	12	17.19653	03	37	03.93	-28 47 55.2		6 675
(2062)	1955	12	17.20139	03	37	03.11	-28 47 38.4		6 675
(2062)	1955	12	17.20417	03	37	02.37	-28 47 23.8		6 675
(2114)	1978	10	27.30539	01	11	50.01	+07 55 26.0		6 675
(2114)	1978	10	28.27848	01	11	10.97	+07 51 32.3		6 675
(2114)	1978	10	29.30729	01	10	30.18	+07 47 30.0		6 675
(2114)	1978	11	28.16875	00	57	01.49	+06 25 39.4		6 675
(2114)	1978	11	29.16308	00	56	49.81	+06 24 27.6		6 675
(2128)	1991	09	14.29740	22	20	54.94	-23 03 20.2		9 675
(2128)	1991	09	14.34705	22	20	52.00	-23 02 19.8		9 675
(2128)	1991	09	16.27778	22	19	08.66	-22 23 16.8		9 675
(2128)	1991	09	16.32500	22	19	06.09	-22 22 19.9		9 675
(2167)	1992	07	31.34236	21	31	44.27	-05 54 57.7		9 675
(2167)	1992	07	31.37830	21	31	42.35	-05 55 03.0		9 675
(2167)	1992	08	02.32188	21	30	01.64	-06 00 33.9		9 675
(2167)	1992	08	02.36510	21	29	59.37	-06 00 41.3		9 675
(2167)	1992	08	04.34549	21	28	14.93	-06 06 42.8		9 675
(2167)	1992	08	05.31667	21	27	23.38	-06 09 47.4		9 675
(2167)	1992	08	05.39844	21	27	18.90	-06 10 03.1		9 675
(2167)	1992	08	07.29740	21	25	37.35	-06 16 18.6		9 675
(2167)	1992	08	07.32986	21	25	35.49	-06 16 26.1		9 675
(2180)	1992	07	31.34236	21	40	50.49	+01 11 18.2		9 675
(2180)	1992	07	31.37830	21	40	48.96	+01 11 15.1		9 675
(2180)	1992	08	02.32188	21	39	27.73	+01 08 11.3		9 675
(2180)	1992	08	02.36510	21	39	25.85	+01 08 06.5		9 675
(2180)	1992	08	06.34373	21	36	32.89	+00 59 44.4		9 675
(2180)	1992	08	06.38524	21	36	30.98	+00 59 38.6		9 675
(2230)	1981	05	08.43507	15	40	26.57	-15 43 31.5		6 675

(2230)		1981	05	09.38021	15	39	39.88	-15	40	32.1		6	675
(2274)		1992	08	02.32882	22	03	55.76	-13	32	36.0	17.5	9	675
(2274)		1992	08	02.37118	22	03	53.45	-13	32	47.3		9	675
(2274)		1992	08	06.36493	22	00	17.78	-13	50	11.8		9	675
(2274)		1992	08	06.40416	22	00	15.49	-13	50	21.6		9	675
(2304)		1953	03	09.31250	10	35	27.19	-03	53	05.4		6	675
(2304)		1953	03	09.33576	10	35	26.11	-03	52	52.5		6	675
(2309)		1992	08	04.34549	21	35	47.65	-08	54	19.4		9	675
(2309)		1992	08	05.31667	21	35	06.64	-09	00	23.7		9	675
(2309)		1992	08	05.39844	21	35	03.07	-09	00	53.7		9	675
(2309)		1992	08	07.29740	21	33	42.00	-09	12	56.7		9	675
(2309)		1992	08	07.32986	21	33	40.52	-09	13	08.9		9	675
(2323)		1992	08	05.41337	21	56	21.12	-17	28	10.0		9	675
(2323)		1992	08	05.45208	21	56	19.41	-17	28	18.7		9	675
(2323)		1992	08	06.35833	21	55	39.37	-17	31	25.9		9	675
(2323)		1992	08	06.39757	21	55	37.61	-17	31	34.5		9	675
(2380)		1978	11	28.16875	00	58	54.46	+09	29	50.3		6	675
(2380)		1978	11	29.16308	00	58	55.55	+09	29	00.5		6	675
(2401)		1992	06	08.29271	15	49	53.30	-21	48	04.8		9	675
(2401)		1992	06	08.33524	15	49	51.11	-21	48	02.0		9	675
(2403)		1991	09	13.23385	21	09	31.99	-12	37	30.1		9	675
(2403)		1991	09	13.29080	21	09	30.59	-12	37	34.8		9	675
(2403)		1991	09	14.22390	21	09	10.62	-12	38	46.7		9	675
(2403)		1991	09	14.26053	21	09	09.75	-12	38	49.5		9	675
(2446)		1992	06	04.26024	15	05	49.43	-21	40	24.2		9	675
(2446)		1992	06	04.29271	15	05	47.94	-21	40	20.3		9	675
(2454)		1992	08	03.47448	03	39	09.54	+22	33	39.1		9	675
(2483)		1977	12	07.26979	04	38	50.86	+22	07	43.4		6	675
(2483)		1977	12	08.22292	04	38	07.65	+22	04	47.2		6	675
(2493)		1981	05	08.43507	15	48	00.55	-13	36	05.6		6	675
(2493)		1981	05	09.38021	15	47	15.05	-13	30	52.9		6	675
(2499)		1992	06	08.29271	15	50	02.16	-19	09	13.7		9	675
(2499)		1992	06	08.33524	15	50	00.33	-19	09	08.7		9	675
(2509)		1992	06	06.26441	15	24	06.43	-23	33	45.9		9	675
(2509)		1992	06	06.29931	15	24	04.51	-23	33	38.3		9	675
(2562)		1949	11	19.13194	00	14	59.54	+11	11	02.1		6	675
(2590)		1992	08	03.44792	03	27	09.25	+20	46	41.6		9	675
(2590)		1992	08	03.47448	03	27	12.10	+20	46	49.0		9	675
(2594)		1978	10	27.30539	00	58	32.81	+09	08	04.6		6	675
(2594)		1978	10	28.29411	00	58	05.70	+09	05	39.0		6	675
(2594)		1978	10	29.30729	00	57	38.16	+09	03	10.0		6	675
(2594)		1978	11	28.16875	00	48	13.20	+08	09	25.5		6	675
(2594)		1978	11	29.16308	00	48	04.34	+08	08	30.5		6	675
(2612)		1991	09	14.29740	22	49	40.91	-22	00	58.9		9	675
(2612)		1991	09	14.34705	22	49	38.69	-22	01	20.4		9	675
(2645)		1954	10	06.33021	01	18	38.24	+21	49	46.6		6	675
(2645)		1954	10	06.35139	01	18	36.43	+21	49	49.1		6	675
(2659)		1992	06	08.29271	15	30	34.24	-17	06	05.5		9	675
(2659)		1992	06	08.33524	15	30	32.79	-17	05	56.9		9	675
(2673)		1977	12	07.26979	04	55	43.18	+22	47	05.0		6	675
(2673)		1977	12	08.22292	04	54	54.55	+22	46	15.3		6	675
(2676)		1978	11	28.16875	00	39	39.07	+11	29	58.3		6	675
(2676)		1978	11	29.16308	00	39	54.02	+11	28	02.4		6	675
(2691)		1992	08	03.47448	03	23	06.23	+22	02	30.2		9	675
(2709)		1992	06	04.26024	15	04	40.96	-17	26	31.9		9	675
(2709)		1992	06	04.29271	15	04	39.55	-17	26	23.0		9	675
(2726)		1992	06	06.26441	15	19	42.74	-20	28	57.2		9	675
(2726)		1992	06	06.29931	15	19	41.25	-20	28	51.5		9	675
(2727)		1991	09	13.20573	20	51	13.17	-13	12	11.6	17.0	9	675

(2727)		1991	09	13.23385	20	51	12.49	-13	12	16.3	9 675
(2727)		1991	09	13.26619	20	51	11.56	-13	12	23.2	9 675
(2727)		1991	09	13.29080	20	51	11.01	-13	12	28.4	9 675
(2727)		1991	09	14.22390	20	50	49.17	-13	15	34.7	9 675
(2727)		1991	09	14.26053	20	50	48.29	-13	15	41.6	9 675
(2746)		1992	08	04.34549	21	19	52.14	-10	53	12.1	9 675
(2746)		1992	08	05.31667	21	18	55.96	-10	58	46.2	9 675
(2746)		1992	08	05.39844	21	18	51.08	-10	59	13.7	9 675
(2746)		1992	08	07.29740	21	17	00.28	-11	10	16.6	9 675
(2746)		1992	08	07.32986	21	16	58.32	-11	10	28.1	9 675
(2748)		1992	08	03.44792	03	19	48.20	+21	07	41.4	9 675
(2748)		1992	08	03.47448	03	19	50.19	+21	07	49.5	9 675
(2755)		1992	08	06.41024	22	11	12.07	-02	49	39.0	9 675
(2755)		1992	08	06.45399	22	11	10.35	-02	49	44.4	9 675
(2755)		1992	08	07.35972	22	10	35.44	-02	51	39.0	17.2 9 675
(2755)		1992	08	07.42309	22	10	32.79	-02	51	46.9	9 675
(2770)		1992	06	06.26441	15	18	22.03	-20	33	21.7	9 675
(2770)		1992	06	06.29931	15	18	20.27	-20	33	18.4	9 675
(2771)		1978	10	27.30539	00	51	08.03	+07	53	40.3	6 675
(2771)		1978	10	28.29411	00	50	38.82	+07	41	59.7	6 675
(2771)		1978	10	29.30729	00	50	10.10	+07	30	12.8	6 675
(2795)		1992	07	31.34236	21	36	48.02	-03	37	31.3	16.8 9 675
(2795)		1992	07	31.37830	21	36	46.09	-03	37	38.9	9 675
(2795)		1992	08	02.32188	21	35	05.11	-03	45	02.7	9 675
(2795)		1992	08	02.36510	21	35	02.76	-03	45	12.8	9 675
(2795)		1992	08	06.34373	21	31	28.14	-04	02	23.8	9 675
(2795)		1992	08	06.38524	21	31	25.64	-04	02	36.1	9 675
(2840)		1992	06	04.26024	15	10	24.01	-17	59	59.9	9 675
(2840)		1992	06	04.29271	15	10	22.17	-18	00	01.0	9 675
(2872)		1977	12	07.26979	04	36	49.73	+21	13	04.9	6 675
(2872)		1977	12	08.22292	04	35	54.44	+21	10	01.7	6 675
(2881)		1991	09	13.23385	21	02	17.56	-13	41	00.1	9 675
(2881)		1991	09	13.29080	21	02	15.66	-13	41	17.2	9 675
(2881)		1991	09	14.22390	21	01	48.15	-13	45	29.4	9 675
(2881)		1991	09	14.26053	21	01	47.01	-13	45	37.5	9 675
(2890)		1978	10	27.30539	00	49	33.79	+12	10	08.3	6 675
(2890)		1978	10	28.29411	00	48	42.13	+12	08	40.5	6 675
(2890)		1978	10	29.30729	00	47	50.82	+12	07	11.0	6 675
(2934)		1981	05	08.43507	15	35	52.17	-12	42	24.0	6 675
(2934)		1981	05	09.38021	15	35	10.54	-12	37	24.9	6 675
(2968)		1949	11	19.13194	00	01	46.39	+14	58	33.1	6 675
(2968)		1949	11	19.15799	00	01	47.22	+14	58	24.2	6 675
(2969)		1992	08	02.32882	21	56	58.28	-10	30	21.0	9 675
(2969)		1992	08	02.37118	21	56	56.50	-10	30	31.5	9 675
(2969)		1992	08	06.36493	21	54	00.58	-10	47	27.9	9 675
(2969)		1992	08	06.40416	21	53	58.75	-10	47	37.8	9 675
(2985)		1992	08	05.41337	22	04	34.14	-16	04	59.2	9 675
(2985)		1992	08	05.45208	22	04	32.33	-16	05	07.8	9 675
(2985)		1992	08	06.35833	22	03	50.98	-16	08	56.5	9 675
(2985)		1992	08	06.39757	22	03	49.12	-16	09	05.4	9 675
(3032)		1977	12	07.26979	04	31	14.82	+20	21	24.0	6 675
(3032)		1977	12	08.22292	04	30	21.73	+20	20	37.0	6 675
(3042)		1992	08	02.34566	22	10	47.92	+00	04	20.7	9 675
(3042)		1992	08	02.38559	22	10	46.28	+00	04	16.6	9 675
(3042)		1992	08	06.41024	22	08	10.44	-00	03	53.9	9 675
(3042)		1992	08	06.45399	22	08	08.50	-00	04	01.0	9 675
(3042)		1992	08	07.35972	22	07	30.89	-00	06	30.6	9 675
(3042)		1992	08	07.42309	22	07	28.00	-00	06	41.4	9 675
(3073)		1992	08	04.34549	21	28	03.64	-06	28	07.5	9 675

(3073)	1992	08	05.31667	21	27	08.67	-06	32	47.5	9 675
(3073)	1992	08	05.39844	21	27	03.88	-06	33	12.4	9 675
(3073)	1992	08	07.29740	21	25	15.08	-06	42	40.8	9 675
(3073)	1992	08	07.32986	21	25	13.09	-06	42	50.9	9 675
(3119)	1992	08	02.32882	22	21	48.65	-14	19	22.2	18.2 9 675
(3119)	1992	08	02.37118	22	21	47.17	-14	19	34.3	9 675
(3119)	1992	08	06.36493	22	19	16.96	-14	40	18.4	18.5 9 675
(3119)	1992	08	06.40416	22	19	15.42	-14	40	28.6	9 675
(3134)	1991	09	10.31389	22	51	11.46	+04	08	04.0	9 675
(3134)	1991	09	10.36476	22	51	09.48	+04	07	52.3	9 675
(3140)	1991	09	16.27778	22	02	05.28	-26	20	42.7	9 675
(3140)	1991	09	16.32500	22	02	03.59	-26	20	49.5	9 675
(3147)	1992	08	04.34549	21	40	15.66	-08	26	04.0	9 675
(3147)	1992	08	05.31667	21	39	27.71	-08	29	52.8	9 675
(3147)	1992	08	07.29740	21	37	48.12	-08	37	59.2	9 675
(3147)	1992	08	07.32986	21	37	46.49	-08	38	08.0	9 675
(3158)	1951	08	24.18194	19	14	33.56	-02	51	16.1	6 675
(3158)	1951	08	24.20764	19	14	33.01	-02	51	28.5	6 675
(3158)	1951	08	26.24028	19	14	00.43	-03	08	06.3	6 675
(3158)	1951	08	26.26528	19	14	00.04	-03	08	18.5	6 675
(3158)	1992	08	06.41024	21	59	55.13	+04	49	02.1	9 675
(3158)	1992	08	06.45399	21	59	53.25	+04	48	44.7	9 675
(3158)	1992	08	07.35972	21	59	15.09	+04	43	22.4	9 675
(3158)	1992	08	07.42309	21	59	12.25	+04	42	59.4	9 675
(3178)	1951	07	30.29028	19	31	12.89	-14	18	04.2	6 675
(3178)	1951	07	30.31528	19	31	11.71	-14	18	06.8	6 675
(3178)	1988	09	13.39340	00	09	14.55	+10	50	15.7	9 675
(3178)	1988	09	13.41736	00	09	13.35	+10	50	08.9	9 675
(3178)	1988	09	14.33507	00	08	28.45	+10	45	38.1	17.5 9 675
(3178)	1988	09	14.36910	00	08	26.69	+10	45	27.6	9 675
(3178)	1992	08	02.34566	22	23	54.07	-00	04	11.6	9 675
(3178)	1992	08	02.38559	22	23	52.51	-00	04	17.3	9 675
(3178)	1992	08	06.43490	22	21	07.27	-00	14	09.8	9 675
(3178)	1992	08	06.48056	22	21	05.39	-00	14	16.9	9 675
(3202)	1992	08	02.34566	22	08	21.07	+01	12	23.0	9 675
(3202)	1992	08	02.38559	22	08	19.77	+01	12	18.4	9 675
(3202)	1992	08	06.41024	22	06	15.99	+01	01	46.8	17.5 9 675
(3202)	1992	08	06.45399	22	06	14.60	+01	01	39.2	9 675
(3202)	1992	08	07.35972	22	05	45.75	+00	59	03.2	17.8 9 675
(3202)	1992	08	07.42309	22	05	43.74	+00	58	52.4	9 675
(3276)	1977	12	07.26979	04	36	01.96	+22	06	10.3	6 675
(3276)	1977	12	08.22292	04	35	10.54	+22	05	33.4	6 675
(3336)	1978	10	27.30539	00	47	43.82	+06	19	18.9	6 675
(3336)	1978	10	28.29411	00	47	09.54	+06	14	47.6	6 675
(3336)	1978	10	29.30729	00	46	35.95	+06	10	18.6	6 675
(3336)	1978	11	28.16875	00	45	02.50	+05	32	00.5	6 675
(3336)	1978	11	29.16308	00	45	29.75	+05	34	00.1	6 675
(3359)	1978	10	28.29411	01	11	25.53	+07	54	22.0	6 675
(3359)	1978	10	29.30729	01	10	26.76	+07	52	50.1	6 675
(3359)	1978	11	28.16875	00	55	06.66	+08	07	45.9	6 675
(3359)	1978	11	29.16308	00	55	07.94	+08	10	42.7	6 675
(3359)	1988	09	10.31667	23	41	14.90	-08	42	59.8	17.0 9 675
(3359)	1988	09	10.35330	23	41	12.51	-08	43	08.4	9 675
(3359)	1988	09	12.33993	23	39	09.76	-08	50	45.1	17.0 9 675
(3359)	1988	09	12.38177	23	39	07.10	-08	50	55.0	9 675
(3359)	1988	10	07.25938	23	15	04.83	-09	45	42.3	9 675
(3359)	1988	10	07.28715	23	15	03.52	-09	45	41.8	9 675
(3382)	1992	08	03.44792	03	24	28.68	+21	19	01.2	9 675
(3382)	1992	08	03.47448	03	24	31.52	+21	19	16.7	9 675

(3405)	1977	12	07.26979	04	46	50.92	+18	23	08.8	6	675
(3405)	1977	12	08.22292	04	45	54.12	+18	17	30.5	6	675
(3410)	1978	10	27.30539	00	50	30.32	+11	28	25.1	6	675
(3410)	1978	10	28.29411	00	49	37.23	+11	23	42.3	6	675
(3410)	1978	10	29.30729	00	48	44.04	+11	18	54.7	6	675
(3421)	1991	09	14.22390	21	10	56.55	-12	03	00.8	9	675
(3421)	1991	09	14.26053	21	10	55.44	-12	03	10.5	9	675
(3428)	1992	08	06.41024	21	57	36.65	+01	23	33.4	9	675
(3428)	1992	08	06.45399	21	57	34.59	+01	23	24.8	9	675
(3428)	1992	08	07.35972	21	56	52.24	+01	20	35.8	9	675
(3428)	1992	08	07.42309	21	56	49.13	+01	20	23.3	9	675
(3444)	1992	08	02.32882	22	11	02.02	-15	26	16.3	9	675
(3444)	1992	08	02.37118	22	10	59.88	-15	26	22.8	9	675
(3444)	1992	08	05.41337	22	08	25.44	-15	34	48.0	9	675
(3444)	1992	08	05.45208	22	08	23.27	-15	34	54.4	9	675
(3444)	1992	08	06.35833	22	07	35.47	-15	37	28.0	9	675
(3444)	1992	08	06.39757	22	07	33.28	-15	37	33.8	9	675
(3505)	1991	09	13.23385	21	05	53.43	-10	51	24.5	9	675
(3505)	1991	09	13.29080	21	05	51.73	-10	51	28.0	9	675
(3505)	1991	09	14.22390	21	05	25.18	-10	52	05.3	9	675
(3505)	1991	09	14.26053	21	05	24.09	-10	52	06.1	9	675
(3507)	1977	12	07.26979	04	43	51.22	+21	02	14.0	6	675
(3507)	1977	12	08.22292	04	43	02.74	+21	01	21.2	6	675
(3531)	1991	09	12.20822	21	37	20.47	-01	07	34.9	9	675
(3548)	1992	06	04.26024	15	23	31.68	-21	02	17.1	9	675
(3548)	1992	06	04.29271	15	23	30.58	-21	02	17.7	9	675
(3548)	1992	06	06.29931	15	22	33.92	-20	59	57.4	9	675
(3552)	1992	08	02.42830	03	19	03.05	+36	56	12.5	18	3 675
(3552)	1992	08	02.46406	03	19	05.81	+36	56	59.0	3	675
(3562)	1981	05	08.43507	15	33	08.42	-11	54	50.3	6	675
(3562)	1981	05	09.38021	15	32	09.78	-11	53	31.6	6	675
(3571)	1954	10	06.33021	01	16	27.13	+16	36	59.6	6	675
(3571)	1954	10	06.35139	01	16	26.24	+16	36	50.4	6	675
(3571)	1992	07	31.34236	21	26	58.40	-04	21	54.3	9	675
(3571)	1992	07	31.37830	21	26	57.06	-04	21	57.8	9	675
(3571)	1992	08	02.32188	21	25	43.87	-04	25	26.5	9	675
(3571)	1992	08	02.36510	21	25	42.21	-04	25	31.3	9	675
(3571)	1992	08	06.34373	21	23	09.46	-04	33	37.2	9	675
(3571)	1992	08	06.38524	21	23	07.74	-04	33	43.7	9	675
(3644)	1992	08	03.47448	03	28	01.79	+20	46	11.5	9	675
(3690)	1978	10	27.30539	01	09	57.79	+12	00	57.4	6	675
(3690)	1978	10	28.29411	01	09	07.36	+11	52	53.1	6	675
(3690)	1978	10	29.30729	01	08	16.73	+11	44	41.9	6	675
(3690)	1978	11	28.16875	00	55	18.29	+08	49	11.8	19.0	6 675
(3690)	1978	11	29.16308	00	55	18.55	+08	46	11.5	6	675
(3692)	1951	08	26.24028	19	32	18.62	-04	34	43.6	6	675
(3692)	1951	08	26.26528	19	32	18.21	-04	34	51.2	6	675
(3715)	1992	08	02.32882	22	25	09.66	-09	30	38.5	9	675
(3715)	1992	08	02.37118	22	25	08.05	-09	30	57.0	9	675
(3715)	1992	08	06.36493	22	22	40.11	-10	00	07.2	9	675
(3715)	1992	08	06.40416	22	22	38.53	-10	00	25.0	9	675
(3730)	1991	09	13.20573	20	37	18.77	-14	48	34.0	16.2	9 675
(3730)	1991	09	13.26619	20	37	17.80	-14	48	29.9	9	675
(3767)	1991	09	14.29740	22	19	19.74	-22	40	37.2	9	675
(3767)	1991	09	14.34705	22	19	17.53	-22	40	52.5	9	675
(3767)	1991	09	16.27778	22	17	56.40	-22	50	49.2	9	675
(3767)	1991	09	16.32500	22	17	54.42	-22	51	03.0	9	675
(3825)	1977	12	07.26979	04	44	59.44	+22	02	38.1	6	675
(3825)	1977	12	08.22292	04	43	50.93	+22	02	47.0	6	675

(3830)	1991	09	12.20822	21	15	22.26	-01	18	34.1	9 675
(3830)	1991	09	12.26152	21	15	20.64	-01	18	49.7	9 675
(3867)	1981	05	08.43507	15	42	26.33	-14	43	08.8	6 675
(3867)	1981	05	09.38021	15	41	28.00	-14	41	57.0	6 675
(3897)	1981	05	08.43507	15	42	15.11	-11	44	17.0	6 675
(3897)	1981	05	09.38021	15	41	27.97	-11	39	10.8	6 675
(3905)	1992	08	05.41337	22	08	31.39	-20	52	59.6	9 675
(3905)	1992	08	05.45208	22	08	29.04	-20	53	02.9	9 675
(3905)	1992	08	06.35833	22	07	34.54	-20	54	29.7	9 675
(3905)	1992	08	06.39757	22	07	32.08	-20	54	33.3	9 675
(3935)	1991	09	13.20573	20	25	37.63	-13	59	24.8	17.0 9 675
(3935)	1991	09	13.26619	20	25	36.37	-13	59	21.1	9 675
(3947)	1992	06	04.26024	15	12	04.58	-20	05	30.0	9 675
(3959)	1991	09	13.23385	21	08	40.93	-11	12	08.6	9 675
(3959)	1991	09	13.29080	21	08	39.18	-11	12	28.6	9 675
(3959)	1991	09	14.22390	21	08	11.99	-11	16	51.2	9 675
(3959)	1991	09	14.26053	21	08	10.87	-11	17	02.1	9 675
(4012)	1991	09	13.20573	20	46	24.76	-09	24	14.8	16.8 9 675
(4012)	1991	09	13.23385	20	46	24.28	-09	24	20.5	9 675
(4012)	1991	09	13.26619	20	46	23.74	-09	24	28.3	9 675
(4012)	1991	09	13.29080	20	46	23.29	-09	24	32.6	9 675
(4012)	1991	09	14.22390	20	46	10.79	-09	27	52.3	9 675
(4012)	1991	09	14.26053	20	46	10.19	-09	27	59.8	9 675
(4016)	1992	06	08.29271	15	57	31.56	-19	40	43.2	9 675
(4016)	1992	06	08.33524	15	57	29.36	-19	40	37.8	9 675
(4028)	1992	08	04.34549	21	39	48.55	-11	03	25.0	9 675
(4028)	1992	08	05.31667	21	38	59.47	-11	08	04.7	9 675
(4028)	1992	08	05.39844	21	38	55.18	-11	08	27.7	9 675
(4028)	1992	08	07.29740	21	37	17.80	-11	17	43.6	9 675
(4028)	1992	08	07.32986	21	37	16.16	-11	17	54.5	9 675
(4035)	1992	06	04.26024	15	31	22.25	-17	50	16.7	9 675
(4035)	1992	06	04.29271	15	31	21.44	-17	50	11.9	9 675
(4051)	1992	08	03.44792	03	18	42.26	+21	02	40.9	19.0 9 675
(4051)	1992	08	03.47448	03	18	44.16	+21	02	49.8	9 675
(4057)	1992	06	06.26441	15	22	21.55	-20	26	47.8	9 675
(4077)	1977	12	07.26979	04	38	35.57	+22	27	51.3	6 675
(4077)	1977	12	08.22292	04	37	41.28	+22	28	59.1	6 675
(4080)	1977	12	07.26979	04	35	50.03	+18	42	38.4	6 675
(4080)	1977	12	08.22292	04	34	43.86	+18	39	08.1	6 675
(4115)	1992	07	31.34236	21	39	58.78	-00	30	08.1	9 675
(4115)	1992	07	31.37830	21	39	57.20	-00	30	14.5	9 675
(4115)	1992	08	02.32188	21	38	37.48	-00	36	29.2	9 675
(4115)	1992	08	02.36510	21	38	35.64	-00	36	38.5	9 675
(4115)	1992	08	06.34373	21	35	46.80	-00	51	06.5	9 675
(4115)	1992	08	06.38524	21	35	44.97	-00	51	15.9	9 675
(4118)	1992	08	02.37118	22	04	36.55	-07	51	10.2	9 675
(4118)	1992	08	06.35174	22	01	36.24	-07	53	34.7	9 675
(4118)	1992	08	06.36493	22	01	35.67	-07	53	35.5	9 675
(4118)	1992	08	06.39149	22	01	34.32	-07	53	36.7	9 675
(4118)	1992	08	06.40416	22	01	33.81	-07	53	38.3	9 675
(4118)	1992	08	07.34688	22	00	49.41	-07	54	21.7	9 675
(4118)	1992	08	07.38194	22	00	47.66	-07	54	24.1	9 675
(4165)	1992	08	02.34566	22	22	59.63	+03	28	40.7	9 675
(4165)	1992	08	02.38559	22	22	58.29	+03	28	24.7	9 675
(4165)	1992	08	06.43490	22	20	48.04	+02	58	52.0	9 675
(4165)	1992	08	06.48056	22	20	46.37	+02	58	30.5	9 675
(4179)	1992	07	26.33681	20	11	20.93	-19	55	07.0	15.0 2 675
(4179)	1992	07	26.38177	20	11	16.09	-19	55	22.7	2 675
(4195)	1991	09	13.20573	20	37	39.72	-16	42	12.9	9 675

(4195)	1991	09	13.26619	20	37	38.57	-16	42	22.3	9 675
(4197)	1954	09	03.38056	23	59	23.44	-09	09	11.1	6 675
(4197)	1954	09	03.40486	23	59	21.31	-09	09	23.0	6 675
(4200)	1953	03	09.31250	10	34	05.76	-05	40	43.6	17.2 6 675
(4200)	1953	03	09.33576	10	34	04.69	-05	40	34.6	6 675
(4200)	1991	09	12.20822	21	40	50.55	-02	11	13.0	9 675
(4200)	1991	09	12.26152	21	40	48.45	-02	11	31.2	9 675
(4200)	1992	08	03.47448	03	36	53.81	+22	57	44.8	9 675
(4202)	1992	08	04.34549	21	19	47.23	-13	02	23.7	9 675
(4202)	1992	08	05.31667	21	19	04.53	-13	09	21.0	9 675
(4202)	1992	08	05.39844	21	19	00.76	-13	09	55.6	9 675
(4202)	1992	08	07.29740	21	17	36.85	-13	23	35.5	9 675
(4202)	1992	08	07.32986	21	17	35.36	-13	23	49.4	9 675
(4254)	1953	03	09.31250	10	18	46.71	-04	13	57.6	6 675
(4254)	1953	03	09.33576	10	18	45.70	-04	13	42.9	6 675
(4271)	1982	10	14.15764	19	44	38.29	-16	08	35.2	6 675
(4308)	1991	09	13.23385	20	57	14.41	-09	53	48.5	9 675
(4308)	1991	09	13.29080	20	57	12.51	-09	53	48.2	9 675
(4308)	1991	09	14.22390	20	56	44.40	-09	53	17.6	9 675
(4308)	1991	09	14.26053	20	56	43.28	-09	53	16.3	9 675
(4311)	1978	11	28.16875	00	34	35.98	+05	29	33.7	18.8 6 675
(4311)	1978	11	29.16308	00	35	00.21	+05	28	29.5	6 675
(4323)	1991	09	13.20573	20	18	21.23	-11	56	29.4	9 675
(4323)	1991	09	13.26619	20	18	21.39	-11	56	34.2	9 675
(4347)	1992	06	08.29271	15	31	13.29	-18	41	37.7	9 675
(4347)	1992	06	08.33524	15	31	11.73	-18	41	33.6	9 675
(4351)	1992	06	04.26024	15	09	03.94	-14	06	25.9	17.8 9 675
(4351)	1992	06	04.29271	15	09	02.58	-14	06	22.2	9 675
(4360)	1992	06	04.26024	15	17	49.44	-22	05	01.1	9 675
(4360)	1992	06	04.29271	15	17	47.69	-22	04	54.5	9 675
(4373)	1981	05	08.43507	15	52	07.91	-12	05	19.1	6 675
(4373)	1981	05	09.38021	15	51	12.33	-12	01	14.3	6 675
(4392)	1978	11	28.16875	00	49	11.12	+05	39	34.8	6 675
(4392)	1978	11	29.16308	00	49	16.74	+05	43	08.9	6 675
(4412)	1981	05	08.43507	15	45	49.94	-16	43	03.5	6 675
(4412)	1981	05	09.38021	15	45	06.43	-16	40	32.7	6 675
(4415)	1978	11	28.16875	00	55	15.12	+08	49	27.8	20.0 6 675
(4415)	1978	11	29.16308	00	55	09.89	+08	48	15.1	6 675
(4435)	1992	08	05.41337	22	13	47.04	-17	03	47.7	9 675
(4435)	1992	08	05.45208	22	13	44.12	-17	03	43.9	9 675
(4435)	1992	08	06.35833	22	12	37.90	-17	02	25.2	9 675
(4435)	1992	08	06.39757	22	12	34.93	-17	02	21.6	9 675
(4437)	1991	09	13.20573	20	17	15.16	-12	57	44.8	17.8 9 675
(4437)	1991	09	13.26619	20	17	14.73	-12	57	55.9	9 675
(4444)	1992	08	05.41337	21	56	43.07	-17	19	27.9	9 675
(4444)	1992	08	05.45208	21	56	41.29	-17	19	51.4	9 675
(4444)	1992	08	06.35833	21	56	00.99	-17	28	56.7	9 675
(4444)	1992	08	06.39757	21	55	59.02	-17	29	20.5	9 675
(4449)	1992	08	02.32882	22	11	51.91	-07	52	40.6	9 675
(4449)	1992	08	02.37118	22	11	50.11	-07	52	45.9	9 675
(4449)	1992	08	06.36493	22	09	04.98	-08	01	11.4	9 675
(4449)	1992	08	06.40416	22	09	03.26	-08	01	16.9	9 675
(4455)	1992	08	06.41024	21	54	51.69	+01	42	09.9	9 675
(4455)	1992	08	06.45399	21	54	49.79	+01	42	04.3	9 675
(4455)	1992	08	07.35972	21	54	10.89	+01	40	13.1	9 675
(4455)	1992	08	07.42309	21	54	08.09	+01	40	04.2	9 675
(4471)	1992	08	05.41337	22	27	13.07	-18	34	11.3	9 675
(4471)	1992	08	05.45208	22	27	10.94	-18	34	14.8	9 675
(4471)	1992	08	06.35833	22	26	25.09	-18	34	43.8	9 675

(4471)		1992	08	06.39757	22	26	23.02	-18	34	43.9		9 675
(4476)		1992	08	05.41337	22	01	20.35	-16	24	01.5		9 675
(4476)		1992	08	05.45208	22	01	18.39	-16	24	17.5		9 675
(4476)		1992	08	06.35833	22	00	31.74	-16	29	50.9		9 675
(4476)		1992	08	06.39757	22	00	29.49	-16	30	04.2		9 675
(4479)		1991	09	13.20573	20	31	41.73	-16	36	39.1	18.0	9 675
(4479)		1991	09	13.26619	20	31	40.95	-16	36	50.2		9 675
(4500)		1992	08	02.32882	22	14	51.09	-11	27	04.4		9 675
(4500)		1992	08	02.37118	22	14	49.72	-11	27	20.2		9 675
(4500)		1992	08	06.36493	22	12	18.65	-11	44	31.7	18.2	9 675
(4500)		1992	08	06.40416	22	12	17.06	-11	44	42.5		9 675
(4502)		1951	08	26.24028	19	29	08.86	-08	22	10.3		6 675
(4502)		1951	08	26.26528	19	29	08.33	-08	22	20.7		6 675
(4505)		1992	08	05.41337	22	11	53.10	-18	43	18.2		9 675
(4505)		1992	08	05.45208	22	11	51.53	-18	43	34.8		9 675
(4505)		1992	08	06.35833	22	11	15.62	-18	50	13.0		9 675
(4505)		1992	08	06.39757	22	11	13.99	-18	50	29.9		9 675
(4516)		1991	09	13.20573	20	35	11.94	-14	52	43.7	17.8	9 675
(4516)		1991	09	13.26619	20	35	10.87	-14	52	54.2		9 675
(4522)		1991	09	16.27778	22	02	28.81	-22	16	58.9		9 675
(4522)		1991	09	16.32500	22	02	27.46	-22	17	19.1		9 675
(4527)		1992	08	04.34549	21	39	41.71	-12	17	54.6		9 675
(4527)		1992	08	05.31667	21	39	03.85	-12	25	46.1		9 675
(4527)		1992	08	05.39844	21	39	00.34	-12	26	26.7		9 675
(4527)		1992	08	07.29740	21	37	44.13	-12	42	04.3		9 675
(4527)		1992	08	07.32986	21	37	42.66	-12	42	21.9		9 675
(4557)		1991	09	14.29740	22	28	26.99	-21	42	10.1	17.5	9 675
(4557)		1991	09	14.34705	22	28	24.84	-21	42	23.3		9 675
(4561)		1978	10	27.30539	01	05	05.17	+11	45	53.4		6 675
(4561)		1978	10	28.29411	01	04	08.85	+11	45	06.9		6 675
(4561)		1978	10	29.30729	01	03	12.10	+11	44	19.0		6 675
(4578)		1981	05	08.43507	15	46	48.89	-11	31	50.4		6 675
(4578)		1981	05	09.38021	15	45	57.08	-11	29	03.4		6 675
(4693)		1992	06	08.29271	15	53	04.69	-19	58	41.1		9 675
(4693)		1992	06	08.33524	15	53	02.48	-19	58	30.1		9 675
(4715)		1954	10	06.33021	01	25	07.95	+18	37	05.7		6 675
(4715)		1954	10	06.35139	01	25	07.18	+18	37	04.4		6 675
(4728)		1992	06	06.26441	15	07	59.28	-23	27	40.7		9 675
(4728)		1992	06	06.29931	15	07	57.42	-23	27	36.5		9 675
(4756)		1951	07	30.29028	19	36	40.17	-09	40	27.6		6 675
(4756)		1951	07	30.31528	19	36	39.10	-09	40	29.8		6 675
(4794)		1991	09	13.20573	20	23	15.34	-14	53	28.7	17.5	9 675
(4794)		1991	09	13.26619	20	23	14.45	-14	53	41.3		9 675
(4802)		1992	08	02.32882	22	20	09.73	-11	27	57.2		9 675
(4802)		1992	08	02.37118	22	20	08.33	-11	28	07.6		9 675
(4802)		1992	08	06.36493	22	17	57.25	-11	44	18.2		9 675
(4802)		1992	08	06.40416	22	17	55.57	-11	44	28.9		9 675
(4841)		1992	08	02.32882	21	56	05.05	-11	53	07.3		9 675
(4841)		1992	08	02.37118	21	56	02.89	-11	53	19.0		9 675
(4850)		1992	08	02.37118	21	57	13.50	-10	12	15.3		9 675
(4850)		1992	08	06.36493	21	54	21.31	-10	28	29.4	17.5	9 675
(4850)		1992	08	06.40416	21	54	19.54	-10	28	40.7		9 675
(4866)		1981	05	08.43507	15	54	28.52	-15	05	26.6		6 675
(4866)		1981	05	09.38021	15	53	46.09	-15	00	21.9		6 675
(4877)		1951	08	26.24028	19	16	38.88	-05	13	00.6		6 675
(4877)		1951	08	26.26528	19	16	38.44	-05	13	06.6		6 675
(4897)		1992	07	26.39722	20	31	49.91	-02	51	42.9	16.0	2 675
(4897)		1992	07	26.42101	20	31	48.85	-02	51	49.1		2 675
(4897)		1992	07	28.38628	20	30	21.79	-03	00	44.1		2 675

(4897)	1992 07 28.41076	20 30 20.59	-03 00 52.8		2	675
(4920)	1991 09 13.20573	20 38 12.21	-15 46 04.8	18.0	9	675
(4920)	1991 09 13.26619	20 38 11.10	-15 46 14.1		9	675
(4921)	1991 09 13.23385	20 45 18.78	-09 02 25.1		9	675
(4921)	1991 09 13.29080	20 45 17.77	-09 02 39.3		9	675
(4921)	1991 09 14.22390	20 45 04.25	-09 06 31.8		9	675
(4921)	1991 09 14.26053	20 45 03.62	-09 06 40.8		9	675
(4925)	1991 09 12.20822	21 22 59.41	-01 15 46.2		9	675
(4925)	1991 09 12.26152	21 22 57.70	-01 16 03.8		9	675
(4944)	1992 08 03.44792	03 17 04.88	+22 33 25.9		9	675
(4965)	1978 10 27.30539	00 50 25.37	+06 37 35.4		6	675
(4965)	1978 10 28.29411	00 49 46.92	+06 33 11.4		6	675
(4965)	1978 10 29.30729	00 49 08.41	+06 28 46.4		6	675
(4965)	1978 11 28.16875	00 39 40.62	+05 15 01.0		6	675
(4965)	1978 11 29.16308	00 39 42.62	+05 14 44.6		6	675
(4967)	1991 09 16.27778	21 52 53.73	-24 41 50.6		9	675
(4967)	1991 09 16.32500	21 52 52.23	-24 42 03.1		9	675
(4984)	1991 09 13.20573	20 33 43.10	-14 57 32.3	17.5	9	675
(4984)	1991 09 13.26619	20 33 43.72	-14 57 33.9		9	675
(4993)	1991 09 16.27778	21 53 03.40	-23 21 49.6		9	675
(4993)	1991 09 16.32500	21 53 01.73	-23 21 47.6		9	675
(5006)	1991 09 14.29740	22 46 02.34	-17 40 12.2		9	675
(5006)	1991 09 14.34705	22 46 00.19	-17 40 23.7		9	675
(5022)	1991 09 12.20822	21 30 37.19	+01 31 02.6		9	675
(5022)	1991 09 12.26152	21 30 35.50	+01 30 40.7		9	675
(5041)	1992 06 06.26441	15 16 54.30	-24 30 52.5		9	675
(5041)	1992 06 06.29931	15 16 53.30	-24 30 51.7		9	675
(5118)	1953 03 09.31250	10 31 53.38	-09 57 55.4		6	675
(5118)	1953 03 09.33576	10 31 52.25	-09 57 49.9		6	675
(5118)	1992 07 26.35104	20 27 43.46	+00 38 26.8	15.0	2	675
(5118)	1992 07 26.37587	20 27 42.01	+00 38 30.8		2	675
(5118)	1992 07 28.34497	20 25 57.71	+00 44 17.8		2	675
(5118)	1992 07 28.36788	20 25 56.40	+00 44 21.7		2	675
(5128)	1954 09 03.38056	23 59 14.30	-08 23 07.9		6	675
(5128)	1954 09 03.40486	23 59 13.17	-08 23 15.0		6	675
(5237)	1992 06 06.26441	15 22 56.01	-22 52 49.9		9	675
(5237)	1992 06 06.29931	15 22 54.12	-22 52 47.8		9	675
(5275)	1992 06 08.29271	15 34 58.54	-17 21 59.0	17.0	9	675
(5275)	1992 06 08.33524	15 34 55.95	-17 21 44.1		9	675
(5278)	1992 07 27.30920	19 21 38.05	-15 16 14.6	16.5	2	675
(5278)	1992 07 27.33316	19 21 36.66	-15 16 16.5		2	675
(5278)	1992 07 29.25156	19 19 50.46	-15 20 50.7		2	675
(5278)	1992 07 29.27431	19 19 49.26	-15 20 51.5		2	675
(5286)	1992 06 04.26024	15 17 20.90	-14 13 31.6	17.5	9	675
(5286)	1992 06 04.29271	15 17 19.53	-14 13 27.0		9	675

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

(4015)	1992 08 08.39409	03 50 26.56	+25 33 20.9		688
(4015)	1992 08 08.46944	03 50 52.41	+25 34 34.8		688

690 Lowell Observatory
E. Bowell, Lowell Observatory, 1400 West Mars Hill Road,
Flagstaff, AZ 86001, U.S.A.
Observer C. W. Tombaugh

Measurer B. A. Skiff
0.33-m photographic telescope

(278)		1931 12 03.19514	02 53 39.08	+14 34 04.5			690
(278)		1931 12 04.16458	02 52 55.55	+14 33 16.0			690
(278)		1931 12 05.18056	02 52 11.02	+14 32 29.1			690
(962)		1931 12 04.16458	02 47 45.39	+12 05 37.5			690
(1347)		1931 12 04.16458	02 54 37.18	+14 36 21.0			690
(1347)		1931 12 05.18056	02 54 01.14	+14 28 29.1			690
(2201)		1931 12 03.22708	02 53 31.83	+14 14 37.0			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

1981 UE26		1991 11 04.47091	03 08 41.99	+13 26 58.2	17.2 V		691
1981 UE26		1991 11 04.48979	03 08 40.97	+13 26 54.4			691
1981 UE26		1991 11 04.50849	03 08 40.00	+13 26 51.1			691
1991 PN10		1991 09 09.31575	23 10 58.32	-04 36 45.2			691
1991 PN10		1991 09 09.33630	23 10 57.24	-04 37 15.4	16.6 V		691
1991 PN10		1991 09 09.35860	23 10 56.06	-04 37 48.4			691
1991 RU30	*	1991 09 05.26808	22 40 27.48	-09 19 37.2	17.6 V		691
1991 RU30		1991 09 05.28855	22 40 26.35	-09 19 46.7			691
1991 RU30		1991 09 05.31732	22 40 24.77	-09 19 59.1			691
1991 RV30	*	1991 09 08.19422	23 13 16.23	-06 38 33.5	17.9 V		691
1991 RV30		1991 09 08.21523	23 13 15.05	-06 38 44.1			691
1991 RV30		1991 09 08.23611	23 13 13.85	-06 38 54.8			691
1991 RW30	*	1991 09 08.19513	23 14 34.97	-06 20 54.4	17.4 V		691
1991 RW30		1991 09 08.21614	23 14 33.63	-06 20 58.6			691
1991 RW30		1991 09 08.23701	23 14 32.26	-06 21 02.4			691
1991 RX30	*	1991 09 08.19568	23 15 22.84	-06 46 40.6	17.6 V		691
1991 RX30		1991 09 08.21669	23 15 21.56	-06 46 43.1			691
1991 RX30		1991 09 08.23757	23 15 20.27	-06 46 45.7			691
1991 RY30	*	1991 09 08.25393	23 06 10.14	-08 38 09.3			691
1991 RY30		1991 09 08.27439	23 06 09.12	-08 38 12.5	18.7 V		691
1991 RY30		1991 09 08.29758	23 06 07.94	-08 38 16.0			691
1991 RZ30	*	1991 09 08.38419	23 14 04.26	-07 11 37.0	17.3 V		691
1991 RZ30		1991 09 08.40559	23 14 03.06	-07 11 46.2			691
1991 RZ30		1991 09 08.42608	23 14 01.89	-07 11 54.2			691
1991 RA31	*	1991 09 09.21294	22 49 23.51	-04 07 02.9			691
1991 RA31		1991 09 09.23442	22 49 22.76	-04 07 27.4	17.3 V		691
1991 RA31		1991 09 09.25503	22 49 22.07	-04 07 49.3			691
1991 RB31	*	1991 09 09.31538	23 10 25.84	-04 34 12.9			691
1991 RB31		1991 09 09.33593	23 10 24.58	-04 34 16.1			691
1991 RB31		1991 09 09.35822	23 10 23.25	-04 34 20.0	17.8 V		691
1991 RC31	*	1991 09 09.31982	23 16 50.65	-04 31 17.4			691
1991 RC31		1991 09 09.34037	23 16 49.51	-04 31 22.4	16.8 V		691
1991 RC31		1991 09 09.36267	23 16 48.28	-04 31 27.2			691
1991 RD31	*	1991 09 09.32000	23 17 05.72	-04 30 32.2	18.7 V		691
1991 RD31		1991 09 09.34055	23 17 04.86	-04 30 42.1			691
1991 RD31		1991 09 09.36285	23 17 03.95	-04 30 52.3			691
1991 RE31	*	1991 09 10.32647	23 12 40.86	-03 20 27.2			691
1991 RE31		1991 09 10.34695	23 12 39.92	-03 20 38.0	18.0 V		691
1991 RE31		1991 09 10.37098	23 12 38.82	-03 20 51.0			691
1991 RF31		1991 09 12.23621	23 11 50.64	-01 56 26.6	17.1 V		691
1991 RF31		1991 09 12.25835	23 11 49.43	-01 56 34.6			691
1991 RF31		1991 09 12.28068	23 11 48.22	-01 56 42.8			691
1991 RG31	*	1991 09 15.24357	23 47 04.53	+01 48 09.1	17.5 V		691

1991 RG31		1991 09 15.26379	23 47 03.49	+01 48 03.2				691
1991 RG31		1991 09 15.28388	23 47 02.47	+01 47 57.0				691
1991 RH31		1991 09 30.27954	00 06 22.28	-06 14 06.9		17.4	V	691
1991 RH31		1991 09 30.30010	00 06 21.30	-06 14 18.7				691
1991 RH31		1991 09 30.32082	00 06 20.31	-06 14 30.6				691
1991 TJ12	*	1991 10 08.17827	00 37 12.41	+06 31 45.5		19.1	V	691
1991 TJ12		1991 10 08.19722	00 37 11.10	+06 31 44.1				691
1991 TJ12		1991 10 08.21645	00 37 09.72	+06 31 42.2				691
1991 VG		1992 04 26.20485	14 35 02.75	+07 44 26.6				691
1991 VG		1992 04 26.20955	14 35 01.62	+07 44 19.9				691
1991 VG		1992 04 26.30565	14 34 37.12	+07 42 02.5				691
1991 VG		1992 04 26.31046	14 34 35.86	+07 41 55.8				691
1991 VG		1992 04 26.36815	14 34 20.86	+07 40 28.4				691
1991 VG		1992 04 26.37983	14 34 17.77	+07 40 10.8				691
1991 VG		1992 04 26.42319	14 34 06.86	+07 39 03.0				691
1991 VG		1992 04 27.19618	14 31 56.15	+07 19 39.1		21.9	V	691
1991 VG		1992 04 27.27133	14 31 37.46	+07 17 50.1				691
1991 VG		1992 04 27.32809	14 31 22.84	+07 16 24.7				691
1991 VG		1992 04 27.44847	14 30 52.85	+07 13 14.5				691
1991 VS9		1991 11 07.18519	02 57 46.97	+13 24 29.4		19.0	V	691
1991 VS9		1991 11 07.19574	02 57 46.20	+13 24 32.7				691
1991 VS9		1991 11 07.20714	02 57 45.35	+13 24 36.0				691

695 Kitt Peak
B. E. A. Mueller, Kitt Peak National Observatory, P.O. Box 26732,
Tucson, AZ 85726, U.S.A.
2.1-m reflector
SAOC

1991 VG		1992 04 03.35059	15 43 58.74	+13 53 17.7				695

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

1935 SC		1992 08 24.29878	00 50 26.54	+05 53 34.6				801
1935 SC		1992 08 24.33963	00 50 26.30	+05 53 46.0				801
1935 SC		1992 08 30.30856	00 49 26.19	+06 18 22.3				801
1935 SC		1992 08 30.34356	00 49 25.50	+06 18 30.2				801
1966 PK		1992 08 24.22243	22 41 58.60	-12 16 41.3				801
1966 PK		1992 08 24.23683	22 41 57.93	-12 16 45.3				801
1966 PK		1992 09 01.20068	22 35 51.91	-12 54 15.9				801
1966 PK		1992 09 01.21865	22 35 51.15	-12 54 20.4				801
1969 LB		1992 08 25.21229	21 55 09.28	-12 23 14.3				801
1969 LB		1992 08 25.23009	21 55 08.40	-12 23 17.3				801
1969 LB		1992 08 30.17806	21 51 15.40	-12 36 15.1				801
1969 LB		1992 08 30.19521	21 51 14.60	-12 36 17.4				801
1971 QR1		1992 08 30.30486	00 34 53.39	+11 33 17.1				801
1971 QR1		1992 08 30.37361	00 34 52.89	+11 33 12.4				801
1974 QX1		1992 08 25.31867	01 18 03.67	+05 23 28.1				801
1974 QX1		1992 08 25.37130	01 18 04.34	+05 23 30.9				801
1974 SF		1992 07 31.22885	20 45 05.13	-08 55 47.9				801
1974 SF		1992 08 02.19847	20 43 23.19	-09 05 46.1				801
1974 SF		1992 08 02.21218	20 43 22.44	-09 05 50.4				801
1974 SD3		1992 08 24.21547	22 40 30.04	+07 20 00.8				801
1974 SD3		1992 08 24.23447	22 40 29.24	+07 19 57.4				801
1974 SD3		1992 08 26.24463	22 39 07.32	+07 13 18.4				801
1974 SD3		1992 08 26.26169	22 39 06.59	+07 13 14.9				801

1975	XP3	1987	01	30.19866	07	04	09.65	+27	30	50.0		801
1976	SW3	1992	08	24.12981	20	09	30.33	-14	45	56.4		801
1976	SW3	1992	08	24.15595	20	09	29.44	-14	46	02.6		801
1976	SW3	1992	09	01.07433	20	05	55.52	-15	15	25.9		801
1976	SW3	1992	09	01.10159	20	05	54.84	-15	15	32.7		801
1976	YP1	1987	12	23.29564	06	17	53.37	+26	00	12.2		801
1978	CH	1992	05	06.25650	15	54	29.27	-11	34	50.5		801
1978	CH	1992	05	06.27130	15	54	28.72	-11	34	49.9		801
1978	SV7	1992	07	26.31087	22	40	32.91	-11	49	18.1		801
1978	SV7	1992	07	26.33226	22	40	32.26	-11	49	20.0		801
1978	SV7	1992	08	02.24133	22	36	41.90	-11	59	46.6		801
1978	SV7	1992	08	02.26844	22	36	40.82	-11	59	49.6		801
1978	TT2	1983	11	08.09637	02	14	37.05	+12	32	52.2	18.5	801
1978	TT2	1992	08	25.23841	22	15	24.88	-15	18	25.8		801
1978	TT2	1992	08	30.19258	22	11	22.34	-15	38	53.7		801
1978	TT2	1992	08	30.20910	22	11	21.50	-15	38	57.6		801
1978	TA7	1992	06	30.13624	17	52	59.71	-18	12	26.0		801
1978	VS5	1992	07	28.22209	19	14	20.66	-19	21	06.7		801
1980	BB	1992	08	25.25339	22	57	58.85	-11	56	23.3		801
1980	BB	1992	08	25.27105	22	57	58.01	-11	56	28.5		801
1980	BB	1992	08	30.24521	22	54	04.64	-12	22	37.1		801
1980	BB	1992	08	30.26005	22	54	03.90	-12	22	41.7		801
1980	FO1	1992	08	02.28299	23	43	11.65	-00	58	25.3		801
1980	FO1	1992	08	02.33963	23	43	10.73	-00	58	28.8		801
1980	FO1	1992	08	24.26994	23	33	42.39	-01	46	20.9		801
1980	FO1	1992	08	24.28450	23	33	41.82	-01	46	24.0		801
1980	KD	1992	08	25.09558	19	54	16.29	-19	05	11.2		801
1980	KD	1992	08	25.12306	19	54	15.56	-19	05	16.7		801
1980	KD	1992	09	01.05177	19	51	55.22	-19	28	21.2		801
1980	KD	1992	09	01.09154	19	51	54.59	-19	28	30.5		801
1981	EU8	1992	08	25.24843	22	55	33.86	-02	15	05.8		801
1981	EU8	1992	08	25.26497	22	55	32.95	-02	15	06.5		801
1981	EU8	1992	09	01.20780	22	49	10.72	-02	22	27.5		801
1981	EU8	1992	09	01.22245	22	49	09.96	-02	22	28.8		801
1981	EZ10	1987	08	22.19266	21	27	13.12	-10	21	38.4		801
1981	EL21	1986	05	12.23024	14	34	42.63	-14	22	18.2		801
1981	EL21	1987	08	21.27784	22	46	05.58	-04	40	44.5		801
1981	ED25	1992	07	29.29255	23	14	21.92	+02	32	48.9		801
1981	ED25	1992	07	29.33122	23	14	22.35	+02	32	53.8		801
1981	ED25	1992	08	02.27406	23	15	02.71	+02	38	32.9		801
1981	ED25	1992	08	02.34466	23	15	02.90	+02	38	36.2		801
1981	ED25	1992	08	26.25017	23	08	30.12	+01	27	42.4		801
1981	ED25	1992	08	26.26734	23	08	29.47	+01	27	35.7		801
1981	EY30	1992	08	27.27144	23	59	22.58	-01	14	12.6		801
1981	EY30	1992	08	27.28876	23	59	22.10	-01	14	20.4		801
1981	EY30	1992	08	30.27892	23	58	01.24	-01	37	24.9		801
1981	EY30	1992	08	30.29535	23	58	00.70	-01	37	32.8		801
1981	EK41	1992	08	02.19242	20	40	45.36	-08	08	35.1		801
1981	EK41	1992	08	02.20696	20	40	44.49	-08	08	39.9		801
1981	EK41	1992	08	03.18405	20	39	49.06	-08	14	10.7		801
1981	EK41	1992	08	03.19771	20	39	48.47	-08	14	14.0		801
1981	PF	1992	08	25.05899	18	13	57.04	-14	10	32.1		801
1981	PF	1992	08	25.07306	18	13	57.64	-14	10	44.6		801
1981	PF	1992	09	01.04094	18	20	21.69	-15	42	50.9		801
1981	PF	1992	09	01.05425	18	20	22.45	-15	43	00.6		801
1981	QE3	1992	08	25.21903	22	09	06.58	-15	38	09.1		801
1981	QE3	1992	08	25.23630	22	09	05.77	-15	38	13.6		801
1981	QE3	1992	09	01.17214	22	03	57.06	-16	05	31.0	r	801
1981	QE3	1992	09	01.19293	22	03	56.07	-16	05	35.5	r	801

1981	VP2	1992	08	24.26706	23	32	04.38	-07	57 32.1	801
1981	VP2	1992	08	24.28212	23	32	03.90	-07	57 36.5	801
1981	VP2	1992	08	31.28485	23	28	08.93	-08	33 25.2	801
1981	VP2	1992	08	31.30413	23	28	08.18	-08	33 31.2	801
1982	PC	1992	08	25.28453	23	51	56.81	-01	33 37.4 r	801
1982	PC	1992	08	25.30220	23	51	56.21	-01	33 46.4 r	801
1982	PC	1992	08	27.27484	23	50	53.75	-01	49 04.4	801
1982	PC	1992	08	27.29257	23	50	53.15	-01	49 11.8	801
1982	RW	1992	08	31.29509	23	40	47.70	-00	26 54.4	801
1982	RW	1992	08	31.31648	23	40	46.64	-00	26 58.2	801
1982	SC2	1992	08	24.26417	23	22	26.38	-10	42 28.4	801
1982	SC2	1992	08	24.27867	23	22	25.59	-10	42 35.3	801
1982	SC2	1992	08	31.28003	23	16	08.99	-11	38 49.6	801
1982	SC2	1992	08	31.29744	23	16	08.01	-11	38 57.9	801
1982	SG4	1992	08	26.25792	23	11	06.22	+04	55 27.6	801
1982	SG4	1992	08	26.28687	23	11	05.05	+04	55 18.9	801
1982	SV5	1992	08	25.11086	20	18	33.60	-12	41 51.3	801
1982	SV5	1992	08	25.13200	20	18	32.80	-12	42 00.8	801
1982	SV5	1992	08	27.06877	20	17	29.04	-12	56 25.0	801
1982	SV5	1992	08	27.08199	20	17	28.64	-12	56 30.3	801
1982	TT	1992	08	24.17119	22	08	13.95	+06	14 55.2	801
1982	TT	1992	08	24.18569	22	08	13.26	+06	14 52.3	801
1982	TT	1992	08	26.21390	22	06	38.88	+06	07 54.7	801
1982	TT	1992	08	26.22894	22	06	38.18	+06	07 51.5	801
1982	TD2	1992	08	24.29633	00	43	07.49	+10	55 37.6	801
1982	TD2	1992	08	24.37359	00	43	06.87	+10	55 47.8	801
1982	UH	1987	01	30.11351	06	18	16.24	+21	17 15.3	801
1982	UB7	1992	08	25.15102	21	03	08.41	+05	11 43.0	801
1982	UB7	1992	08	25.17050	21	03	07.62	+05	11 36.9	801
1982	UB7	1992	08	31.09282	20	59	29.63	+04	39 48.8	801
1982	UB7	1992	08	31.13235	20	59	28.21	+04	39 35.1	801
1982	UE7	1992	08	25.15417	21	07	42.76	-15	22 17.3	801
1982	UE7	1992	08	25.17391	21	07	41.87	-15	22 21.4	801
1982	UE7	1992	09	01.12917	21	03	01.22	-15	46 30.9	801
1982	UE7	1992	09	01.14744	21	03	00.41	-15	46 33.4	801
1983	RY4	1992	08	25.21586	22	03	51.27	+04	42 26.3	801
1983	RY4	1992	08	25.23241	22	03	50.46	+04	42 23.3	801
1983	RY4	1992	08	27.20016	22	02	13.29	+04	37 46.9	801
1983	RY4	1992	08	27.21954	22	02	12.31	+04	37 43.9	801
1983	XH1	1992	08	24.30179	00	40	12.39	+03	49 24.4	801
1983	XH1	1992	08	24.33729	00	40	11.86	+03	49 14.8	801
1983	XH1	1992	08	26.30742	00	39	43.33	+03	39 51.2	801
1983	XH1	1992	08	26.33559	00	39	42.85	+03	39 42.4	801
1984	UX	1992	08	26.34330	01	58	03.17	+10	16 03.5	801
1984	UX	1992	08	26.35757	01	58	03.77	+10	16 11.5	801
1985	DX2	1992	08	25.14819	20	56	38.49	-09	17 43.1	801
1985	DX2	1992	08	25.16772	20	56	37.73	-09	17 50.9	801
1985	DX2	1992	09	01.12584	20	52	37.88	-10	02 23.2	801
1985	DX2	1992	09	01.14463	20	52	37.26	-10	02 30.0	801
1985	GO	1986	11	01.19961	00	20	52.55	-05	11 11.4	801
1985	SE1	1988	06	14.22829	17	40	47.11	-14	38 59.8	801
1985	YH	1992	08	26.20918	21	22	25.51	-00	38 55.6	801
1985	YH	1992	08	26.22203	21	22	24.85	-00	38 57.9	801
1986	EZ	1992	08	25.29433	23	56	42.59	-01	58 37.2	801
1986	EZ	1992	08	25.31542	23	56	41.63	-01	58 38.6	801
1986	EZ	1992	08	30.29021	23	52	44.63	-02	04 57.2	801
1986	EZ	1992	08	30.30679	23	52	43.78	-02	04 58.4	801
1986	RA	1992	08	31.02994	16	41	14.09	+03	00 38.6	801
1986	RA	1992	08	31.03903	16	41	14.97	+03	00 27.6	801

1986	TB3	1989	07	07.16951	18	00	08.06	-12	52	00.5	801
1986	UQ	1992	08	26.29413	00	13	14.49	+05	54	54.2	801
1986	UQ	1992	08	26.32600	00	13	13.50	+05	54	49.5	801
1987	PL	1992	08	25.18586	21	20	18.01	-07	53	23.7	801
1987	PL	1992	08	25.20277	21	20	17.19	-07	53	25.2	801
1987	PL	1992	09	01.13500	21	15	09.72	-08	03	43.5	801
1987	PL	1992	09	01.15584	21	15	08.82	-08	03	45.3	801
1987	ST1	1992	08	25.08514	20	05	26.46	-15	34	47.6	801
1987	ST1	1992	08	25.10402	20	05	25.76	-15	34	47.9	801
1987	ST1	1992	09	01.09834	20	01	55.73	-15	35	32.7	801
1987	SM12	1992	08	25.28698	23	55	42.04	-00	10	14.3	801
1987	SM12	1992	08	25.30510	23	55	41.41	-00	10	17.7	801
1987	SM12	1992	08	30.27483	23	52	40.35	-00	27	11.4	801
1987	SM12	1992	08	30.29315	23	52	39.61	-00	27	15.6	801
1987	VG1	1992	08	25.25637	23	04	45.64	+09	46	19.2	801
1987	VG1	1992	08	25.27567	23	04	44.86	+09	46	17.2	801
1987	WS	1992	08	26.37000	01	14	09.50	+02	45	39.2	801
1987	WS	1992	08	31.32407	01	12	17.81	+02	46	55.0	801
1987	WS	1992	08	31.35269	01	12	17.05	+02	46	55.0	801
1988	BK	1989	07	01.22387	17	54	08.90	-09	56	40.1	801
1988	BS3	1992	08	25.06309	18	34	45.70	-17	47	57.6	801
1988	BS3	1992	09	01.04433	18	39	38.71	-18	19	14.4	801
1988	BS3	1992	09	01.06488	18	39	39.73	-18	19	20.3	801
1988	JQ	1992	08	25.26240	23	06	36.09	-22	57	39.5	801
1988	JQ	1992	08	25.27354	23	06	35.55	-22	57	51.4	801
1988	RT6	1992	08	30.22464	22	26	22.16	-02	45	55.3	801
1988	RT6	1992	08	30.23995	22	26	21.49	-02	46	07.1	801
1988	VN	1992	08	25.31186	00	57	31.52	+00	48	12.6	801
1988	VN	1992	08	25.36861	00	57	30.83	+00	48	02.6	801
1988	VN	1992	08	30.31236	00	56	19.69	+00	31	23.3	801
1988	VN	1992	08	30.34563	00	56	19.02	+00	31	16.1	801
1988	VH1	1992	08	25.32519	01	29	11.54	+15	53	39.9	801
1988	VH1	1992	08	25.36230	01	29	12.50	+15	53	48.7	801
1988	VZ2	1992	08	26.34932	02	42	13.76	+26	02	56.6	801
1988	VZ2	1992	08	26.36102	02	42	14.41	+26	03	01.7	801
1989	AK1	1992	08	26.29976	00	27	08.91	+14	31	11.6	801
1989	AK1	1992	08	26.33000	00	27	07.98	+14	31	14.0	801
1989	AK1	1992	08	30.30208	00	25	02.91	+14	35	47.5	801
1989	AK1	1992	08	30.32105	00	25	02.22	+14	35	48.7	801
1989	AM1	1992	08	26.27344	23	48	12.73	+13	33	05.4	801
1989	AM1	1992	08	26.29116	23	48	12.05	+13	33	05.4	801
1989	AL5	1992	08	30.32854	01	23	55.17	+08	10	47.7	801
1989	AL5	1992	08	30.37076	01	23	54.49	+08	10	44.8	801
1989	AO6	1992	08	25.27825	23	48	46.07	+06	21	23.5	801
1989	AO6	1992	08	25.29641	23	48	45.36	+06	21	23.5	801
1989	AO6	1992	08	30.26725	23	45	26.96	+06	19	07.1	801
1989	AO6	1992	08	30.28171	23	45	26.31	+06	19	06.3	801
1989	UU1	1992	08	25.28995	23	52	37.25	+10	40	00.0	801
1989	UU1	1992	08	25.30799	23	52	36.46	+10	40	00.0	801
1989	UU1	1992	08	27.28000	23	51	11.70	+10	39	21.9	801
1989	UU1	1992	08	27.29992	23	51	10.79	+10	39	21.2	801
1989	UT5	1992	04	30.14297	12	57	45.75	-04	56	28.8	801
1989	UT5	1992	04	30.15742	12	57	45.01	-04	56	21.9	801
1989	UT5	1992	05	06.13811	12	54	07.06	-04	07	44.8	801
1989	WL7	1992	07	29.09241	17	02	13.54	-14	29	11.4	r 801
1989	WL7	1992	07	29.11887	17	02	13.14	-14	29	20.5	801
1989	XO	1992	08	24.22584	22	47	24.62	+01	36	48.7	801
1989	XO	1992	08	24.23957	22	47	23.83	+01	36	46.6	801
1989	XO	1992	08	30.24742	22	41	43.32	+01	18	38.2	801

1989	YN	1992	08	27.20601	22	15	52.86	-02	55	21.4	801
1989	YN	1992	08	27.22249	22	15	51.89	-02	55	26.0	801
1989	YN	1992	09	01.17483	22	11	11.03	-03	19	34.4	801
1989	YN	1992	09	01.18870	22	11	10.22	-03	19	38.7	801
1989	YP5	1992	07	29.15591	19	42	49.86	-19	58	52.3	801
1990	BJ	1992	06	28.28376	20	12	21.19	-19	46	48.9	801
1990	BJ	1992	06	28.29843	20	12	20.38	-19	46	41.7	801
1990	BJ	1992	08	25.06932	19	05	20.44	-12	05	41.8	801
1990	BJ	1992	08	25.08828	19	05	19.72	-12	05	34.0	801
1990	BJ	1992	08	27.07344	19	04	21.01	-11	52	10.8	801
1990	BJ	1992	08	27.08970	19	04	20.39	-11	52	03.2	801
1990	BU	1992	08	24.20786	22	37	56.59	-03	39	12.2	801
1990	BU	1992	08	24.22000	22	37	55.81	-03	39	10.2	801
1990	BU	1992	08	27.21667	22	34	48.70	-03	30	49.8	801
1990	BU	1992	08	27.23047	22	34	47.80	-03	30	47.6	801
1990	BQ1	1992	08	24.13981	21	10	41.04	+05	03	19.6	801
1990	BQ1	1992	08	24.15789	21	10	39.53	+05	03	28.4	801
1990	BQ1	1992	08	26.20631	21	07	55.92	+05	19	34.3	801
1990	BQ1	1992	08	26.21650	21	07	55.10	+05	19	38.9	801
1990	BQ1	1992	08	31.08605	21	01	48.37	+05	54	05.5	801
1990	BQ1	1992	08	31.10097	21	01	47.27	+05	54	11.3	801
1990	BT1	1992	06	03.20049	16	15	31.41	-09	10	10.6	801
1990	DD	1992	08	26.30373	00	37	06.31	+13	07	03.7	801
1990	DD	1992	08	26.32789	00	37	05.58	+13	07	13.5	801
1990	DM2	1992	08	26.29716	00	15	00.72	+05	28	34.1	r 801
1990	DM2	1992	08	26.32300	00	14	59.85	+05	28	30.1	r 801
1990	EJ2	1992	08	25.09192	19	42	21.10	-09	36	22.7	801
1990	EJ2	1992	08	25.11983	19	42	20.47	-09	36	28.4	801
1990	EJ2	1992	09	01.04762	19	40	19.42	-09	56	00.0	801
1990	EJ2	1992	09	01.09491	19	40	18.73	-09	56	07.7	801
1990	FT1	1992	08	25.33411	02	33	58.69	-05	48	46.0	801
1990	FT1	1992	08	25.35565	02	33	59.58	-05	48	51.4	801
1990	TN3	1991	01	18.03111	01	45	44.39	+33	46	48.1	801
1991	BR	1992	08	25.11561	20	16	24.27	-11	34	41.8	801
1991	BR	1992	08	25.13572	20	16	23.66	-11	34	49.2	801
1991	BR	1992	09	01.08065	20	13	35.64	-12	16	20.5	801
1991	BR	1992	09	01.10524	20	13	35.08	-12	16	29.1	801
1991	CF	1992	08	25.22730	22	28	53.12	-05	40	25.2	801
1991	CF	1992	08	25.24426	22	28	52.17	-05	40	35.1	801
1991	CF	1992	08	30.21458	22	24	23.47	-06	26	21.3	801
1991	CF	1992	08	30.22675	22	24	22.79	-06	26	27.9	801
1991	CZ	1992	08	25.33632	02	41	51.93	-05	27	38.2	801
1991	CZ	1992	08	25.35374	02	41	52.98	-05	27	56.3	801
1991	FM	1992	08	30.26433	23	31	45.83	-02	12	57.0	r 801
1991	FM	1992	08	30.27697	23	31	45.08	-02	13	00.3	r 801
1991	FM	1992	08	31.28810	23	30	47.77	-02	17	24.0	801
1991	FM	1992	08	31.30131	23	30	46.98	-02	17	27.4	801
1991	GD	1992	08	24.30490	00	43	00.74	+37	04	29.2	801
1991	GD	1992	08	24.33197	00	43	00.51	+37	04	43.4	801
1991	GD	1992	08	26.31089	00	42	45.03	+37	21	20.7	801
1991	GD	1992	08	26.33262	00	42	44.75	+37	21	31.2	801
1991	GN	1992	08	24.34693	03	55	19.73	+21	20	38.3	801
1991	GN	1992	08	24.36166	03	55	21.33	+21	20	32.4	801
1991	GZ	1992	08	30.31650	00	58	58.63	+11	29	38.4	801
1991	GZ	1992	08	30.35120	00	58	57.73	+11	29	34.1	801
1991	GZ	1992	08	31.32086	00	58	33.93	+11	27	27.9	801
1991	GZ	1992	08	31.35037	00	58	33.17	+11	27	23.5	801
1991	HG	1992	08	30.29878	00	14	47.46	-02	59	36.2	801
1991	HG	1992	08	30.31877	00	14	46.57	-02	59	41.3	801

1991 JT		1992	08	25.28179	23	48	38.22	+13	29	25.3	801
1991 JT		1992	08	25.29866	23	48	37.45	+13	29	22.7	801
1991 JT		1992	08	30.26943	23	44	58.94	+13	12	37.6	801
1991 JT		1992	08	30.28413	23	44	58.26	+13	12	34.5	801
1991 JE1		1992	08	25.19227	21	43	44.04	-04	29	55.0	801
1991 JE1		1992	08	25.20826	21	43	43.36	-04	30	01.8	801
1991 JE1		1992	08	30.17069	21	40	26.54	-05	05	48.3	801
1991 JR2		1992	08	24.22882	22	49	44.31	-03	25	02.7	801
1991 JR2		1992	08	24.24220	22	49	43.69	-03	25	09.8	801
1991 JR2		1992	08	30.23536	22	45	10.95	-04	17	31.3	801
1991 JR2		1992	08	30.24984	22	45	10.28	-04	17	39.0	801
1992 HE		1992	08	24.35001	04	20	00.53	-07	29	49.9	801
1992 HE		1992	08	24.36448	04	19	59.94	-07	29	26.9	801
1992 HE		1992	08	30.37661	04	15	17.92	-04	47	03.1	801
1992 HE		1992	08	30.38061	04	15	17.68	-04	46	56.6	801
1992 HJ		1992	07	29.05128	15	03	10.94	-13	04	50.5	801
1992 HJ		1992	07	29.05848	15	03	11.41	-13	04	54.0	801
1992 HJ		1992	07	31.04525	15	05	30.27	-13	21	41.4	801
1992 HJ		1992	07	31.05711	15	05	31.03	-13	21	45.6	801
1992 HL		1992	07	26.07876	15	09	11.41	+02	46	10.5	801
1992 HL		1992	07	26.08645	15	09	11.87	+02	46	06.4	801
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1992 JE		1992	08	25.03144	16	49	22.77	-08	45	56.0	801
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1992 KD		1992	07	29.07907	16	22	18.03	+17	10	42.0	801
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1992 LR		1992	08	24.14206	21	37	36.04	+05	55	41.7	801
1992 LR		1992	08	24.14442	21	37	36.58	+05	55	40.7	801
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4027 P-L		1992 08 25.20576	21 24 12.43	-11 01 24.6				801
4027 P-L		1992 09 01.16034	21 19 26.66	-11 23 20.2				801
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6040 P-L		1992 08 27.12984	21 07 24.29	-15 28 19.3				801
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7063 P-L		1992 08 30.22157	22 27 09.87	+00 15 17.1				801
7063 P-L		1992 08 30.23784	22 27 09.04	+00 15 11.2				801
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809 European Southern Observatory
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E. W. Elst, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium (4)
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

1977 EL	1991 09 05.08403	20 32 15.17	-21 00 24.0			4	809
1977 EL	1991 09 05.09722	20 32 14.87	-21 00 26.8			4	809
1977 EL	1991 09 05.11042	20 32 14.57	-21 00 29.3			4	809
1977 EL	1991 09 06.01667	20 32 03.82	-21 03 55.0		17.8	4	809
1977 EL	1991 09 06.02986	20 32 03.60	-21 03 58.5			4	809
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1978 TO8	1992 04 04.23125	14 07 39.77	-13 01 50.2		18.6	4	809
1978 TO8	1992 04 04.24444	14 07 39.24	-13 01 46.9			4	809
1978 TO8	1992 04 04.25764	14 07 38.72	-13 01 45.1			4	809
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1983	RT3	1991 09 06.04306	20 35 44.63	-21 48 00.0		4	809
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1985	QH5	1992 04 04.28958	14 36 20.30	-13 36 41.4		4	809
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1986	TL4	1992 04 04.28958	14 35 53.93	-12 38 54.6		4	809
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1991 RN11	1991 09 05.08403	20 35 42.17	-21 32 46.8		4	809
1991 RN11	1991 09 05.09722	20 35 41.58	-21 32 48.3		4	809
1991 RN11	1991 09 05.11042	20 35 41.13	-21 32 49.5		4	809
1991 RN11	1991 09 06.01667	20 35 14.13	-21 34 53.8	18.5	4	809
1991 RN11	1991 09 06.02986	20 35 13.67	-21 34 55.5		4	809
1991 RN11	1991 09 06.04306	20 35 13.28	-21 34 57.1		4	809
1991 RO11	1991 09 05.08403	20 36 55.83	-21 05 59.3		4	809

1991	RO11		1991	09	05.09722	20	36	54.77	-21 05 51.9		4 809
1991	RO11		1991	09	05.11042	20	36	54.55	-21 05 49.4		4 809
1991	RO11		1991	09	06.01667	20	36	20.68	-21 00 40.6	18.6	4 809
1991	RO11		1991	09	06.02986	20	36	20.09	-21 00 35.2		4 809
1991	RO11		1991	09	06.04306	20	36	19.57	-21 00 30.8		4 809
1991	RP11		1991	09	05.08403	20	40	19.41	-19 27 45.9		4 809
1991	RP11		1991	09	05.09722	20	40	18.96	-19 27 46.8		4 809
1991	RP11		1991	09	05.11042	20	40	18.57	-19 27 49.2		4 809
1991	RP11		1991	09	06.01667	20	40	03.21	-19 29 13.7	18.4	4 809
1991	RP11		1991	09	06.02986	20	40	02.89	-19 29 16.1		4 809
1991	RP11		1991	09	06.04306	20	40	02.59	-19 29 17.2		4 809
1991	RQ11		1991	08	05.25833	21	02	57.07	-16 02 06.5		4 809
1991	RQ11		1991	08	05.27153	21	02	56.36	-16 02 13.8		4 809
1991	RQ11		1991	08	05.28472	21	02	55.68	-16 02 21.4		4 809
1991	RQ11		1991	09	05.08403	20	41	06.21	-20 28 27.5		4 809
1991	RQ11		1991	09	05.09722	20	41	05.74	-20 28 32.0		4 809
1991	RQ11		1991	09	05.11042	20	41	05.28	-20 28 36.4		4 809
1991	RQ11		1991	09	06.01667	20	40	42.00	-20 34 36.9	18.6	4 809
1991	RQ11		1991	09	06.02986	20	40	41.59	-20 34 42.2		4 809
1991	RQ11		1991	09	06.04306	20	40	41.25	-20 34 47.5		4 809
1991	RS11		1991	08	14.16181	20	49	04.74	-18 45 03.5	18.5	4 809
1991	RS11		1991	08	14.17500	20	49	04.24	-18 45 14.6		4 809
1991	RS11		1991	08	14.18819	20	49	03.79	-18 45 24.3		4 809
1991	RS11		1991	09	05.08403	20	42	20.13	-23 00 53.0		4 809
1991	RS11		1991	09	05.09722	20	42	19.98	-23 00 59.3		4 809
1991	RS11		1991	09	05.11042	20	42	19.75	-23 01 06.5		4 809
1991	RS11		1991	09	06.01667	20	42	22.18	-23 09 08.4	18.4	4 809
1991	RS11		1991	09	06.02986	20	42	22.17	-23 09 17.2		4 809
1991	RS11		1991	09	06.04306	20	42	22.10	-23 09 23.1		4 809
1991	RU11		1991	09	05.08403	20	46	40.02	-23 26 34.7		4 809
1991	RU11		1991	09	05.09722	20	46	39.45	-23 26 32.2		4 809
1991	RU11		1991	09	05.11042	20	46	38.93	-23 26 27.5		4 809
1991	RU11		1991	09	06.01667	20	46	10.39	-23 21 59.6	18.2	4 809
1991	RU11		1991	09	06.02986	20	46	09.92	-23 21 56.3		4 809
1991	RU11		1991	09	06.04306	20	46	09.41	-23 21 53.1		4 809
1991	RB12		1991	08	10.26528	21	26	34.57	-15 51 14.3	17.6	4 809
1991	RB12		1991	08	10.27708	21	26	33.68	-15 51 14.2		4 809
1991	RB12		1991	08	10.28750	21	26	33.08	-15 51 14.0		4 809
1992	GZ1	*	1992	04	04.23125	13	49	53.14	-11 24 32.6	18.7	4 809
1992	GZ1		1992	04	04.24444	13	49	52.58	-11 24 30.7		4 809
1992	GZ1		1992	04	04.25764	13	49	52.00	-11 24 28.7		4 809
1992	GZ1		1992	04	06.22500	13	48	30.52	-11 17 27.3		4 809
1992	GZ1		1992	04	06.23819	13	48	29.94	-11 17 24.1		4 809
1992	GZ1		1992	04	06.25139	13	48	29.38	-11 17 22.6		4 809
1992	GA2	*	1992	04	04.23125	13	50	13.61	-12 15 48.2	18.2	4 809
1992	GA2		1992	04	04.24444	13	50	12.64	-12 15 50.7		4 809
1992	GA2		1992	04	04.25764	13	50	11.81	-12 15 51.3		4 809
1992	GA2		1992	04	06.22500	13	48	02.44	-12 20 30.8		4 809
1992	GA2		1992	04	06.23819	13	48	01.54	-12 20 32.5		4 809
1992	GA2		1992	04	06.25139	13	48	00.57	-12 20 34.7		4 809
1992	GB2	*	1992	04	04.23125	13	51	23.39	-12 18 26.9	18.6	4 809
1992	GB2		1992	04	04.24444	13	51	22.64	-12 18 21.2		4 809
1992	GB2		1992	04	04.25764	13	51	21.96	-12 18 16.7		4 809
1992	GB2		1992	04	06.22500	13	49	43.71	-12 04 33.9		4 809
1992	GB2		1992	04	06.23819	13	49	42.99	-12 04 28.2		4 809
1992	GB2		1992	04	06.25139	13	49	42.34	-12 04 23.2		4 809
1992	GC2	*	1992	04	04.23125	13	52	06.81	-11 22 18.4	19.2	4 809
1992	GC2		1992	04	04.24444	13	52	06.02	-11 22 16.1		4 809
1992	GC2		1992	04	04.25764	13	52	05.33	-11 22 13.9		4 809

1992	GC2		1992	04	06.22500	13	50	23.26	-11 16 19.8		4 809
1992	GC2		1992	04	06.23819	13	50	22.48	-11 16 16.2		4 809
1992	GC2		1992	04	06.25139	13	50	21.70	-11 16 13.8		4 809
1992	GD2	*	1992	04	04.23125	13	52	31.39	-13 21 54.1	19.0	4 809
1992	GD2		1992	04	04.24444	13	52	30.67	-13 21 50.2		4 809
1992	GD2		1992	04	04.25764	13	52	29.95	-13 21 47.5		4 809
1992	GD2		1992	04	06.22500	13	50	41.29	-13 14 31.6		4 809
1992	GD2		1992	04	06.23819	13	50	40.44	-13 14 27.5		4 809
1992	GD2		1992	04	06.25139	13	50	39.69	-13 14 25.6		4 809
1992	GE2	*	1992	04	04.23125	13	53	00.06	-13 59 38.9	18.5	4 809
1992	GE2		1992	04	04.24444	13	52	59.24	-13 59 36.4		4 809
1992	GE2		1992	04	04.25764	13	52	58.40	-13 59 34.0		4 809
1992	GE2		1992	04	06.22500	13	51	00.09	-13 52 38.2		4 809
1992	GE2		1992	04	06.23819	13	50	59.36	-13 52 36.6		4 809
1992	GE2		1992	04	06.25139	13	50	58.47	-13 52 33.6		4 809
1992	GE2		1992	04	23.14514	13	33	04.35	-12 40 49.1		4 809
1992	GE2		1992	04	23.15833	13	33	03.53	-12 40 45.2		4 809
1992	GE2		1992	04	23.17153	13	33	02.66	-12 40 41.4		4 809
1992	GE2		1992	04	25.08889	13	31	03.76	-12 31 51.1	19.0	4 809
1992	GE2		1992	04	25.10208	13	31	02.96	-12 31 48.2		4 809
1992	GE2		1992	04	25.11528	13	31	02.11	-12 31 45.4		4 809
1992	GF2	*	1992	04	04.23125	13	53	06.76	-10 44 23.6	18.7	4 809
1992	GF2		1992	04	04.24444	13	53	06.00	-10 44 19.6		4 809
1992	GF2		1992	04	04.25764	13	53	05.30	-10 44 17.9		4 809
1992	GF2		1992	04	06.22500	13	51	14.01	-10 35 46.3		4 809
1992	GF2		1992	04	06.23819	13	51	13.14	-10 35 42.8		4 809
1992	GF2		1992	04	06.25139	13	51	12.36	-10 35 39.8		4 809
1992	GG2	*	1992	04	04.23125	13	53	49.02	-13 13 00.6	18.8	4 809
1992	GG2		1992	04	04.24444	13	53	48.40	-13 12 53.6		4 809
1992	GG2		1992	04	04.25764	13	53	47.87	-13 12 48.9		4 809
1992	GG2		1992	04	06.22500	13	52	16.83	-13 03 16.3		4 809
1992	GG2		1992	04	06.23819	13	52	16.27	-13 03 14.3		4 809
1992	GG2		1992	04	06.25139	13	52	15.69	-13 03 11.6		4 809
1992	GH2	*	1992	04	04.23125	13	54	19.44	-14 16 37.1	18.7	4 809
1992	GH2		1992	04	04.24444	13	54	18.67	-14 16 38.5		4 809
1992	GH2		1992	04	04.25764	13	54	17.98	-14 16 38.6		4 809
1992	GH2		1992	04	06.22500	13	52	37.34	-14 17 42.1		4 809
1992	GH2		1992	04	06.23819	13	52	36.59	-14 17 43.1		4 809
1992	GH2		1992	04	06.25139	13	52	35.85	-14 17 43.5		4 809
1992	GJ2	*	1992	04	04.23125	13	55	00.42	-13 59 35.9	19.0	4 809
1992	GJ2		1992	04	04.24444	13	54	59.72	-13 59 35.4		4 809
1992	GJ2		1992	04	04.25764	13	54	59.06	-13 59 35.2		4 809
1992	GJ2		1992	04	06.22500	13	53	22.74	-13 57 57.6		4 809
1992	GJ2		1992	04	06.23819	13	53	22.05	-13 57 57.6		4 809
1992	GJ2		1992	04	06.25139	13	53	21.38	-13 57 56.6		4 809
1992	GK2	*	1992	04	04.23125	13	55	55.07	-14 12 56.7	18.7	4 809
1992	GK2		1992	04	04.24444	13	55	54.50	-14 12 48.4		4 809
1992	GK2		1992	04	04.25764	13	55	53.99	-14 12 39.0		4 809
1992	GK2		1992	04	06.22500	13	54	34.92	-13 49 28.4		4 809
1992	GK2		1992	04	06.23819	13	54	34.38	-13 49 19.6		4 809
1992	GK2		1992	04	06.25139	13	54	33.74	-13 49 09.1		4 809
1992	GL2	*	1992	04	04.23125	13	55	55.76	-10 56 23.4	18.6	4 809
1992	GL2		1992	04	04.24444	13	55	54.98	-10 56 24.3		4 809
1992	GL2		1992	04	04.25764	13	55	54.24	-10 56 25.4		4 809
1992	GL2		1992	04	06.22500	13	54	05.53	-10 58 04.3		4 809
1992	GL2		1992	04	06.23819	13	54	04.70	-10 58 05.7		4 809
1992	GL2		1992	04	06.25139	13	54	03.89	-10 58 05.4		4 809
1992	GM2	*	1992	04	04.23125	13	57	36.15	-13 58 23.2	18.3	4 809
1992	GM2		1992	04	04.24444	13	57	35.45	-13 58 20.8		4 809

1992 GM2		1992	04	04.25764	13 57 34.68	-13 58 17.8		4	809
1992 GM2		1992	04	06.22500	13 55 49.47	-13 49 48.0		4	809
1992 GM2		1992	04	06.23819	13 55 48.72	-13 49 44.9		4	809
1992 GM2		1992	04	06.25139	13 55 47.89	-13 49 41.3		4	809
1992 GM2		1992	04	23.14514	13 38 47.36	-12 19 17.6		4	809
1992 GM2		1992	04	23.15833	13 38 46.63	-12 19 15.3		4	809
1992 GM2		1992	04	23.17153	13 38 45.76	-12 19 13.7		4	809
1992 GM2		1992	04	25.08889	13 36 48.50	-12 07 53.2	18.5	4	809
1992 GM2		1992	04	25.10208	13 36 47.68	-12 07 47.8		4	809
1992 GM2		1992	04	25.11528	13 36 46.78	-12 07 43.7		4	809
1992 GN2	*	1992	04	04.23125	13 57 59.13	-13 31 14.1	18.5	4	809
1992 GN2		1992	04	04.24444	13 57 58.46	-13 31 12.3		4	809
1992 GN2		1992	04	04.25764	13 57 57.83	-13 31 10.1		4	809
1992 GN2		1992	04	06.22500	13 56 28.83	-13 25 09.7		4	809
1992 GN2		1992	04	06.23819	13 56 28.12	-13 25 07.8		4	809
1992 GN2		1992	04	06.25139	13 56 27.44	-13 25 05.7		4	809
1992 GN2		1992	04	23.14514	13 42 11.02	-12 20 59.4		4	809
1992 GN2		1992	04	23.15833	13 42 10.28	-12 20 55.3		4	809
1992 GN2		1992	04	23.17153	13 42 09.43	-12 20 52.1		4	809
1992 GN2		1992	04	25.08889	13 40 31.38	-12 12 52.7	18.6	4	809
1992 GN2		1992	04	25.10208	13 40 30.74	-12 12 50.1		4	809
1992 GN2		1992	04	25.11528	13 40 30.08	-12 12 46.8		4	809
1992 GO2	*	1992	04	04.23125	13 58 53.28	-12 55 27.8	18.7	4	809
1992 GO2		1992	04	04.24444	13 58 52.53	-12 55 21.8		4	809
1992 GO2		1992	04	04.25764	13 58 51.90	-12 55 19.6		4	809
1992 GO2		1992	04	06.22500	13 57 17.16	-12 43 46.0		4	809
1992 GO2		1992	04	06.23819	13 57 16.42	-12 43 41.1		4	809
1992 GO2		1992	04	06.25139	13 57 15.62	-12 43 35.4		4	809
1992 GP2	*	1992	04	04.23125	13 59 04.58	-13 16 42.8	19.5	4	809
1992 GP2		1992	04	04.24444	13 59 03.76	-13 16 41.0		4	809
1992 GP2		1992	04	04.25764	13 59 03.34	-13 16 40.6		4	809
1992 GP2		1992	04	06.22500	13 57 14.80	-13 14 57.2		4	809
1992 GP2		1992	04	06.23819	13 57 13.96	-13 14 56.4		4	809
1992 GP2		1992	04	06.25139	13 57 13.17	-13 14 55.3		4	809
1992 GQ2	*	1992	04	04.23125	14 00 16.14	-10 21 28.6	19.0	4	809
1992 GQ2		1992	04	04.24444	14 00 15.47	-10 21 23.7		4	809
1992 GQ2		1992	04	04.25764	14 00 14.66	-10 21 17.6		4	809
1992 GQ2		1992	04	06.22500	13 59 27.22	-10 10 01.3		4	809
1992 GQ2		1992	04	06.23819	13 59 26.58	-10 09 54.8		4	809
1992 GQ2		1992	04	06.25139	13 59 26.07	-10 09 48.4		4	809
1992 GR2	*	1992	04	04.23125	14 00 23.40	-10 31 05.2	18.6	4	809
1992 GR2		1992	04	04.24444	14 00 22.68	-10 31 00.8		4	809
1992 GR2		1992	04	04.25764	14 00 22.10	-10 30 56.5		4	809
1992 GR2		1992	04	06.22500	13 58 47.89	-10 19 43.3		4	809
1992 GR2		1992	04	06.23819	13 58 47.17	-10 19 39.5		4	809
1992 GR2		1992	04	06.25139	13 58 46.37	-10 19 33.6		4	809
1992 GS2	*	1992	04	04.23125	14 00 49.77	-14 16 36.5	19.2	4	809
1992 GS2		1992	04	04.24444	14 00 49.00	-14 16 31.7		4	809
1992 GS2		1992	04	04.25764	14 00 48.23	-14 16 27.9		4	809
1992 GS2		1992	04	06.22500	13 59 01.24	-14 04 43.6		4	809
1992 GS2		1992	04	06.23819	13 59 00.51	-14 04 38.9		4	809
1992 GS2		1992	04	06.25139	13 58 59.65	-14 04 35.5		4	809
1992 GT2	*	1992	04	04.23125	14 00 50.10	-10 28 59.7	18.6	4	809
1992 GT2		1992	04	04.24444	14 00 49.64	-10 28 52.1		4	809
1992 GT2		1992	04	04.25764	14 00 48.96	-10 28 44.3		4	809
1992 GT2		1992	04	06.22500	14 00 00.60	-10 27 20.7		4	809
1992 GT2		1992	04	06.23819	14 00 00.05	-10 27 18.1		4	809
1992 GT2		1992	04	06.25139	13 59 59.43	-10 27 16.4		4	809
1992 GU2	*	1992	04	04.23125	14 01 16.14	-11 00 47.5	18.7	4	809

1992	GU2		1992	04	04.24444	14	01	15.41	-11	00	46.4		4	809
1992	GU2		1992	04	04.25764	14	01	14.63	-11	00	47.1		4	809
1992	GU2		1992	04	06.22500	13	59	39.03	-10	58	34.0		4	809
1992	GU2		1992	04	06.23819	13	59	38.30	-10	58	32.0		4	809
1992	GU2		1992	04	06.25139	13	59	37.69	-10	58	32.3		4	809
1992	GV2	*	1992	04	04.23125	14	01	54.32	-11	03	16.3	19.3	4	809
1992	GV2		1992	04	04.24444	14	01	53.76	-11	03	15.2		4	809
1992	GV2		1992	04	04.25764	14	01	53.31	-11	03	12.3		4	809
1992	GV2		1992	04	06.22500	14	00	32.18	-10	55	43.5	19.0	4	809
1992	GV2		1992	04	06.23819	14	00	31.66	-10	55	40.8		4	809
1992	GV2		1992	04	06.25139	14	00	31.17	-10	55	38.0		4	809
1992	GW2	*	1992	04	04.23125	14	03	29.62	-12	31	30.4	19.2	4	809
1992	GW2		1992	04	04.24444	14	03	29.03	-12	31	27.2		4	809
1992	GW2		1992	04	04.25764	14	03	28.44	-12	31	23.6		4	809
1992	GW2		1992	04	06.22500	14	02	09.52	-12	20	55.6		4	809
1992	GW2		1992	04	06.23819	14	02	08.86	-12	20	53.3		4	809
1992	GW2		1992	04	06.25139	14	02	08.10	-12	20	47.8		4	809
1992	GX2	*	1992	04	04.23125	14	03	51.48	-12	54	46.4	19.0	4	809
1992	GX2		1992	04	04.24444	14	03	50.76	-12	54	45.5		4	809
1992	GX2		1992	04	04.25764	14	03	50.14	-12	54	43.9		4	809
1992	GX2		1992	04	06.22500	14	02	29.57	-12	49	06.6		4	809
1992	GX2		1992	04	06.23819	14	02	29.02	-12	49	04.5		4	809
1992	GX2		1992	04	06.25139	14	02	28.39	-12	49	03.9		4	809
1992	GY2	*	1992	04	04.23125	14	04	49.30	-15	08	32.1	19.4	4	809
1992	GY2		1992	04	04.24444	14	04	48.50	-15	08	28.4		4	809
1992	GY2		1992	04	04.25764	14	04	47.80	-15	08	24.3		4	809
1992	GY2		1992	04	06.22500	14	03	43.99	-14	55	23.4		4	809
1992	GY2		1992	04	06.23819	14	03	43.22	-14	55	21.0		4	809
1992	GY2		1992	04	06.25139	14	03	42.49	-14	55	17.4		4	809
1992	GZ2	*	1992	04	04.23125	14	05	38.40	-13	26	08.3	19.0	4	809
1992	GZ2		1992	04	04.24444	14	05	37.82	-13	26	05.8		4	809
1992	GZ2		1992	04	04.25764	14	05	37.25	-13	26	02.7		4	809
1992	GZ2		1992	04	06.22500	14	04	14.16	-13	17	55.6		4	809
1992	GZ2		1992	04	06.23819	14	04	13.50	-13	17	52.0		4	809
1992	GZ2		1992	04	06.25139	14	04	12.94	-13	17	49.4		4	809
1992	GA3	*	1992	04	04.23125	14	06	04.49	-13	01	15.8	18.6	4	809
1992	GA3		1992	04	04.24444	14	06	03.88	-13	01	13.0		4	809
1992	GA3		1992	04	04.25764	14	06	03.38	-13	01	11.1		4	809
1992	GA3		1992	04	06.22500	14	04	45.39	-12	54	34.7		4	809
1992	GA3		1992	04	06.23819	14	04	44.81	-12	54	33.2		4	809
1992	GA3		1992	04	06.25139	14	04	44.25	-12	54	30.2		4	809
1992	GB3	*	1992	04	04.23125	14	06	07.24	-14	20	04.4	19.0	4	809
1992	GB3		1992	04	04.24444	14	06	06.58	-14	20	01.6		4	809
1992	GB3		1992	04	04.25764	14	06	05.92	-14	20	01.3		4	809
1992	GB3		1992	04	06.22500	14	04	32.91	-14	15	19.6		4	809
1992	GB3		1992	04	06.23819	14	04	32.24	-14	15	18.3		4	809
1992	GB3		1992	04	06.25139	14	04	31.51	-14	15	16.2		4	809
1992	GC3	*	1992	04	04.23125	14	10	12.91	-11	02	23.1	18.7	4	809
1992	GC3		1992	04	04.24444	14	10	12.29	-11	02	21.4		4	809
1992	GC3		1992	04	04.25764	14	10	11.68	-11	02	19.3		4	809
1992	GC3		1992	04	06.22500	14	08	48.11	-10	57	00.6		4	809
1992	GC3		1992	04	06.23819	14	08	47.49	-10	56	58.5		4	809
1992	GC3		1992	04	06.25139	14	08	46.86	-10	56	56.5		4	809
1992	GD3	*	1992	04	04.27639	14	19	55.15	-14	41	10.1	18.6	4	809
1992	GD3		1992	04	04.28958	14	19	54.58	-14	41	06.0		4	809
1992	GD3		1992	04	04.30278	14	19	54.01	-14	41	00.5		4	809
1992	GD3		1992	04	06.26806	14	18	34.12	-14	27	56.8	18.7	4	809
1992	GD3		1992	04	06.28125	14	18	33.50	-14	27	52.2		4	809
1992	GD3		1992	04	06.29444	14	18	32.91	-14	27	46.2		4	809

1992	GD3		1992	04	25.13403	14	03	27.14	-12	04	34.0	18.6	4	809
1992	GD3		1992	04	25.14722	14	03	26.42	-12	04	28.1		4	809
1992	GD3		1992	04	25.16042	14	03	25.84	-12	04	22.4		4	809
1992	GE3	*	1992	04	04.27639	14	21	16.71	-14	57	53.8		4	809
1992	GE3		1992	04	04.28958	14	21	16.15	-14	57	45.9		4	809
1992	GE3		1992	04	04.30278	14	21	15.67	-14	57	40.3		4	809
1992	GE3		1992	04	06.26806	14	20	04.62	-14	41	47.6	18.6	4	809
1992	GE3		1992	04	06.28125	14	20	04.00	-14	41	41.2		4	809
1992	GE3		1992	04	06.29444	14	20	03.43	-14	41	34.8		4	809
1992	GE3		1992	04	25.13403	14	05	54.83	-11	44	55.4	18.8	4	809
1992	GE3		1992	04	25.14722	14	05	54.19	-11	44	48.2		4	809
1992	GE3		1992	04	25.16042	14	05	53.55	-11	44	41.1		4	809
1992	GF3	*	1992	04	04.27639	14	21	18.20	-13	56	02.8		4	809
1992	GF3		1992	04	04.28958	14	21	17.77	-13	55	59.1		4	809
1992	GF3		1992	04	04.30278	14	21	17.55	-13	55	55.5		4	809
1992	GF3		1992	04	06.26806	14	20	28.69	-13	46	57.0	18.2	4	809
1992	GF3		1992	04	06.28125	14	20	28.37	-13	46	53.5		4	809
1992	GF3		1992	04	06.29444	14	20	28.02	-13	46	51.4		4	809
1992	GF3		1992	04	25.13403	14	11	50.87	-12	14	58.0	18.3	4	809
1992	GF3		1992	04	25.14722	14	11	50.44	-12	14	52.6		4	809
1992	GF3		1992	04	25.16042	14	11	50.08	-12	14	49.6		4	809
1992	GG3	*	1992	04	04.27639	14	22	40.24	-15	37	34.4		4	809
1992	GG3		1992	04	04.28958	14	22	39.59	-15	37	31.7		4	809
1992	GG3		1992	04	04.30278	14	22	38.99	-15	37	29.5		4	809
1992	GG3		1992	04	06.26806	14	21	09.83	-15	30	09.6	18.6	4	809
1992	GG3		1992	04	06.28125	14	21	09.16	-15	30	06.2		4	809
1992	GG3		1992	04	06.29444	14	21	08.51	-15	30	03.4		4	809
1992	GG3		1992	04	25.13403	14	03	37.95	-13	56	23.0	18.5	4	809
1992	GG3		1992	04	25.14722	14	03	37.14	-13	56	19.1		4	809
1992	GG3		1992	04	25.16042	14	03	36.31	-13	56	16.0		4	809
1992	GH3	*	1992	04	04.27639	14	22	57.24	-16	13	19.6		4	809
1992	GH3		1992	04	04.28958	14	22	56.64	-16	13	14.0		4	809
1992	GH3		1992	04	04.30278	14	22	56.11	-16	13	08.2		4	809
1992	GH3		1992	04	06.26806	14	21	39.75	-15	59	37.9	18.6	4	809
1992	GH3		1992	04	06.28125	14	21	39.18	-15	59	31.8		4	809
1992	GH3		1992	04	06.29444	14	21	38.70	-15	59	27.0		4	809
1992	GH3		1992	04	25.13403	14	06	55.54	-13	26	54.8	18.5	4	809
1992	GH3		1992	04	25.14722	14	06	54.82	-13	26	46.6		4	809
1992	GH3		1992	04	25.16042	14	06	54.10	-13	26	40.1		4	809
1992	GJ3	*	1992	04	04.27639	14	23	14.20	-16	04	53.4		4	809
1992	GJ3		1992	04	04.28958	14	23	13.56	-16	04	49.3		4	809
1992	GJ3		1992	04	04.30278	14	23	12.99	-16	04	46.0		4	809
1992	GJ3		1992	04	06.26806	14	21	49.22	-15	55	06.7	18.6	4	809
1992	GJ3		1992	04	06.28125	14	21	48.58	-15	55	03.4		4	809
1992	GJ3		1992	04	06.29444	14	21	47.93	-15	54	59.2		4	809
1992	GJ3		1992	04	25.13403	14	04	56.27	-13	55	31.4	18.4	4	809
1992	GJ3		1992	04	25.14722	14	04	55.43	-13	55	26.2		4	809
1992	GJ3		1992	04	25.16042	14	04	54.59	-13	55	20.6		4	809
1992	GK3	*	1992	04	04.27639	14	24	54.81	-14	35	01.7		4	809
1992	GK3		1992	04	04.28958	14	24	54.26	-14	35	00.2		4	809
1992	GK3		1992	04	04.30278	14	24	53.77	-14	34	57.4		4	809
1992	GK3		1992	04	06.26806	14	23	35.19	-14	28	50.4	18.8	4	809
1992	GK3		1992	04	06.28125	14	23	34.65	-14	28	47.7		4	809
1992	GK3		1992	04	06.29444	14	23	34.09	-14	28	44.4		4	809
1992	GL3	*	1992	04	04.27639	14	25	16.62	-12	44	07.9	18.7	4	809
1992	GL3		1992	04	04.28958	14	25	16.05	-12	44	02.2		4	809
1992	GL3		1992	04	04.30278	14	25	15.59	-12	43	55.9		4	809
1992	GL3		1992	04	06.26806	14	24	05.50	-12	29	54.9	19.0	4	809
1992	GL3		1992	04	06.28125	14	24	05.02	-12	29	49.1		4	809

1992	GL3		1992	04	06.29444	14	24	04.44	-12	29	43.5		4	809
1992	GM3	*	1992	04	04.27639	14	25	22.90	-16	37	57.6		4	809
1992	GM3		1992	04	04.28958	14	25	22.35	-16	37	52.6		4	809
1992	GM3		1992	04	04.30278	14	25	21.90	-16	37	48.9		4	809
1992	GM3		1992	04	06.26806	14	24	10.91	-16	26	52.7	18.5	4	809
1992	GM3		1992	04	06.28125	14	24	10.39	-16	26	48.8		4	809
1992	GM3		1992	04	06.29444	14	24	09.92	-16	26	46.7		4	809
1992	GM3		1992	04	25.13403	14	09	38.19	-14	15	57.9	18.6	4	809
1992	GM3		1992	04	25.14722	14	09	37.55	-14	15	52.7		4	809
1992	GM3		1992	04	25.16042	14	09	36.75	-14	15	46.2		4	809
1992	GN3	*	1992	04	04.27639	14	25	34.97	-15	57	38.3		4	809
1992	GN3		1992	04	04.28958	14	25	34.42	-15	57	35.7		4	809
1992	GN3		1992	04	04.30278	14	25	33.83	-15	57	34.6		4	809
1992	GN3		1992	04	06.26806	14	24	10.62	-15	54	07.1	19.8	4	809
1992	GN3		1992	04	06.28125	14	24	09.91	-15	54	05.9		4	809
1992	GN3		1992	04	06.29444	14	24	09.30	-15	54	04.9		4	809
1992	GN3		1992	04	25.13403	14	06	46.57	-14	56	43.5	18.6	4	809
1992	GN3		1992	04	25.14722	14	06	45.78	-14	56	40.7		4	809
1992	GN3		1992	04	25.16042	14	06	44.88	-14	56	38.0		4	809
1992	GO3	*	1992	04	04.27639	14	25	42.43	-14	38	49.8		4	809
1992	GO3		1992	04	04.28958	14	25	41.90	-14	38	47.4		4	809
1992	GO3		1992	04	04.30278	14	25	41.31	-14	38	44.6		4	809
1992	GO3		1992	04	06.26806	14	24	22.29	-14	31	03.8	18.5	4	809
1992	GO3		1992	04	06.28125	14	24	21.82	-14	31	00.8		4	809
1992	GO3		1992	04	06.29444	14	24	21.31	-14	30	57.6		4	809
1992	GO3		1992	04	25.13403	14	09	30.30	-13	03	13.5	18.5	4	809
1992	GO3		1992	04	25.14722	14	09	29.56	-13	03	09.4		4	809
1992	GO3		1992	04	25.16042	14	09	28.90	-13	03	06.6		4	809
1992	GP3	*	1992	04	04.27639	14	25	46.41	-13	30	03.8		4	809
1992	GP3		1992	04	04.28958	14	25	45.87	-13	30	01.8		4	809
1992	GP3		1992	04	04.30278	14	25	45.36	-13	29	59.4		4	809
1992	GP3		1992	04	06.26806	14	24	34.16	-13	23	46.1	18.5	4	809
1992	GP3		1992	04	06.28125	14	24	33.62	-13	23	43.2		4	809
1992	GP3		1992	04	06.29444	14	24	33.16	-13	23	41.4		4	809
1992	GP3		1992	04	25.13403	14	10	49.14	-12	12	03.5	18.2	4	809
1992	GP3		1992	04	25.14722	14	10	48.49	-12	12	00.5		4	809
1992	GP3		1992	04	25.16042	14	10	47.86	-12	11	57.5		4	809
1992	GQ3	*	1992	04	04.27639	14	26	06.24	-15	11	02.1	19.4	4	809
1992	GQ3		1992	04	04.28958	14	26	05.69	-15	11	01.1		4	809
1992	GQ3		1992	04	04.30278	14	26	05.14	-15	11	00.5		4	809
1992	GQ3		1992	04	06.26806	14	24	39.76	-15	08	31.2	19.6	4	809
1992	GQ3		1992	04	06.28125	14	24	39.17	-15	08	30.7		4	809
1992	GQ3		1992	04	06.29444	14	24	38.53	-15	08	29.7		4	809
1992	GR3	*	1992	04	04.27639	14	26	07.80	-13	41	49.2		4	809
1992	GR3		1992	04	04.28958	14	26	07.01	-13	41	48.8		4	809
1992	GR3		1992	04	04.30278	14	26	06.46	-13	41	49.8		4	809
1992	GR3		1992	04	06.26806	14	24	25.45	-13	40	58.7	18.7	4	809
1992	GR3		1992	04	06.28125	14	24	24.75	-13	40	57.3		4	809
1992	GR3		1992	04	06.29444	14	24	23.99	-13	40	56.5		4	809
1992	GR3		1992	04	25.13403	14	06	05.98	-13	21	34.6	18.6	4	809
1992	GR3		1992	04	25.14722	14	06	05.10	-13	21	33.6		4	809
1992	GR3		1992	04	25.16042	14	06	04.38	-13	21	32.4		4	809
1992	GS3	*	1992	04	04.27639	14	26	19.05	-16	25	58.3		4	809
1992	GS3		1992	04	04.28958	14	26	18.59	-16	25	50.9		4	809
1992	GS3		1992	04	04.30278	14	26	18.14	-16	25	43.7		4	809
1992	GS3		1992	04	06.26806	14	25	11.09	-16	05	33.7	19.0	4	809
1992	GS3		1992	04	06.28125	14	25	10.66	-16	05	25.5		4	809
1992	GS3		1992	04	06.29444	14	25	10.13	-16	05	17.4		4	809
1992	GS3		1992	04	25.13403	14	11	39.76	-12	25	30.0	19.0	4	809

1992	GS3		1992	04	25.14722	14	11	39.11	-12 25 20.7		4 809
1992	GS3		1992	04	25.16042	14	11	38.47	-12 25 11.5		4 809
1992	GT3	*	1992	04	04.27639	14	26	23.79	-16 02 22.4		4 809
1992	GT3		1992	04	04.28958	14	26	23.18	-16 02 20.4		4 809
1992	GT3		1992	04	04.30278	14	26	22.60	-16 02 19.7		4 809
1992	GT3		1992	04	06.26806	14	25	00.65	-15 58 28.3	18.7	4 809
1992	GT3		1992	04	06.28125	14	25	00.04	-15 58 26.8		4 809
1992	GT3		1992	04	06.29444	14	24	59.42	-15 58 24.4		4 809
1992	GU3	*	1992	04	04.27639	14	26	59.29	-15 43 32.2	18.7	4 809
1992	GU3		1992	04	04.28958	14	26	58.84	-15 43 31.9		4 809
1992	GU3		1992	04	04.30278	14	26	58.40	-15 43 31.1		4 809
1992	GU3		1992	04	06.26806	14	26	05.36	-15 40 26.1	19.4	4 809
1992	GU3		1992	04	06.28125	14	26	05.02	-15 40 23.7		4 809
1992	GU3		1992	04	06.29444	14	26	04.66	-15 40 22.7		4 809
1992	GV3	*	1992	04	04.27639	14	27	18.42	-13 20 15.5		4 809
1992	GV3		1992	04	04.28958	14	27	17.78	-13 20 16.4		4 809
1992	GV3		1992	04	04.30278	14	27	17.14	-13 20 16.1		4 809
1992	GV3		1992	04	06.26806	14	25	40.64	-13 20 47.9	18.7	4 809
1992	GV3		1992	04	06.28125	14	25	39.96	-13 20 48.3		4 809
1992	GV3		1992	04	06.29444	14	25	39.28	-13 20 48.0		4 809
1992	GV3		1992	04	25.13403	14	07	25.80	-13 14 19.7	18.5	4 809
1992	GV3		1992	04	25.14722	14	07	24.85	-13 14 18.9		4 809
1992	GV3		1992	04	25.16042	14	07	23.99	-13 14 18.7		4 809
1992	GW3	*	1992	04	04.27639	14	27	47.45	-13 40 36.2		4 809
1992	GW3		1992	04	04.28958	14	27	46.97	-13 40 34.1		4 809
1992	GW3		1992	04	04.30278	14	27	46.31	-13 40 32.8		4 809
1992	GW3		1992	04	06.26806	14	26	30.97	-13 32 56.6	19.0	4 809
1992	GW3		1992	04	06.28125	14	26	30.32	-13 32 53.0		4 809
1992	GW3		1992	04	06.29444	14	26	29.74	-13 32 51.3		4 809
1992	GX3	*	1992	04	04.27639	14	27	55.33	-13 34 54.9		4 809
1992	GX3		1992	04	04.28958	14	27	54.44	-13 34 59.7		4 809
1992	GX3		1992	04	04.30278	14	27	53.53	-13 35 04.6		4 809
1992	GX3		1992	04	06.26806	14	25	42.75	-13 46 24.1	18.6	4 809
1992	GX3		1992	04	06.28125	14	25	41.72	-13 46 28.5		4 809
1992	GX3		1992	04	06.29444	14	25	40.79	-13 46 32.8		4 809
1992	GY3	*	1992	04	04.27639	14	27	57.48	-15 30 12.4		4 809
1992	GY3		1992	04	04.28958	14	27	56.89	-15 30 07.0		4 809
1992	GY3		1992	04	04.30278	14	27	56.34	-15 30 02.8		4 809
1992	GY3		1992	04	06.26806	14	26	36.47	-15 17 59.0	18.5	4 809
1992	GY3		1992	04	06.28125	14	26	35.90	-15 17 53.6		4 809
1992	GY3		1992	04	06.29444	14	26	35.31	-15 17 49.7		4 809
1992	GY3		1992	04	25.13403	14	11	19.85	-13 04 13.1	18.1	4 809
1992	GY3		1992	04	25.14722	14	11	19.12	-13 04 07.4		4 809
1992	GY3		1992	04	25.16042	14	11	18.43	-13 04 01.4		4 809
1992	GZ3	*	1992	04	04.27639	14	28	27.39	-12 40 20.1	18.6	4 809
1992	GZ3		1992	04	04.28958	14	28	26.99	-12 40 17.2		4 809
1992	GZ3		1992	04	04.30278	14	28	26.66	-12 40 17.7		4 809
1992	GZ3		1992	04	06.26806	14	27	34.96	-12 37 34.9	18.7	4 809
1992	GZ3		1992	04	06.28125	14	27	34.66	-12 37 33.5		4 809
1992	GZ3		1992	04	06.29444	14	27	34.32	-12 37 32.7		4 809
1992	GA4	*	1992	04	04.27639	14	28	39.37	-12 55 10.9		4 809
1992	GA4		1992	04	04.28958	14	28	38.83	-12 55 07.7		4 809
1992	GA4		1992	04	04.30278	14	28	38.39	-12 55 05.5		4 809
1992	GA4		1992	04	06.26806	14	27	29.91	-12 48 19.6	18.6	4 809
1992	GA4		1992	04	06.28125	14	27	29.38	-12 48 17.7		4 809
1992	GA4		1992	04	06.29444	14	27	28.91	-12 48 15.5		4 809
1992	GA4		1992	04	25.13403	14	14	19.15	-11 33 28.9	18.4	4 809
1992	GA4		1992	04	25.14722	14	14	18.54	-11 33 26.0		4 809
1992	GA4		1992	04	25.16042	14	14	17.89	-11 33 23.1		4 809

1992 GB4	*	1992	04	04.27639	14	28	56.84	-12	43	34.8		4	809
1992 GB4		1992	04	04.28958	14	28	56.26	-12	43	32.2		4	809
1992 GB4		1992	04	04.30278	14	28	55.58	-12	43	27.6		4	809
1992 GB4		1992	04	06.26806	14	27	29.76	-12	34	19.9	19.2	4	809
1992 GB4		1992	04	06.28125	14	27	29.20	-12	34	16.4		4	809
1992 GB4		1992	04	06.29444	14	27	28.56	-12	34	13.1		4	809
1992 GC4	*	1992	04	04.27639	14	29	07.86	-15	48	58.5		4	809
1992 GC4		1992	04	04.28958	14	29	07.21	-15	48	59.4		4	809
1992 GC4		1992	04	04.30278	14	29	06.62	-15	48	59.6		4	809
1992 GC4		1992	04	06.26806	14	27	40.46	-15	50	43.4	18.7	4	809
1992 GC4		1992	04	06.28125	14	27	39.79	-15	50	44.2		4	809
1992 GC4		1992	04	06.29444	14	27	39.08	-15	50	45.2		4	809
1992 GD4	*	1992	04	04.27639	14	29	27.02	-15	53	11.2		4	809
1992 GD4		1992	04	04.28958	14	29	26.54	-15	53	06.3		4	809
1992 GD4		1992	04	04.30278	14	29	26.05	-15	53	01.0		4	809
1992 GD4		1992	04	06.26806	14	28	17.67	-15	40	13.1	18.5	4	809
1992 GD4		1992	04	06.28125	14	28	17.13	-15	40	07.8		4	809
1992 GD4		1992	04	06.29444	14	28	16.64	-15	40	03.0		4	809
1992 GD4		1992	04	25.13403	14	14	17.95	-13	14	50.2	18.7	4	809
1992 GD4		1992	04	25.14722	14	14	17.27	-13	14	43.5		4	809
1992 GD4		1992	04	25.16042	14	14	16.64	-13	14	36.6		4	809
1992 GE4	*	1992	04	04.27639	14	29	49.57	-12	34	59.3		4	809
1992 GE4		1992	04	04.28958	14	29	49.05	-12	34	54.1		4	809
1992 GE4		1992	04	04.30278	14	29	48.56	-12	34	48.0		4	809
1992 GE4		1992	04	06.26806	14	28	39.73	-12	20	57.7	18.6	4	809
1992 GE4		1992	04	06.28125	14	28	39.20	-12	20	51.3		4	809
1992 GE4		1992	04	06.29444	14	28	38.77	-12	20	46.7		4	809
1992 GF4	*	1992	04	04.27639	14	30	01.10	-13	19	54.8		4	809
1992 GF4		1992	04	04.28958	14	30	00.42	-13	19	52.9		4	809
1992 GF4		1992	04	04.30278	14	29	59.76	-13	19	52.3		4	809
1992 GF4		1992	04	06.26806	14	28	17.79	-13	15	41.5	19.5	4	809
1992 GF4		1992	04	06.28125	14	28	17.03	-13	15	41.2		4	809
1992 GF4		1992	04	06.29444	14	28	16.39	-13	15	40.7		4	809
1992 GF4		1992	04	25.13403	14	09	04.35	-12	22	48.4	19.0	4	809
1992 GF4		1992	04	25.14722	14	09	03.45	-12	22	44.6		4	809
1992 GF4		1992	04	25.16042	14	09	02.46	-12	22	43.2		4	809
1992 GG4	*	1992	04	04.27639	14	30	08.76	-12	55	42.4		4	809
1992 GG4		1992	04	04.28958	14	30	08.05	-12	55	38.7		4	809
1992 GG4		1992	04	04.30278	14	30	07.38	-12	55	34.8		4	809
1992 GG4		1992	04	06.26806	14	28	34.36	-12	46	32.4	19.6	4	809
1992 GG4		1992	04	06.28125	14	28	33.75	-12	46	29.3		4	809
1992 GG4		1992	04	06.29444	14	28	33.19	-12	46	27.7		4	809
1992 GH4	*	1992	04	04.27639	14	30	34.48	-15	17	55.9		4	809
1992 GH4		1992	04	04.28958	14	30	33.90	-15	17	54.0		4	809
1992 GH4		1992	04	04.30278	14	30	33.45	-15	17	53.5		4	809
1992 GH4		1992	04	06.26806	14	29	14.30	-15	14	14.4	19.0	4	809
1992 GH4		1992	04	06.28125	14	29	13.74	-15	14	13.2		4	809
1992 GH4		1992	04	06.29444	14	29	13.19	-15	14	12.3		4	809
1992 GH4		1992	04	25.13403	14	12	50.58	-14	18	57.0	19.0	4	809
1992 GH4		1992	04	25.14722	14	12	49.81	-14	18	54.0		4	809
1992 GH4		1992	04	25.16042	14	12	49.01	-14	18	52.2		4	809
1992 GJ4	*	1992	04	04.27639	14	30	49.66	-14	56	43.7		4	809
1992 GJ4		1992	04	04.28958	14	30	49.11	-14	56	40.6		4	809
1992 GJ4		1992	04	04.30278	14	30	48.58	-14	56	37.8		4	809
1992 GJ4		1992	04	06.26806	14	29	30.34	-14	47	55.1	19.0	4	809
1992 GJ4		1992	04	06.28125	14	29	29.82	-14	47	50.9		4	809
1992 GJ4		1992	04	06.29444	14	29	29.27	-14	47	48.0		4	809
1992 GJ4		1992	04	25.13403	14	14	34.04	-13	09	19.0	18.5	4	809
1992 GJ4		1992	04	25.14722	14	14	33.35	-13	09	15.4		4	809

1992	GJ4		1992	04	25.16042	14	14	32.70	-13 09 10.9		4 809
1992	GK4	*	1992	04	04.27639	14	31	06.10	-16 11 53.3		4 809
1992	GK4		1992	04	04.28958	14	31	05.37	-16 11 54.3		4 809
1992	GK4		1992	04	04.30278	14	31	04.79	-16 11 57.0		4 809
1992	GK4		1992	04	06.26806	14	29	27.10	-16 13 19.1	18.7	4 809
1992	GK4		1992	04	06.28125	14	29	26.35	-16 13 20.1		4 809
1992	GK4		1992	04	06.29444	14	29	25.69	-16 13 20.5		4 809
1992	GL4	*	1992	04	04.27639	14	31	33.94	-15 34 57.7		4 809
1992	GL4		1992	04	04.28958	14	31	33.38	-15 34 57.6		4 809
1992	GL4		1992	04	04.30278	14	31	32.78	-15 34 57.3		4 809
1992	GL4		1992	04	06.26806	14	30	13.69	-15 33 27.1	18.7	4 809
1992	GL4		1992	04	06.28125	14	30	13.09	-15 33 27.2		4 809
1992	GL4		1992	04	06.29444	14	30	12.49	-15 33 26.0		4 809
1992	GM4	*	1992	04	04.27639	14	31	52.97	-15 19 06.1		4 809
1992	GM4		1992	04	04.28958	14	31	52.39	-15 19 01.0		4 809
1992	GM4		1992	04	04.30278	14	31	51.87	-15 18 57.4		4 809
1992	GM4		1992	04	06.26806	14	30	30.98	-15 08 09.8	18.7	4 809
1992	GM4		1992	04	06.28125	14	30	30.31	-15 08 05.5		4 809
1992	GM4		1992	04	06.29444	14	30	29.74	-15 08 01.3		4 809
1992	GM4		1992	04	25.13403	14	14	32.64	-13 03 55.4	18.6	4 809
1992	GM4		1992	04	25.14722	14	14	31.87	-13 03 49.3		4 809
1992	GM4		1992	04	25.16042	14	14	31.05	-13 03 44.1		4 809
1992	GN4	*	1992	04	04.27639	14	32	12.50	-17 05 21.0		4 809
1992	GN4		1992	04	04.28958	14	32	11.87	-17 05 19.9		4 809
1992	GN4		1992	04	04.30278	14	32	11.37	-17 05 18.8		4 809
1992	GN4		1992	04	06.26806	14	30	54.90	-17 00 18.7	19.5	4 809
1992	GN4		1992	04	06.28125	14	30	54.28	-17 00 16.6		4 809
1992	GN4		1992	04	06.29444	14	30	53.66	-17 00 14.8		4 809
1992	GO4	*	1992	04	04.27639	14	32	18.02	-14 11 15.3		4 809
1992	GO4		1992	04	04.28958	14	32	17.40	-14 11 11.1		4 809
1992	GO4		1992	04	04.30278	14	32	16.95	-14 11 07.8		4 809
1992	GO4		1992	04	06.26806	14	31	03.68	-14 00 47.5	18.5	4 809
1992	GO4		1992	04	06.28125	14	31	03.09	-14 00 44.1		4 809
1992	GO4		1992	04	06.29444	14	31	02.56	-14 00 39.7		4 809
1992	GO4		1992	04	25.13403	14	15	34.85	-12 01 55.0	18.5	4 809
1992	GO4		1992	04	25.14722	14	15	34.11	-12 01 49.2		4 809
1992	GO4		1992	04	25.16042	14	15	33.35	-12 01 44.0		4 809
1992	GP4	*	1992	04	04.27639	14	33	40.57	-14 11 40.6	19.5	4 809
1992	GP4		1992	04	04.28958	14	33	39.96	-14 11 39.7		4 809
1992	GP4		1992	04	04.30278	14	33	39.37	-14 11 38.6		4 809
1992	GP4		1992	04	06.26806	14	32	19.18	-14 07 04.4	19.0	4 809
1992	GP4		1992	04	06.28125	14	32	18.65	-14 07 01.9		4 809
1992	GP4		1992	04	06.29444	14	32	18.12	-14 07 00.7		4 809
1992	GQ4	*	1992	04	04.27639	14	34	22.32	-16 18 24.4		4 809
1992	GQ4		1992	04	04.28958	14	34	21.60	-16 18 24.2		4 809
1992	GQ4		1992	04	04.30278	14	34	20.78	-16 18 22.9		4 809
1992	GQ4		1992	04	06.26806	14	32	45.83	-16 16 25.9	18.7	4 809
1992	GQ4		1992	04	06.28125	14	32	45.00	-16 16 24.9		4 809
1992	GQ4		1992	04	06.29444	14	32	44.35	-16 16 24.2		4 809
1992	GR4	*	1992	04	04.27639	14	34	35.33	-16 36 47.1		4 809
1992	GR4		1992	04	04.28958	14	34	34.66	-16 36 45.8		4 809
1992	GR4		1992	04	04.30278	14	34	34.06	-16 36 44.9		4 809
1992	GR4		1992	04	06.26806	14	33	09.59	-16 33 44.4	18.7	4 809
1992	GR4		1992	04	06.28125	14	33	09.01	-16 33 43.5		4 809
1992	GR4		1992	04	06.29444	14	33	08.38	-16 33 43.0		4 809
1992	GS4	*	1992	04	04.27639	14	34	54.99	-15 48 40.8	19.0	4 809
1992	GS4		1992	04	04.28958	14	34	54.47	-15 48 37.4		4 809
1992	GS4		1992	04	04.30278	14	34	53.82	-15 48 35.1		4 809
1992	GS4		1992	04	06.26806	14	33	40.95	-15 43 12.3	20.0	4 809

1992	GS4		1992	04	06.28125	14	33	40.39	-15	43	09.1		4	809
1992	GS4		1992	04	06.29444	14	33	39.75	-15	43	06.9		4	809
1992	GT4	*	1992	04	04.27639	14	35	27.78	-14	51	24.8		4	809
1992	GT4		1992	04	04.28958	14	35	27.27	-14	51	22.9		4	809
1992	GT4		1992	04	04.30278	14	35	26.67	-14	51	20.7		4	809
1992	GT4		1992	04	06.26806	14	34	08.67	-14	45	57.7	19.4	4	809
1992	GT4		1992	04	06.28125	14	34	08.12	-14	45	55.2		4	809
1992	GT4		1992	04	06.29444	14	34	07.57	-14	45	54.4		4	809
1992	GU4	*	1992	04	04.27639	14	35	50.61	-13	21	11.1	19.0	4	809
1992	GU4		1992	04	04.28958	14	35	50.06	-13	21	08.3		4	809
1992	GU4		1992	04	04.30278	14	35	49.52	-13	21	06.1		4	809
1992	GU4		1992	04	06.26806	14	34	38.45	-13	13	37.3	19.6	4	809
1992	GU4		1992	04	06.28125	14	34	37.92	-13	13	34.8		4	809
1992	GU4		1992	04	06.29444	14	34	37.47	-13	13	32.7		4	809
1992	GV4	*	1992	04	04.27639	14	36	15.91	-14	08	13.9		4	809
1992	GV4		1992	04	04.28958	14	36	15.33	-14	08	10.4		4	809
1992	GV4		1992	04	04.30278	14	36	14.63	-14	08	09.2		4	809
1992	GV4		1992	04	06.26806	14	35	06.91	-14	02	47.4	19.5	4	809
1992	GV4		1992	04	06.28125	14	35	06.44	-14	02	44.7		4	809
1992	GV4		1992	04	06.29444	14	35	05.94	-14	02	41.6		4	809
1992	GW4	*	1992	04	04.27639	14	36	46.84	-12	49	20.8		4	809
1992	GW4		1992	04	04.28958	14	36	46.16	-12	49	21.5		4	809
1992	GW4		1992	04	04.30278	14	36	45.52	-12	49	22.9		4	809
1992	GW4		1992	04	06.26806	14	35	18.04	-12	50	54.7	18.5	4	809
1992	GW4		1992	04	06.28125	14	35	17.35	-12	50	54.7		4	809
1992	GW4		1992	04	06.29444	14	35	16.79	-12	50	56.1		4	809
1992	GW4		1992	04	25.13403	14	17	05.95	-12	54	10.2	18.5	4	809
1992	GW4		1992	04	25.14722	14	17	05.08	-12	54	09.3		4	809
1992	GW4		1992	04	25.16042	14	17	04.20	-12	54	09.8		4	809
1992	GX4	*	1992	04	04.27639	14	37	10.00	-13	55	35.2		4	809
1992	GX4		1992	04	04.28958	14	37	09.39	-13	55	34.3		4	809
1992	GX4		1992	04	04.30278	14	37	08.82	-13	55	34.0		4	809
1992	GX4		1992	04	06.26806	14	35	47.39	-13	54	08.4	18.5	4	809
1992	GX4		1992	04	06.28125	14	35	46.75	-13	54	07.7		4	809
1992	GX4		1992	04	06.29444	14	35	46.15	-13	54	06.7		4	809
1992	GX4		1992	04	25.13403	14	18	30.56	-13	24	22.1	18.3	4	809
1992	GX4		1992	04	25.14722	14	18	29.64	-13	24	20.3		4	809
1992	GX4		1992	04	25.16042	14	18	28.77	-13	24	18.8		4	809
1992	GY4	*	1992	04	04.27639	14	37	21.34	-15	34	37.2		4	809
1992	GY4		1992	04	04.28958	14	37	20.56	-15	34	40.0		4	809
1992	GY4		1992	04	04.30278	14	37	19.81	-15	34	43.2		4	809
1992	GY4		1992	04	06.26806	14	35	30.50	-15	42	04.5	18.6	4	809
1992	GY4		1992	04	06.28125	14	35	29.71	-15	42	07.2		4	809
1992	GY4		1992	04	06.29444	14	35	28.94	-15	42	09.3		4	809
1992	GZ4	*	1992	04	04.27639	14	37	43.57	-13	05	15.6		4	809
1992	GZ4		1992	04	04.28958	14	37	43.06	-13	05	13.4		4	809
1992	GZ4		1992	04	04.30278	14	37	42.60	-13	05	12.2		4	809
1992	GZ4		1992	04	06.26806	14	36	32.44	-12	59	50.4	19.0	4	809
1992	GZ4		1992	04	06.28125	14	36	31.94	-12	59	47.8		4	809
1992	GZ4		1992	04	06.29444	14	36	31.40	-12	59	44.4		4	809
1992	GA5	*	1992	04	04.27639	14	37	55.03	-12	57	10.2		4	809
1992	GA5		1992	04	04.28958	14	37	54.47	-12	57	08.6		4	809
1992	GA5		1992	04	04.30278	14	37	54.02	-12	57	07.7		4	809
1992	GA5		1992	04	06.26806	14	36	45.98	-12	54	29.2	18.7	4	809
1992	GA5		1992	04	06.28125	14	36	45.44	-12	54	28.6		4	809
1992	GA5		1992	04	06.29444	14	36	44.87	-12	54	28.5		4	809
1992	GB5	*	1992	04	04.27639	14	37	56.93	-12	52	42.9		4	809
1992	GB5		1992	04	04.28958	14	37	56.45	-12	52	39.2		4	809
1992	GB5		1992	04	04.30278	14	37	56.03	-12	52	36.5		4	809

1992	GB5		1992	04	06.26806	14	36	52.04	-12 43 39.5	18.5	4 809
1992	GB5		1992	04	06.28125	14	36	51.57	-12 43 36.5		4 809
1992	GB5		1992	04	06.29444	14	36	51.08	-12 43 32.4		4 809
1992	GC5	*	1992	04	04.27639	14	38	14.96	-13 13 08.1		4 809
1992	GC5		1992	04	04.28958	14	38	14.46	-13 13 06.8		4 809
1992	GC5		1992	04	04.30278	14	38	13.95	-13 13 04.6		4 809
1992	GC5		1992	04	06.26806	14	37	03.77	-13 08 02.8	18.8	4 809
1992	GC5		1992	04	06.28125	14	37	03.22	-13 08 00.0		4 809
1992	GC5		1992	04	06.29444	14	37	02.66	-13 07 57.7		4 809
1992	GD5	*	1992	04	04.27639	14	39	39.07	-16 33 33.3		4 809
1992	GD5		1992	04	04.28958	14	39	38.57	-16 33 30.8		4 809
1992	GD5		1992	04	04.30278	14	39	38.13	-16 33 29.0		4 809
1992	GD5		1992	04	06.26806	14	38	34.18	-16 27 23.8	18.5	4 809
1992	GD5		1992	04	06.28125	14	38	33.64	-16 27 21.0		4 809
1992	GD5		1992	04	06.29444	14	38	33.13	-16 27 18.9		4 809
1992	HG		1992	04	04.27639	14	31	57.60	-15 44 13.7		4 809
1992	HG		1992	04	04.28958	14	31	57.09	-15 44 09.5		4 809
1992	HG		1992	04	04.30278	14	31	56.64	-15 44 06.1		4 809
1992	HG		1992	04	06.26806	14	30	49.93	-15 34 38.8	18.5	4 809
1992	HG		1992	04	06.28125	14	30	49.47	-15 34 33.9		4 809
1992	HG		1992	04	06.29444	14	30	48.94	-15 34 30.7		4 809
1992	HG		1992	04	25.13403	14	17	55.13	-13 47 57.0	18.4	4 809
1992	HG		1992	04	25.14722	14	17	54.51	-13 47 51.9		4 809
1992	HG		1992	04	25.16042	14	17	53.83	-13 47 46.8		4 809
1992	HX		1992	04	04.27639	14	33	27.14	-14 22 52.0		4 809
1992	HX		1992	04	04.28958	14	33	26.56	-14 22 50.1		4 809
1992	HX		1992	04	04.30278	14	33	26.14	-14 22 48.0		4 809
1992	HX		1992	04	06.26806	14	32	13.30	-14 17 30.9	19.4	4 809
1992	HX		1992	04	06.28125	14	32	12.88	-14 17 28.6		4 809
1992	HX		1992	04	06.29444	14	32	12.38	-14 17 26.0		4 809
1992	HY		1992	04	04.27639	14	35	47.25	-14 57 40.8		4 809
1992	HY		1992	04	04.28958	14	35	46.64	-14 57 38.2		4 809
1992	HY		1992	04	04.30278	14	35	46.08	-14 57 36.5		4 809
1992	HY		1992	04	06.26806	14	34	24.53	-14 50 33.7	18.6	4 809
1992	HY		1992	04	06.28125	14	34	23.93	-14 50 31.6		4 809
1992	HY		1992	04	06.29444	14	34	23.32	-14 50 28.6		4 809
1992	HY		1992	04	25.13403	14	18	12.24	-13 25 43.2	18.5	4 809
1992	HY		1992	04	25.14722	14	18	11.47	-13 25 38.7		4 809
1992	HY		1992	04	25.16042	14	18	10.70	-13 25 35.2		4 809
1992	HG1		1992	04	04.27639	14	38	35.15	-16 18 45.7	18.7	4 809
1992	HG1		1992	04	04.28958	14	38	34.72	-16 18 42.1		4 809
1992	HG1		1992	04	04.30278	14	38	34.28	-16 18 38.0		4 809
1992	HG1		1992	04	06.26806	14	37	33.63	-16 08 05.1	19.2	4 809
1992	HG1		1992	04	06.28125	14	37	33.17	-16 08 01.2		4 809
1992	HG1		1992	04	06.29444	14	37	32.76	-16 07 58.0		4 809
1992	HH1		1992	04	04.27639	14	39	28.51	-15 37 40.6		4 809
1992	HH1		1992	04	04.28958	14	39	27.92	-15 37 37.9		4 809
1992	HH1		1992	04	04.30278	14	39	27.46	-15 37 33.8		4 809
1992	HH1		1992	04	06.26806	14	38	14.27	-15 29 42.9	18.7	4 809
1992	HH1		1992	04	06.28125	14	38	13.77	-15 29 40.8		4 809
1992	HH1		1992	04	06.29444	14	38	13.27	-15 29 37.6		4 809
1992	HK1		1992	04	04.23125	13	59	46.93	-11 13 21.2	18.6	4 809
1992	HK1		1992	04	04.24444	13	59	46.32	-11 13 18.0		4 809
1992	HK1		1992	04	04.25764	13	59	45.73	-11 13 15.9		4 809
1992	HK1		1992	04	06.22500	13	58	18.28	-11 06 39.8		4 809
1992	HK1		1992	04	06.23819	13	58	17.66	-11 06 37.5		4 809
1992	HK1		1992	04	06.25139	13	58	17.00	-11 06 35.4		4 809
1992	HZ3		1992	04	04.23125	13	50	50.87	-12 16 06.8	18.5	4 809
1992	HZ3		1992	04	04.24444	13	50	50.25	-12 16 05.2		4 809

1992	HZ3		1992	04	04.25764	13	50	49.57	-12	16	03.0		4	809
1992	HZ3		1992	04	06.22500	13	49	16.28	-12	09	57.3		4	809
1992	HZ3		1992	04	06.23819	13	49	15.57	-12	09	55.0		4	809
1992	HZ3		1992	04	06.25139	13	49	14.88	-12	09	52.4		4	809
1992	HA4		1992	04	04.23125	13	50	50.11	-11	42	32.9	18.5	4	809
1992	HA4		1992	04	04.24444	13	50	49.46	-11	42	29.7		4	809
1992	HA4		1992	04	04.25764	13	50	48.82	-11	42	27.6		4	809
1992	HA4		1992	04	06.22500	13	49	18.12	-11	34	07.2		4	809
1992	HA4		1992	04	06.23819	13	49	17.38	-11	34	03.8		4	809
1992	HA4		1992	04	06.25139	13	49	16.60	-11	33	59.2		4	809
1992	HC4		1992	04	04.23125	14	00	11.07	-11	03	48.4	18.6	4	809
1992	HC4		1992	04	04.24444	14	00	10.30	-11	03	49.0		4	809
1992	HC4		1992	04	04.25764	14	00	09.69	-11	03	50.3		4	809
1992	HC4		1992	04	06.22500	13	58	26.01	-11	06	44.1		4	809
1992	HC4		1992	04	06.23819	13	58	25.33	-11	06	45.0		4	809
1992	HC4		1992	04	06.25139	13	58	24.63	-11	06	46.4		4	809
1992	HD4		1992	04	04.23125	13	58	03.39	-14	06	24.9	18.2	4	809
1992	HD4		1992	04	04.24444	13	58	02.71	-14	06	19.3		4	809
1992	HD4		1992	04	04.25764	13	58	02.16	-14	06	12.9		4	809
1992	HD4		1992	04	06.22500	13	56	41.33	-13	50	59.2		4	809
1992	HD4		1992	04	06.23819	13	56	40.73	-13	50	53.8		4	809
1992	HD4		1992	04	06.25139	13	56	40.12	-13	50	47.0		4	809
1992	HF4		1992	04	04.23125	14	01	19.71	-13	09	17.5	18.5	4	809
1992	HF4		1992	04	04.24444	14	01	19.12	-13	09	11.3		4	809
1992	HF4		1992	04	04.25764	14	01	18.51	-13	09	05.1		4	809
1992	HF4		1992	04	06.22500	13	59	55.34	-12	51	32.4		4	809
1992	HF4		1992	04	06.23819	13	59	54.72	-12	51	25.3		4	809
1992	HF4		1992	04	06.25139	13	59	54.09	-12	51	18.5		4	809
1992	HG4		1992	04	04.23125	14	06	06.75	-13	09	49.8	18.4	4	809
1992	HG4		1992	04	04.24444	14	06	06.03	-13	09	46.3		4	809
1992	HG4		1992	04	04.25764	14	06	05.45	-13	09	43.5		4	809
1992	HG4		1992	04	06.22500	14	04	34.02	-13	00	37.1		4	809
1992	HG4		1992	04	06.23819	14	04	33.31	-13	00	33.3		4	809
1992	HG4		1992	04	06.25139	14	04	32.65	-13	00	29.8		4	809
1992	JP1	*	1992	05	08.18507	15	15	30.92	-20	03	34.8	17.5	3	809
1992	JP1		1992	05	08.19549	15	15	30.33	-20	03	33.1		3	809
1992	JP1		1992	05	08.20590	15	15	29.76	-20	03	31.4		3	809
1992	JP1		1992	05	12.31806	15	11	41.40	-19	54	05.5		3	809
1992	JP1		1992	05	12.32500	15	11	41.00	-19	54	04.6		3	809
1992	JP1		1992	05	12.33194	15	11	40.60	-19	54	03.7		3	809
1992	OH1	*	1992	07	26.38507	22	06	46.11	-15	00	48.2	17.2	3	809
1992	OH1		1992	07	26.39549	22	06	45.68	-15	00	52.3		3	809
1992	OH1		1992	07	26.40590	22	06	45.25	-15	00	56.3		3	809
1992	OH1		1992	07	28.35521	22	05	25.81	-15	12	32.6		3	809
1992	OH1		1992	07	28.36563	22	05	25.31	-15	12	36.4		3	809
1992	OH1		1992	07	28.37604	22	05	24.82	-15	12	40.2		3	809
1992	OJ1	*	1992	07	26.38507	22	07	06.40	-15	46	08.8	16.8	3	809
1992	OJ1		1992	07	26.39549	22	07	05.52	-15	46	02.0		3	809
1992	OJ1		1992	07	26.40590	22	07	04.64	-15	45	55.2		3	809
1992	OJ1		1992	07	28.35521	22	04	23.83	-15	25	14.9		3	809
1992	OJ1		1992	07	28.36563	22	04	22.98	-15	25	09.5		3	809
1992	OJ1		1992	07	28.37604	22	04	22.13	-15	25	04.2		3	809
1010	T-2		1992	04	04.27639	14	36	55.10	-13	14	51.9		4	809
1010	T-2		1992	04	04.28958	14	36	54.63	-13	14	47.1		4	809
1010	T-2		1992	04	04.30278	14	36	54.19	-13	14	41.6		4	809
1010	T-2		1992	04	06.26806	14	35	48.98	-13	02	13.6	18.4	4	809
1010	T-2		1992	04	06.28125	14	35	48.48	-13	02	08.3		4	809
1010	T-2		1992	04	06.29444	14	35	48.05	-13	02	03.5		4	809
3220	T-3		1992	04	04.27639	14	26	26.57	-13	40	05.2		4	809

3220 T-3	1992	04	04.28958	14 26 26.02	-13 40 02.5		4	809
3220 T-3	1992	04	04.30278	14 26 25.57	-13 40 01.0		4	809
3220 T-3	1992	04	06.26806	14 25 15.06	-13 33 23.9	18.8	4	809
3220 T-3	1992	04	06.28125	14 25 14.55	-13 33 20.2		4	809
3220 T-3	1992	04	06.29444	14 25 13.99	-13 33 18.3		4	809
(263)	1992	04	04.27639	14 19 13.62	-14 07 48.6		4	809
(263)	1992	04	04.28958	14 19 13.03	-14 07 45.6		4	809
(263)	1992	04	04.30278	14 19 12.51	-14 07 43.8		4	809
(263)	1992	04	06.26806	14 17 52.55	-14 00 22.8	17.8	4	809
(263)	1992	04	06.28125	14 17 51.96	-14 00 20.5		4	809
(263)	1992	04	06.29444	14 17 51.37	-14 00 16.5		4	809
(263)	1992	04	25.13403	14 03 21.05	-12 38 20.0	17.5	4	809
(263)	1992	04	25.14722	14 03 20.34	-12 38 16.4		4	809
(263)	1992	04	25.16042	14 03 19.69	-12 38 12.6		4	809
(331)	1992	04	04.27639	14 25 27.39	-15 55 32.3		4	809
(331)	1992	04	04.28958	14 25 26.71	-15 55 31.2		4	809
(331)	1992	04	04.30278	14 25 26.22	-15 55 30.1		4	809
(331)	1992	04	06.26806	14 24 06.17	-15 52 20.7	16.7	4	809
(331)	1992	04	06.28125	14 24 05.53	-15 52 19.0		4	809
(331)	1992	04	06.29444	14 24 04.95	-15 52 18.3		4	809
(331)	1992	04	25.13403	14 09 20.30	-15 09 10.1	17.8	4	809
(331)	1992	04	25.14722	14 09 19.53	-15 09 08.5		4	809
(331)	1992	04	25.16042	14 09 18.87	-15 09 05.9		4	809
(414)	1991	09	05.08403	20 42 38.00	-23 39 51.3		4	809
(414)	1991	09	05.09722	20 42 37.51	-23 39 53.2		4	809
(414)	1991	09	05.11042	20 42 37.04	-23 39 54.9		4	809
(440)	1992	04	04.23125	13 52 21.80	-14 36 36.8	16.8	4	809
(440)	1992	04	04.24444	13 52 20.95	-14 36 33.3		4	809
(440)	1992	04	04.25764	13 52 20.16	-14 36 29.5		4	809
(440)	1992	04	06.22500	13 50 27.89	-14 27 00.7		4	809
(440)	1992	04	06.23819	13 50 27.04	-14 26 56.9		4	809
(440)	1992	04	06.25139	13 50 26.19	-14 26 53.9		4	809
(440)	1992	04	25.08889	13 31 33.27	-12 39 34.4	16.0	4	809
(440)	1992	04	25.10208	13 31 32.43	-12 39 29.8		4	809
(440)	1992	04	25.11528	13 31 31.62	-12 39 25.4		4	809
(832)	1992	04	04.23125	14 09 08.16	-14 09 15.7	18.0	4	809
(832)	1992	04	04.24444	14 09 07.56	-14 09 12.4		4	809
(832)	1992	04	04.25764	14 09 06.98	-14 09 09.7		4	809
(832)	1992	04	06.22500	14 07 42.90	-14 01 47.0		4	809
(832)	1992	04	06.23819	14 07 42.23	-14 01 44.5		4	809
(832)	1992	04	06.25139	14 07 41.63	-14 01 41.7		4	809
(981)	1992	04	04.27639	14 36 09.52	-14 38 06.8		4	809
(981)	1992	04	04.28958	14 36 08.93	-14 38 04.8		4	809
(981)	1992	04	04.30278	14 36 08.47	-14 38 03.2		4	809
(981)	1992	04	06.26806	14 34 56.95	-14 33 04.0	18.0	4	809
(981)	1992	04	06.28125	14 34 56.34	-14 33 01.5		4	809
(981)	1992	04	06.29444	14 34 55.86	-14 33 00.1		4	809
(1171)	1991	09	05.08403	20 36 53.09	-19 41 15.7		4	809
(1171)	1991	09	05.09722	20 36 52.56	-19 41 17.8		4	809
(1171)	1991	09	05.11042	20 36 51.88	-19 41 18.1		4	809
(1171)	1991	09	06.01667	20 36 27.08	-19 43 22.9	16.5	4	809
(1171)	1991	09	06.02986	20 36 26.52	-19 43 25.5		4	809
(1171)	1991	09	06.04306	20 36 26.15	-19 43 26.2		4	809
(1218)	1991	09	05.08403	20 36 12.70	-23 28 38.5		4	809
(1218)	1991	09	05.09722	20 36 12.15	-23 28 39.3		4	809
(1218)	1991	09	05.11042	20 36 11.61	-23 28 39.8		4	809
(1218)	1991	09	06.01667	20 35 42.51	-23 29 24.3	18.5	4	809
(1218)	1991	09	06.02986	20 35 41.99	-23 29 26.3		4	809
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(1247)	1992	04	25.13403	14	07	17.64	-10	40	23.1	17.8	4 809
(1247)	1992	04	25.14722	14	07	16.99	-10	40	19.9		4 809
(1247)	1992	04	25.16042	14	07	16.36	-10	40	15.8		4 809
(1267)	1992	04	04.27639	14	32	27.10	-15	43	03.6		4 809
(1267)	1992	04	04.28958	14	32	26.44	-15	43	03.3		4 809
(1267)	1992	04	04.30278	14	32	25.89	-15	43	03.2		4 809
(1267)	1992	04	06.26806	14	31	03.52	-15	41	49.8	17.5	4 809
(1267)	1992	04	06.28125	14	31	02.91	-15	41	50.2		4 809
(1267)	1992	04	06.29444	14	31	02.26	-15	41	49.3		4 809
(1267)	1992	04	25.13403	14	13	58.37	-15	10	50.4	17.5	4 809
(1267)	1992	04	25.14722	14	13	57.53	-15	10	48.6		4 809
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(1305)	1991	09	05.08403	20	38	54.89	-21	41	29.8		4 809
(1305)	1991	09	05.09722	20	38	54.44	-21	41	30.7		4 809
(1305)	1991	09	05.11042	20	38	53.97	-21	41	31.1		4 809
(1305)	1991	09	06.01667	20	38	30.43	-21	42	24.7	17.5	4 809
(1305)	1991	09	06.02986	20	38	29.96	-21	42	26.3		4 809
(1305)	1991	09	06.04306	20	38	29.62	-21	42	26.8		4 809
(1438)	1992	04	04.23125	14	09	58.98	-14	29	11.6	18.5	4 809
(1438)	1992	04	04.24444	14	09	58.37	-14	29	09.5		4 809
(1438)	1992	04	04.25764	14	09	57.91	-14	29	07.7		4 809
(1551)	1991	09	05.08403	20	31	36.31	-22	23	15.7		4 809
(1551)	1991	09	05.09722	20	31	35.85	-22	23	17.5		4 809
(1551)	1991	09	05.11042	20	31	35.47	-22	23	18.3		4 809
(1551)	1991	09	06.01667	20	31	17.08	-22	24	54.9	16.5	4 809
(1551)	1991	09	06.02986	20	31	16.68	-22	24	55.9		4 809
(1551)	1991	09	06.04306	20	31	16.34	-22	24	57.4		4 809
(1635)	1992	04	04.27639	14	41	10.77	-14	19	59.1	17.8	4 809
(1635)	1992	04	04.28958	14	41	10.16	-14	19	56.1		4 809
(1635)	1992	04	04.30278	14	41	09.71	-14	19	53.9		4 809
(1654)	1992	04	04.23125	13	54	48.77	-11	52	09.9	17.8	4 809
(1654)	1992	04	04.24444	13	54	48.07	-11	52	09.4		4 809
(1654)	1992	04	04.25764	13	54	47.40	-11	52	07.7		4 809
(1654)	1992	04	06.22500	13	53	14.53	-11	48	55.5		4 809
(1654)	1992	04	06.23819	13	53	13.91	-11	48	53.5		4 809
(1654)	1992	04	06.25139	13	53	13.20	-11	48	53.0		4 809
(1737)	1991	09	05.08403	20	30	58.81	-21	39	03.7		4 809
(1737)	1991	09	05.09722	20	30	58.28	-21	39	02.7		4 809
(1737)	1991	09	05.11042	20	30	57.74	-21	39	00.5		4 809
(1737)	1991	09	06.01667	20	30	32.74	-21	37	38.7	17.8	4 809
(1737)	1991	09	06.02986	20	30	32.24	-21	37	37.9		4 809
(1737)	1991	09	06.04306	20	30	31.83	-21	37	36.5		4 809
(2016)	1992	04	04.23125	14	04	34.63	-12	53	38.3	18.6	4 809
(2016)	1992	04	04.24444	14	04	34.07	-12	53	35.3		4 809
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(2016)	1992	04	06.23819	14	03	13.74	-12	46	55.5		4 809
(2016)	1992	04	06.25139	14	03	13.25	-12	46	53.6		4 809
(2197)	1991	09	05.08403	20	44	15.86	-21	32	11.1		4 809
(2197)	1991	09	05.09722	20	44	15.32	-21	32	12.4		4 809
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(2197)	1991	09	06.02986	20	43	47.78	-21	33	24.5		4 809
(2197)	1991	09	06.04306	20	43	47.43	-21	33	25.4		4 809
(2228)	1992	04	04.27639	14	32	49.84	-12	18	35.9		4 809
(2228)	1992	04	04.28958	14	32	49.28	-12	18	33.6		4 809
(2228)	1992	04	04.30278	14	32	48.78	-12	18	30.5		4 809
(2228)	1992	04	06.26806	14	31	36.04	-12	11	40.1	18.4	4 809
(2228)	1992	04	06.28125	14	31	35.52	-12	11	37.5		4 809

(2228)	1992	04	06.29444	14	31	34.96	-12	11	34.8	4 809
(2228)	1992	04	25.13403	14	18	17.17	-10	59	39.7	18.5 4 809
(2228)	1992	04	25.14722	14	18	16.54	-10	59	35.9	4 809
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(2306)	1992	04	04.27639	14	22	46.14	-17	10	15.7	4 809
(2306)	1992	04	04.28958	14	22	45.52	-17	10	12.8	4 809
(2306)	1992	04	04.30278	14	22	45.00	-17	10	09.9	4 809
(2306)	1992	04	06.26806	14	21	25.20	-17	02	11.8	18.5 4 809
(2306)	1992	04	06.28125	14	21	24.60	-17	02	08.4	4 809
(2306)	1992	04	06.29444	14	21	23.99	-17	02	05.3	4 809
(2306)	1992	04	25.13403	14	06	27.96	-15	26	25.9	18.3 4 809
(2306)	1992	04	25.14722	14	06	27.25	-15	26	20.9	4 809
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(2369)	1991	09	05.08403	20	48	36.98	-21	56	48.9	4 809
(2369)	1991	09	05.09722	20	48	36.48	-21	56	49.4	4 809
(2369)	1991	09	05.11042	20	48	36.00	-21	56	48.9	4 809
(2369)	1991	09	06.01667	20	48	10.07	-21	57	28.9	18.3 4 809
(2369)	1991	09	06.02986	20	48	09.56	-21	57	30.3	4 809
(2369)	1991	09	06.04306	20	48	09.20	-21	57	30.7	4 809
(2427)	1992	04	04.27639	14	35	48.18	-16	45	41.6	4 809
(2427)	1992	04	04.28958	14	35	47.58	-16	45	38.3	4 809
(2427)	1992	04	04.30278	14	35	47.05	-16	45	35.9	4 809
(2427)	1992	04	06.26806	14	34	29.65	-16	38	07.2	18.5 4 809
(2427)	1992	04	06.28125	14	34	29.06	-16	38	04.5	4 809
(2427)	1992	04	06.29444	14	34	28.49	-16	38	01.3	4 809
(2603)	1992	04	04.27639	14	20	28.44	-13	16	11.9	4 809
(2603)	1992	04	04.28958	14	20	27.79	-13	16	09.6	4 809
(2603)	1992	04	04.30278	14	20	27.16	-13	16	06.6	4 809
(2603)	1992	04	06.26806	14	19	02.99	-13	10	54.4	18.0 4 809
(2603)	1992	04	06.28125	14	19	02.32	-13	10	51.5	4 809
(2603)	1992	04	06.29444	14	19	01.78	-13	10	49.7	4 809
(2603)	1992	04	25.13403	14	03	28.61	-12	09	32.8	18.0 4 809
(2603)	1992	04	25.14722	14	03	27.87	-12	09	31.3	4 809
(2603)	1992	04	25.16042	14	03	27.16	-12	09	28.1	4 809
(2683)	1992	04	04.27639	14	26	01.62	-16	10	23.4	4 809
(2683)	1992	04	04.28958	14	26	01.05	-16	10	22.1	4 809
(2683)	1992	04	04.30278	14	26	00.50	-16	10	19.9	4 809
(2683)	1992	04	06.26806	14	24	41.95	-16	05	03.3	18.5 4 809
(2683)	1992	04	06.28125	14	24	41.32	-16	05	01.5	4 809
(2683)	1992	04	06.29444	14	24	40.80	-16	04	59.1	4 809
(2683)	1992	04	25.13403	14	10	03.94	-14	59	40.8	18.4 4 809
(2683)	1992	04	25.14722	14	10	03.20	-14	59	38.1	4 809
(2683)	1992	04	25.16042	14	10	02.48	-14	59	35.0	4 809
(2934)	1992	04	04.23125	14	04	07.14	-11	35	34.7	18.1 4 809
(2934)	1992	04	04.24444	14	04	06.63	-11	35	30.1	4 809
(2934)	1992	04	04.25764	14	04	06.04	-11	35	24.9	4 809
(2934)	1992	04	06.22500	14	02	52.48	-11	23	31.7	4 809
(2934)	1992	04	06.23819	14	02	51.91	-11	23	27.5	4 809
(2934)	1992	04	06.25139	14	02	51.42	-11	23	22.8	4 809
(2935)	1991	09	05.08403	20	32	23.94	-20	26	26.1	4 809
(2935)	1991	09	05.09722	20	32	23.57	-20	26	32.2	4 809
(2935)	1991	09	05.11042	20	32	23.29	-20	26	36.0	4 809
(2935)	1991	09	06.01667	20	32	09.81	-20	32	37.8	18.3 4 809
(2935)	1991	09	06.02986	20	32	09.54	-20	32	44.5	4 809
(2935)	1991	09	06.04306	20	32	09.30	-20	32	49.5	4 809
(3009)	1992	04	04.27639	14	23	57.69	-17	07	22.8	4 809
(3009)	1992	04	04.28958	14	23	57.00	-17	07	21.8	4 809
(3009)	1992	04	04.30278	14	23	56.40	-17	07	21.5	4 809
(3009)	1992	04	06.26806	14	22	16.49	-17	04	56.2	18.6 4 809

(3009)	1992	04	06.28125	14 22 15.72	-17 04 54.9		4	809
(3009)	1992	04	06.29444	14 22 14.97	-17 04 55.0		4	809
(3013)	1992	04	04.23125	14 04 34.83	-14 43 58.8	18.5	4	809
(3013)	1992	04	04.24444	14 04 34.04	-14 43 57.1		4	809
(3013)	1992	04	04.25764	14 04 33.32	-14 43 55.2		4	809
(3013)	1992	04	06.22500	14 02 43.70	-14 38 12.3		4	809
(3013)	1992	04	06.23819	14 02 42.93	-14 38 10.3		4	809
(3013)	1992	04	06.25139	14 02 42.15	-14 38 08.6		4	809
(3013)	1992	04	25.08889	13 43 47.15	-13 27 49.8	18.3	4	809
(3013)	1992	04	25.10208	13 43 46.39	-13 27 47.3		4	809
(3013)	1992	04	25.11528	13 43 45.49	-13 27 43.9		4	809
(3054)	1992	04	25.13403	14 15 37.14	-10 39 00.8	18.4	4	809
(3054)	1992	04	25.14722	14 15 36.45	-10 38 57.2		4	809
(3054)	1992	04	25.16042	14 15 35.80	-10 38 54.1		4	809
(3175)	1992	04	04.27639	14 27 12.85	-14 31 08.6		4	809
(3175)	1992	04	04.28958	14 27 12.20	-14 31 06.1		4	809
(3175)	1992	04	04.30278	14 27 11.55	-14 31 02.6		4	809
(3175)	1992	04	06.26806	14 25 38.17	-14 23 02.4	19.1	4	809
(3175)	1992	04	06.28125	14 25 37.49	-14 22 59.8		4	809
(3175)	1992	04	06.29444	14 25 36.81	-14 22 57.1		4	809
(3583)	1992	04	04.27639	14 24 11.68	-14 01 50.6		4	809
(3583)	1992	04	04.28958	14 24 10.97	-14 01 48.6		4	809
(3583)	1992	04	04.30278	14 24 10.30	-14 01 45.9		4	809
(3583)	1992	04	06.26806	14 22 33.42	-13 55 31.4	18.5	4	809
(3583)	1992	04	06.28125	14 22 32.71	-13 55 28.8		4	809
(3583)	1992	04	06.29444	14 22 32.09	-13 55 26.6		4	809
(3583)	1992	04	25.13403	14 04 59.36	-12 43 00.0	18.5	4	809
(3583)	1992	04	25.14722	14 04 58.54	-12 42 56.4		4	809
(3583)	1992	04	25.16042	14 04 57.76	-12 42 54.0		4	809
(3632)	1992	04	04.23125	13 54 01.59	-11 02 48.1	18.5	4	809
(3632)	1992	04	04.24444	13 54 00.89	-11 02 44.0		4	809
(3632)	1992	04	04.25764	13 54 00.24	-11 02 39.9		4	809
(3632)	1992	04	06.22500	13 52 25.88	-10 50 23.4		4	809
(3632)	1992	04	06.23819	13 52 25.25	-10 50 18.4		4	809
(3632)	1992	04	06.25139	13 52 24.55	-10 50 13.8		4	809
(3661)	1992	04	04.23125	14 08 52.61	-13 32 34.4	18.2	4	809
(3661)	1992	04	04.24444	14 08 51.97	-13 32 32.5		4	809
(3661)	1992	04	04.25764	14 08 51.40	-13 32 30.2		4	809
(3661)	1992	04	06.22500	14 07 26.03	-13 26 35.9		4	809
(3661)	1992	04	06.23819	14 07 25.35	-13 26 33.7		4	809
(3661)	1992	04	06.25139	14 07 24.77	-13 26 31.5		4	809
(3815)	1992	04	04.23125	14 09 10.09	-10 47 26.5	18.0	4	809
(3815)	1992	04	04.24444	14 09 09.47	-10 47 19.8		4	809
(3815)	1992	04	04.25764	14 09 08.92	-10 47 13.2		4	809
(3815)	1992	04	06.22500	14 07 52.42	-10 30 13.7		4	809
(3815)	1992	04	06.23819	14 07 51.81	-10 30 07.2		4	809
(3815)	1992	04	06.25139	14 07 51.23	-10 30 00.3		4	809
(3841)	1992	04	25.13403	14 05 38.47	-10 47 28.3	18.5	4	809
(3841)	1992	04	25.14722	14 05 37.64	-10 47 26.1		4	809
(3841)	1992	04	25.16042	14 05 36.74	-10 47 23.5		4	809
(4067)	1991	09	05.08403	20 34 38.99	-20 26 14.0		4	809
(4067)	1991	09	05.09722	20 34 38.37	-20 26 13.4		4	809
(4067)	1991	09	05.11042	20 34 37.80	-20 26 12.1		4	809
(4067)	1991	09	06.01667	20 34 07.17	-20 25 32.6	18.4	4	809
(4067)	1991	09	06.02986	20 34 06.64	-20 25 33.2		4	809
(4067)	1991	09	06.04306	20 34 06.14	-20 25 32.7		4	809
(4138)	1992	04	04.27639	14 22 18.81	-13 53 38.3		4	809
(4138)	1992	04	04.28958	14 22 18.44	-13 53 37.2		4	809
(4138)	1992	04	04.30278	14 22 18.08	-13 53 35.6		4	809

(4138)	1992	04	06.26806	14 21 27.23	-13 48 54.4	18.5	4	809
(4138)	1992	04	06.28125	14 21 27.05	-13 48 53.5		4	809
(4138)	1992	04	06.29444	14 21 26.77	-13 48 52.1		4	809
(4318)	1992	04	25.13403	14 00 40.20	-12 13 24.4	18.0	4	809
(4318)	1992	04	25.14722	14 00 39.50	-12 13 23.3		4	809
(4318)	1992	04	25.16042	14 00 38.82	-12 13 22.2		4	809
(4335)	1992	04	04.27639	14 36 36.33	-14 44 56.4		4	809
(4335)	1992	04	04.28958	14 36 35.65	-14 44 54.6		4	809
(4335)	1992	04	04.30278	14 36 34.98	-14 44 52.6		4	809
(4335)	1992	04	06.26806	14 35 00.70	-14 39 25.1	18.5	4	809
(4335)	1992	04	06.28125	14 34 59.99	-14 39 23.3		4	809
(4335)	1992	04	06.29444	14 34 59.36	-14 39 21.0		4	809
(4335)	1992	04	25.13403	14 16 32.33	-13 29 49.4	18.5	4	809
(4335)	1992	04	25.14722	14 16 31.40	-13 29 47.1		4	809
(4335)	1992	04	25.16042	14 16 30.60	-13 29 43.9		4	809
(4379)	1992	04	04.27639	14 24 33.16	-14 04 47.5		4	809
(4379)	1992	04	04.28958	14 24 32.67	-14 04 41.0		4	809
(4379)	1992	04	04.30278	14 24 32.20	-14 04 36.2		4	809
(4379)	1992	04	06.26806	14 23 23.45	-13 50 04.0	18.5	4	809
(4379)	1992	04	06.28125	14 23 22.97	-13 49 58.6		4	809
(4379)	1992	04	06.29444	14 23 22.52	-13 49 53.8		4	809
(4379)	1992	04	25.13403	14 10 53.84	-11 19 31.0	18.5	4	809
(4379)	1992	04	25.14722	14 10 53.27	-11 19 23.8		4	809
(4379)	1992	04	25.16042	14 10 52.73	-11 19 18.4		4	809
(4444)	1992	07	26.38507	22 03 05.38	-15 41 41.9		3	809
(4444)	1992	07	26.39549	22 03 05.05	-15 41 47.8		3	809
(4444)	1992	07	26.40590	22 03 04.71	-15 41 53.6		3	809
(4444)	1992	07	28.35521	22 02 01.40	-16 00 14.9		3	809
(4444)	1992	07	28.36563	22 02 01.00	-16 00 20.1		3	809
(4444)	1992	07	28.37604	22 02 00.60	-16 00 25.2		3	809
(4778)	1992	04	04.27639	14 24 23.03	-14 11 09.4	18.9	4	809
(4778)	1992	04	04.28958	14 24 22.39	-14 11 07.2		4	809
(4778)	1992	04	04.30278	14 24 21.85	-14 11 05.6		4	809
(4778)	1992	04	25.13403	14 09 15.12	-13 01 21.1	19.4	4	809
(4778)	1992	04	25.14722	14 09 14.42	-13 01 20.5		4	809
(4778)	1992	04	25.16042	14 09 13.81	-13 01 17.3		4	809
(4779)	1992	04	04.27639	14 19 40.73	-13 21 07.2		4	809
(4779)	1992	04	04.28958	14 19 40.22	-13 21 03.7		4	809
(4779)	1992	04	04.30278	14 19 39.68	-13 21 01.5		4	809
(4779)	1992	04	06.26806	14 18 24.11	-13 13 56.5	18.2	4	809
(4779)	1992	04	06.28125	14 18 23.54	-13 13 53.9		4	809
(4779)	1992	04	06.29444	14 18 22.95	-13 13 51.1		4	809
(4779)	1992	04	25.13403	14 04 35.08	-11 56 00.1	18.3	4	809
(4779)	1992	04	25.14722	14 04 34.46	-11 55 56.2		4	809
(4779)	1992	04	25.16042	14 04 33.80	-11 55 53.6		4	809
(4891)	1991	09	06.01667	20 39 24.86	-19 36 09.7	18.6	4	809
(4891)	1991	09	06.02986	20 39 24.46	-19 36 10.3		4	809
(4891)	1991	09	06.04306	20 39 24.06	-19 36 11.0		4	809
(5220)	1992	04	04.23125	14 08 28.88	-13 18 58.2	18.0	4	809
(5220)	1992	04	04.24444	14 08 28.12	-13 18 57.7		4	809
(5220)	1992	04	04.25764	14 08 27.36	-13 18 56.2		4	809
(5220)	1992	04	06.22500	14 06 43.31	-13 16 40.9		4	809
(5220)	1992	04	06.23819	14 06 42.48	-13 16 40.1		4	809
(5220)	1992	04	06.25139	14 06 41.76	-13 16 39.1		4	809
(5220)	1992	04	25.08889	13 46 51.63	-12 38 01.7	18.0	4	809
(5220)	1992	04	25.10208	13 46 50.73	-12 38 00.8		4	809
(5220)	1992	04	25.11528	13 46 49.80	-12 37 58.4		4	809
(5242)	1992	04	04.23125	13 51 43.99	-13 15 25.4	18.6	4	809
(5242)	1992	04	04.24444	13 51 43.32	-13 15 23.1		4	809

(5242)	1992 04 04.25764	13 51 42.66	-13 15 19.9		4	809
(5242)	1992 04 06.22500	13 50 14.87	-13 05 48.8		4	809
(5242)	1992 04 06.23819	13 50 14.23	-13 05 45.0		4	809
(5242)	1992 04 06.25139	13 50 13.59	-13 05 41.6		4	809
(5244)	1992 04 04.27639	14 32 13.28	-14 38 31.9		4	809
(5244)	1992 04 04.28958	14 32 12.89	-14 38 29.6		4	809
(5244)	1992 04 04.30278	14 32 12.57	-14 38 27.7		4	809
(5244)	1992 04 06.26806	14 31 24.22	-14 33 12.0	18.6	4	809
(5244)	1992 04 06.28125	14 31 23.87	-14 33 09.9		4	809
(5244)	1992 04 06.29444	14 31 23.55	-14 33 07.9		4	809

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S. Otomo, Kiyosato 3545-3902, Takane-cho, Kitakoma-gun, Yamanashi-ken, 407-03, Japan

1990 BU	1992 09 01.73961	22 28 59.20	-03 17 17.2			894
1990 BU	1992 09 03.59479	22 27 03.26	-03 13 11.0	15.5		894
1990 BU	1992 09 03.60868	22 27 02.37	-03 13 09.3			894
1991 LD	1992 08 25.58785	22 23 54.49	-00 09 19.8	17.0		894
1991 LD	1992 08 25.60104	22 23 53.88	-00 09 23.7			894
1991 LD	1992 08 31.58785	22 19 37.92	-00 36 07.0	17.0		894
1992 OM	1992 08 25.58785	22 19 37.68	+01 10 32.0	16.2		894
1992 OM	1992 08 25.60104	22 19 37.08	+01 10 42.7			894
1992 QK *	1992 08 25.58785	22 27 17.98	+00 23 51.0	16.5		894
1992 QK	1992 08 25.60104	22 27 17.27	+00 23 50.1			894
1992 QK	1992 08 31.57396	22 21 45.55	+00 10 49.5	16.7		894
1992 QK	1992 08 31.58785	22 21 44.76	+00 10 46.4			894
1992 QL *	1992 08 25.61568	22 24 42.39	-06 40 49.7	16.3		894
1992 QL	1992 08 25.62899	22 24 41.82	-06 40 55.5			894
1992 QL	1992 08 31.71406	22 20 18.35	-07 23 29.9	16.8		894
1992 QL	1992 08 31.72604	22 20 17.81	-07 23 32.9			894
1992 QL	1992 09 01.71858	22 19 36.09	-07 30 32.1	16.5		894
1992 QL	1992 09 01.72847	22 19 35.64	-07 30 36.4			894
1992 QM *	1992 08 25.61568	22 31 23.89	-07 15 12.2	15.5		894
1992 QM	1992 08 25.62899	22 31 23.24	-07 15 13.2			894
1992 QM	1992 08 31.71406	22 26 12.60	-07 25 19.9	15.5		894
1992 QM	1992 08 31.72604	22 26 11.95	-07 25 22.0			894
1992 QM	1992 09 01.71858	22 25 22.34	-07 27 03.2	15.0		894
1992 QM	1992 09 01.72847	22 25 21.87	-07 27 04.2			894
1992 QO *	1992 08 25.61568	22 23 02.92	-07 44 12.0	17.0		894
1992 QO	1992 08 25.62899	22 23 02.30	-07 44 13.2			894
1992 QO	1992 09 01.71858	22 18 50.05	-07 55 02.0	17.0		894
1992 QO	1992 09 01.72847	22 18 49.48	-07 55 04.5			894
(646)	1992 08 31.58785	22 21 20.70	-00 51 18.6			894

900 Kiryuu Observatory, Ohtsu
Y. Ikari, Katsube 626, Moriyama, Shiga-Ken, 524 Japan
Observer Y. Ikari

1992 OM	1992 08 27.71679	22 18 20.68	+01 43 15.9	15		900
1992 OM	1992 08 27.72778	22 18 20.28	+01 43 25.7			900

* * * * *

ORBITAL ELEMENTS.

Orbital elements have been computed by the following contributors:

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The name of the orbit computer is shown on the line giving T for a comet and Epoch for a displayed minor-planet orbit; for many of the minor planets (O-C) residuals are shown in full (in R.A. and Decl.); observations are identified by date and observatory code, X referring to an approximate and Y to a semiaccurate position. For displayed minor planets "Id." shows those involved in establishing the identifications (generally with the principal contributors first), "k" indicating key identifications and "d" (only) double (or multiple) designations; no identifier is shown if only the orbit computer is involved and the results were not previously published. J-P indicates that only the perturbations by the outer planets were considered, and a and n are then related by a gravitational constant augmented by the masses of the inner planets. For the one-opposition orbits, equinox 2000.0 is used, and the columns headed Arc and O show the time span in days covered by the observations and the number of observations utilized in the computation (0 = 10 or more). In the note column N, D means that there are double (or multiple) designations, E means that the value of the eccentricity was assumed, F means both; the double designations are listed at the end; the codes for the orbit computers (column C) are as listed above.

Periodic Comet West-Hartley (1988 XVI)
Epoch 1988 Oct. 6.0 TT = JDT 2447440.5

T 1988 Oct. 6.40842 TT				Marsden
q 2.1291263		(2000.0)	P	Q
n 0.13012422	Peri.	102.67232	-0.83612040	-0.51346440
a 3.8568312	Node	46.81309	+0.34126426	-0.76239538
e 0.4479597	Incl.	15.35086	+0.42946639	-0.39383701
P 7.57				

From 12 observations 1989 Mar. 14-June 30, mean residual 0".78.

Periodic Comet Helin-Roman-Alu 2 (1989 XVI)
Epoch 1989 Nov. 10.0 TT = JDT 2447840.5

T 1989 Oct. 31.37598 TT				Marsden
q 1.9298825		(2000.0)	P	Q
n 0.12020298	Peri.	200.37620	+0.72713758	-0.68462061
a 4.0662357	Node	203.07227	+0.64638988	+0.70764358
e 0.5253884	Incl.	7.42615	+0.23119485	+0.17474317
P 8.20				

From 10 observations 1989 Oct. 26-1990 Feb. 27, mean residual 1".11.

Periodic Comet McNaught-Hughes (1991y)
Epoch 1991 July 3.0 TT = JDT 2448440.5

T 1991 June 16.08400 TT				Nakano
q 2.1251062		(2000.0)	P	Q
n 0.14702494	Peri.	224.40154	+0.69390207	+0.70876974
a 3.5552928	Node	89.99125	-0.62023162	+0.67795770
e 0.4022697	Incl.	7.29999	-0.36580412	+0.19498412
P 6.70				

From 20 observations 1991 Sept. 30-1992 Jan. 15, mean residual 0".68.

Periodic Comet Takamizawa (1991h)
Epoch 1991 Aug. 12.0 TT = JDT 2448480.5

T 1991 Aug. 17.91548 TT				Marsden
q 1.5897790		(2000.0)	P	Q
n 0.13642904	Peri.	147.67885	+0.05131288	+0.98951021
a 3.7370723	Node	124.91905	-0.94773140	+0.09088715
e 0.5745924	Incl.	9.47946	-0.31491616	-0.11229014
P 7.22				

From 152 observations 1984-1991, mean residual 1".00.

Periodic Comet Shoemaker-Levy 6 (1991b1)
Epoch 1991 Oct. 31.0 TT = JDT 2448560.5

T 1991 Oct. 13.85850 TT				Marsden
q 1.1323464		(2000.0)	P	Q
n 0.13063167	Peri.	333.12738	+0.96948908	-0.16828719
a 3.8468365	Node	37.93299	+0.24219611	+0.76983110
e 0.7056422	Incl.	16.85484	-0.03784139	+0.61566184
P 7.54				

From 37 observations 1991 Nov. 3-1992 Jan. 8, mean residual 1".19.

Periodic Comet Shoemaker-Levy 7 (1991d1)
Epoch 1991 Oct. 31.0 TT = JDT 2448560.5

T 1991 Oct. 27.52670 TT				Marsden
q 1.6300915		(2000.0)	P	Q
n 0.14642369	Peri.	91.95342	+0.69647790	-0.70559201
a 3.5650187	Node	312.95636	+0.56676022	+0.65254035
e 0.5427537	Incl.	10.27991	+0.44011519	+0.27628069
P 6.73				

From 29 observations 1991 Nov. 13-1992 Jan. 6, mean residual 0".87.

Periodic Comet Shoemaker-Levy 5 (1991z)
Epoch 1991 Dec. 10.0 TT = JDT 2448600.5

T 1991 Dec. 13.22175 TT				Marsden
q 1.9848985		(2000.0)	P	Q
n 0.11363572	Peri.	6.04327	+0.81308744	-0.57332718
a 4.2214289	Node	29.66565	+0.52520216	+0.64767545
e 0.5298041	Incl.	11.76532	+0.25110059	+0.50180919
P 8.67				

From 34 observations 1991 Sept. 12-1992 Jan. 2, mean residual 0".94.

Comet Zanotta-Brewington (1991g1)
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5

T 1992 Jan. 31.99154 TT				Marsden
q 0.6439695		(2000.0)	P	Q
z -0.0000902	Peri.	197.87302	+0.05745516	-0.67022345
+/-0.0000059	Node	254.90741	+0.98374248	+0.16432060
e 1.0000581	Incl.	50.02875	+0.17014590	-0.72373978

From 178 observations 1991 Dec. 24-1992 May 2, mean residual 0".83.

Periodic Comet Mueller 4 (1992g)
Epoch 1992 Feb. 28.0 TT = JDT 2448680.5
T 1992 Feb. 16.35657 TT Nakano

q	2.6369508	(2000.0)	P	Q
n	0.10984418	Peri. 43.59258	-0.93589206	+0.21109949
a	4.3180204	Node 145.42548	-0.21123899	-0.97696531
e	0.3893149	Incl. 29.80142	+0.28192934	-0.03123771
P	8.97			

From 31 observations 1992 Apr. 12-July 2, mean residual 0".87.

Periodic Comet Kowal 1 (1991i)
Epoch 1992 Feb. 28.0 TT = JDT 2448680.5
T 1992 Mar. 13.09574 TT Marsden

q	4.6727421	(2000.0)	P	Q
n	0.06562352	Peri. 174.69980	-0.91712165	+0.39689954
a	6.0873703	Node 28.77257	-0.36847139	-0.80888021
e	0.2323874	Incl. 4.39191	-0.15204184	-0.43380128
P	15.02			

From 33 observations 1977-1992, mean residual 0".79.

Periodic Comet Shoemaker-Levy 8 (1992f)
Epoch 1992 June 27.0 TT = JDT 2448800.5
T 1992 June 13.25651 TT Marsden

q	2.7109662	(2000.0)	P	Q
n	0.13192487	Peri. 22.33627	-0.56418197	+0.82360611
a	3.8216561	Node 213.39918	-0.77257240	-0.55141446
e	0.2906305	Incl. 6.05510	-0.29125691	-0.13272175
P	7.47			

From 54 observations 1992 Mar. 30-July 4, mean residual 0".96.

Comet Brewington (1992p)
T 1992 June 24.87233 TT Marsden

q	1.7818972	(2000.0)	P	Q
		Peri. 57.43134	+0.69910639	-0.71192458
		Node 347.50322	+0.50863442	+0.56046724
e	1.0	Incl. 17.87998	+0.50253486	+0.42313103

From 17 observations 1992 Aug. 28-Sept. 4.

Comet Helin-Lawrence (1992q)
T 1993 Mar. 11.13116 TT Marsden

q	2.0999252	(2000.0)	P	Q
		Peri. 266.29309	+0.13801018	-0.95954130
		Node 194.88207	+0.13379881	-0.22746267
e	1.0	Incl. 107.13875	-0.98135165	-0.16595550

From 18 observations 1992 Aug. 29-Sept. 5.

Periodic Comet Tuttle (1992r)
Epoch 1994 June 17.0 TT = JDT 2449520.5 Marsden
T 1994 June 25.29070 TT

q	0.9977321	(2000.0)	P	Q
n	0.07296613	Peri. 206.70304	-0.26825838	-0.51200045
a	5.6718123	Node 270.54845	+0.96318072	-0.12681168
e	0.8240894	Incl. 54.69231	+0.01789822	-0.84957303
P	13.51			

From 49 observations 1980-1992, mean residual 1".00.

One-opposition minor planets

Planet	H	Epoch	M	Peri.	Node	Incl.	e	a	Arc	O	N	C
1978 SU4	14.5	781019	33.75	126.57	214.10	6.09	0.1269	2.3721	31	6		E
1978 SF5	15.3	781108	35.30	307.31	32.61	6.48	0.1970	2.2738	62	5		E
1978 SH7	14.2	781108	7.57	27.57	348.02	5.70	0.2376	2.6179	63	5		E
1978 SO7	13.7	781108	14.42	32.29	334.37	2.71	0.1941	2.4492	63	6		E
1978 SW7	13.6	781108	5.47	47.73	333.15	4.56	0.1386	2.4563	63	7		E
1978 SX7	14.1	781108	340.93	82.33	342.28	4.57	0.2865	2.6202	63	9		E
1978 SA8	14.3	781108	9.50	163.01	212.44	2.61	0.1881	2.4239	63	8		E
1978 SD8	15.0	781108	28.28	326.71	20.96	4.25	0.2117	2.2126	57	8		E
1978 TD2	13.5	780929	12.70	359.58	3.27	1.64	0.0803	2.8167	25	5		W
1978 UJ4	15.9	781108	16.95	125.12	237.27	4.65	0.2411	2.3392	33	5		E
1978 UK4	12.7	781019	166.67	352.69	217.41	3.90	0.1000	2.5111	2	3	E	E
1978 UM4	14.5	781019	283.16	232.07	254.38	5.05	0.2500	2.6242	2	3	E	E
1978 UN4	13.0	781108	130.64	29.71	213.72	13.99	0.1035	3.0955	33	5		E
1978 UO4	15.5	781019	308.71	195.64	252.68	5.00	0.1579	2.6015	2	3		E
1978 UP4	13.9	781108	301.02	228.09	236.39	6.45	0.1832	2.7337	33	5		E
1978 UQ4	15.1	781019	328.14	201.70	217.36	8.24	0.1000	2.5648	2	3	E	E
1978 UR4	15.5	781108	318.30	135.02	312.53	2.46	0.1934	2.3556	33	5		E
1978 US4	15.5	781019	48.68	36.02	267.45	2.54	0.2767	2.2500	2	3	E	W
1978 UT4	16.0	781019	74.81	31.71	253.17	4.24	0.1900	2.1854	2	3	E	W
1978 UU4	15.5	781019	1.45	66.96	312.80	3.47	0.2000	2.5058	2	3	E	E
1978 UV4	15.7	781108	24.66	116.00	235.54	1.50	0.2073	2.3699	33	5		E
1978 UW4	14.0	781108	233.60	286.57	230.89	5.82	0.0541	2.3001	33	5		W
1978 UX4	14.4	781019	289.15	102.50	355.33	6.53	0.0500	2.4720	2	3	E	E
1978 UY4	16.0	781108	359.85	168.42	222.44	3.13	0.2039	2.2500	33	5		E
1978 UZ4	14.3	781019	168.34	200.88	11.00	16.76	0.1000	2.2690	2	3	E	E
1978 UA5	16.0	781108	4.08	30.31	353.54	2.49	0.1744	2.3146	33	5		E
1978 UC5	14.0	781019	312.69	68.34	4.64	11.45	0.0500	3.0068	2	3	E	E
1978 UD5	15.7	781108	320.41	202.63	242.90	4.54	0.1949	2.3895	33	5		E
1978 UE5	16.0	781108	0.22	95.25	293.70	1.87	0.1703	2.4091	33	5		W
1978 UF5	14.6	781019	303.82	161.86	280.13	1.23	0.0500	2.4314	2	3	E	E
1978 UG5	13.8	781019	340.30	39.54	6.20	7.31	0.1000	2.4846	2	3	E	E
1978 UK5	15.8	781019	13.57	351.08	12.87	15.61	0.1500	2.6742	2	3	E	E
1978 UM5	14.4	781019	10.70	350.39	16.87	12.53	0.1157	3.0008	2	3		E
1978 UO5	13.6	781019	213.06	162.72	12.10	20.41	0.1000	2.8800	2	3	E	E
1978 UP5	14.7	781019	356.35	18.11	10.24	9.52	0.2000	2.4548	2	3	E	E
1978 UQ5	15.0	781019	351.68	172.70	220.01	9.84	0.1500	3.0772	2	3	E	E
1978 UR5	13.2	781019	241.25	220.92	283.01	0.74	0.0500	2.9904	2	3	E	E
1978 UT5	13.9	781019	346.29	47.55	352.87	4.23	0.1500	2.8493	2	3	E	E
1978 UU5	14.5	781019	4.46	4.49	9.17	2.81	0.2281	3.2008	2	3	E	W
1978 UV5	14.4	781019	179.03	208.84	354.25	5.17	0.0500	2.3170	2	3	E	E
1978 UW5	14.6	781019	331.80	38.57	13.94	4.71	0.0500	2.4733	2	3	E	E
1978 UX5	16.0	781108	14.92	147.88	224.25	4.45	0.0742	2.1672	33	5		W
1978 UY5	13.1	781019	177.21	357.99	204.76	9.02	0.2000	2.3729	2	3	E	E
1978 UZ5	14.0	781108	42.01	120.48	213.55	15.97	0.1106	3.1252	33	5		W
1978 UA6	13.9	781019	198.62	167.47	17.98	7.06	0.1000	2.6847	2	3	E	E
1978 UB6	14.3	781019	157.67	359.51	220.54	3.41	0.1000	2.2883	2	3	E	E
1978 UC6	15.3	781019	357.23	148.50	236.94	2.84	0.0500	2.2119	2	3	E	E
1978 UD6	16.5	781019	313.95	102.47	346.29	4.32	0.2000	2.3066	2	3	E	E
1978 UE6	14.1	781108	279.61	98.41	20.16	13.38	0.1037	2.5760	33	5		E
1978 UH6	14.4	781019	358.17	24.31	0.06	8.54	0.0500	3.1249	2	3	E	E
1978 UJ6	14.2	781019	288.10	255.78	203.24	6.32	0.0500	2.3579	2	3	E	E
1978 UK6	13.5	781019	197.73	337.49	207.80	5.13	0.0500	2.5055	2	3	E	E
1978 UL6	16.0	781108	2.98	146.12	240.03	1.73	0.1680	2.3314	33	5		W
1978 UM6	13.9	781019	64.18	40.17	272.55	2.69	0.0500	2.7335	2	3	E	E
1978 UN6	13.2	781019	276.83	122.03	0.32	6.65	0.1500	3.0879	2	3	E	E
1978 UO6	15.2	781019	0.18	4.94	17.87	18.14	0.0500	2.4513	2	3	E	E
1978 UP6	15.6	781019	354.32	162.12	228.46	5.03	0.1600	2.5654	2	3		E

1978	UQ6	15.4	781019	25.52	339.07	12.72	9.15	0.1000	2.4445	2	3	E	E
1978	UR6	15.2	781019	15.90	75.56	285.52	1.77	0.1500	2.4789	2	3	E	E
1978	US6	13.0	781019	190.49	344.46	208.08	11.19	0.1000	2.9397	2	3	E	E
1978	UT6	16.5	781019	355.05	146.95	243.54	2.08	0.2000	2.3292	2	3	E	E
1978	UU6	17.0	781019	27.11	79.23	261.84	1.49	0.2194	2.1740	2	3	E	W
1978	UV6	15.0	781019	41.20	50.85	281.87	0.55	0.1000	2.3609	2	3	E	E
1978	UX6	14.3	781019	349.47	89.64	305.85	2.52	0.1000	2.7918	2	3	E	E
1978	UY6	14.0	781019	346.23	178.42	220.65	1.62	0.1000	2.4465	2	3	E	E
1978	UZ6	16.3	781019	34.86	102.32	221.06	9.79	0.2818	2.3902	2	3		E
1978	UB7	14.0	781019	205.14	169.36	17.00	26.53	0.2000	2.7078	2	3	E	E
1978	UC7	15.1	781019	351.57	34.29	1.28	2.96	0.2000	2.7144	2	3	E	E
1978	UD7	14.0	781108	75.58	279.93	9.26	8.51	0.2153	2.2402	33	5		E
1978	UE7	13.0	781019	358.71	136.37	246.75	2.52	0.1000	3.9501	2	3	E	E
1978	UF7	13.6	781108	53.66	88.89	218.43	13.70	0.2399	3.1044	33	5		E
1978	UG7	15.5	781019	43.98	356.03	336.21	3.69	0.0818	2.5931	2	3	E	W
1978	UH7	13.6	781019	294.08	114.94	338.46	0.76	0.0500	2.6403	2	3	E	E
1978	UJ7	14.3	781019	162.88	309.20	268.63	1.35	0.0500	2.6517	2	3	E	E
1978	UM7	15.8	781019	352.93	194.30	200.76	1.46	0.2500	2.3810	2	3	E	E
1978	UO7	14.7	781019	357.86	46.43	338.74	1.19	0.1000	2.8221	2	3	E	E
1978	UP7	13.0	781019	177.66	182.41	21.60	8.13	0.1000	2.6696	2	3	E	E
1978	UR7	12.6	781019	220.00	125.63	47.93	1.42	0.2000	3.0072	2	3	E	E
1978	US7	14.1	781019	302.78	256.45	193.20	2.61	0.1000	2.7153	2	3	E	E
1978	UT7	13.5	781108	45.17	98.57	213.32	7.59	0.2933	3.0989	33	5		W
1978	UV7	13.2	781019	353.76	189.65	200.25	4.34	0.1000	2.8225	2	3	E	E
1978	UW7	13.6	781108	73.47	71.05	219.00	11.86	0.2198	2.4404	33	5		E
1978	UX7	14.8	781108	328.94	189.84	240.47	1.74	0.1423	2.5168	33	5		E
1978	UY7	13.7	781019	312.82	236.22	202.56	1.48	0.1000	2.7324	2	3	E	E
1978	UZ7	14.1	781019	322.52	131.38	296.87	1.48	0.1000	2.8312	2	3	E	E
1978	UA8	14.6	781019	342.04	113.76	292.78	2.35	0.1243	2.9544	2	3		E
1978	UB8	15.2	781019	310.79	200.41	241.66	3.97	0.1000	2.7511	2	3	E	E
1978	UC8	13.3	781019	25.15	205.97	142.32	0.40	0.1500	3.1810	2	3	E	E
1978	UD8	15.1	781019	334.69	28.64	22.67	7.66	0.0500	2.2945	2	3	E	E
1978	UE8	15.2	781108	323.17	69.38	15.44	10.95	0.2211	2.9783	33	5		E
1978	UF8	13.9	781019	174.39	186.25	21.62	5.31	0.1000	2.2356	2	3	E	E
1978	UH8	12.8	781019	65.36	279.67	26.44	6.26	0.1000	3.1477	2	3	E	E
1978	UK8	17.0	781019	350.73	79.61	317.46	2.04	0.1500	2.2227	2	3	E	E
1978	UL8	14.4	781019	67.08	276.50	34.06	4.27	0.0500	2.2936	2	3	E	E
1981	QX4	15.2	811023	4.83	99.81	249.58	3.08	0.1789	2.6109	57	6	D	N
1981	UQ29	13.3	811023	333.64	177.16	251.77	1.25	0.2016	2.4580	30	4	D	N
1989	EN5	14.7	890315	4.32	230.89	290.28	3.99	0.0922	2.3093	8	5		N
1989	YY3	15.1	900109	27.26	356.20	82.67	2.19	0.2027	2.2360	26	6		N
1990	VH12	13.3	901125	50.09	166.36	199.94	9.39	0.0602	3.0365	10	8	D	N
1991	AB2	13.5	910104	329.64	332.39	175.80	4.02	0.1251	2.2654	25	6		N
1991	BD	13.3	910124	64.07	122.62	283.00	5.78	0.0938	2.3583	51	0		N
1991	NE1	12.2	910812	305.43	74.44	305.27	8.51	0.0600	3.1745	64	0		E
1991	NV1	13.6	910812	300.90	134.74	253.39	6.17	0.1214	2.3831	62	9		E
1991	OO	14.5	910812	346.94	108.70	231.76	3.38	0.2023	2.2941	60	0		E
1991	PA	13.6	910812	355.05	17.07	311.61	4.42	0.3192	3.0608	64	0		E
1991	PQ	10.7	910901	257.17	121.07	307.33	19.17	0.0458	3.4928	40	0		E
1991	PV	15.3	910901	7.46	95.37	221.51	1.85	0.2041	2.2455	39	0		E
1991	PW	14.0	910812	358.62	52.97	268.96	3.46	0.2160	2.4501	40	0		W
1991	PY1	14.5	910812	12.65	177.26	119.20	7.36	0.1285	2.4312	35	0		M
1991	PU8	14.4	910901	49.11	329.96	288.95	6.71	0.1609	2.5651	40	9		E
1991	PX8	13.5	910812	270.44	166.30	251.70	4.18	0.0768	2.2966	58	0	D	E
1991	PG9	13.0	910901	5.59	132.51	183.44	8.92	0.1530	2.7918	40	0		E
1991	PP10	13.6	910901	11.22	9.96	322.67	13.39	0.1040	2.5472	34	4		E
1991	PF11	13.1	910901	54.08	346.95	288.46	8.38	0.1380	2.7551	34	7		E
1991	PE12	14.1	910901	349.89	98.13	261.21	6.08	0.2239	2.4617	34	6		E
1991	PF12	14.6	910901	14.40	37.40	281.71	6.94	0.2378	2.4033	34	6		E

1991	PH12	12.0	910901	286.46	142.39	291.92	11.58	0.1238	3.0951	34	6		E
1991	PJ12	12.9	910901	316.67	138.69	263.53	8.38	0.1406	3.0500	34	6		E
1991	PK12	13.9	910901	359.91	107.30	238.43	8.01	0.1782	2.7861	34	6		E
1991	PW14	15.5	910901	339.52	62.75	305.55	12.30	0.2352	2.4925	37	6		E
1991	PG17	13.5	910812	47.72	312.20	307.98	12.04	0.1776	2.3252	34	6		W
1991	RO11	13.5	910901	324.85	39.89	322.97	21.00	0.1357	3.0786	3	0		M
1991	RQ11	13.5	910812	113.59	61.41	134.77	15.99	0.0466	2.6255	33	0		M
1991	RS11	15.5	910812	347.42	206.75	133.60	11.07	0.3218	2.6762	24	0		M
1991	RU11	15.0	910901	334.03	8.03	348.44	6.95	0.1251	2.1674	3	0	E	M
1991	RB12	13.5	910812	294.74	82.25	320.40	12.83	0.1672	2.8067	40	0		W
1991	RZ29	13.2	910921	352.68	230.60	122.16	11.32	0.2500	3.1991	2	6	E	E
1991	RA30	12.8	910921	104.04	112.78	110.98	7.96	0.1144	2.3686	2	8		E
1991	SJ2	15.6	910921	13.69	9.08	319.86	8.23	0.2264	2.3955	7	9		E
1991	TB	15.0	910921	319.72	9.01	28.09	7.90	0.1926	2.3247	19	6		E
1991	TR6	15.5	910921	90.54	314.96	300.11	2.31	0.1608	2.1674	7	9		M
1991	VS9	16.5	911031	8.78	340.02	50.99	18.62	0.1438	2.7220	3	0		W
1992	AM1	12.7	920119	104.39	271.76	111.60	6.42	0.0859	2.7377	29	0		N
1992	BH	12.5	911230	324.04	21.56	140.59	18.27	0.1556	3.1198	72	0		W
1992	BO	13.5	920208	279.66	213.22	19.59	4.77	0.1113	2.2436	25	0		N
1992	DC1	13.9	920228	18.84	26.33	114.89	6.53	0.1202	2.2842	29	6		N
1992	GO	12.3	920319	273.93	129.63	153.08	13.47	0.1619	2.6827	30	8		N
1992	GM2	15.0	920408	288.67	345.83	301.55	0.99	0.0963	2.1354	21	0		M
1992	GN2	15.0	920408	342.67	235.43	353.72	1.55	0.1447	2.6636	21	0		M
1992	GD3	14.0	920408	269.61	91.46	211.95	7.80	0.0292	2.5315	21	9		M
1992	GE3	14.5	920408	300.58	77.04	211.35	11.03	0.1774	2.5977	21	9		M
1992	GF3	10.0	920408	264.72	125.32	213.60	30.09	0.2799	5.2560	21	9		M
1992	GG3	16.0	920408	357.84	306.95	264.16	0.89	0.0464	2.2085	21	9		M
1992	GH3	14.0	920408	271.30	100.28	216.44	10.82	0.1528	2.6050	21	9		M
1992	GJ3	15.0	920408	320.02	27.05	226.76	2.87	0.0647	2.1820	21	9		M
1992	GM3	15.0	920408	6.18	338.82	222.32	4.72	0.1358	2.4481	21	9		M
1992	GN3	16.0	920408	301.34	287.58	6.50	2.21	0.2327	2.3537	21	9		M
1992	GO3	13.5	920408	245.75	126.77	214.61	2.23	0.1613	2.7616	21	9		M
1992	GP3	13.5	920408	303.10	166.13	121.94	0.60	0.1842	3.1361	21	9		M
1992	GV3	14.5	920408	41.16	131.02	33.51	9.69	0.0569	2.5662	21	9		M
1992	GY3	14.0	920408	65.79	278.75	214.38	6.51	0.1079	2.5519	21	9		M
1992	GA4	13.5	920408	318.87	103.49	158.41	1.43	0.1070	3.2086	21	9		M
1992	GD4	15.5	920408	13.30	338.44	214.53	6.69	0.1285	2.5626	21	9		M
1992	GF4	15.0	920408	156.37	11.21	38.42	5.60	0.1127	2.2294	21	9		M
1992	GH4	15.5	920408	326.11	230.44	21.75	2.03	0.1139	2.3951	21	9		M
1992	GJ4	14.0	920408	98.13	255.67	212.09	3.36	0.0536	2.6876	21	9		M
1992	GM4	14.5	920408	247.57	126.52	213.16	5.88	0.1597	2.3963	21	9		M
1992	GO4	15.5	920408	19.41	344.58	199.45	2.66	0.1294	2.2705	21	0		M
1992	GW4	15.0	920408	353.89	178.52	38.93	7.37	0.0983	2.3228	21	9		M
1992	GX4	15.0	920408	345.76	188.45	38.88	4.29	0.0916	2.2835	21	9		M
1992	HG	13.0	920408	276.13	99.90	216.37	8.34	0.1666	3.1205	21	9		M
1992	HG1	16.0	920408	349.10	9.65	214.85	4.18	0.1269	2.2779	34	0		M
1992	HH1	13.5	920408	152.49	204.14	214.29	3.76	0.0629	2.7899	34	0		M
1992	HK1	13.5	920408	241.20	291.66	39.86	2.66	0.0602	2.9114	28	0	D	M
1992	HA4	14.0	920408	327.68	324.47	277.79	0.19	0.0740	2.7441	21	0		M
1992	HC4	13.5	920408	8.84	167.68	28.24	18.44	0.0965	3.2026	21	0		M
1992	HD4	14.5	920408	10.70	338.24	213.34	7.14	0.1361	2.5826	21	0		M
1992	HF4	13.0	920408	302.63	83.35	207.51	8.81	0.2483	2.3968	21	0		M
1992	ME	14.0	920717	5.23	134.09	120.60	24.20	0.2521	2.2992	65	0		W
1992	ML	14.0	920627	298.71	348.23	335.50	1.82	0.1040	2.1957	21	6		E
1992	NF	12.0	920627	346.77	165.27	129.86	11.44	0.0777	2.9974	26	8		W
1992	NJ	12.5	920717	259.42	24.81	27.03	22.81	0.0710	3.1952	51	0		W
1992	NR	12.5	920717	51.39	98.72	143.64	13.93	0.1466	2.6386	64	0		B
1992	NS	12.5	920627	357.55	63.31	218.53	10.89	0.1791	2.6578	26	7		W
1992	OB	14.0	920806	20.44	231.61	49.69	17.68	0.2029	3.1024	26	7		W

1992 OC	15.5	920806	8.77	291.72	3.07	15.86	0.3009	2.5835	26	7		W
1992 OE	13.5	920806	359.31	7.13	330.58	27.16	0.2045	2.7436	25	0		W
1992 OF	15.0	920806	354.50	281.67	68.44	3.68	0.3238	2.4452	25	0		W
1992 OK	14.0	920806	344.50	103.29	248.52	7.45	0.3547	2.7579	33	0		W
1992 ON	16.5	920806	35.79	288.57	341.88	25.85	0.2032	1.9358	25	0		W
1992 OO	13.5	920806	3.68	195.12	122.93	25.79	0.1798	2.3433	26	0		W
1992 OV	14.0	920717	353.44	286.69	25.58	17.24	0.0901	3.0231	6	6		W
1992 OW	15.0	920717	328.94	312.09	47.10	13.72	0.2842	2.6677	6	6		W
1992 PC		920717	326.07	157.84	196.94	4.80	0.2158	2.2077	4	8		B
1992 PF	15.0	920806	357.66	139.21	180.59	2.42	0.2051	2.2591	5	0	E	W
1992 PK	15.5	920806	331.54	59.32	300.53	5.20	0.2109	2.1624	5	0		W
1992 PT	16.0	920806	352.34	114.80	213.49	0.73	0.1983	2.2507	5	0	E	W
1992 PU	15.0	920806	343.11	119.33	219.92	2.51	0.1233	2.2814	5	0		W
1992 PV1	14.5	920806	351.13	179.14	151.88	4.51	0.1743	2.2809	5	0		W
1992 PZ1	15.0	920806	1.57	140.99	172.38	4.86	0.2175	2.2270	3	5		E
1992 PA2	14.5	920806	329.62	59.61	309.31	8.09	0.2769	2.6414	4	7	E	W
1992 PB2	13.5	920806	348.30	86.73	248.39	5.49	0.1501	3.1554	3	5		E
1992 PC2	13.7	920806	15.63	81.72	217.88	7.31	0.0920	2.5222	6	6		E
1992 PD2	12.9	920806	16.29	87.52	206.20	7.04	0.1987	2.9996	6	6		E
1992 PE2	14.2	920806	329.95	74.03	292.21	12.48	0.2268	2.5890	6	6		E
1992 PF2	13.7	920806	44.87	49.43	210.12	5.10	0.1522	2.2692	6	6		E
1992 PG2	14.0	920806	5.24	116.50	192.71	8.18	0.2809	2.7532	6	6		E
1992 PH2	12.6	920806	340.39	75.63	271.58	9.46	0.1414	3.0405	6	6		E
1992 PJ2	14.3	920806	11.56	83.77	211.80	5.61	0.3146	2.4059	6	6		E
1992 PK2	12.7	920806	75.74	354.46	236.84	5.91	0.1250	3.0985	7	0		E
1992 PL2	12.1	920806	106.20	276.48	295.47	19.85	0.0548	3.1875	6	6		E
1992 PM2	15.2	920806	1.86	72.59	244.17	4.71	0.1873	2.2833	7	0		E
1992 PV2	13.1	920806	345.23	71.83	270.63	8.63	0.1357	2.9646	5	0		E
1992 PE3	14.6	920806	330.11	132.98	236.07	5.55	0.2149	2.2403	5	8		E
1992 PU3	15.2	920806	9.87	221.76	84.23	1.96	0.1867	2.1788	4	8		E
1992 QA	14.5	920806	84.96	148.97	53.96	26.41	0.1215	1.8838	3	8		W
1992 QB	14.0	920806	5.70	236.35	56.96	24.18	0.2117	2.3159	6	7		W
1992 QC	14.5	920806	354.36	305.68	29.52	22.64	0.3353	2.3666	7	4		W
1992 QE	13.2	920826	309.38	92.00	310.69	7.84	0.1274	2.5711	3	7		N
1992 QF	14.5	920826	35.16	258.52	28.19	15.60	0.2327	2.3784	3	7		N
1992 QL	14.7	920826	3.83	143.99	183.97	2.65	0.2194	2.2983	7	6		N
1992 QM	13.2	920826	10.93	356.19	320.11	3.50	0.2465	2.4774	7	6		N
1992 RB	15.0	920826	275.74	306.87	131.02	26.50	0.0532	1.9779	3	6		W
1992 RD	15.0	920826	66.23	140.09	130.52	26.94	0.1199	2.1612	3	6		W

1981 QX4 = 1981 UO1 (S. Nakano)
1981 UQ29 = 1981 SC5 (S. Nakano)
1990 VH12 = 1990 WV9 (S. Nakano)
1991 PX8 = 1991 OM (S. Nakano, MPC 18999)
1992 HK1 = 1992 HE4 (S. Nakano, MPC 20484; A. Lowe, ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(91) Aegina Obs. 379 M 10.75440 Peri. 73.22904
H 8.84 G 0.15 Opp. 65 n 0.23642541 Node 11.02517
rms res. 1".00 (M-C) 1866-1991 e 0.1037141 Incl. 2.12012

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(120) Lachesis Obs. 277 M 275.44319 Peri. 236.74907
H 7.75 G 0.15 Opp. 64 n 0.17935664 Node 341.70052
rms res. 1".04 (M-C) 1872-1991 e 0.0650069 Incl. 6.96900

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(141) Lumen Obs. 223 M 101.08608 Peri. 56.92626
H 8.2 G 0.15 Opp. 42 n 0.22631473 Node 319.12857
rms res. 1".02 (M-C) 1875-1988 e 0.2140004 Incl. 11.91158

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(160) Una Obs. 266 M 22.25253 Peri. 49.83108
H 9.08 G 0.15 Opp. 43 n 0.21881634 Node 9.08991
rms res. 0".89 (M-C) 1876-1991 e 0.0644230 Incl. 3.83395

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(166) Rhodope Obs. 107 M 65.93674 Peri. 263.23485
H 9.89 G 0.15 Opp. 24 n 0.22385999 Node 129.46707
rms res. 1".01 (M-C) 1876-1989 e 0.2107252 Incl. 12.01573

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(243) Ida Obs. 287 M 45.94932 Peri. 111.64574
H 9.94 G 0.15 Opp. 40 n 0.20360986 Node 324.73057
rms res. 0".82 (M-C) 1884-1992 e 0.0420859 Incl. 1.14088

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(251) Sophia Obs. 81 M 141.42054 Peri. 289.79466
H 10.0 G 0.15 Opp. 24 n 0.18145840 Node 156.50002
rms res. 1".08 (M-C) 1885-1991 e 0.1072981 Incl. 10.52867

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(255) Oppavia Obs. 92 M 157.60483 Peri. 153.39050
H 10.39 G 0.15 Opp. 31 n 0.21650469 Node 14.01169
rms res. 0".92 (M-C) 1886-1988 e 0.0772149 Incl. 9.47984

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(312) Pierretta Obs. 99 M 334.35433 Peri. 261.23589
H 8.89 G 0.15 Opp. 31 n 0.21237500 Node 6.84829
rms res. 1".08 (M-C) 1891-1991 e 0.1587262 Incl. 9.03650

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(346) Hermentaria Obs. 242 M 134.98772 Peri. 290.90074
H 7.13 G 0.15 Opp. 53 n 0.21043716 Node 92.38785
rms res. 0".99 (M-C) 1892-1992 e 0.0995640 Incl. 8.74816

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(347) Pariana Obs. 160 M 115.81394 Peri. 84.83842
H 8.96 G 0.15 Opp. 38 n 0.23316703 Node 85.98899
rms res. 1".06 (M-C) 1892-1991 e 0.1616007 Incl. 11.70603

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(571) Dulcinea Obs. 82 M 48.22628 Peri. 26.73816
H 11.59 G 0.15 Opp. 15 n 0.26339734 Node 3.40278
rms res. 0".92 (M-C) 1905-1991 e 0.2406669 Incl. 5.24268

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(630) Euphemia Obs. 90 M 33.27344 Peri. 39.15893
H 11.0 G 0.15 Opp. 20 n 0.23201320 Node 105.86337
rms res. 0".92 (M-C) 1907-1990 e 0.1156924 Incl. 13.86215

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(804) Hispania Obs. 117 M 264.77533 Peri. 343.76221
H 7.84 G 0.18 Opp. 33 n 0.20614891 Node 347.95691
rms res. 1".02 (M-C) 1915-1987 e 0.1397141 Incl. 15.38580

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(820) Adriana Obs. 71 M 169.18779 Peri. 181.76340
H 10.3 G 0.15 Opp. 22 n 0.17837035 Node 118.98634
rms res. 0".99 (M-C) 1916-1991 e 0.0606745 Incl. 5.94725

Epoch 1992 June 27.0 TT = JDT 2448800.5					Bowell
(860) Ursina	Obs. 30	M	194.69433	Peri.	19.69038
H 10.26 G 0.15	Opp. 16	n	0.21044650	Node	309.86637
rms res. 1".06 (M-C)	1903-1991	e	0.1057762	Incl.	13.31843
Epoch 1992 June 27.0 TT = JDT 2448800.5					Goffin
(1002) Olbersia	Obs. 64	M	276.55570	Peri.	355.26427
H 11.1 G 0.15	Opp. 21	n	0.21189309	Node	344.16999
rms res. 0".97 (M-C)	1923-1991	e	0.1534372	Incl.	10.77654
Epoch 1992 June 27.0 TT = JDT 2448800.5					Williams
(1459) Magnya	Obs. 13	M	290.60594	Peri.	330.27657
H 10.6 G 0.15	Opp. 6	n	0.17720088	Node	41.73312
rms res. 1".10 (M-C)	1937-1992	e	0.2366311	Incl.	16.94748
Epoch 1992 June 27.0 TT = JDT 2448800.5					Goffin
(1487) Boda	Obs. 87	M	112.30741	Peri.	102.32055
H 10.6 G 0.15	Opp. 20	n	0.17614327	Node	97.70762
rms res. 0".97 (M-C)	1929-1991	e	0.1044787	Incl.	2.47141
Epoch 1992 June 27.0 TT = JDT 2448800.5					Bowell
(1699) Honkasalo	Obs. 40	M	179.98056	Peri.	50.71404
H 12.5 G 0.15	Opp. 14	n	0.29964447	Node	274.04326
rms res. 0".77 (M-C)	1931-1991	e	0.1656299	Incl.	1.97284
Epoch 1992 June 27.0 TT = JDT 2448800.5					Bowell
(1715) Salli	Obs. 46	M	178.75573	Peri.	209.35597
H 12.1 G 0.15	Opp. 11	n	0.26505894	Node	39.15606
rms res. 0".97 (M-C)	1938-1991	e	0.2383733	Incl.	11.45498
Epoch 1992 June 27.0 TT = JDT 2448800.5					Goffin
(1738) Oosterhoff	Obs. 63	M	66.74096	Peri.	283.84610
H 12.3 G 0.15	Opp. 13	n	0.30555055	Node	44.34996
rms res. 0".95 (M-C)	1930-1990	e	0.2035810	Incl.	4.87863
Epoch 1992 June 27.0 TT = JDT 2448800.5					Williams
(1796) Riga	Obs. 45	M	121.01765	Peri.	6.79272
H 9.84 G 0.15	Opp. 13	n	0.16141151	Node	187.51876
rms res. 0".95 (M-C)	1953-1992	e	0.0664139	Incl.	22.75854
Epoch 1992 June 27.0 TT = JDT 2448800.5					Bowell
(1799) Koussevitzky	Obs. 45	M	323.07094	Peri.	192.57324
H 10.9 G 0.15	Opp. 9	n	0.18755075	Node	157.06283
rms res. 0".84 (M-C)	1950-1990	e	0.1267473	Incl.	11.51064
Epoch 1992 June 27.0 TT = JDT 2448800.5					Williams
(1954) Kukarkin	Obs. 21	M	324.23067	Peri.	69.05207
H 11.3 G 0.15	Opp. 7	n	0.19610287	Node	278.91036
rms res. 1".09 (M-C)	1952-1992	e	0.3124583	Incl.	14.86909
Epoch 1992 June 27.0 TT = JDT 2448800.5					Williams
(2062) Aten	Obs. 51	M	341.85561	Peri.	147.92973
H 16.80 G 0.15	Opp. 4	n	1.03731516	Node	108.70459
rms res. 0".96 (M-C)	1955-1992	e	0.1825436	Incl.	18.93276
Epoch 1992 June 27.0 TT = JDT 2448800.5					Bowell
(2309) Mr. Spock	Obs. 64	M	257.94762	Peri.	266.98729
H 11.3 G 0.15	Opp. 11	n	0.18855899	Node	157.78983
rms res. 0".91 (M-C)	1956-1992	e	0.0941689	Incl.	10.96692

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2446) Lunacharsky Obs. 23 M 343.71429 Peri. 250.50635
H 12.9 G 0.15 Opp. 9 n 0.27278361 Node 22.42323
rms res. 0".86 (M-C) 1960-1992 e 0.1599866 Incl. 3.32417

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2509) Chukotka Obs. 34 M 298.57139 Peri. 348.11587
H 12.6 G 0.15 Opp. 11 n 0.25607505 Node 344.02908
rms res. 0".90 (M-C) 1931-1992 e 0.1916686 Incl. 2.84719

Epoch 1992 June 27.0 TT = JDT 2448800.5 Goffin
(2650) Elinor Obs. 22 M 272.07632 Peri. 22.56626
H 11.5 G 0.15 Opp. 7 n 0.23055129 Node 332.66582
rms res. 1".14 (M-C) 1931-1983 e 0.1983327 Incl. 13.96950

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2755) Avicenna Obs. 20 M 317.72387 Peri. 148.04098
H 11.7 G 0.15 Opp. 7 n 0.20509431 Node 233.09567
rms res. 0".80 (M-C) 1971-1992 e 0.2573319 Incl. 4.53908

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2968) Iliya Obs. 20 M 297.95812 Peri. 34.00478
H 14.3 G 0.15 Opp. 5 n 0.27045939 Node 274.55937
rms res. 0".81 (M-C) 1949-1988 e 0.3082915 Incl. 9.14520

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(2969) Mikula Obs. 31 M 25.91416 Peri. 104.39709
H 12.6 G 0.15 Opp. 7 n 0.20532506 Node 181.77971
rms res. 0".92 (M-C) 1978-1992 e 0.0291752 Incl. 1.87067

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3042) Zelinsky Obs. 32 M 5.53058 Peri. 70.17138
H 13.8 G 0.15 Opp. 5 n 0.28673055 Node 226.54154
rms res. 0".93 (M-C) 1975-1992 e 0.2097473 Incl. 4.99060

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3158) Anga Obs. 19 M 271.79675 Peri. 227.43392
H 12.5 G 0.15 Opp. 6 n 0.24214819 Node 187.88673
rms res. 0".73 (M-C) 1951-1992 e 0.1035564 Incl. 14.57329

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3178) Yoshitsune Obs. 40 M 224.25050 Peri. 240.96205
H 11.9 G 0.15 Opp. 6 n 0.22020352 Node 242.53233
rms res. 0".68 (M-C) 1951-1992 e 0.3774867 Incl. 6.81621

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3359) Purcari Obs. 26 M 338.46735 Peri. 42.81738
H 14.1 G 0.15 Opp. 6 n 0.29076723 Node 25.10445
rms res. 0".94 (M-C) 1978-1990 e 0.1214896 Incl. 5.74452

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3405) 1964 UQ Obs. 13 M 279.40034 Peri. 63.72470
H 12.3 G 0.15 Opp. 7 n 0.23369334 Node 242.26736
rms res. 0".95 (M-C) 1950-1986 e 0.1148690 Incl. 13.16291

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3531) Cruikshank Obs. 21 M 273.82052 Peri. 299.48108
H 12.9 G 0.15 Opp. 4 n 0.23183180 Node 193.20541
rms res. 0".88 (M-C) 1981-1991 e 0.1441989 Incl. 13.13798

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3562) Ignatius Obs. 15 M 100.93018 Peri. 60.76236
H 13.1 G 0.15 Opp. 5 n 0.27561345 Node 93.07190
rms res. 0".64 (M-C) 1952-1986 e 0.1550552 Incl. 5.72276

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3571) 1982 EJ Obs. 27 M 31.33105 Peri. 24.75537
H 11.1 G 0.15 Opp. 6 n 0.12621476 Node 249.42316
rms res. 0".97 (M-C) 1954-1991 e 0.1189586 Incl. 7.83023

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3644) 1931 TW Obs. 20 M 306.94549 Peri. 81.21641
H 13.2 G 0.15 Opp. 6 n 0.29232997 Node 355.60079
rms res. 0".87 (M-C) 1931-1992 e 0.0936044 Incl. 3.54202

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3692) Rickman Obs. 11 M 91.67322 Peri. 9.30798
H 13.3 G 0.15 Opp. 5 n 0.21902985 Node 219.93708
rms res. 0".78 (M-C) 1951-1991 e 0.1464289 Incl. 11.37046

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3825) 1967 UR Obs. 20 M 341.19934 Peri. 144.85948
H 13.0 G 0.15 Opp. 8 n 0.29374705 Node 75.40397
rms res. 0".62 (M-C) 1952-1992 e 0.0946097 Incl. 5.14853

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(3838) Epona Obs. 40 M 45.53301 Peri. 49.43220
H 15.4 G 0.15 Opp. 3 n 0.53395527 Node 235.77489
rms res. 0".79 (M-C) 1986-1990 e 0.7016749 Incl. 29.28096

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(3897) Louhi Obs. 31 M 101.31326 Peri. 147.49558
H 12.8 G 0.15 Opp. 5 n 0.22306079 Node 189.33944
rms res. 0".74 (M-C) 1942-1990 e 0.1575346 Incl. 7.08291

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
(4015) 1979 VA Obs. 66 M 347.20387 Peri. 90.86948
H 15.99 G 0.15 Opp. 5 n 0.22957023 Node 271.06524
rms res. 0".82 (M-C) 1949-1992 e 0.6228014 Incl. 2.78599

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4057) 1985 TQ Obs. 25 M 150.45507 Peri. 57.79149
H 9.5 G 0.15 Opp. 5 n 0.08166146 Node 24.45984
rms res. 0".96 (M-C) 1985-1992 e 0.1201488 Incl. 2.87561

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4118) 1982 TH3 Obs. 25 M 298.94454 Peri. 81.57998
H 11.8 G 0.15 Opp. 6 n 0.18807112 Node 307.36397
rms res. 0".88 (M-C) 1950-1992 e 0.1109215 Incl. 8.78119

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4165) 1976 GS3 Obs. 26 M 16.79192 Peri. 107.12744
H 13.3 G 0.15 Opp. 5 n 0.25653070 Node 180.48679
rms res. 0".91 (M-C) 1973-1992 e 0.1766014 Incl. 11.89153

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4200) Shizukagozen Obs. 33 M 288.50716 Peri. 240.80872
H 13.5 G 0.15 Opp. 6 n 0.21873850 Node 242.45788
rms res. 0".78 (M-C) 1953-1992 e 0.2220781 Incl. 7.79031

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4360) 1964 TG2 Obs. 22 M 200.21172 Peri. 77.48338
H 12.8 G 0.15 Opp. 5 n 0.23545679 Node 331.46636
rms res. 0".73 (M-C) 1964-1992 e 0.1601199 Incl. 2.51975

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4373) Crespo Obs. 18 M 330.72753 Peri. 239.59969
H 13.8 G 0.15 Opp. 4 n 0.29566825 Node 154.65799
rms res. 0".73 (M-C) 1975-1989 e 0.1758743 Incl. 4.95950

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4527) Schoenberg Obs. 35 M 347.92462 Peri. 171.87887
H 14.0 G 0.15 Opp. 5 n 0.29457288 Node 146.24920
rms res. 0".79 (M-C) 1982-1992 e 0.2113382 Incl. 4.23626

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4715) 1989 TS1 Obs. 35 M 101.56982 Peri. 344.51040
H 9.3 G 0.15 Opp. 4 n 0.08440217 Node 1.64149
rms res. 0".79 (M-C) 1954-1990 e 0.0489388 Incl. 18.61674

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4802) Khatchaturian Obs. 14 M 351.32081 Peri. 213.70096
H 14.6 G 0.15 Opp. 4 n 0.29830947 Node 102.87382
rms res. 0".74 (M-C) 1949-1992 e 0.2119254 Incl. 0.74398

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(5118) 1988 RB Obs. 25 M 348.68933 Peri. 61.19664
H 11.6 G 0.15 Opp. 6 n 0.23457755 Node 253.02591
rms res. 0".64 (M-C) 1953-1992 e 0.2163859 Incl. 12.11318

(5298)* 1966 PK = 1982 SB4 = 1987 WF3
Discovered 1966 Aug. 7 at the Boyden Observatory.
Id. T. Kobayashi (MPC 10938), S. Nakano (MPC 13583)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M 327.33328		(2000.0)	P	Q	
n 0.19109228	Peri.	298.30416	+0.98819946	-0.14890189	
a 2.9852036	Node	70.27797	+0.15047429	+0.89990572	
e 0.2185120	Incl.	2.18667	+0.02862354	+0.40987549	
P 5.16	H	12.6	G	0.15	

Residuals in seconds of arc

660807	074	0.8-	1.3+	870829	095	1.0-	1.8+	871002	809	0.9+	0.0
660807	074	1.5-	0.6+	870904	095	0.2-	1.3+	871002	809	1.0+	0.1-
660808	074	1.2+	0.1+	870921	688	0.4-	0.8-	871002	809	1.0+	0.2-
660808	074	1.6-	1.1-	870921	688	0.4+	0.1-	871024	801	0.9-	1.5+
660809	074	0.9+	0.1-	870924	095	1.5-	0.3-	871117	010	0.6+	0.7+
660810	074	0.6+	0.1+	870926	801	2.5-	1.4-	871117	010	2.3-	0.9+
660812	074	1.3+	0.3-	870927	809	0.8+	0.2-	871120	010	0.5+	0.1+
660812	074	0.2-	0.5-	870927	809	0.8+	0.1-	871120	010	2.1-	0.7-
660816	074	(8.0-	2.3-)	870927	809	0.7+	0.1-	920731	801	0.2-	0.2-
820917	095	1.7+	0.6+	870927	095	2.2-	0.4+	920731	801	0.3-	0.2-
820920	095	0.9+	0.6+	871001	809	0.6+	0.3-	920824	801	0.5-	0.2+
820926	095	2.0-	1.6-	871001	809	0.6+	0.2-	920824	801	0.4-	0.4+
870823	675	0.1+	0.1+	871001	809	1.0+	0.3-	920901	801	0.4-	0.1+
870823	675	1.2+	0.7+	871001	809	0.1+	0.4-	920901	801	1.3+	0.5+
870828	675	0.7+	0.8-	871001	809	0.2+	0.3-				
870828	675	1.2+	1.0-	871001	809	0.2+	0.1-				

(5299)* 1969 LB = 1976 SP2 = 1984 DW1 = 1987 RW3

Discovered 1969 June 8 by C. U. Cesco at the Yale-Columbia Southern Station, El Leoncito.

Id. B. G. Marsden (MPC 15239)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	284.00181	(2000.0)	P	Q	
n	0.17963918	Peri.	75.63474	+0.73929950	-0.67173760
a	3.1107755	Node	326.52816	+0.58035258	+0.67098223
e	0.0762301	Incl.	4.88394	+0.34150714	+0.31392904
P	5.49	H	11.9	G 0.15	

Residuals in seconds of arc

690608	808	1.3-	0.1-	871023	095	(3.2+	2.9+)	920802	675	1.5+	0.0
690609	808	1.2+	0.3+	900318	400	1.1-	0.0	920802	675	0.4+	0.3-
690617	808	0.9+	1.2+	900318	400	1.0-	0.2+	920806	675	0.3+	0.9-
760924	095	1.7-	0.9+	900329	400	(6.4+	3.1+)	920806	675	0.5+	1.2-
760929	095	(0.1-	4.0+)	900329	400	(6.1+	1.4+)	920825	801	0.1+	0.3-
840226	095	0.8+	2.0-	920729	801	0.6+	0.1+	920825	801	0.0	0.4-
870903	095	0.9-	0.3+	920729	801	0.4+	0.2+	920830	801	0.2-	0.1-
870917	095	0.2+	0.6+	920802	801	0.7-	0.1+	920830	801	0.0	0.2+
870923	095	0.6+	1.0-	920802	801	0.5-	0.2-				

(5300)* 1974 SX1 = 1981 WP4

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

Id. H. Oishi (MPC 11057)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	63.45916	(2000.0)	P	Q	
n	0.28732154	Peri.	350.17317	+0.99966430	-0.01523114
a	2.2745244	Node	10.76615	+0.02362943	+0.86777362
e	0.1620448	Incl.	6.44233	-0.01062753	+0.49672624
P	3.43	H	14.1	G 0.15	

Residuals in seconds of arc

740919	095	1.2+	0.4+	881103	033	0.4+	1.0+	900327	675	0.8-	1.4-
740921	095	0.8+	0.8-	881104	033	0.3+	0.7+	900327	675	1.4-	2.5-
740923	095	(4.4+	1.7-)	881104	033	0.2-	0.8+	910915	675	0.8+	2.3-
741009	095	0.2-	1.5-	881110	888	0.3-	0.7-	910915	675	0.2-	0.8-
811119	095	0.0	0.4+	881110	888	0.1+	0.1-	911008	801	0.0	0.5+
811124	095	1.1-	1.9-	881202	888	0.4+	0.0	911008	801	0.2-	0.6+
880909	033	0.2-	0.6+	881202	888	0.0	0.5-	911008	801	0.0	0.6+
880910	033	0.3+	0.8+	881210	888	0.2+	1.2-	911008	801	0.0	0.4+
880910	033	0.1+	0.3+	881210	888	0.3+	0.8-				

(5301)* 1974 SD3 = 1986 RN

Discovered 1974 Sept. 20 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Id. S. Nakano (MPC 11423), C. M. Bardwell (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	313.16193	(2000.0)	P	Q	
n	0.15966329	Peri.	141.10615	+0.89438663	-0.41900235
a	3.3651105	Node	244.34015	+0.35462260	+0.87754750
e	0.1006421	Incl.	10.00208	+0.27260844	+0.23312533
P	6.17	H	11.4	G 0.15	

Residuals in seconds of arc

740920	095	1.1+	1.0+	860908	095	1.2-	0.1-	880219	801	0.1+	1.0+
740922	095	0.7-	1.7+	860909	054	1.3+	0.1+	910711	801	0.5+	1.0+
740925	095	0.6-	0.2+	860911	095	1.4-	1.1-	910711	801	0.4-	1.0+
800913	675	0.8+	0.0	860911	054	0.6-	1.6-	910716	801	0.4-	0.5+
800914	675	0.3+	0.1-	860929	054	0.4-	0.5-	910716	801	0.1-	0.6-

920728	801	0.1-	0.1+	920731	801	0.5+	0.1+	920826	801	0.4+	0.1+
920728	801	0.0	0.6+	920824	801	0.3+	0.2-	920826	801	0.3+	0.1+
920731	801	0.2+	0.1+	920824	801	0.2+	0.0				

(5302)* 1976 YF5 = 1983 VO2 = 1988 CM7

Discovered 1976 Dec. 18 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. A. Lowe (k, MPC 13167), B. G. Marsden (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	178.58476		(2000.0)	P	Q
n	0.27688371	Peri.	47.30696	+0.90560496	-0.42388507
a	2.3313337	Node	337.76176	+0.37734795	+0.82054435
e	0.0376692	Incl.	2.14745	+0.19361866	+0.38344286
P	3.56	H	14.0	G 0.15	

Residuals in seconds of arc

761218	095	0.4-	0.0	880217	809	0.0	0.7+	901114	801	0.1+	0.4+
761220	095	0.7+	0.0	880221	809	0.1-	0.5+	920308	399	0.5-	1.0+
831108	381	0.2+	0.8-	880221	809	1.0-	0.0	920308	399	1.5+	0.3-
831108	381	0.5-	0.8-	880221	809	1.5-	0.8+	920326	691	0.1-	0.3-
880215	809	1.1+	0.7+	880223	809	0.3-	0.2-	920326	691	0.1+	0.7-
880216	809	1.2+	1.1-	880223	809	0.5-	0.8-	920326	691	0.1-	0.7-
880216	809	1.6+	0.2+	880223	809	1.9-	0.5-	920407	691	0.6-	0.1+
880216	809	1.0+	0.3-	901021	801	0.1+	0.5-	920407	691	1.1-	0.6-
880217	809	0.3+	0.7+	901021	801	0.2+	0.5-	920407	691	0.4-	0.5-
880217	809	0.3+	0.8+	901114	801	0.0	0.4+				

(5303)* 1978 TT2 = 1976 GA8 = 1986 LL1

Discovered 1978 Oct. 3 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. T. Urata (NOC 1399), S. Nakano (MPC 13051)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	117.71324		(2000.0)	P	Q
n	0.20217618	Peri.	148.56620	-0.93978868	+0.33965826
a	2.8750764	Node	51.33747	-0.32274269	-0.84566978
e	0.0159045	Incl.	2.77539	-0.11240283	-0.41167328
P	4.87	H	12.4	G 0.15	

Residuals in seconds of arc

710326	675	0.6-	0.2+	760404	095	0.1-	0.1-	890109	033	0.1-	0.3+
710326	675	1.5-	1.0-	780927	095	2.0-	0.7-	890109	033	0.3+	0.1+
710327	675	0.2-	0.1-	781003	095	1.3+	0.8+	910513	801	0.9-	0.1-
710402	675	0.2+	0.3-	781007	095	2.4+	1.2+	910513	801	0.8-	0.2-
710416	675	1.2+	1.4-	831108	801	(0.4+	5.4+)	910514	801	0.5-	0.0
710416	675	1.7+	1.7-	860602	809	0.4+	1.1-	910514	801	0.7-	0.1+
710513	675	1.6-	1.0+	860602	809	0.0	1.0-	920730	801	0.7-	0.6-
710513	675	2.1-	0.2+	860603	809	0.3-	0.4-	920730	801	0.4-	0.5-
710514	675	1.6-	1.7+	860603	809	0.7+	0.2-	920825	801	0.1-	0.8-
710514	675	0.6-	0.3-	860604	809	0.9+	0.1-	920830	801	0.2-	0.8-
710516	675	0.1+	0.4+	860604	809	1.3+	0.2-	920830	801	0.4-	0.8-
710516	675	(4.1+	0.9-)	860607	809	2.5+	2.4+				
760401	095	(3.3+	0.0)	860607	809	2.5+	1.9+				

(5304)* 1978 TA7 = 1976 JR2 = 1989 YW5

Discovered 1978 Oct. 2 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Id. D. W. E. Green (MPC 15876)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	201.19793		(2000.0)		P		Q	
n	0.19175986	Peri.	317.61670		+0.29206340		-0.94587862	
a	2.9782712	Node	114.95280		+0.91399407		+0.23248762	
e	0.0769992	Incl.	8.97657		+0.28162708		+0.22641368	
P	5.14	H	12.1	G	0.15			

Residuals in seconds of arc

760502	095	0.6-	0.1-	900103	511	0.9+	0.5-	910419	801	0.3-	0.7+
781002	095	0.2+	1.8+	900104	511	0.3+	1.0-	910419	801	0.2-	0.6+
781008	095	0.4-	0.6+	900104	511	0.7+	0.4+	920529	801	0.6-	0.6+
781101	095	0.4-	1.0+	910312	675	0.3+	1.1-	920529	801	0.4-	0.3+
891229	511	0.9-	0.5+	910312	675	0.3+	0.5-	920604	801	0.1+	0.1+
891229	511	1.3-	1.1+	910313	801	0.5+	0.2+	920604	801	0.9+	0.2+
891230	511	0.7-	0.5-	910313	801	0.7+	0.3+	920630	801	0.5-	0.5+
891230	511	1.3+	0.6-	910317	801	0.4+	1.3+				
900103	511	0.8-	1.1+	910317	801	0.6+	1.0+				

(5305)* 1978 VS5 = 1938 DQ1 = 1980 FL7 = 1984 JL1

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

Id. S. Nakano (MPC 12579)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	29.15968		(2000.0)		P		Q	
n	0.25897408	Peri.	13.94774		-0.40839550		+0.91247324	
a	2.4376154	Node	231.95400		-0.84045011		-0.38640698	
e	0.1564733	Incl.	1.79086		-0.35616952		-0.13447018	
P	3.81	H	13.4	G	0.15			

Residuals in seconds of arc

380220	024	0.7+	1.5+	840502	809	0.5-	0.6-	891103	675	0.5-	0.3+
781105	675	0.2+	0.5+	840502	095	1.0+	1.8+	891103	675	0.3-	0.1+
781106	675	0.0	1.0+	840505	095	1.0-	2.0-	891104	675	0.4+	0.2+
781107	675	0.9+	1.3+	840506	809 (5.8-		2.8+)	891104	675	0.5+	1.3-
781108	675	0.9-	0.1+	840506	809(11.3-		5.2+)	920628	801	0.2-	0.1+
781129	675	1.0-	0.2-	840518	095 (3.6-		2.9-)	920628	801	0.6-	0.9+
781130	675	1.5-	0.3-	850922	095	0.8+	0.7-	920630	801	0.2-	0.2+
800323	809	0.1+	2.2-	890930	675	1.3+	1.4-	920630	801	0.0	0.5+
840502	809	0.3-	0.4-	890930	675	1.2+	0.4-	920728	801	0.0	0.0

(5306)* 1980 BB = 1979 YZ8 = 1980 BU5 = 1953 PE1 = 1978 TF9 = 1978 UM = 1985 DR4

Discovered 1980 Jan. 25 at the Agassiz Station of the Harvard College Observatory.

Id. B. G. Marsden (d, MPC 9203), K. Ichikawa (MPC 14014), H. Oishi (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	351.26632		(2000.0)		P		Q	
n	0.20421411	Peri.	253.53388		+0.89685640		+0.43902071	
a	2.8559168	Node	80.39801		-0.38208970		+0.83038171	
e	0.0714243	Incl.	3.13596		-0.22283641		+0.34311374	
P	4.83	H	12.3	G	0.15			

Residuals in seconds of arc

530805	078	0.3-	0.1-	900215	400	1.1-	0.9-	920728	801	0.1+	0.1+
781004	095	1.6+	1.4+	900215	400	1.6-	1.1+	920728	801	0.1-	0.2-
781028	688	0.3-	1.0- Y	910511	801	0.2-	0.6-	920802	801	0.1-	0.0
791224	095	2.3-	1.3-	910511	801	0.7-	0.4-	920802	801	0.2+	0.1-
800123	095	1.0-	0.4-	910513	801	0.6-	0.5-	920825	801	0.1+	0.1-
800125	801	0.1-	0.0	910513	801	0.8-	0.5-	920825	801	0.0	0.3+
800126	801	0.9+	0.5+	910513	033	0.2-	0.6+	920830	801	0.2-	0.8-
850220	675	1.5+	0.1+	910513	033	1.9+	0.3-	920830	801	0.3-	0.9-
850223	675	2.1+	0.5-	910514	033	1.5+	0.4+				

(5307)* 1980 YC = 1989 GG8

Discovered 1980 Dec. 30 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. D. W. E. Green (MPC 15063)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	57.96075	(2000.0)	P	Q
n	0.26265058	Peri. 9.62256	+0.35812829	-0.92764918
a	2.4148147	Node 59.45915	+0.84824585	+0.27587352
e	0.1215542	Incl. 7.06170	+0.39015780	+0.25171570
P	3.75	H 13.6	G 0.15	

Residuals in seconds of arc

801230	688	1.5-	0.5+	810131	046	(3.7+ 3.3+)	890409	033	0.3- 0.4+
801230	688	0.3-	1.8-	810131	046	0.4- 0.8+	890409	033	0.6+ 0.2-
810129	046	0.6-	0.4+	870927	095	1.2+ 0.6-	911004	801	0.1- 0.1+
810129	046	1.9+	1.0-	871023	095	1.8- 1.7+	911004	801	0.3- 0.5+
810130	046	0.2+	1.2-	890406	033	0.7+ 1.0+	911107	801	0.2+ 0.4+
810130	046	0.2+	0.8+	890407	033	0.3+ 1.4+	911107	801	0.0 0.6+

(5308)* 1981 DC2 = 1978 VY13 = 1987 UX8

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

Id. L. D. Schmadel (MPC 15406), S. Nakano (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	93.23673	(2000.0)	P	Q
n	0.22734244	Peri. 98.80317	+0.79527461	+0.58831859
a	2.6587798	Node 225.32396	-0.60489049	+0.75386899
e	0.2046042	Incl. 11.87724	-0.04056822	+0.29251115
P	4.34	H 13.3	G 0.15	

Residuals in seconds of arc

781101	095	(7.9- 4.0+)	810312	413	1.2- 0.1-	910812	801	0.3+ 0.3+
781128	675	0.1- 0.6+	810312	413	1.4+ 1.0-	910812	801	0.5+ 0.2+
781129	675	0.1+ 0.3-	810407	413	1.0- 1.1+	910909	801	0.0 0.4+
810204	413	0.5+ 0.5+	810408	413	0.8- 1.5+	910909	801	0.0 0.3+
810208	413	(3.5- 0.3-)	810408	413	0.4+ 0.9+	910910	801	0.1+ 0.3+
810209	413	0.6+ 1.0+	810409	413	0.6- 0.3+	910910	801	0.2+ 0.4+
810228	413	(2.4- 0.3-)	810409	413	0.9+ 0.8-	910912	675	0.2- 0.1+
810228	413	0.4+ 0.3-	810501	413	(2.0+ 0.9-)	910912	675	1.0- 0.8+
810306	413	0.9+ 0.2-	810503	413	0.1+ 0.1+	910916	675	0.6- 0.7-
810306	413	(4.4+ 2.6-)	871023	095	0.3- 0.1+	910916	675	0.9+ 0.4+
810308	413	1.2- 0.6+	910811	801	0.2+ 0.2+	910917	675	0.5- 0.2-
810308	413	0.6+ 0.6-	910811	801	0.2+ 0.1+	910917	675	0.3- 0.2-

(5309)* 1981 ED25 = 1975 NO1 = 1982 SD5

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

Id. C. M. Bardwell (MPC 8793), W. Landgraf (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	349.91540	(2000.0)	P	Q
n	0.29163762	Peri. 124.84313	+0.84123332	+0.54000035
a	2.2520275	Node 202.51013	-0.51619571	+0.78732625
e	0.2348045	Incl. 4.03608	-0.16083681	+0.29751805
P	3.38	H 14.1	G 0.15	

Residuals in seconds of arc

750712	095	0.7- 1.1+	810302	413	2.4- 1.3+	810405	413	0.8- 0.1-
780509	675	1.3+ 0.4+	810302	413	(4.2+ 0.7-)	810406	413	0.7- 0.5+
780510	675	0.8+ 1.1+	810306	413	1.2- 1.1+	810406	413	(3.8+ 2.9-)
810212	413	0.1- 0.9+	810306	413	2.4+ 0.4-	810410	413	0.2+ 2.6-
810212	413	0.7- 0.6+	810311	413	0.5- 0.5+	810426	413	1.4+ 3.0-
810213	413	0.5- 1.4+	810315	413	0.6+ 0.5+	810502	413	0.5- 2.0-

820926 095 (1.6+ 7.2+) 891201 688 0.2+ 0.2+ 920802 801 0.1+ 0.4-
891130 688 0.4+ 0.3+ 920729 801 0.0 0.3- 920826 801 0.1- 0.2-
891130 688 0.2+ 0.3+ 920729 801 0.0 0.1- 920826 801 0.1+ 0.2-
891201 688 0.1- 0.2+ 920802 801 0.2+ 0.3-

(5310)* 1981 EP26

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

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M 346.67052	(2000.0)	P	Q
n 0.26672740	Peri. 45.33424	-0.79429680	+0.60734615
a 2.3901453	Node 172.02274	-0.58341131	-0.75567210
e 0.0865242	Incl. 6.18060	-0.16948105	-0.24513332
P 3.70	H 13.8	G 0.15	

Residuals in seconds of arc

750930 675 0.5+ 0.4- 810315 413 0.9+ 1.3- 901016 809 0.0 0.5+
751001 675 0.1+ 1.1- 810405 413 1.1- 1.5+ 901020 809 0.5- 0.1-
751002 675 0.3+ 0.2- 810405 413 (4.5+ 2.4-) 901020 809 0.7- 0.4+
751015 675 0.0 0.5+ 810406 413 1.1- 1.4+ 901020 809 0.6+ 0.4+
751016 675 0.2- 0.7+ 810406 413 0.5+ 0.2- 901024 809 0.0 0.3+
810209 413 0.9+ 0.3+ 810407 413 0.4- 0.3- 901024 809 2.2- 0.3-
810212 413 0.6+ 0.5- 810407 413 1.1+ 0.6- 901024 809 0.2- 0.2-
810213 413 0.0 0.0 810426 413 1.1+ 2.0- 920302 399 0.8+ 0.4+
810302 413 0.9- 0.3+ 810501 413 0.9- 1.0+ 920302 399 1.7+ 1.5+
810306 413 1.5- 0.6+ 901016 809 (2.1- 3.3-) 920303 399 1.2- 0.1-
810306 413 1.0+ 0.2- 901016 809 1.6- 2.4- 920303 399 1.1+ 0.5-
810311 413 0.7- 0.7- 901016 809 (4.2- 3.8-) 920322 399 2.2- 0.2+
810311 413 0.7+ 1.3- 901016 809 2.2+ 0.3+ 920322 399 0.6+ 0.5-
810315 413 1.1- 0.0 901016 809 1.9+ 0.3+

(5311)* 1981 GD1

Discovered 1981 Apr. 3 by A. C. Gilmore and P. M. Kilmartin at Mount John Observatory.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M 93.22540	(2000.0)	P	Q
n 0.18632931	Peri. 259.60779	-0.61415013	-0.78790954
a 3.0358614	Node 228.37894	+0.74554542	-0.56057765
e 0.0976265	Incl. 3.44526	+0.25880813	-0.25485537
P 5.29	H 13.6	G 0.15	

Residuals in seconds of arc

810212 413 0.2+ 0.1- 810405 474 1.6+ 2.3+ 870502 474 1.3+ 0.5+
810212 413 0.3+ 0.3- 810406 413 1.5- 1.0+ 870502 474 0.8+ 0.7+
810301 413 0.4+ 0.3+ 810406 413 1.2+ 0.4- 870605 474 0.7- 0.1-
810306 413 0.9- 0.1+ 810408 413 1.4- 0.2- 870605 474 1.0- 0.5-
810306 413 0.3+ 0.1- 810408 413 0.8+ 1.5- 910111 474 0.3+ 0.0
810308 413 0.1- 0.4+ 810409 413 1.4- 0.3+ 910111 474 0.5- 0.8+
810308 413 0.2- 0.7+ 810409 413 0.7+ 0.5- 920405 675(12.5- 5.0+)
810312 413 0.8- 0.8+ 810430 474 0.3- 1.0- 920502 474 0.9- 0.2+
810312 413 1.3+ 0.6- 810430 474 0.4- 0.9- 920502 474 0.2+ 0.2+
810403 474 1.8- 0.3+ 810501 413 0.4+ 1.5- 920504 474 0.9+ 0.5+
810403 474 1.9- 0.1+ 810503 474 2.1+ 3.9- 920504 474 0.1+ 0.5+
810404 474 0.5- 1.1+ 810503 474 2.0+ 1.4- 920529 474 0.0 0.2+
810404 474 0.5- 0.4+ 860307 474 0.8+ 0.0 920529 474 0.2- 0.1+
810405 474 0.2- 2.2+ 860307 474 0.2+ 0.4-

(5312)* 1981 VP2 = 1953 VJ1 = 1987 WU1

Discovered 1981 Nov. 3 by F. Borngen at Tautenburg.

Id. D. W. E. Green (MPC 12707), L. D. Schmadel (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	330.73740	(2000.0)	P	Q
n	0.17550279	Peri. 282.67650	+0.94435764	-0.32519854
a	3.1594637	Node 96.31740	+0.31775451	+0.86322211
e	0.3101788	Incl. 2.84548	+0.08497482	+0.38612627
P	5.62	H 13.3	G 0.15	

Residuals in seconds of arc

531106	760	1.6+	0.0	871126	033	0.5-	0.5-	910608	809	(0.4-	3.1-)
531106	760	1.9-	0.4+	871222	033	0.2+	0.3-	910608	809	1.2-	1.9-
810925	095	0.4+	0.6-	871225	033	0.8+	0.5-	910608	809	1.2-	1.0-
811007	095	2.2+	0.0	871225	033	0.2+	0.1+	920802	801	0.2+	0.3-
811023	330	(1.4-	3.0+)	880111	033	0.6-	0.4-	920802	801	0.3-	0.7-
811028	330	(3.8-	5.0+)	880111	033	0.1-	0.6-	920824	801	0.1-	0.2-
811103	033	0.7-	0.1-	910606	809	(3.3+	0.9-)	920824	801	0.1-	0.2-
811103	033	0.8-	0.2+	910606	809	1.3+	0.5-	920831	801	0.1-	0.3+
871126	033	0.4-	0.6-	910606	809	0.8+	0.7+	920831	801	0.1-	0.4+

(5313)* 1982 SC2 = 1958 DL = 1988 GJ

Discovered 1982 Sept. 18 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (MPC 13157)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	58.93790	(2000.0)	P	Q
n	0.29877932	Peri. 137.61312	-0.34366693	+0.93624866
a	2.2159963	Node 112.16781	-0.88136121	-0.29472256
e	0.1216049	Incl. 4.52218	-0.32418429	-0.19125130
P	3.30	H 13.0	G 0.15	

Residuals in seconds of arc

580218	760	0.2-	1.3+	880410	897	2.0-	0.4+	910114	801	0.4+	0.1-
580218	760	(5.8+	5.4+)	880415	897	0.5+	0.3-	910119	801	0.3+	0.1+
820918	809	1.1-	0.1+	880415	897	0.1+	0.8-	910119	801	0.3+	0.5-
820918	809	0.7-	0.1+	880419	897	(3.9-	2.0-)	910512	801	0.6+	0.6+
820918	809	0.0	0.2+	880419	897	(4.1-	0.2-)	910512	801	0.2-	0.4+
820921	809	1.4+	0.6+	890928	675	0.0	0.4-	920803	801	0.1-	0.8-
820921	809	1.4+	0.9+	890928	675	0.2-	0.2-	920803	801	0.1-	0.8-
820921	809	1.5+	0.6+	890929	801	0.9+	1.0-	920824	801	0.0	0.5+
820925	809	0.1-	0.0	890929	801	0.2-	0.3+	920824	801	0.3-	0.6+
820925	809	0.4-	0.1-	901220	801	0.0	0.1+	920831	801	0.9-	0.0
820925	809	0.5-	0.3-	901220	801	0.1-	0.1-	920831	801	0.3-	0.0
880410	897	0.3+	0.0	910114	801	0.3+	0.0				

(5314)* 1982 SG4 = 1982 SP4 = 1987 RS3

Discovered 1982 Sept. 20 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. S. Nakano (d, MPC 13582), D. W. E. Green (d, MPC 15244), B. G. Marsden (MPC 15244)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	249.39416	(2000.0)	P	Q
n	0.18947596	Peri. 246.57196	-0.04479441	-0.99624862
a	3.0021563	Node 206.32307	+0.96666103	-0.02452110
e	0.0819836	Incl. 9.61191	+0.25211090	-0.08299037
P	5.20	H 11.8	G 0.15	

Residuals in seconds of arc

820920	095	(4.4-	1.3+)	870902	095	1.7-	0.5-	900330	400	0.4+	2.1+
820922	095	0.8+	0.6-	870917	095	(0.8-	3.1-)	910513	801	0.4-	0.1+
820926	095	(3.6-	0.7+)	870926	095	0.2+	0.3+	910513	801	0.4-	1.1-
820928	095	0.2-	1.3+	900330	400	0.4+	2.1+	910609	801	0.2+	0.2-

910609 801 0.9+ 0.8- 920731 801 0.3- 0.5+ 920826 801 0.0 1.2+
910611 801 0.1+ 0.4+ 920731 801 0.1+ 1.1+
910611 801 0.0 0.5- 920826 801 0.0 0.9+

(5315)* 1982 SV5 = 1931 TR3 = 1975 PK = 1991 FJ6

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

Id. S. Nakano (MPC 13605; unpublished)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M 299.55022		(2000.0)	P	Q
n 0.28951767	Peri.	206.73751	+0.94218067	-0.33483269
a 2.2630075	Node	172.78525	+0.32348591	+0.89824339
e 0.1964114	Incl.	6.17774	+0.08747828	+0.28468557
P 3.40	H	13.8	G 0.15	

Residuals in seconds of arc

311012 690 0.4- 1.2- 820926 095 1.5+ 0.3- 920726 801 0.6- 0.1+
311014 690 0.3+ 0.2+ 821022 095 (3.0- 1.9-) 920729 801 0.9- 0.1+
750814 805 1.1- 1.1- 891029 801 0.6- 0.4+ 920729 801 0.8- 0.0
750815 805 1.9+ 1.8+ 891029 801 0.8- 0.4+ 920825 801 0.4+ 0.4+
750816 805 0.7- 0.4- 910323 809 1.3- 0.1- 920825 801 0.3+ 0.4+
820916 095 (1.9+ 3.4-) 910323 809 0.2+ 0.4- 920827 801 0.0 0.7-
820918 095 (5.3+ 6.1-) 910323 809 1.8+ 0.6- 920827 801 0.7+ 0.1-
820920 095 0.9+ 0.3+ 920726 801 0.9- 0.2-

(5316)* 1982 UB7 = 1982 XU3 = 1987 SF9 = 1991 LV3

Discovered 1982 Oct. 21 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Id. C. M. Bardwell (d, MPC 9153), G. V. Williams (MPC 18623)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 223.48199		(2000.0)	P	Q
n 0.17543909	Peri.	221.85904	-0.03301087	-0.97977643
a 3.1602285	Node	231.00748	+0.97110789	+0.01525167
e 0.0324521	Incl.	14.70958	+0.23634667	-0.19951324
P 5.62	H	11.6	G 0.15	

Residuals in seconds of arc

821021 095 (5.0+ 4.2-) 910606 809 1.0+ 1.6+ 920728 658 0.4- 0.0
821023 095 0.6+ 0.3- 910606 809 0.0 0.8+ 920728 658 0.5- 0.0
821111 330 1.0- 1.6+ 910606 809 0.5- 0.8+ 920729 801 0.5+ 0.2-
821112 095 0.1+ 0.5+ 910608 809 0.5+ 0.3+ 920729 801 0.1+ 0.1-
821117 330 0.6- 1.0+ 910608 809 0.4- 0.2+ 920731 801 0.2+ 0.3-
821213 381 0.5+ 0.1+ 910608 809 0.9- 0.5- 920731 801 0.0 0.4-
821214 381 0.7+ 0.5- 920727 658 0.1+ 0.0 920825 801 0.2+ 0.3+
821214 381 0.1+ 0.4+ 920727 658 0.0 0.1- 920825 801 0.1+ 0.2+
870921 010 0.4+ 0.5- 920727 658 0.2+ 0.1- 920831 801 0.3+ 0.3+
870922 010 0.9- 0.4+ 920728 658 0.6- 0.1- 920831 801 0.2+ 0.1-

(5317)* 1983 CE = 1983 CB1 = 1970 EH = 1987 BF3

Discovered 1983 Feb. 11 by C. S. Shoemaker at Palomar.

Id. F. N. Bowman (d, MPC 7830), D. W. E. Green (MPC 14189)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M 32.82869		(2000.0)	P	Q
n 0.22884262	Peri.	58.55881	-0.97844590	+0.03125724
a 2.6471473	Node	122.48290	-0.08630882	-0.95990070
e 0.1094256	Incl.	14.00353	+0.18760173	-0.27859223
P 4.31	H	12.2	G 0.15	

Residuals in seconds of arc

700307 095 0.7+ 1.7+ 830211 688 0.4+ 1.4- 830215 688 0.9+ 1.5-
830211 688 0.0 0.3- 830211 675 0.1+ 0.4+ 830219 688 (0.4- 2.4-)
830211 675 1.5- 0.2+ 830215 688 (0.1+ 2.1-) 830219 688 (0.9+ 2.4-)

830309	688	(1.3+ 2.4-)	901220	801	0.1+ 0.1+	920405	675	(2.5- 0.0)
830309	688	0.5- 1.1-	920205	801	2.0+ 0.2-	920422	596	0.5+ 0.4+
830314	095	1.2- 0.7-	920205	801	0.7+ 1.8-	920422	596	1.2+ 1.0+
870130	010	(0.7- 2.5+)	920206	801	0.4+ 0.4-	920422	596	(0.6+ 2.1+)
870130	010	0.7- 1.3+	920206	801	0.5+ 0.6-	920424	596	0.3+ 0.4+
870130	010	(3.1- 2.6+)	920301	801	0.3- 0.3+	920424	596	0.2+ 0.3-
890801	675	0.4+ 2.8-	920301	801	0.2- 0.2+	920426	675	0.3+ 1.3-
890802	675	(0.5- 3.7-)	920302	801	0.6- 0.0	920430	675	1.1- 1.0-
901116	801	0.2+ 0.1+	920302	801	0.5- 0.2-	920504	589	0.1- 1.5+
901116	801	0.1+ 0.1+	920403	675	0.3+ 1.2-	920504	589	0.2- 1.7+
901220	801	0.2+ 0.2+	920403	675	1.2- 0.3-	920504	589	0.9- 1.5+

(5318)* 1985 HG1 = 1985 JZ = 1983 UL1 = 1988 CX2

Discovered 1985 Apr. 21 by A. Mrkos at Klet.

Id. F. N. Bowman (d, MPC 10151), C. M. Bardwell (MPC 13039)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	69.04409	(2000.0)	P	Q
n	0.28453229	Peri. 54.04384	-0.94900165	-0.31044496
a	2.2893649	Node 107.81393	+0.26747642	-0.88507721
e	0.1334710	Incl. 3.30896	+0.16688990	-0.34678849
P	3.46	H 13.6	G 0.15	

Residuals in seconds of arc

710513	675	0.5- 0.4+	880216	809	1.4+ 0.5+	890802	413	0.4+ 0.4-
710514	675	0.3- 1.4-	880216	809	0.2+ 0.6+	890803	413	0.1+ 1.6-
710516	675	0.3- 2.3-	880217	809	0.8+ 1.0-	901110	046	1.1- 2.1-
831030	675	0.0 0.1+	880217	809	1.2+ 1.1-	901110	046	1.2+ 1.4-
831104	675	1.2+ 1.4+	880217	809	0.7+ 0.6-	901113	046	2.1- 2.5-
850421	046	(0.9- 4.3-)	880221	809	0.1- 0.8-	901113	046	1.4+ 1.0-
850422	046	(0.4+ 3.7-)	880221	809	0.7- 0.8-	920603	801	0.2+ 0.1-
850513	675	1.5- 1.2+	880221	809	1.6- 0.4-	920603	801	0.8+ 1.0-
850514	675	1.1- 1.2-	880223	809	0.9- 0.6+	920702	801	0.3+ 0.3-
880211	809	1.6- 0.1-	880223	809	1.1- 1.5+	920702	801	0.0 0.1+
880215	809	2.3+ 1.4-	880223	809	1.9- 1.1+			
880216	809	1.9+ 0.1+	890802	413	0.8+ 1.1-			

(5319)* 1985 RK6 = 1964 JB = 1987 DV4 = 1988 NT

Discovered 1985 Sept. 15 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. D. W. E. Green (MPC 14193), S. Nakano (ibid.), C. M. Bardwell (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	68.95714	(2000.0)	P	Q
n	0.29066397	Peri. 81.21883	+0.20532195	+0.97793913
a	2.2570538	Node 200.75058	-0.93518399	+0.18446023
e	0.1535488	Incl. 6.22926	-0.28857200	+0.09802793
P	3.39	H 13.2	G 0.15	

Residuals in seconds of arc

511129	675	1.7+ 0.7+	870228	010	0.1- 0.1+	910414	400	0.6+ 0.3+
511129	675	1.2- 0.2-	880712	675	0.8- 0.0	910414	400	1.1+ 1.3-
640510	760	0.1- 0.3+	880714	675	1.3- 0.1+	910417	657	0.1- 0.6-
640510	760	0.1- 0.9+	880808	675	(2.7+ 3.0-)	910417	657	1.6- 0.4-
850915	095	0.5- 2.1+	880808	675	2.0+ 0.3-	910418	400	0.2+ 2.4+
850920	095	0.1- 0.6-	910313	801	0.2+ 0.9-	910418	400	(3.0+ 2.2+)
850922	095	0.3+ 0.3-	910313	801	0.3+ 0.7-	910419	801	0.1+ 0.5+
870228	010	0.7+ 0.9+	910412	657	(2.5- 1.9-)	910419	801	0.2+ 0.6+
870228	010	0.9- 0.6+	910412	657	0.2- 0.7-			

(5320)* 1985 VD = 1990 QG5

Discovered 1985 Nov. 14 by P. Jensen at Brorfelde.

Id. E. Bowell (MPC 17017)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	121.74752	(2000.0)	P	Q
n	0.17754207	Peri. 210.74196	+0.92799211	+0.36436454
a	3.1352237	Node 127.68615	-0.31870509	+0.88453294
e	0.1627758	Incl. 5.64949	-0.19302257	+0.29127299
P	5.55	H 12.2	G 0.15	

Residuals in seconds of arc

790920	675	0.1+	0.6-	851115	054	2.4-	0.1-	911106 801	0.5-	0.2-
790921	675	0.1+	0.1+	900825	675	0.2+	0.3+	920101 801	0.2-	0.2-
851022	095	0.8+	0.3+	900825	675	0.3+	0.2+	920101 801	1.2+	0.1-
851109	095	1.0+	1.5+	900826	675	0.6+	0.1-	920106 801	0.1-	0.5-
851111	095	0.2-	0.3+	900826	675	1.0-	1.0-	920106 801	0.1-	0.2-
851114	054	0.1+	0.1-	911106	801	0.2-	0.6-			

(5321)* 1985 VN = 1931 VK1 = 1989 TH

Discovered 1985 Nov. 14 by P. Jensen at Brorfelde.

Id. T. Furuta (MPC 15412), H. Oishi (MPC 17203)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	255.39297	(2000.0)	P	Q
n	0.23775700	Peri. 138.42462	+0.97221228	+0.20147436
a	2.5805593	Node 210.57150	-0.22239219	+0.95389806
e	0.2207871	Incl. 13.55539	+0.07310951	+0.22245576
P	4.15	H 12.9	G 0.15	

Residuals in seconds of arc

311103	690	0.6+	0.1+	890929	675	0.9-	1.5-	891030 807	0.3+	0.0
311106	690	0.5-	1.2-	890929	675	0.9-	1.1-	891101 807	0.1+	0.3-
710513	675	0.4-	0.2-	891004	881	0.1-	0.1-	891229 801	1.2-	0.4-
710514	675	1.8-	0.2+	891004	881	0.0	0.2-	891229 801	0.8-	0.6-
710514	675	0.8-	0.1-	891005	881	0.5+	1.8+	920404 809	0.0	2.0-
710514	675	0.1+	0.6-	891005	881	1.2-	0.4+	920404 809	0.8-	2.1-
710516	675	2.1+	1.0-	891021	095	1.9-	1.6-	920404 809	(0.0	3.0-)
851022	095	0.5+	0.7-	891022	046	0.6+	0.1-	920406 809	0.7-	2.1-
851109	095	(0.6-	2.9-)	891022	046	1.5+	1.0-	920406 809	1.0-	1.7-
851111	095	0.4+	1.1-	891023	046	2.4+	0.1+	920406 809	(1.0-	2.6-)
851114	054	0.5+	0.3+	891023	046	2.1+	0.0	920423 809	0.9-	0.9+
851115	054	0.4-	0.9+	891024	046	1.7+	0.2-	920423 809	0.9-	1.1+
851115	054	0.0	0.5+	891024	046	1.4+	0.6-	920423 809	1.2+	1.2-
851120	095	(0.2+ | 13.6+)	891025	095	(2.2- | 4.1+)	920425 809	0.6+	0.5+
890927	675	1.4-	0.7-	891025	095	1.2-	2.4+	920425 809	1.1+	0.5+
890928	675	0.9-	1.4-	891028	046	0.9-	0.2+	920425 809	1.0+	0.7+
890928	675	0.9-	1.2-	891028	046	0.5+	1.3+			

(5322)* 1986 QB1 = 1972 TW6 = 1975 HC = 1982 VM = 1984 DE2

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

Id. D. W. E. Green (MPC 12133), S. Nakano (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	147.34304	(2000.0)	P	Q
n	0.20368111	Peri. 204.37418	-0.13087789	+0.99019326
a	2.8608969	Node 58.13906	-0.89988369	-0.09796658
e	0.0083306	Incl. 3.29859	-0.41602923	-0.09959847
P	4.84	H 12.2	G 0.15	

Residuals in seconds of arc

721006	095	(1.0-	3.9-)	821114	381	0.8-	0.4+	860826 809	1.9-	0.5+
750420	805	0.5-	0.3+	821114	046	0.7-	0.9-	860826 809	1.7-	0.5+
821111	046	0.8-	0.6-	821114	046	1.0+	1.0+	860826 809	1.6-	0.3+
821111	046	0.8+	0.4-	821116	046	1.4-	0.2-	860827 809	1.1-	1.2+
821112	095	0.6+	0.5-	821116	046	1.1-	1.6+	860827 809	1.1-	0.9+
821114	381	0.9+	0.1+	840226	095	(4.6+	2.6+)	860827 809	1.0-	0.8+

860829 809 0.1+ 0.9+ 860906 809 0.1- 0.0 860914 809 (2.1- 1.6+)
860829 809 0.1- 0.9+ 860906 809 0.1+ 0.1+ 871123 801 0.1- 1.5+
860829 809 0.2- 0.8+ 860906 809 0.2+ 0.1+ 871125 400 1.3+ 0.7-
860901 809 1.0+ 0.2+ 860906 809 1.0+ 0.1+ 871125 400 (3.2+ 2.0-)
860901 809 0.8+ 0.0 860906 809 1.0+ 0.0 910807 675 0.5- 1.6-
860901 809 0.6+ 0.4- 860906 809 0.7+ 0.0 910808 675 0.3- 0.1-
860902 809 1.2+ 0.4+ 860907 809 0.8- 0.4- 910812 808 (3.0- 1.2-)
860902 809 1.3+ 0.3+ 860907 809 0.9- 0.0 910812 808 (3.5- 1.9-)
860902 809 1.6+ 0.6+ 860907 809 0.5- 0.4- 910814 808 (2.2- 1.8-)
860903 809 0.6+ 0.0 860907 809 0.2- 0.1+ 910814 808 0.3+ 0.3-
860903 809 0.5+ 0.1- 860907 809 0.1- 0.1+ 910909 801 0.4+ 0.4+
860903 809 1.2+ 0.1+ 860907 809 0.1- 0.0 910909 801 0.4+ 0.4+
860904 809 1.5+ 0.0 860908 095 0.5- 1.7- 910912 801 0.4- 0.1-
860904 809 1.4+ 0.3- 860909 809 0.5- 0.3- 910912 801 0.4- 0.0
860904 809 1.7+ 0.1- 860909 809 0.6- 0.3- 910914 675 1.4+ 0.4-
860905 809 0.5+ 0.5- 860909 809 0.5- 0.5- 910914 675 0.4+ 0.1-
860905 809 0.4+ 0.3- 860911 809 1.7- 1.1+ 910915 675 0.6- 0.8-
860905 809 0.4+ 0.5- 860911 809 1.5- 1.0+ 910915 675 0.3- 1.1-
860905 809 0.6+ 0.1- 860911 809 1.5- 1.2+ 910917 675 0.4- 1.1-
860905 809 0.4+ 0.3- 860914 809 (2.0- 1.7+) 910917 675 0.1- 1.1-
860905 809 0.3+ 0.4- 860914 809 (2.1- 1.7+)

(5323)* 1986 TL4 = 1979 YC9 = 1980 BY5

Discovered 1986 Oct. 13 by P. Jensen at Brorfelde.

Id. C. M. Bardwell (MPC 11436)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	177.68063	(2000.0)	P	Q
n	0.26546223	Peri. 346.77538	+0.66084493	-0.74878006
a	2.3977334	Node 61.83437	+0.69375921	+0.58346523
e	0.1996164	Incl. 3.32369	+0.28632523	+0.31447853
P	3.71	H 14.1	G 0.15	

Residuals in seconds of arc

791224 095 0.8+ 0.3+ 901116 801 0.1- 0.3- 920406 809 0.6- 0.1-
800123 095 0.3+ 1.4+ 901116 801 0.4+ 0.2- 920406 809 0.3+ 0.7-
810508 675 0.5- 0.4- 901213 801 0.3- 0.7- 920406 809 0.5+ 1.2-
810509 675 1.4- 0.0 901213 801 0.5- 0.7- 920427 691 0.2+ 0.0
861013 054 0.7- 1.0- 901215 801 0.2- 0.3- 920427 691 0.2- 0.8+
861029 054 1.9+ 1.1- 901215 801 0.4- 0.2- 920427 691 0.3- 0.4+
861102 054 0.7- 1.6- 920404 809 1.1+ 1.5- 920507 691 0.4- 0.7+
861104 095 0.3+ 1.5+ 920404 809 0.8- 1.6- 920507 691 0.6- 1.0+
861106 054 0.7+ 0.5- 920404 809 0.8+ 2.5-

(5324)* 1987 SL

Discovered 1987 Sept. 22 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	347.64763	(2000.0)	P	Q
n	0.19351254	Peri. 320.16478	+0.69043468	+0.72230159
a	2.9602608	Node 353.15447	-0.54910933	+0.48752247
e	0.6147462	Incl. 19.48290	-0.47093407	+0.49051225
P	5.09	H 14.1	G 0.15	

Residuals in seconds of arc

870919 688 (2.4- 2.7-) 870929 688 1.6+ 1.0+ 871016 691 0.1+ 0.4-
870922 095 1.8- 0.3+ 871002 675 0.1- 0.2- 871018 675 0.0 0.0
870925 675 1.0- 0.1+ 871002 675 0.9- 0.5+ 871019 801 0.1- 0.1-
870925 675 0.7- 0.0 871015 095 0.0 1.8+ 871020 675 0.4+ 1.5-
870925 095 0.5+ 0.4- 871015 095 (3.2- 0.5-) 871020 657 (1.4- 2.3-)
870926 095 (3.7+ 1.4-) 871016 691 0.1- 0.5- 871022 657 (0.7+ 2.6-)
870929 688 1.6+ 1.3+ 871016 691 0.1+ 0.2- 871120 801 0.9- 1.1-

871122	675	0.7+	0.6-	880207	675	0.8-	0.1-	920530	474	0.1+	0.2-
871222	691	0.3+	0.6+	880207	675	1.0-	0.2+	920530	474	0.1-	0.2+
871222	691	0.5+	1.0+	880306	675	0.3-	0.3-	920619	413	0.5+	0.2+
871222	691	0.2+	0.6+	880306	675	0.2-	0.9-	920619	413	0.4+	0.1+
880112	688	0.8-	0.6-	880306	675	0.5-	0.5+	920730	413	0.4+	0.4+
880112	688	0.8-	0.8-	880306	675	0.9+	0.3-	920805	413	0.8-	0.3+
880115	691	0.1+	1.0+	920430	474	0.2+	0.4+	920805	413	0.9-	0.3+
880115	691	0.0	0.9+	920430	474	0.1-	0.7+	920820	413	0.0	0.5-
880115	691	0.6+	1.1+	920502	474	1.0+	0.3+	920820	413	0.2-	0.1-
880206	675	0.3-	0.0	920502	474	0.4+	0.3-	920821	413	0.0	0.4-
880206	675	0.8-	0.7-	920503	413	0.6+	1.0+	920821	413	0.1-	0.5-
880206	675	0.7-	0.2+	920524	413	0.1+	0.0				
880207	675	0.4-	0.2-	920524	413	0.1+	0.0				

(5325)* 1988 JQ = 1981 OJ

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

Id. B. G. Marsden (MPC 17960), G. V. Williams (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	42.25146		(2000.0)	P	Q
n	0.27110793	Peri.	119.82618	-0.20682884	+0.93736500
a	2.3643290	Node	135.26173	-0.97724108	-0.18412637
e	0.2176779	Incl.	23.46750	-0.04713493	-0.29570988
P	3.64	H	12.4	G 0.15	

Residuals in seconds of arc

810726	688	0.4+	0.8+	880619	675	0.1+	1.3-	910214	675	1.5+	1.0-
810726	688	0.1-	1.2+	880621	688	0.4-	1.7-	910214	675	1.2+	1.6-
880512	675	0.4+	0.1-	880621	688	0.6-	0.3-	910219	675	0.5-	1.1+
880515	675	0.4+	1.3+	910118	675	1.8-	1.4-	910219	675	1.1+	0.2+
880608	675	2.0-	0.0	910118	675	1.5-	0.6-	920726	801	0.3+	0.9-
880610	675	0.1-	0.3+	910122	675	0.5-	0.4-	920726	801	0.3+	0.9-
880612	675	0.1+	0.6-	910122	675	0.3-	0.1+	920728	801	0.2+	1.0-
880616	675	0.5+	0.7+	910207	675	0.2+	1.3-	920728	801	0.3+	0.9-
880616	675	(1.6-	3.1+)	910208	675	0.1+	0.1+	920825	801	0.5-	1.0-
880619	675	1.0+	0.0	910211	675	0.8+	0.2+	920825	801	0.2-	0.6-

(5326)* 1988 RT6 = 1971 HV = 1979 HT5

Discovered 1988 Sept. 8 by H. Debehogne at the European Southern Observatory.

Id. C. M. Bardwell (MPC 15417)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	18.21487		(2000.0)	P	Q
n	0.24327719	Peri.	122.79098	+0.40864290	+0.91180555
a	2.5413733	Node	171.04916	-0.89978613	+0.40986539
e	0.1249503	Incl.	15.00016	-0.15295716	+0.02491986
P	4.05	H	12.9	G 0.15	

Residuals in seconds of arc

710427	095	1.7+	0.3-	880912	809	0.4+	0.9+	880920	809	0.4-	0.5-
790428	095	2.8-	2.8+	880914	809	0.2-	0.4+	880920	809	0.3-	0.6-
880908	809	0.2-	0.1+	880914	809	0.0	0.7+	880920	809	0.2-	0.7-
880908	809	0.2+	0.0	880914	809	0.0	0.5+	881104	807	1.1+	0.6+
880908	809	0.3+	0.1+	880915	809	0.1+	0.4+	881106	807	0.1+	1.4+
880909	809	0.3+	0.2+	880915	809	0.2+	0.5+	910313	801	0.6-	0.1-
880909	809	0.5+	0.2+	880915	809	0.2+	0.5+	910313	801	0.5-	0.1+
880909	809	0.8+	0.1+	880916	675	1.0-	1.6-	910317	801	0.1-	0.1+
880910	675	0.1+	0.2-	880916	675	1.1-	1.6-	910317	801	0.2-	0.3-
880912	675	1.1-	0.8-	880918	809	0.4-	0.1-	910412	801	0.2+	0.2-
880912	809	0.3+	1.0+	880918	809	0.1+	0.1-	910412	801	0.3+	0.0
880912	809	0.4+	0.9+	880918	809	0.1+	0.1+	910419	801	1.2+	0.7-

910419 801 1.0+ 0.7- 920729 801 0.1- 0.1+ 920806 675 0.7- 1.1-
920726 801 0.2- 0.1- 920729 801 0.2- 0.3+ 920830 801 0.4+ 0.1+
920726 801 0.2- 0.2- 920806 675 0.0 1.2- 920830 801 0.8+ 0.3+

(5327)* 1989 EX1 = 1950 LB = 1950 LP = 1979 OB13
Discovered 1989 Mar. 5 by Z. Vavrova at Klet.
Id. D. W. E. Green (MPC 15252), B. Potter (d, MPC 491)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	282.48637	(2000.0)	P	Q
n	0.27501157	Peri. 82.33693	-0.75917626	+0.64072150
a	2.3419021	Node 137.41156	-0.64373564	-0.71309415
e	0.1622011	Incl. 9.74753	-0.09620722	-0.28455699
P	3.58	H 13.6	G 0.15	

Residuals in seconds of arc
500604 024 (5.2+ 4.8-) 890212 809 0.3+ 0.3+ 890302 809 0.2- 0.8+
500607 760 0.2+ 1.8+ 890214 809 0.0 0.6+ 890302 809 0.3- 0.8+
500607 760 0.4- 2.9- 890214 809 0.1- 0.6+ 890303 809 0.4- 0.1-
790726 675 1.0- 1.8+ 890217 809 0.3- 0.4- 890303 809 0.2- 0.0
790727 675 0.3+ 0.4+ 890217 809 0.3- 0.3- 890303 809 0.0 0.1+
890207 809 0.6- 0.5- 890217 809 0.4- 0.2- 890305 046 (2.2+ 1.5-)
890207 809 0.0 0.4- 890218 809 0.1+ 0.2+ 890305 046 (2.9+ 2.7-)
890207 809 0.1+ 0.3- 890218 809 0.1+ 0.1+ 890306 046 1.7+ 1.0-
890208 809 0.7- 0.5- 890223 809 0.0 0.5+ 890306 046 (2.3+ 2.4-)
890208 809 0.6- 0.6- 890223 809 0.4+ 0.6+ 890307 046 (2.9+ 1.3-)
890208 809 0.3- 0.6- 890224 809 0.1+ 0.5+ 890307 046 1.7+ 1.6-
890209 809 0.8- 0.4- 890224 809 0.3+ 0.4+ 900827 675 0.3- 0.7-
890209 809 0.2- 0.4- 890226 809 0.4+ 0.4+ 900827 675 0.4- 0.6-
890209 809 0.0 0.4- 890226 809 0.4+ 0.5+ 900916 675 0.2+ 1.8+
890210 809 0.4- 0.6+ 890226 809 0.8+ 0.8+ 900916 675 1.4+ 1.0+
890210 809 0.1- 0.2+ 890228 809 0.1+ 0.2+ 900917 675 0.4- 0.2-
890210 809 0.3- 0.3+ 890228 809 0.2+ 0.5+ 900917 675 0.7+ 0.1-
890212 809 0.2- 0.1- 890228 809 0.3+ 0.5+ 900920 675 0.2+ 0.7-
890212 809 0.1+ 0.3+ 890302 809 0.0 0.5+ 900920 675 1.0- 0.4+

(5328)* 1989 UH1 = 1978 YP1 = 1980 GO1
Discovered 1989 Oct. 26 by S. Ueda and H. Kaneda at Kushiro.
Id. E. Bowell (k, MPC 18118), G. V. Williams (ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	271.56510	(2000.0)	P	Q
n	0.26374607	Peri. 162.12287	+0.93926780	-0.33516862
a	2.4081233	Node 217.71830	+0.29831190	+0.90361376
e	0.1428394	Incl. 6.92316	+0.16966442	+0.26672863
P	3.74	H 13.4	G 0.15	

Residuals in seconds of arc
781222 095 0.2+ 1.8- 891029 399 (2.4+ 2.2+) 891125 399 (3.0+ 0.5-)
800408 675 0.4+ 0.4+ 891102 391 1.4- 1.8+ 891125 399 0.3+ 1.0+
800409 675 0.1- 1.7+ 891102 391 (1.5- 2.7+) 891203 399 0.7- 1.7-
891024 095 0.3- 0.7- 891104 391 1.5+ 0.9+ 891203 399 (2.2- 1.5-)
891024 095 0.4+ 1.9+ 891104 391 1.2+ 0.5- 920629 801 0.7+ 0.1-
891026 399 0.8- 0.5+ 891107 391 0.4+ 0.1+ 920629 801 1.0+ 0.6-
891026 399 1.3- 0.4+ 891107 391 (1.3- 2.5-) 920703 801 0.3- 0.5-
891026 399 1.3- 0.9- 891107 391 (3.1- 2.1+) 920703 801 0.3- 0.1-
891026 095 1.0+ 1.5- 891120 399 1.9- 0.3+ 920729 801 1.1- 0.8-
891026 095 (0.1- 3.6-) 891120 399 0.4- 0.3+ 920729 801 0.4- 0.0
891029 399 0.5+ 1.3+ 891120 399 (2.7- 0.3+) 920731 801 0.4+ 1.3+
891029 399 0.5+ 0.1- 891125 399 1.6+ 0.8-

(5329)* 1989 YP = 1927 DA = 1978 EF5 = 1982 DR
Discovered 1989 Dec. 21 by R. H. McNaught at Siding Spring.

Id. B. G. Marsden (MPC 16031)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	240.08843	(2000.0)	P	Q
n	0.23416248	Peri. 256.31577	+0.76537594	-0.62771228
a	2.6069008	Node 142.27529	+0.64274624	+0.73427599
e	0.2682314	Incl. 13.42373	+0.03281679	+0.25848805
P	4.21	H 12.5	G 0.15	

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

270223	024(0.24+	0.04-)X	820228	688	1.0+	2.1-	891226	413	1.0+	0.3-
780306	095 (3.6-	0.1+)	860205	675	1.0-	1.2+	891226	413	1.4+	0.9-
790715	413	0.3- 0.3+	860205	675	1.2-	1.5+	900103	413	1.4+	1.7-
790716	413	0.1+ 0.2+	860206	675	0.2+	0.4+	920703	413	0.1+	0.4+
790718	413	0.1+ 0.0	860206	675	1.0-	1.3+	920703	413	0.1+	0.5+
800803	675	0.4- 0.3+	860207	675	1.4-	2.1+	920704	413	0.2-	0.3+
800805	675	0.2+ 0.3-	860207	675	0.9-	1.8+	920704	413	0.2-	0.3+
820221	688	1.8+ 2.2-	870310	413	0.1-	0.1+	920822	413	0.4+	0.1+
820221	688	0.3+ 0.6-	891221	413	0.3-	0.4-	920822	413	0.3+	0.1+
820228	688	0.0 1.9-	891221	413	1.4-	1.6+				

(5330)* 1990 BQ1 = 1951 RD2

Discovered 1990 Jan. 21 by A. Sugie at the Dynic Astronomical Observatory.

Id. C. M. Bardwell (MPC 17209)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

M	347.88397	(2000.0)	P	Q
n	0.21459347	Peri. 20.94128	+0.80818633	+0.39296225
a	2.7630689	Node 307.90502	-0.58768514	+0.48978407
e	0.1578829	Incl. 33.77535	-0.03822348	+0.77826232
P	4.59	H 11.7	G 0.15	

Residuals in seconds of arc

510910	675	0.1+ 0.3-	910508	474	0.6+	0.3+	920730	596	1.8-	0.8+
510910	675	1.8- 2.7+	910508	474	0.1+	0.3+	920731	675	0.4-	1.4-
900121	402 (5.1+	1.5+)	920629	801	0.2-	0.1+	920731	675	0.5-	1.1-
900121	402	0.9+ 1.2+	920629	801	0.5-	0.5-	920731	596	0.9-	1.2+
900201	402	1.9+ 0.6+	920701	801	0.3-	0.7-	920731	596	0.6+	1.0+
900201	402 (1.1+	3.4+)	920701	801	0.3-	0.1+	920731	596	0.8-	0.4+
900202	402	0.7+ 0.8+	920722	104	0.6+	2.5+	920731	596	0.3+	0.4-
900202	402	0.8- 1.3-	920722	104	0.1+	1.0+	920802	675	0.7-	0.9-
900216	402	1.0- 1.3-	920726	801	0.6-	1.3-	920802	675	0.0	1.2-
900216	402	0.4+ 0.8+	920726	801	0.6-	1.2-	920806	675	0.3-	0.9-
900322	801	0.2- 0.5+	920728	801	1.0-	0.6-	920806	675	0.1-	0.3-
900322	801	0.1- 0.6+	920728	801	1.0-	0.8-	920824	801	0.0	0.2-
900327	801	0.2- 0.3+	920729	104	2.0+	1.0+	920824	801	0.2-	0.2-
910312	474	0.0 0.2-	920729	104	1.8+	1.2+	920826	801	0.1-	0.4-
910312	474	0.4- 0.1+	920730	596	0.3+	2.3+	920826	801	0.1-	0.5-
910414	474	0.8+ 0.6+	920730	104	(3.1+	0.7+)	920831	801	0.3-	0.2-
910414	474	0.5+ 0.7+	920730	596	0.1+	1.2+	920831	801	0.3-	0.3-
910416	474	0.1+ 0.1-	920730	104	2.5+	0.7+				
910416	474	0.5+ 0.2+	920730	596	1.4+	0.8+				

(5331)* 1990 BT1 = 1984 YY2

Discovered 1990 Jan. 27 by K. Endate and K. Watanabe at Kitami.

Id. B. G. Marsden (MPC 16240)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	249.76438	(2000.0)	P	Q
n	0.21417989	Peri. 282.12895	+0.82104783	-0.53611584
a	2.7666247	Node 110.58740	+0.57035290	+0.75592485
e	0.3882298	Incl. 12.09256	+0.02404203	+0.37570923
P	4.60	H 12.0	G 0.15	

Residuals in seconds of arc

841223	095	1.1+	1.3-	900222	046	1.1-	0.5+	910412	801	0.5+	0.3+
841227	095	(15.8-	10.8+)	900326	801	0.4-	0.3-	910516	801	0.3+	0.8+
841230	095	1.4-	2.4+	900326	801	0.7-	0.3-	910516	801	0.0	0.5+
900127	400	2.3+	0.5+	900328	801	0.3-	0.4-	910517	801	0.6+	0.4+
900127	400	0.8+	1.8-	900328	801	0.4-	0.9-	910517	801	0.2-	0.7+
900131	400	2.1+	1.2+	900424	801	0.6+	1.6-	910614	801	0.5+	0.2+
900131	400	(2.2+	3.7+)	900424	801	0.4-	0.7-	910614	801	0.6+	0.1+
900214	400	0.4-	1.9-	910317	801	0.0	0.3+	920603	801	1.1+	1.5-
900214	400	(0.5-	3.4-)	910317	801	0.1-	0.0	920629	801	1.0-	0.5+
900221	046	2.5-	1.9+	910320	801	0.0	0.2-	920629	801	0.5-	0.1+
900221	046	0.2+	0.6+	910320	801	0.4-	0.2-				
900222	046	0.5-	0.4-	910412	801	0.1-	0.3+				

(5332)* 1990 DA

Discovered 1990 Feb. 16 by A. Sugie at the Dynic Astronomical Observatory.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	285.90244		(2000.0)	P	Q
n	0.30952705	Peri.	305.52056	-0.02571246	-0.96610049
a	2.1643973	Node	143.25010	+0.99831839	-0.03817049
e	0.4556777	Incl.	25.42553	+0.05195448	+0.25532893
P	3.18	H	13.7	G 0.15	

Residuals in seconds of arc

731018	413	0.1+	0.7-	900221	385	0.6-	1.0+	900317	046	1.1+	0.0
731021	413	0.1-	0.9-	900221	402	0.5-	0.1-	900317	046	0.6+	0.0
790920	413	1.5-	1.0-	900221	385	0.1-	0.1-	900318	046	1.4+	0.1-
900130	675	1.2-	1.6+	900221	402	0.3-	0.2-	900318	046	1.1+	1.1-
900130	675	0.9-	0.5-	900221	898	1.2+	1.0-	900319	046	1.3+	0.4-
900216	402	0.1+	0.9+	900221	898	(1.5-	2.2-)	900319	046	1.0+	0.6-
900216	402	0.2-	0.5+	900221	898	0.6-	0.7-	900321	402	1.2+	0.8+
900217	402	0.7-	0.7+	900222	568	0.2+	0.1-	900321	402	0.7-	0.0
900217	402	0.6+	0.3-	900223	675	0.2+	0.6-	900322	801	0.7-	0.4+
900217	402	0.3+	1.1+	900223	675	0.5-	1.2-	900322	801	0.7-	0.5+
900217	402	0.2+	0.7+	900223	657	(1.6-	4.2-)	900322	675	0.0	0.2+
900217	402	0.2-	0.4+	900223	657	0.0	1.9-	900322	675	0.6-	0.1+
900219	413	0.2+	0.6-	900224	391	(1.4-	3.7-)	900323	801	1.1-	0.1-
900219	413	0.5+	1.7-	900224	391	0.2-	0.7-	900323	801	0.9-	0.1-
900219	413	0.5+	1.4-	900227	402	0.4+	1.4+	900324	675	0.8+	0.6+
900220	385	1.1-	1.8-	900227	402	0.5-	0.3-	900324	675	2.0+	1.4+
900220	385	0.6-	0.4+	900228	685	0.7+	0.2+	900428	801	0.3-	0.2+
900220	881	(1.1-	2.6-)	900228	685	1.1+	0.1-	900428	801	0.6-	0.3+
900220	896	0.1+	0.1+	900302	657	0.5-	0.1+	900528	801	0.5+	0.7-
900220	881	1.1-	0.4+	900302	657	0.9-	1.4-	900528	801	0.2+	0.1-
900220	896	0.5+	0.3-	900304	402	0.9+	0.8+	920726	801	0.4+	0.4-
900220	898	0.7-	0.1-	900304	402	0.3-	0.8+	920726	801	0.0	0.4-
900220	887	0.5-	0.2-	900312	568	(0.1-	2.6+)	920727	658	1.0-	0.6-
900220	898	(0.9-	3.0-)	900313	046	0.9-	1.3-	920727	658	1.1-	0.7-
900220	887	0.1-	0.7+	900313	046	0.5-	0.0	920727	658	0.9-	0.4-
900220	898	0.5-	0.6+	900315	046	1.0+	1.2-	920821	413	0.5+	0.4-
900220	374	1.3+	0.2-	900315	046	1.6+	0.5-	920821	413	0.6+	0.3-
900220	374	0.6+	0.0	900316	046	1.1+	0.4-	920822	413	1.0+	0.9-
900220	374	0.2-	0.4+	900316	046	(2.6+	0.5+)	920822	413	1.0+	0.9-

(5333)* 1990 UH = 1974 HC2 = 1979 SJ2 = 1981 EJ49 = 1985 JE2

Discovered 1990 Oct. 18 by M. Akiyama and T. Furuta at Susono. Id. S. Nakano (MPC 17455)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	57.18957	(2000.0)	P	Q
n	0.27442159	Peri. 308.90498	-0.91763294	-0.38677888
a	2.3452575	Node 208.68301	+0.39728371	-0.88649993
e	0.1674359	Incl. 10.97657	+0.01074399	-0.25400784
P	3.59	H 13.2	G 0.15	

Residuals in seconds of arc

541022	760	1.8-	0.2+	901018	886	1.0-	1.9+	920421 894	0.2+	1.4+
541022	760	1.2-	2.2+	901020	886	1.3-	1.4-	920421 894	0.4-	0.4+
740424	805	(8.9- | 5.7-)	901020	886	(3.2- | 0.5+)	920423 809	0.4-	1.9+
740424	805	1.7+	0.2-	901021	886	1.9-	0.4+	920423 809	0.7-	1.4+
740425	805	0.3+	1.4-	901021	886	0.1+	0.9+	920423 809	0.8-	1.1+
790922	095	(0.3+	5.2-)	901024	886	2.4+	2.0-	920425 809	0.6+	1.4+
790928	095	1.1+	0.8+	901024	886	1.5+	1.1-	920425 809	1.1+	0.9+
810308	095	0.4+	2.1+	920404	809	0.5+	1.7-	920425 809	0.7+	1.1+
850514	675	(1.8-	4.7-)	920404	809	0.0	0.9-	920501 886	1.6-	2.3+
901011	033	0.5+	0.7+	920404	809	0.3+	1.6-	920501 886	1.1-	2.2+
901012	033	0.9+	0.7+	920406	809	0.3+	1.2-	920527 886	0.2-	0.7-
901012	033	0.6+	0.7+	920406	809	0.3+	1.7-	920527 886	0.2-	1.0-
901018	886	0.8-	0.9+	920406	809	0.3-	1.6-			

(5334)* 1991 CF = A924 TD = 1971 KE1 = 1981 FJ1 = 1981 GL = 1989 TR13

Discovered 1991 Feb. 8 by M. Akiyama and T. Furuta at Susono.

Id. G. V. Williams (MPC 19308; unpublished)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	78.26675	(2000.0)	P	Q
n	0.28897762	Peri. 54.72350	-0.70058787	+0.71326230
a	2.2658261	Node 170.71382	-0.68941222	-0.66905747
e	0.1252403	Incl. 7.41359	-0.18408537	-0.20885158
P	3.41	H 12.8	G 0.15	

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

241003	024(0.04+ | 0.02-)X	910212	886	1.4-	1.2+ Y	920730 801	0.6-	0.4-
710522	095	0.3-	0.6+	910212	886	1.5+	2.0- Y	920730 801	0.4-	0.4-
810329	095	(4.8- | 1.3+)	910216	886	(1.8+ | 3.3+)Y	920802 801	0.4-	0.7-
810405	688	0.3+	2.2-	910216	886	(3.6+	2.8+)Y	920802 801	0.5-	0.6-
810405	688	(0.3-	4.0-)	910221	886	1.9-	0.1+	920803 801	0.7-	0.5-
891003	809	0.5-	0.5-	910221	886	(4.1-	1.5+)	920803 801	0.6-	0.5-
891003	809	0.2+	0.1+	910307	809	0.7-	0.2-	920825 801	0.8+	0.1+
891003	809	0.8+	0.3-	910307	809	0.1+	0.4-	920825 801	0.9+	0.5-
910208	886	(0.2-	3.5-)Y	910307	809	0.8+	0.4-	920830 801	1.1+	0.6-
910208	886	0.4+	1.0+ Y	910309	809	0.1+	0.2-	920830 801	1.1+	0.5-
910209	886	0.7-	0.1-	910309	809	0.4+	0.2-			
910209	886	0.7-	1.5-	910309	809	0.6+	0.1-			

(5335)* 1991 DA

Discovered 1991 Feb. 18 by R. H. McNaught at Siding Spring.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	13.75687	(2000.0)	P	Q
n	0.02407108	Peri. 191.26613	-0.74872526	-0.19584879
a	11.8797038	Node 314.10977	+0.65581603	-0.07974975
e	0.8670480	Incl. 61.88547	+0.09651845	-0.97738592
P	40.95	H 13.3	G 0.15	

Residuals in seconds of arc

910218	413	0.8-	0.6-	910223	413	0.6+	0.3-	910314 413	0.2+	0.7-
910218	413	1.4-	0.4-	910223	413	(2.9+	1.0+)	910314 413	0.7-	0.5-
910219	413	0.8+	0.0	910224	413	1.3-	0.4-	910314 413	0.1+	0.4-
910219	413	1.3+	0.5+	910225	413	0.6+	1.0+	910314 413	0.8-	0.3-
910220	413	0.2+	0.4-	910311	474	1.3-	1.8+	910315 474	(0.5-	2.4+)
910222	413	0.9+	0.5-	910311	474	0.5+	0.7+	910315 474	0.5+	1.0+

910317	413	1.6+	0.4-	910505	413	0.3+	0.6+	920821	413	0.2-	0.3-
910317	413	0.9+	0.3+	910508	474	0.5+	0.8-	920821	413	0.2-	0.3-
910317	413	1.5+	0.2-	910508	474	1.1+	0.1+	920822	413	0.3+	0.3+
910320	413	0.9+	0.5-	910513	413	1.1-	0.1-	920822	413	0.6+	0.1+
910324	413	0.6-	0.3+	920703	413	0.1-	0.2+	920822	413	0.2+	0.1-
910403	413	0.5-	0.0	920703	413	0.1-	0.0	920822	413	0.3-	0.4-
910405	413	0.4-	0.0	920703	413	0.1-	0.0	920822	413	0.2-	0.5+
910406	413	0.8-	0.5-	920703	413	0.4-	0.2+	920822	413	0.3+	0.0
910411	413	0.3-	1.3+	920703	413	0.3+	0.2-	920822	413	0.5+	0.6+
910415	413	0.3-	0.3+	920821	413	0.1-	0.4-				
910504	413	1.8-	0.2-	920821	413	1.1-	0.3-				

(5336)* 1991 JE1 = 1969 LD = 1974 EJ = 1976 SQ4 = 1980 KB1 = 1987 SM6 = 1990 BH2

Discovered 1991 May 7 by N. Kawasato at Uenohara.

Id. S. Nakano (MPC 18443)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	58.37718	(2000.0)	P	Q
n	0.17824915	Peri. 65.37252	-0.43345552	+0.90116737
a	3.1269270	Node 178.91925	-0.88139088	-0.42308053
e	0.1320631	Incl. 11.31142	-0.18779361	-0.09434106
P	5.53	H 11.7	G 0.15	

Residuals in seconds of arc

690606	095	0.3-	0.5+	910507	376	(0.8+	4.0+)	920806	675	0.7-	0.3-
740313	095	0.1+	2.5-	910514	376	1.0+	1.8-	920806	675	0.2+	0.1+
760924	095	2.0+	2.1-	910514	376	(0.4-	2.9-)	920807	675	0.1-	0.7-
760929	095	(4.9+	1.7-)	910518	376	0.3-	0.9-	920807	675	1.3-	1.1-
800517	095	1.8-	2.0-	910518	376	0.8+	0.8-	920807	675	0.3+	0.9-
870917	095	0.6+	2.4-	920727	376	(1.5+	3.4+)	920807	675	0.7-	0.8-
870921	046	0.7+	2.2-	920727	376	0.6-	1.0+	920822	376	0.1+	0.6+
870921	046	(0.7-	3.7-)	920728	801	0.1+	0.2-	920822	376	0.0	0.1-
900121	675	0.9-	2.2-	920728	801	0.2+	0.3-	920825	801	0.2+	0.1-
900121	675	1.3-	1.1-	920731	801	0.3+	0.1+	920825	801	0.1+	0.0
900124	675	0.4-	1.8-	920731	801	0.2+	0.1+	920830	801	1.2+	0.4-
900124	675	0.0	2.4-	920806	675	0.4+	1.1-				
910507	376	(22.3-	12.5+)	920806	675	0.2-	0.9-				

(5337)* 1991 LD = 1972 AL = 1978 CN = 1978 ED4 = 1980 OL = 1981 UP13 = 1982 YX2 = 1985 JZ1 = 1987 SR25 = 1990 FP3

Discovered 1991 June 6 by S. Otomo and O. Muramatsu at Kiyosato.

Id. H. Kaneda (MPC 18640)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	77.99203	(2000.0)	P	Q
n	0.17084532	Peri. 0.43341	-0.50759894	+0.85632512
a	3.2166267	Node 239.06522	-0.79082991	-0.50688318
e	0.0735539	Incl. 6.36786	-0.34195229	-0.09887737
P	5.77	H 11.6	G 0.15	

Residuals in seconds of arc

510730	675	0.4-	0.5+	811023	095	1.2+	1.5-	910606	894	0.6+	0.3-
510730	675	0.2-	0.5+	821222	095	0.7-	0.2-	910611	894	0.3-	0.1+
720114	029	0.9+	0.2-	850514	675	0.4+	0.4+	910611	894	0.4+	0.4+
720115	029	0.4-	0.1-	850515	675	1.5-	0.1-	910617	894	0.1+	0.1-
720116	029	0.5-	0.7-	850523	095	0.5-	1.9-	910617	894	0.7-	0.2+
720117	029	0.5-	1.1-	870924	095	2.2-	1.0+	910617	894	1.4-	1.8-
780201	330	1.8+	1.7-	900320	095	(6.1-	2.9+)	910708	894	0.2+	0.3-
780306	095	0.7-	0.3+	900320	095	(5.7-	0.5-)	910708	894	1.4+	0.6+
800721	095	0.7+	1.3+	910606	894	(3.4-	0.7+)	910708	894	0.6-	0.3-

920802 675 0.9+ 0.5- 920806 675 0.3+ 0.5- 920831 894 0.1- 1.1-
920802 675 0.6+ 0.4+ 920825 894 0.6+ 0.3-
920806 675 0.4+ 0.7- 920825 894 0.1+ 0.9-

(5338)* 1991 RJ5 = 1981 RW6 = 1986 QL4 = 1986 RY12 = 1990 MN1
Discovered 1991 Sept. 13 by H. E. Holt at Palomar.
Id. G. V. Williams (MPC 19034), A. Lowe
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	38.29008	(2000.0)	P	Q	
n	0.20234074	Peri.	295.55658	+0.90128893	-0.42924196
a	2.8735174	Node	89.90986	+0.41551911	+0.81828645
e	0.0724930	Incl.	3.35732	+0.12256479	+0.38230697
P	4.87	H	12.4	G 0.15	

Residuals in seconds of arc
771207 675 0.0 0.2- 900625 808 0.7+ 0.3- 910913 675 0.2+ 0.4-
771208 675 0.1+ 0.4- 900628 808 0.9+ 0.0 910916 675 0.7+ 1.1-
810903 675 0.7+ 0.2- 900628 808 0.4+ 0.2- 910916 675 0.9+ 0.7-
810904 675 0.3+ 0.7- 910902 413 0.4+ 0.7+ 911107 675 0.6- 0.1-
860817 095(37.8+ 7.2-) 910902 413 0.8+ 0.9+ 911107 675 1.3- 0.1+
860909 095 2.0- 1.3+ 910903 413 0.3- 0.7+ 911109 675 0.7+ 0.5-
900625 808 2.2- 0.0 910913 675 0.8+ 0.1- 911109 675 1.7- 0.3+

(5339)* 1992 CD = 1970 JP = 1973 YH1 = 1975 EH6 = 1980 BP3 = 1990 VZ13
Discovered 1992 Feb. 4 by T. Hioki and S. Hayakawa at Okutama.
Id. G. V. Williams (MPC 20341)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	34.15352	(2000.0)	P	Q	
n	0.17340125	Peri.	165.80828	-0.79477960	-0.60667625
a	3.1849399	Node	336.81824	+0.55267365	-0.71233148
e	0.0789197	Incl.	2.38928	+0.25075331	-0.35288496
P	5.68	H	11.8	G 0.15	

Residuals in seconds of arc
700508 805 0.1+ 0.0 781129 675 0.7- 0.3+ 920208 877 0.2+ 1.0-
731220 095 1.9+ 1.4- 800122 095 1.0- 0.7+ 920208 877 0.5+ 0.5+
750308 095 1.1- 0.7- 901114 095 (3.0+ 1.7+) 920225 691 0.2- 0.2-
750315 095 (4.0- 2.4+) 901114 095 0.1+ 0.8- 920225 691 0.5- 0.1-
781027 675 0.0 0.4+ 901120 095 1.1- 0.2- 920225 691 0.1- 0.2-
781028 675 0.4- 0.9+ 901120 095 0.8+ 0.1+ 920306 691 0.6- 0.7+
781029 675 0.4- 0.5+ 920204 877 1.7+ 0.7+ 920306 691 1.2+ 0.8+
781128 675 0.1- 0.3+ 920204 877 0.1- 1.1+ 920306 691 0.1- 0.0

(5340)* 4027 P-L = 1987 SU18 = 1989 YX1
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 15903)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	62.69235	(2000.0)	P	Q	
n	0.18102576	Peri.	323.70702	-0.54550448	+0.83591895
a	3.0948703	Node	273.15948	-0.75396935	-0.52100026
e	0.1215864	Incl.	3.47575	-0.36599873	-0.17262166
P	5.44	H	12.5	G 0.15	

Residuals in seconds of arc
600924 675 0.5+ 0.7- 601026 675 0.1+ 0.5- 920728 801 0.2+ 0.2-
600925 675 0.8- 0.3+ 870916 095 1.1- 2.7+ 920730 801 0.7+ 0.4+
600926 675 0.1+ 1.1- 891230 413 0.7- 0.6- 920730 801 0.8+ 0.6+
600928 675 0.3+ 0.7- 891230 413 0.8- 0.6- 920804 675 0.2+ 0.9+
601017 675 0.7+ 0.3- 891231 413 0.5+ 0.2- 920805 675 1.9- 0.7+
601022 675 0.2- 0.3+ 891231 413 0.6+ 0.1+ 920805 675 0.5+ 0.9-
601024 675 0.0 1.0+ 920728 801 0.3+ 0.3+ 920807 675 1.3+ 0.1-

920807 675	1.2+	0.1+	920809 010	0.9+	0.3-	920825 801	0.2+	0.2+
920808 010	1.7-	0.5-	920809 010	0.6+	0.8-	920901 801	0.3-	0.5+
920808 010	2.0-	1.9-	920809 010	0.4-	1.4-			
920808 010	(3.2-	1.7-)	920825 801	0.2+	0.4+			

(5341)* 6040 P-L = 1957 WW = 1989 TD1

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

Id. H. Oishi (MPC 15570)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	318.28608	(2000.0)	P	Q	
n	0.30672029	Peri.	56.81951	+0.99979588	-0.01016776
a	2.1775813	Node	303.75732	+0.00215138	+0.91280252
e	0.2068977	Incl.	1.20328	+0.02008918	+0.40827464
P	3.21	H	14.2	G 0.15	

Residuals in seconds of arc

571126 760	0.1+	0.3+	890926 809	0.2-	0.2+	891029 888	(3.4-	4.6+)
571126 760	0.6-	0.9+	890926 809	0.7+	0.0	891104 888	2.0-	1.9+
600924 675	0.0	0.0	890926 809	1.6+	0.2+	891104 888	2.2-	1.0+
600925 675	0.3+	0.2+	891002 385	1.2-	2.1-	910313 809	0.1+	0.4+
600926 675	0.3+	0.9-	891002 385	1.3-	0.8-	910313 809	0.1-	0.7-
600928 675	0.2+	1.0-	891009 385	0.5+	0.2-	910313 809	0.1-	1.1-
601017 675	0.4-	0.3+	891009 385	0.9-	0.6+	920726 801	0.5-	0.6-
601022 675	0.2+	0.2-	891020 385	0.0	0.8-	920726 801	1.0-	0.3-
601024 675	0.2-	0.6-	891020 385	0.7-	0.6+	920729 801	0.6-	0.0
601026 675	0.7+	0.2+	891026 385	0.1-	1.2-	920729 801	0.2-	0.2-
890924 809	1.3+	0.8+	891026 385	0.2-	0.3-	920825 801	0.7+	0.5+
890924 809	2.2+	0.9+	891029 385	2.2-	0.0	920825 801	0.3+	0.2+
890924 809	(3.1+	0.8+)	891029 385	1.6+	0.3-	920827 801	0.6+	0.6+
890925 809	0.6+	0.9+	891029 385	(8.3-	0.4+)	920827 801	0.2-	0.9+
890925 809	1.4+	0.8+	891029 385	1.9+	2.2-			
890925 809	(2.7+	0.8+)	891029 888	(3.4-	2.5+)			

(5342)* 3129 T-2 = 1988 NB = 5028 T-3

Discovered 1973 Sept. 30 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Id. S. Nakano (MPC 15083)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

M	10.66449	(2000.0)	P	Q	
n	0.25513291	Peri.	105.70789	+0.05284662	+0.99703997
a	2.4620208	Node	166.93451	-0.98443482	+0.06140189
e	0.2363038	Incl.	14.30158	-0.16761658	-0.04627206
P	3.86	H	13.6	G 0.15	

Residuals in seconds of arc

730919 675	0.4+	0.5+	771012 675	0.6+	1.9-	920604 801	0.3+	0.3-
730919 675	1.0-	0.9-	771016 675	0.6-	0.0	920604 801	0.1+	0.3-
730920 675	0.1+	0.4+	771016 675	1.0-	1.1-	920719 596	0.8-	0.0
730924 675	1.3-	0.7+	771017 675	1.5-	0.7-	920719 596	0.1-	0.6+
730924 675	0.9-	0.4-	771017 675	0.8-	1.2-	920719 596	0.5-	0.1-
730925 675	2.0+	0.0	771021 675	1.2+	0.1+	920719 596	1.0-	1.1-
730925 675	2.3+	0.5-	771021 675	1.5+	0.4+	920720 596	0.4-	0.3-
730929 675	1.0-	1.7+	771022 675	1.6+	0.7-	920720 596	0.1+	0.1+
730929 675	1.0-	1.7+	880712 675	0.2-	0.8-	920720 596	0.3+	0.6-
730930 675	0.5-	1.7+	880714 675	0.8-	1.1-	920721 413	0.1+	0.1+
730930 675	0.3+	2.1+	920430 801	1.2+	0.6+	920721 589	0.3+	0.5+
771011 675	1.0-	0.5-	920430 801	0.2+	0.0	920721 589	0.6+	0.6+
771011 675	0.1+	0.2-	920530 801	0.3+	0.4-	920721 589	0.4+	0.6+
771012 675	0.7+	2.2-	920530 801	0.2+	0.3-	920721 589	0.2+	0.5+

1950 DE = 1950 BL1 = 1990 DB1 = 1990 EX5
Id. O. Kippes (d, NAZ 12, 23), R, Nagata (MPC 17423), G. V. Williams (d, MPC 17178)

Epoch 1992 June 27.0 TT = JDT 2448800.5			Marsden	
M 124.23582		(2000.0)	P	Q
n 0.17108994	Peri.	24.57302	-0.99505921	-0.03562503
a 3.2135599	Node	152.88883	+0.01408851	-0.97462658
e 0.1162603	Incl.	11.73308	+0.09827856	-0.22098390
P 5.76	H	11.0	G 0.15	

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

500125 094(0.05+ 0.06-)X	900222 220 (1.0+ 5.6-)	900303 809 0.9+ 0.0
500217 024 (4.1+ 1.4+)	900301 809 0.5- 0.4-	900304 809 0.1+ 0.7+
500223 024 (0.5- 3.6+)	900301 809 0.0 0.4-	900304 809 0.5+ 0.8+
500308 024 0.2+ 1.4-	900301 809 0.3+ 0.3-	900304 809 0.9+ 0.9+
500322 024 0.3- 0.5+	900301 095 0.4- 1.4-	920808 010 0.1+ 0.0
900216 399 0.1- 0.4-	900302 809 1.1- 0.0	920808 010 0.4+ 0.3-
900216 399 0.4- 0.6+	900302 809 0.9- 0.0	920808 010 0.2- 0.5-
900216 399 0.7- 0.1+	900302 809 0.5- 0.1-	920809 010 0.0 0.0
900221 220(0.04+ 0.00-)	900303 809 1.1+ 0.3+	920809 010 0.3- 0.3+
900221 220(0.04+ 0.00-)	900303 809 0.9+ 0.2+	920809 010 0.0 0.3+

1951 SY = 1980 TS2

Epoch 1992 June 27.0 TT = JDT 2448800.5			Williams	
M 291.43632		(2000.0)	P	Q
n 0.23679213	Peri.	199.94076	+0.98183913	-0.17912561
a 2.5875646	Node	169.75757	+0.18259511	+0.98164515
e 0.3022741	Incl.	20.57772	-0.05148730	+0.06547380
P 4.16	H	15.0	G 0.15	

Residuals in seconds of arc

510930 675 0.6- 0.4-	511005 675 1.2+ 0.4+	511222 672 0.2- 0.8-
510930 675 0.4- 0.1+	511007 675 0.2- 0.8+	801005 809 0.0 0.6+
511002 675 0.1+ 0.9-	511221 672 0.0 2.1+	920821 413 0.1+ 0.2+
511004 675 0.4- 1.2-	511222 672 0.8+ 0.4-	920821 413 0.0 0.0

1953 GN = 1991 PX1
Id. H. Kaneda (MPC 19009)

Epoch 1992 June 27.0 TT = JDT 2448800.5			Kaneda	
M 195.26288		(2000.0)	P	Q
n 0.29023960	Peri.	38.43789	-0.91399741	+0.40491506
a 2.2592534	Node	165.38430	-0.39276876	-0.86728455
e 0.1310385	Incl.	5.81018	-0.10169282	-0.28958817
P 3.40	H	14.3	G 0.15	

Residuals in seconds of arc

530407 024 0.1+ 0.5-	910810 809 (0.7+ 4.1-)	910814 809 0.3+ 1.4+
530412 024 0.9- 0.5-	910810 809 0.6- 1.0-	910913 675 1.5- 1.3-
530419 024 0.7+ 0.8+	910814 809 1.4+ 1.2+	910913 675 0.4+ 0.6-
910810 809 (7.4- 5.7-)	910814 809 0.2- 0.0	

1973 AT3 = 1981 QJ4 = 1987 SF21
Id. A. Lowe (k), G. V. Williams

Epoch 1992 June 27.0 TT = JDT 2448800.5			Williams	
M 151.22252		(2000.0)	P	Q
n 0.18258665	Peri.	224.24276	-0.99669028	+0.04855978
a 3.0772070	Node	318.40873	-0.01287169	-0.88613598
e 0.0329679	Incl.	5.63630	-0.08026703	-0.46087415
P 5.40	H	12.0	G 0.15	

Residuals in seconds of arc

730102 095 1.5- 0.5-	810830 675 0.0 0.1-	870918 095 1.6- 0.3-
730104 095 1.4+ 0.4+	810831 675 0.1+ 0.0	870926 095 1.5+ 0.4+

1973 SE1 = 1992 GU3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 300.55848 (2000.0) P Q
n 0.08527703 Peri. 262.94804 +0.26764680 +0.96307324
a 5.1118882 Node 22.64190 -0.85131319 +0.25058372
e 0.0392701 Incl. 4.35638 -0.45125496 +0.09847703
P 11.56 H 11.0 G 0.15
Residuals in seconds of arc

730919	675	0.3+	0.1-	730929	675	0.5+	1.4+	731005	675	1.0-	2.8+
730919	675	0.7-	1.4+	730930	675	1.7+	2.8-	731005	675	0.3-	0.9-
730920	675	0.1-	0.5+	730930	675	1.5+	1.6+	731005	675	2.1-	1.4+
730924	675	0.8-	0.3-	730930	675	1.0-	0.6-	920404	809	1.4+	0.8+
730924	675	0.6-	0.2+	730930	675	1.4+	1.7+	920404	809	0.1+	0.2-
730925	675	0.2+	2.8-	731004	675	1.5+	1.8-	920404	809	1.0-	0.6-
730925	675	0.4-	0.3+	731004	675	0.9-	2.1+	920406	809	0.5-	0.7-
730929	675	1.4-	0.6-	731004	675	0.8-	0.5-	920406	809	0.1-	0.5+
730929	675	2.2+	1.6-	731004	675	0.6+	1.4+	920406	809	0.1+	0.2+
730929	675	0.3-	0.5-	731005	675	0.5+	2.3-				

1974 SF = 1985 UC2 = 1985 UV3
Id. S. Nakano (MPC 12447)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 317.40648 (2000.0) P Q
n 0.27153150 Peri. 175.41964 +0.99852464 -0.05306565
a 2.3618695 Node 187.65076 +0.04666785 +0.94706045
e 0.2445089 Incl. 4.96138 +0.02776054 +0.31663945
P 3.63 H 15.0 G 0.15
Residuals in seconds of arc

740919	095	2.4-	0.9-	851017	010	(19.8-	4.6-)	851024	049	(3.5-	15.7-)
740921	808	0.8+	0.5-	851018	010	(21.0-	6.7-)	851024	049	0.7-	0.8-
740921	808	0.5+	2.1+	851018	095	0.6+	1.0+	920731	801	0.5-	1.0-
741019	808	1.3+	1.0-	851020	049	0.0	0.5-	920802	801	0.3+	0.4+
741019	808	0.0	0.4+	851020	049	0.0	0.4+	920802	801	0.3+	0.4+

1975 TM2 = 1975 VQ = 1989 YS5
Id. H. Oishi (d, JAM 1265), D. W. E. Green (MPC 15874)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 343.44463 (2000.0) P Q
n 0.29018780 Peri. 192.80980 +0.99760238 -0.06895267
a 2.2595222 Node 171.13766 +0.06640061 +0.92955286
e 0.1350409 Incl. 2.20150 +0.01950522 +0.36218368
P 3.40 H 14.0 G 0.15
Residuals in seconds of arc

751003	095	0.1-	1.6-	810508	675	0.4+	0.4-	891230	511	0.1-	0.1-
751013	095	0.6+	0.3+	810509	675	0.5-	0.4-	900104	511	0.9+	0.0
751015	675	(2.6+	1.8+)	891229	511	(1.5-	2.3+)	900104	511	0.7-	1.3-
751016	675	1.1+	0.1+	891229	511	0.0	0.1-				
751101	095	1.5-	0.8+	891230	511	0.1-	0.7+				

1976 YP1 = 1981 UU10
Id. S. Nakano
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 325.92183 (2000.0) P Q
n 0.18005582 Peri. 39.64148 +0.62153685 -0.78336167
a 3.1059749 Node 11.93418 +0.71112984 +0.56096040
e 0.1773953 Incl. 1.67291 +0.32861269 +0.26770866
P 5.47 H 12.5 G 0.15

Residuals in seconds of arc

761216	095	0.3-	0.9-		860905	809	0.9+	0.2+		860909	809	0.5-	0.4+
761218	095	0.8-	1.8-		860905	809	1.2+	0.3+		860909	809	0.6-	0.4+
761220	095	0.3-	1.3-		860906	809	0.1-	1.1-		861030	801	1.3-	0.1+
770113	095	(2.7-	4.6-)		860906	809	0.1+	1.1-		871223	801	0.0	0.8-
780315	675	0.3+	0.1-		860906	809	0.1-	1.1-		910710	809	0.1-	0.3-
780316	675	0.6+	0.3-		860907	809	0.1-	0.2-		910710	809	0.0	0.4-
811007	095	0.7-	2.5+		860907	809	0.2-	0.0		910710	809	0.1+	0.5-
811021	095	2.7+	0.9+		860907	809	0.3-	0.1+		910711	809	0.0	0.7-
811125	095	2.0-	0.8+		860908	095	0.8+	0.9-		910711	809	0.3-	0.5-
860905	809	0.7+	0.2+		860909	809	0.5-	0.3+					

1976 YC2 = 1975 WC2 = 1978 EU5 = 1981 UK23 = 1982 YD5 = 1987 XE = 1991 RE30
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	161.30641		(2000.0)	P	Q
n	0.17767739	Peri.	135.03957	-0.78620217	+0.60521102
a	3.1336316	Node	82.60786	-0.59647048	-0.69032634
e	0.0823226	Incl.	7.23677	-0.16158315	-0.39644566
P	5.55	H	11.5	G 0.15	

Residuals in seconds of arc

751124	033	0.1+	0.2-		811025	675	0.5-	0.7+		910915	675	(4.2+	1.0-)
751125	033	0.1+	0.2+		821224	095	2.2+	0.1-		910915	675	0.4+	0.8-
761216	095	0.1-	2.2-		871214	400	(3.5+	2.8-)		910915	675	0.5-	0.1-
761218	095	1.0+	1.5-		871214	400	1.8-	1.0+		910916	675	0.2+	0.7-
761220	095	0.0	0.3+		910914	675	0.5+	0.1-		910916	675	0.7+	1.0-
780306	095	1.5-	1.0-		910914	675	0.0	0.2+					
811024	675	0.6-	0.7+		910915	675	(0.4-	3.0-)					

1978 PU2 = 1992 PG
Id. B. G. Marsden, E. Bowell
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	331.57283		(2000.0)	P	Q
n	0.20953582	Peri.	197.73915	+0.96402138	+0.24773695
a	2.8073541	Node	147.42677	-0.21700336	+0.94283165
e	0.1719484	Incl.	10.31270	-0.15353283	+0.22292350
P	4.70	H	12.5	G 0.15	

Residuals in seconds of arc

780808	095	1.8-	1.3-		920805	675	0.4+	0.2+		920808	010	1.4-	0.1-
780903	095	(0.8-	5.2+)		920805	675	0.2+	0.0		920809	010	0.7-	1.3-
780928	095	1.9+	1.0+		920807	675	0.8+	0.6+		920809	010	0.4-	0.4-
920705	675	1.0+	0.6+		920807	675	0.5+	0.4+		920809	010	0.3+	1.1+
920705	675	0.9+	0.2+		920808	010	0.5-	0.6-					
920804	675	0.1+	0.4+		920808	010	1.0-	0.7-					

1978 SV7 = 1990 EM5
Id. G. V. Williams (MPC 17198)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	307.65384		(2000.0)	P	Q
n	0.20519428	Peri.	34.77769	+0.94872169	-0.31432317
a	2.8468148	Node	343.44383	+0.25664915	+0.82792907
e	0.0764890	Incl.	6.76909	+0.18454910	+0.46447218
P	4.80	H	12.5	G 0.15	

Residuals in seconds of arc

780926	095	(2.0+	6.3-)		900302	809	0.5+	0.2-		920726	801	0.1-	0.0
781002	095	1.8+	0.4-		900302	809	0.8+	0.4-		920726	801	0.2-	0.4-
781008	095	1.1-	0.7+		900302	809	1.2+	0.2-		920802	801	0.2+	0.3+
781027	675	0.6-	0.1-		900303	809	1.0-	0.4+		920802	801	0.0	0.3+
781028	675	0.1-	0.2-		900303	809	0.8-	0.3+					
781101	095	(2.2+	5.7+)		900303	809	0.6-	0.3+					

1978 TP6 = 1984 WN1
Id. A. Lowe (MPC 12325)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 116.43731		(2000.0)	P	Q
n 0.17888857	Peri.	124.97007	-0.14335202	-0.98903986
a 3.1194713	Node	333.20590	+0.88052015	-0.11114877
e 0.1979592	Incl.	4.49899	+0.45181243	-0.09719107
P 5.51	H	12.5	G 0.15	

Residuals in seconds of arc

781002 095	0.1+	0.8+	781029 675	0.7+	0.6+	841121 675	0.3-	1.6+
781008 095	0.1-	0.9-	841119 675	0.0	0.9+	841127 010	0.6+	0.1-
781027 675	0.7-	0.5-	841120 688	0.1-	1.9-	841128 010	0.5-	0.7+
781028 675	0.1-	0.1+	841120 688	0.3+	1.3-			

1978 TU8 = 1981 JC5 = 1990 EN7 = 1992 PF4
Id. E. Bowell (k), G. V. Williams, A. Lowe
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 291.95833		(2000.0)	P	Q
n 0.20045975	Peri.	177.30879	+0.84433006	-0.53558634
a 2.8914649	Node	215.08987	+0.49108912	+0.78539520
e 0.0652831	Incl.	1.58874	+0.21433206	+0.31032507
P 4.92	H	12.5	G 0.15	

Residuals in seconds of arc

781009 095	0.1+	0.3-	900303 809	0.6-	0.1-	920802 675	0.4-	0.6+
781028 675	2.0-	1.1+	900303 809	0.5-	0.0	920802 675	0.0	0.0
781029 675	0.1+	0.9+	900303 809	0.2-	0.0	920806 675	0.5+	0.7-
781101 095	1.7+	1.0-	900304 809	0.0	0.3-	920806 675	0.4+	1.4-
810508 675	1.5+	0.1-	900304 809	0.3+	0.6-			
810509 675	1.2-	1.3+	900304 809	0.3+	0.7-			

1978 UL4 = 1978 TG8 = 1991 VO4
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 71.64200		(2000.0)	P	Q
n 0.23130020	Peri.	171.46405	+0.87880003	-0.45818536
a 2.6283632	Node	216.76884	+0.42361042	+0.87769137
e 0.1969334	Incl.	12.86999	+0.21969233	+0.14044231
P 4.26	H	14.0	G 0.15	

Residuals in seconds of arc

781008 095	1.4-	1.9+	781129 675	0.3-	0.7+	911115 894	1.1-	0.4-
781027 675	0.9+	1.1-	911109 399	0.7-	0.2-	911115 894	0.6-	0.5+
781028 675	0.6+	0.9-	911109 399	1.4-	1.2-	911209 894	2.3+	0.9+
781029 675	0.8+	0.7-	911111 894	1.2+	1.1+			
781128 675	0.8-	0.5+	911111 894	0.5+	0.8-			

1978 UJ5 = 1989 YM1
Id. G. V. Williams; 1991 TR6 = 1989 YM1 (MPC 19681) is invalid (a preliminary orbit for 1991 TR6 is given on MPC 20778)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 311.52291		(2000.0)	P	Q
n 0.28240958	Peri.	104.32425	+0.66415930	-0.74719231
a 2.3008224	Node	304.03118	+0.67404700	+0.61262843
e 0.1276317	Incl.	1.68819	+0.32334668	+0.25766268
P 3.49	H	15.5	G 0.15	

Residuals in seconds of arc

781027 675	0.4-	0.9-	781128 675	0.1-	0.6+	891231 413	0.6+	0.5-
781028 675	1.3+	0.4+	781129 675	0.3-	0.4+			
781029 675	0.6-	0.3-	891230 413	0.7-	0.3+			

1978 UN5 = 1982 SO11 = 1990 RN1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 182.98735 (2000.0) P Q
n 0.24381832 Peri. 301.31860 +0.67327071 +0.73919417
a 2.5376117 Node 11.05307 -0.64406974 +0.59778655
e 0.2575768 Incl. 5.17067 -0.36315387 +0.31023091
P 4.04 H 14.5 G 0.15
Residuals in seconds of arc

781027	675	0.1-	0.7-	900914	675	0.1-	0.4-	900921	809	0.7+	1.1+
781028	675	0.5+	0.0	900918	809	2.1-	0.5+	900921	809	0.9+	0.9+
781029	675	0.1+	0.3+	900918	809	1.3-	0.5+	900922	809	0.3+	1.0-
781128	675	0.1-	0.6-	900918	809	0.3-	0.6+	900922	809	0.7+	1.0-
781129	675	0.1+	0.3+	900920	675	0.3+	0.5-	900922	809	1.1+	1.2-
820927	095	1.0-	1.6+	900920	675	0.8+	0.3-				
900914	675	0.6-	1.2-	900921	809	0.1+	1.1+				

1978 US5 = 1978 RJ6 = 1991 GU2
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 18.68043 (2000.0) P Q
n 0.21101515 Peri. 287.81747 +0.57549445 +0.81288307
a 2.7942180 Node 18.19724 -0.59858924 +0.49334202
e 0.2905533 Incl. 16.67230 -0.55722264 +0.30957190
P 4.67 H 14.0 G 0.15
Residuals in seconds of arc

780913	095	0.3+	1.3-	781128	675	0.8-	0.1-	910408	809	2.2-	0.8-
781027	675	1.0+	1.1-	781129	675	0.6-	0.4+	910410	809	0.9+	1.3-
781028	675	0.8+	0.4-	910408	809	0.2-	0.2+	910410	809	0.5-	1.3-
781029	675	1.3+	0.3-	910408	809	0.1-	0.7+	910410	809	0.2-	0.4-

1978 UF6 = 1978 RH6
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 87.70447 (2000.0) P Q
n 0.28886996 Peri. 280.54419 +0.24238832 +0.97015471
a 2.2663890 Node 3.50609 -0.84008496 +0.21344282
e 0.1322409 Incl. 6.48741 -0.48528874 +0.11507390
P 3.41 H 13.5 G 0.15
From 6 observations 1978 Sept. 13-Nov. 29, mean residual 0".21.

1978 UA7 = 1978 ST4 = 1951 KW = 1980 BU1 = 1984 EF1 = 1989 TW15
Id. G. V. Williams; 1988 GS = 1984 EF1 (MPC 13598) is invalid
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 47.60620 (2000.0) P Q
n 0.26602385 Peri. 197.35409 -0.76477514 +0.64222878
a 2.3943575 Node 22.85013 -0.57425052 -0.64313582
e 0.0961294 Incl. 7.63402 -0.29215633 -0.41703538
P 3.70 H 13.0 G 0.15
Residuals in seconds of arc

510527	711	0.0	1.9- Y	800123	095	2.0+	1.7-	891004	809	0.3-	0.0
780927	095	(4.2-	0.2+)	840301	675	0.2-	0.0	891007	809	0.4+	0.1-
781027	675	1.3-	0.6-	840301	675	1.3-	0.5+	891007	809	0.5+	0.5-
781028	675	0.8-	0.7-	840304	675	0.1+	0.6-	891007	809	0.7+	0.5-
781029	675	1.3-	0.1-	840304	675	1.4-	0.2-	891008	809	1.5+	0.4+
781128	675	0.2-	1.0-	891004	809	1.1-	0.1-	891008	809	1.9+	0.1+
781129	675	0.6-	0.8-	891004	809	0.7-	0.0	891008	809	2.2+	0.0

1978 UK7 = 1978 TA6 = 1980 FT4
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 203.53710 (2000.0) P Q
n 0.25944353 Peri. 199.26288 +0.75172109 -0.65939312
a 2.4346740 Node 202.00187 +0.60877396 +0.70011206
e 0.1755526 Incl. 1.64821 +0.25359350 +0.27394127
P 3.80 H 14.5 G 0.15
Residuals in seconds of arc

781007 095	0.2-	0.7+	781128 675	0.0	0.2-	800317 809	0.0	0.3-
781027 675	0.3-	0.4-	781129 675	0.0	0.1-	800317 809	0.3+	0.4-
781028 675	0.3+	0.3-	800316 809	0.1-	0.3+	800317 809	0.1+	1.0+
781029 675	0.2+	0.5+	800316 809	0.4-	0.0	800317 809	0.2+	0.4-

1978 UL7 = 1930 KU = 1975 TA5 = 1977 FZ1 = 1980 FE9 = 1987 QX8
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 247.23580 (2000.0) P Q
n 0.31288012 Peri. 352.01128 -0.33568834 +0.94105521
a 2.1489059 Node 258.36686 -0.86187995 -0.32465580
e 0.1121315 Incl. 2.43273 -0.38010037 -0.09494054
P 3.15 H 14.0 G 0.15
Residuals in seconds of arc

300525 690 (2.6-	2.6+)		751014 095	2.2+	1.1+	781129 675	0.2-	0.3-
300527 690	0.5-	1.6-	770326 095	0.3+	0.0	800316 095	0.1+	1.8+
300529 690	0.4+	1.6+	781027 675	0.3-	0.0	870820 010	0.8-	0.4+
300529 690 (5.0-	1.1-)		781028 675	0.9-	0.1+	870820 010	0.9+	1.0+
300531 690(11.9-	2.3-)		781029 675	0.8-	0.4-			
300531 690 (5.8-	2.3+)		781128 675	0.3-	0.0			

1979 ME8
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 99.25496 (2000.0) P Q
n 0.28640774 Peri. 281.05863 -0.41564080 -0.90938809
a 2.2793598 Node 193.53491 +0.85889327 -0.38665226
e 0.1360128 Incl. 3.92034 +0.29924084 -0.15334060
P 3.44 H 15.0 G 0.15
Residuals in seconds of arc

780315 675	1.5-	0.9+	790726 675	2.3+	0.8+	920406 809	0.1-	0.7+
780316 675	0.2-	0.2-	790727 675	0.0	0.8+	920406 809	0.1-	0.1+
780316 675	1.6+	0.8-	790728 413	0.8+	0.1+	920406 809	0.0	0.7-
790624 413	0.7-	0.6-	790823 675	1.4-	0.6-	920425 809	1.0-	0.8+
790625 413 (3.5+	0.1+)		920404 809	1.5+	1.2+	920425 809	0.7-	0.5-
790629 413	0.3-	0.8+	920404 809	0.5+	0.3+	920425 809	1.1-	1.0-
790724 413	0.9-	1.3-	920404 809	1.1+	0.9-			

1979 SN4 = 1978 JW3 = 1991 JH7 = 1992 QD
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 344.98596 (2000.0) P Q
n 0.22513012 Peri. 164.29781 +0.94430511 +0.32879205
a 2.6761697 Node 176.41978 -0.32043132 +0.92810655
e 0.1759032 Incl. 12.53347 -0.07491077 +0.17468263
P 4.38 H 12.5 G 0.15
Residuals in seconds of arc

780505 095	0.3-	1.2+	910505 399	0.6+	1.3+	920827 372	1.2-	2.1-
790827 095	0.2-	1.1-	910505 399	0.0	0.5-	920827 402	0.4-	0.9-
790902 095	0.2-	0.6-	920826 372	0.2+	0.1-	920827 402	0.5-	0.5-
790924 095	1.1+	3.1+	920826 372	0.7+	0.1+	920827 372	0.1+	0.6+
790924 095	1.1-	1.2+	920827 372	1.1+	1.2+			

1981 DU1
Id. E. Bowell (1949, 1954 obs.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	204.25109	(2000.0)	P	Q	
n	0.20047537	Peri.	190.97933	+0.39821229	-0.90195264
a	2.8913147	Node	235.75695	+0.85616891	+0.43082993
e	0.1764256	Incl.	11.65912	+0.32924424	-0.02944489
P	4.92	H	13.8	G 0.15	

Residuals in seconds of arc

491119	675	0.5+	0.5+	810228	413	1.8+	1.0-	810408	413	1.3-	1.5+
491119	675	1.1-	1.3+	810306	413	0.2+	0.7+	810409	413	1.0-	1.8+
541006	675	2.4+	1.8+	810306	413	1.8+	1.0-	810409	413	0.7+	0.9+
541006	675	2.4-	1.3-	810308	413	0.5+	0.2-	810501	413	1.4+	1.4+
810204	413	1.0-	1.2-	810308	413	1.4+	0.7-	810501	413	0.5+	1.4-
810208	413	0.3-	0.6-	810312	413	0.8-	0.4-				
810228	413	1.9-	0.3+	810408	413	1.3-	1.6+				

1981 EF5 = 1975 VK3
Id. L. D. Schmadel (MPC 10769)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	317.68398	(2000.0)	P	Q	
n	0.23535754	Peri.	223.65105	+0.03623890	-0.99108228
a	2.5980688	Node	224.73824	+0.95961222	+0.07033115
e	0.2107273	Incl.	10.49661	+0.27898232	-0.11317885
P	4.19	H	13.9	G 0.15	

Residuals in seconds of arc

541006	675	0.6+	1.4+	810209	413	0.4+	0.2-	810312	413	0.9-	0.8+
541006	675	0.8-	0.8-	810302	413	0.0	0.0	810312	413	1.1+	0.5-
751102	095	0.3-	1.6+	810302	413	1.9+	0.5+	810409	413	0.3+	0.0
751107	095	(6.9+	5.7+)	810307	413	1.5-	1.5+	810409	413	1.3+	1.0-
780705	675	0.6-	1.4+	810307	413	0.1-	0.1-	810503	413	0.2+	1.0+
780706	675	0.4+	0.1+	810310	413	1.3-	1.1+				
810209	413	1.2-	0.1+	810310	413	0.6+	0.6-				

1981 EY8 = 1983 SD
Id. E. Bowell (MPC 9424)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	312.62264	(2000.0)	P	Q	
n	0.21481395	Peri.	73.49975	+0.94421504	-0.31612409
a	2.7611779	Node	304.83961	+0.24258975	+0.85722972
e	0.2381007	Incl.	6.45861	+0.22272894	+0.40647603
P	4.59	H	14.0	G 0.15	

Residuals in seconds of arc

780707	675	0.1-	0.5+	810311	413	0.6+	1.4-	830927	046	(3.7+	2.2+)
780708	675	0.3-	0.7+	810315	413	0.8-	0.1-	830928	046	0.1+	1.0+
780709	675	0.3-	1.2+	810315	413	0.2+	0.1+	830928	046	0.5-	0.1-
810202	413	1.1+	0.7+	810405	413	0.3-	1.3-	920808	010	1.7+	0.4-
810214	413	1.3+	0.7+	810405	413	(1.1+	2.4-)	920808	010	0.6+	0.3-
810301	413	0.6-	1.4+	810412	413	1.0-	0.5-	920808	010	0.7+	0.3-
810307	413	0.0	0.1+	810412	413	1.3+	1.1-	920809	010	0.2-	0.9-
810307	413	0.5+	0.3+	810429	413	1.2-	0.3+	920809	010	0.5-	0.5-
810311	413	1.3-	0.6+	830927	046	(5.0+	3.5-)	920809	010	1.0-	0.1-

1981 EZ10
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 41.17502 (2000.0) P Q
n 0.21209679 Peri. 30.62965 +0.43567208 +0.89832899
a 2.7847100 Node 265.25045 -0.83689950 +0.38116311
e 0.0420165 Incl. 3.25144 -0.33134433 +0.21844843
P 4.65 H 14.0 G 0.15
Residuals in seconds of arc

770518 675	0.3+	1.5+	810307 413	0.6+	0.5+	810406 413	0.9+	0.8-
770519 675	0.1-	0.6+	810307 413	1.0+	0.8+	810407 413	1.6-	0.7-
780901 675	0.2+	0.6-	810311 413	0.4+	0.0	810407 413	0.2-	0.9-
780902 675	0.3+	0.5-	810311 413	1.2+	0.0	810412 413	0.3-	0.9-
810212 413	1.1-	0.3+	810315 413	0.5+	0.5-	810412 413	0.3-	0.4-
810213 413	0.1-	0.3-	810405 413	2.2-	0.5-	810502 413	1.3-	0.5-
810301 413	1.1-	1.1+	810405 413	0.1+	1.3-	810503 413	1.9+	0.0
810301 413	2.0+	0.7+	810406 413	1.6-	0.0	870822 801	0.6+	1.7-

1981 EL21 = 1978 QT
Id. H. Oishi (JAM 1958); 1981 EL21 = 1955 KG (ibid.) is invalid
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 25.04396 (2000.0) P Q
n 0.22014612 Peri. 130.64500 +0.95043364 +0.31034215
a 2.7164102 Node 211.28890 -0.29520505 +0.88141889
e 0.0961415 Incl. 2.10426 -0.09762111 +0.35607370
P 4.48 H 12.0 G 0.15
Residuals in seconds of arc

780831 095	0.2+	1.2-	810307 413	0.7+	0.1-	810411 413	1.6+	0.6-
780905 095	0.8+	1.6-	810311 413	0.2-	0.1-	810426 413	(4.4+	2.7-)
810209 413	0.9+	1.6-	810311 413	1.1+	0.9-	810430 413	1.8-	0.3-
810213 413	1.3+	0.8-	810316 413	0.1-	1.1-	810502 413	1.3-	1.0-
810302 413	0.3-	0.3+	810329 413	0.5-	1.7+	860512 801	0.4+	1.4+
810302 413	1.3-	0.2-	810408 413	0.1-	0.0	870821 801	0.1-	0.3+
810303 413	0.3-	0.1+	810408 413	(3.1+	1.5-)			
810307 413	0.7-	0.5+	810411 413	0.5-	0.3+			

1981 EM30
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 321.40704 (2000.0) P Q
n 0.21522641 Peri. 235.23805 +0.97423032 -0.22341526
a 2.7576492 Node 137.64774 +0.21905262 +0.90440296
e 0.2509017 Incl. 2.63728 +0.05377012 +0.36351192
P 4.58 H 14.0 G 0.15
Residuals in seconds of arc

780707 675	0.8+	0.5+	810303 413	0.8+	0.2-	920802 675	0.5+	0.3-
780708 675	0.4-	0.1+	810307 413	1.8-	1.0+	920802 675	0.6+	0.3-
780709 675	0.5-	0.2+	810307 413	0.3+	0.6+	920806 675	0.0	0.2+
810209 413	0.0	1.5-	810311 413	0.3-	0.9-	920806 675	0.6-	1.2-
810213 413	0.6-	1.5-	810426 413	2.1+	0.4-			
810302 413	2.4-	0.8+	810502 413	1.8+	0.6+			

1981 EF37 = 1990 MH
Id. G. V. Williams (MPC 16695)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 169.53798 (2000.0) P Q
n 0.24248849 Peri. 296.67267 +0.47879532 +0.87787854
a 2.5468809 Node 2.00561 -0.68296972 +0.37902309
e 0.1224331 Incl. 15.21078 -0.55164066 +0.29269569
P 4.06 H 13.0 G 0.15

Residuals in seconds of arc

541006	675	1.8+	2.1-	810329	413	1.3-	0.7-	810430	413	0.8-	0.9-
541006	675	0.2+	0.8-	810329	413	0.9+	0.0	810502	413	0.1-	0.8-
810209	413	(3.1-	1.2-)	810407	413	1.5-	0.1+	900620	413	0.1-	0.8-
810212	413	(3.4+	1.1-)	810407	413	1.1+	0.4+	900620	413	1.3-	0.1-
810213	413	0.1-	0.0	810408	413	1.4-	0.4-	900622	413	0.4+	0.1+
810311	413	1.6-	0.3-	810408	413	1.6+	0.0	900819	413	1.2+	0.4-
810316	413	0.3+	0.9-	810411	413	1.4-	0.3-	900819	413	0.2+	0.5-
810316	413	0.9+	0.2+	810411	413	0.7+	0.1+				

1981 EV45 = 1992 PM1

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

M	25.21783	(2000.0)	P	Q	
n	0.19854324	Peri.	338.73033	+0.06077617	+0.99726940
a	2.9100424	Node	294.73385	-0.90899193	+0.03793483
e	0.1637092	Incl.	2.64743	-0.41235899	+0.06336167
P	4.96	H	15.5	G 0.15	

Residuals in seconds of arc

810212	413	0.8+	0.4+	810409	413	0.2+	0.7+	920809	010	1.2-	0.5-
810301	413	2.2-	0.3-	810501	413	0.3-	0.9-	920809	010	1.4-	0.1-
810301	413	0.8-	0.1-	920808	010	1.4+	1.9+	920809	010	1.0-	1.0-
810308	413	0.7+	0.1+	920808	010	1.6+	0.3+				
810312	413	1.6+	0.1+	920808	010	0.6+	0.5-				

1981 JM2 = 1978 UL5

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	299.67425	(2000.0)	P	Q	
n	0.26019850	Peri.	66.44527	+0.20298470	+0.97904088
a	2.4299623	Node	215.27911	-0.90854763	+0.18198599
e	0.1786988	Incl.	1.64883	-0.36515533	+0.09143335
P	3.79	H	14.5	G 0.15	

Residuals in seconds of arc

781027	675	0.4+	0.0	810411	675	0.4-	1.3-	810506	675	0.6-	0.4+
781028	675	0.3-	0.1-	810505	675	0.4+	2.3-	810508	675	1.0-	0.3+
781029	675	0.1-	0.3+	810505	675	1.2+	0.8+	810509	675	1.0-	0.3-
810411	675	0.4+	2.0+	810506	675	(1.2+	4.0-)	810511	675	1.1+	0.8+

1981 PF = 1992 NL

Id. G. V. Williams (MPC 20629)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	330.36485	(2000.0)	P	Q	
n	0.26542222	Peri.	181.33804	+0.85532836	+0.50459862
a	2.3979743	Node	147.49155	-0.47328195	+0.85323492
e	0.2896270	Incl.	12.62304	-0.21075484	+0.13179684
P	3.71	H	14.5	G 0.15	

Residuals in seconds of arc

810726	688	0.3+	0.1+	810812	046	0.7-	0.2+	920705	675	0.1+	0.5+
810726	688	0.5-	0.7-	810826	688	1.3+	0.0	920705	675	1.8-	0.4-
810806	046	0.8+	1.8-	810826	688	(0.8+	3.9-)	920726	675	1.1+	0.6+
810806	046	0.9+	0.8-	810829	801	0.2+	0.4+	920726	675	0.1-	1.6+
810808	801	0.6-	1.0+	810830	688	(1.0+	3.8-)	920728	675	0.3-	0.6-
810808	046	0.4+	2.3+	810830	688	(1.0-	8.4-)	920728	675	0.1-	0.3-
810808	046	(0.2+	3.3+)	810831	675	1.7-	1.6-	920825	801	0.4+	0.8+
810810	046	0.0	1.0-	810831	675	0.4-	0.9-	920825	801	0.1+	0.2-
810811	046	0.4+	0.7+	920702	675	0.6+	0.6-	920901	801	0.3+	0.4-
810812	046	0.3-	1.8+	920702	675	0.3+	0.9-	920901	801	0.3-	0.0

1981 TP = 1953 TL3 = 1961 DM = 1989 EU6 = 1992 PQ4

Id. E. Bowell (k), G. V. Williams

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 325.88451	(2000.0)	P	Q	
n 0.17653912	Peri. 339.69122	+0.99401615	-0.10895372	
a 3.1470869	Node 26.56747	+0.10247565	+0.90538303	
e 0.2106673	Incl. 1.00042	+0.03782369	+0.41037866	
P 5.58	H 13.0	G 0.15		

Residuals in seconds of arc

531009 760	0.5-	0.6+	810926 688	0.9-	1.7-	920802 675	0.2+	0.5+
531009 760	1.2-	0.8+	810928 095	0.3+	0.2-	920802 675	0.1-	0.1+
610217 033	0.2-	0.8-	811004 688	(4.1-	9.1-)	920806 675	0.0	0.5-
610217 033	2.0+	1.1-	811004 688	(0.2+	5.4-)	920806 675	0.1-	0.3+
810905 095	0.4-	3.8+	890305 033	0.0	1.2+			
810926 688	2.1+	3.2-	890305 033	1.6-	1.4+			

1982 BS = 1986 AD2
Id. E. Bowell (MPC 10529)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 240.36084	(2000.0)	P	Q	
n 0.23635914	Peri. 118.95543	+0.54854922	-0.81243357	
a 2.5907238	Node 296.44304	+0.66957353	+0.56838251	
e 0.1704479	Incl. 12.74945	+0.50076446	+0.12997313	
P 4.17	H 13.0	G 0.15		

Residuals in seconds of arc

530309 675	0.5+	0.9+	820130 688	1.8-	2.9-	860117 688	1.0+	0.6+
530309 675	(1.4-	5.0+)	820221 688	1.2+	1.0+	860117 688	1.1+	0.9+
820124 688	(3.1-	4.5-)	820221 688	0.0	1.7+	880816 675	0.4-	1.1+
820124 688	(1.6-	4.3-)	860112 688	0.5-	0.6+	880816 675	(4.5+	1.0-)
820130 688	0.3-	1.8-	860112 688	0.8-	0.5+			

1982 TB2 = 1973 AB2 = 1992 PS2
Id. E. Bowell (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 261.16420	(2000.0)	P	Q	
n 0.28436902	Peri. 162.40449	+0.39902583	-0.91359607	
a 2.2902410	Node 264.01999	+0.83153393	+0.39649762	
e 0.1008188	Incl. 4.51168	+0.38643203	+0.09017681	
P 3.47	H 13.5	G 0.15		

Residuals in seconds of arc

730101 095	0.0	0.1-	821021 095	0.2-	0.6-	920806 675	0.6-	0.2-
821014 095	1.3-	0.2-	821022 095	0.2-	0.0	920806 675	0.4+	0.3-
821015 095	1.6+	0.9+	920802 675	0.3+	0.4+			

1982 UD4 = 1978 WT19 = 1986 RH15 = 1990 RG11
Id. E. Bowell (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 143.16706	(2000.0)	P	Q	
n 0.24293583	Peri. 1.77215	+0.99303389	-0.11778988	
a 2.5437534	Node 4.99548	+0.10767230	+0.89666048	
e 0.2337412	Incl. 1.99956	+0.04785773	+0.42676167	
P 4.06	H 15.0	G 0.15		

Residuals in seconds of arc

781128 675	0.8+	0.4+	820926 095	0.5+	1.3-	900914 675	0.2-	0.4-
781129 675	0.5-	0.1+	821019 033	0.0	0.7-	900914 675	0.3-	0.4-
820916 095	0.1+	1.3+	821019 033	0.7-	0.4-			
820920 095	1.2-	0.4+	860912 095	1.5+	1.0+			

1982 UK7 = 1981 JS6
Id. S. J. Bus

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 213.83743 (2000.0) P Q
n 0.25836001 Peri. 280.65263 +0.97184367 -0.22128983
a 2.4414763 Node 92.16783 +0.23513666 +0.88867490
e 0.2442513 Incl. 4.64572 +0.01518669 +0.40160645
P 3.81 H 13.5 G 0.15
Residuals in seconds of arc

810508	675	0.5+	0.0	821023	095	1.9-	0.4-	821112 095	0.1-	0.2+
810509	675	0.5-	0.0	821025	095	0.7+	0.1-			
821021	095	1.2+	0.4+	821111	095	0.1+	0.2-			

1984 DE1 = 1977 FL3 = 1977 GQ
Id. S. Nakano (MPC 12942)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 14.87893 (2000.0) P Q
n 0.13193466 Peri. 234.91424 -0.92779797 +0.37268466
a 3.8214671 Node 326.95737 -0.33118429 -0.84399423
e 0.1381962 Incl. 1.81142 -0.17177862 -0.38571995
P 7.47 H 12.5 G 0.15
Residuals in seconds of arc

770325	095	1.7+	1.5+	840304	809	0.2-	0.2+	840309 809	0.6+	0.7-
770326	095	0.5+	3.5+	840304	809	0.0	0.1-	840309 809	0.2+	0.7-
770410	381	(13.0-	13.5-)	840304	809	0.3+	0.3+	840310 809	0.2-	0.2-
770410	381	(2.3-	16.3-)	840305	809	0.3-	0.3-	840310 809	0.5-	0.2+
840228	809	0.0	0.2+	840305	809	0.1-	0.0	840310 809	0.1-	0.1+
840228	809	0.2+	0.1+	840305	809	0.0	0.1+	920404 809	0.0	0.1-
840228	809	0.3+	0.1-	840306	809	0.2-	0.3+	920404 809	0.4-	0.5-
840301	809	0.2+	0.7-	840306	809	0.1-	0.6+	920404 809	0.8-	0.7-
840301	809	0.1+	0.7-	840306	809	0.2+	0.4+	920406 809	0.3+	0.3+
840301	809	0.2+	0.7-	840308	809	0.8-	0.0	920406 809	0.2+	0.8-
840303	809	0.2-	0.3+	840308	809	0.7-	0.1-	920406 809	0.3-	1.1-
840303	809	0.2-	0.3+	840308	809	0.8-	0.1-			
840303	809	0.1-	0.3-	840309	809	1.0+	1.0-			

1985 QA1 = 1978 UB5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 93.24394 (2000.0) P Q
n 0.26416899 Peri. 323.57397 -0.98715764 -0.14719411
a 2.4055524 Node 208.15280 +0.15892049 -0.94438620
e 0.0767905 Incl. 7.56035 -0.01625045 -0.29405543
P 3.73 H 13.2 G 0.15
Residuals in seconds of arc

781027	675	0.4-	0.1-	850816	675	0.3+	0.1+	850817 675	(3.1+	1.8+)
781028	675	0.3+	0.2+	850816	675	(3.7+	2.2+)	850823 675	0.7-	0.3-
781029	675	0.1+	0.0	850817	675	0.5-	0.2-	850823 675	1.0+	0.4+

1985 UO3 = 1992 GY4
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 228.53627 (2000.0) P Q
n 0.23334555 Peri. 333.72172 +0.97714293 -0.06156563
a 2.6129817 Node 31.90751 +0.18436713 +0.72193044
e 0.0448979 Incl. 22.64159 -0.10583222 +0.68922138
P 4.22 H 13.5 G 0.15
Residuals in seconds of arc

851018	095	(4.4+	1.2-)	851024	049	0.8+	0.3+	920404 809	0.0	1.2+
851020	049	1.4-	0.0	851112	095	1.3+	1.3+	920406 809	0.3-	1.7-
851020	049	1.1-	1.1+	920404	809	0.8+	1.3+	920406 809	0.5-	1.5-
851024	049	0.6+	2.7-	920404	809	0.2+	1.5+	920406 809	0.4-	0.8-

1986 SZ1 = 1938 BJ = 1941 WM = 1992 AS
Id. G. V. Williams (MPC 19675; unpublished)

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams
M 48.03973		(2000.0)	P	Q
n 0.23775198	Peri.	198.31597	-0.08841383	-0.97320459
a 2.5805956	Node	257.17923	+0.93894342	-0.01029011
e 0.1507543	Incl.	12.57344	+0.33251805	-0.22971057
P 4.15	H	11.0	G 0.15	

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

380121	053	(14.1+	33.6+)X	380227	053	(11.2+	16.6+)X	860929 095 0.0 0.6-
380131	053	(0.19+	0.06+)X	411116	062	1.8-	1.3+	861003 095 1.6- 0.8-
380203	053	(44.5-	43.5+)X	411116	062	1.3-	0.0	861006 095 (5.5- 1.2-)
380219	053	(22.1+	11.4+)X	411116	062	0.3-	1.3+	920110 675 0.7+ 1.8-
380220	053	(44.7+	48.2-)X	411116	062	0.9+	1.7+	920110 675 0.1+ 1.2+
380221	053	(53.5+	1.5+)X	491119	675	2.3+	0.5-	920111 675 1.0- 1.9-
380223	053	(2.8+	22.4-)X	491119	675	3.0+	1.5-	

1987 MM1 = 1991 GD1
Id. G. V. Williams (MPC 18287)

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams
M 355.47462		(2000.0)	P	Q
n 0.21283523	Peri.	124.22951	+0.75722017	+0.65193730
a 2.7782652	Node	195.21251	-0.63809422	+0.72531154
e 0.1628235	Incl.	8.75553	-0.13947540	+0.22113553
P 4.63	H	12.5	G 0.15	

Residuals in seconds of arc

870625	046	0.3-	0.9+	870630	046	0.2+	0.3-	910419 809 0.1+ 1.9-
870626	046	1.8-	1.3+	870630	046	1.3+	0.2-	910419 809 0.5- 1.5-
870627	046	1.4+	0.7+	910410	675	0.8-	1.0+	910419 809 0.7- 0.3-
870627	046	0.2+	1.3-	910410	675	0.4+	0.2+	920807 675 0.0 0.4-
870628	046	0.9-	0.0	910412	675	0.1+	1.4+	920807 675 0.1+ 0.0
870628	046	0.1-	0.5-	910412	675	1.3+	0.6+	

1987 QV10 = 1991 KL = 1992 PN4
Id. E. Bowell (k), G. V. Williams

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams
M 329.57552		(2000.0)	P	Q
n 0.18979962	Peri.	209.71429	+0.98897893	+0.09838744
a 2.9987424	Node	144.11233	-0.06807252	+0.96576257
e 0.1121483	Incl.	10.87908	-0.13147932	+0.24004700
P 5.19	H	12.0	G 0.15	

Residuals in seconds of arc

870827	095	0.3-	1.0-	870922	095	0.2-	1.2+	920802 675 0.1- 0.1+
870902	095	0.2-	0.4+	910518	413	0.6-	0.2+	920802 675 0.1+ 0.0
870920	095	0.7+	0.8-	910518	413	0.6+	0.2-	920806 675 0.1- 0.2+

1988 QY

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams
M 134.31932		(2000.0)	P	Q
n 0.08491906	Peri.	93.19565	+0.62829547	+0.70153963
a 5.1262437	Node	222.65275	-0.74735943	+0.66433830
e 0.0660683	Incl.	29.75690	+0.21609878	+0.25786968
P 11.61	H	10.5	G 0.15	

Residuals in seconds of arc

541006	675	0.3+	2.2+	880912	675	0.3-	0.9-	901123 372 1.0- 1.3-
541006	675	0.1+	1.7+	880913	675	0.2+	0.8-	911225 950 0.2- 0.4-
880818	675	0.4+	0.0	891101	675	1.0+	0.2+	911225 950 0.1- 0.7-
880818	675	0.6+	0.5-	891102	675	0.2-	0.8-	
880910	675	0.7-	0.1+	901123	372	(1.1-	4.7-)	

1988 RF1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 130.90809 (2000.0) P Q
n 0.08542221 Peri. 330.15136 +0.88414803 +0.46698204
a 5.1060944 Node 2.17183 -0.31576121 +0.62012505
e 0.1187148 Incl. 22.48344 -0.34435028 +0.63037504
P 11.54 H 11.1 G 0.15
Residuals in seconds of arc

541006	675	3.1+	0.1+	880910	675	0.7- 0.7+	891102	675 0.6+ 0.8+
541006	675	2.3-	1.0-	880912	675	0.2+ 0.5+	891103	675 1.1- 0.3-
840329	413	0.4-	0.4-	881008	675	0.2- 0.8-		
880818	675	1.9+	0.3+	881008	675	1.1- 0.7-		

1988 RA11 = 1977 XG1
Id. S. J. Bus
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 232.75234 (2000.0) P Q
n 0.16176322 Peri. 208.45824 +0.86522944 +0.49923894
a 3.3359244 Node 121.51910 -0.44910937 +0.81273119
e 0.0801017 Incl. 3.10965 -0.22288737 +0.30038058
P 6.09 H 13.6 G 0.15
Residuals in seconds of arc

771207	675	0.6-	0.2-	880916	807	0.9+ 0.4-	881008	807 0.1- 0.0
771208	675	0.6+	0.1+	881004	807	0.0 0.7+	881103	807 0.3- 0.2-
880914	807	0.2-	0.8-	881005	807	0.4- 1.1+	881105	807 0.4+ 0.3+
880915	807	0.1+	0.4-	881007	807	0.5- 0.1-		

1988 RD11 = 1978 UW6
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 49.04524 (2000.0) P Q
n 0.18524216 Peri. 183.10065 -0.99798692 +0.06341768
a 3.0477276 Node 0.53628 -0.05685497 -0.89081752
e 0.1411948 Incl. 3.35524 -0.02810008 -0.44991371
P 5.32 H 12.7 G 0.15
Residuals in seconds of arc

781027	675	0.3-	0.4+	781129	675	0.2+ 0.1-	881005	807 0.2+ 0.4+
781028	675	0.5-	0.5-	880914	807	0.4+ 0.1+	881008	807 0.6+ 0.0
781029	675	0.9-	0.3+	880915	807	0.0 0.3-	881103	807 0.5- 0.2+
781128	675	1.6+	0.1-	881004	807	0.4- 0.3-	881105	807 0.4- 0.0

1988 TH1 = 1989 VU3 = 1989 WA7
Id. H. Kaneda (MPC 18430)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 183.45077 (2000.0) P Q
n 0.08355449 Peri. 118.05294 +0.36071446 +0.93237329
a 5.1819060 Node 172.96491 -0.90929513 +0.35722888
e 0.1131598 Incl. 11.19207 -0.20752699 +0.05538576
P 11.80 H 10.0 G 0.15
Residuals in seconds of arc

510730	675	0.0	0.3-	881112	071	(1.1- 3.5+)	891128	511 1.4- 0.6+
880910	675	0.2+	0.5-	881112	071	(0.8- 4.2+)	891128	511 (2.8+ 0.1+)
880910	675	0.1-	0.5-	891103	809	2.5+ 0.1-	920204	675 1.7- 0.9-
881008	675	0.8+	0.9+	891103	809	0.4+ 0.0	920204	675 2.3+ 0.5-
881010	675	0.0	0.7+	891103	809	1.1- 0.7+	920205	675 0.7- 0.1+
881104	675	0.3-	0.5-	891128	511	1.8- 0.2-		
881106	675	0.3-	1.5-	891128	511	1.2+ 0.6+		

1988 XJ1 = 1977 XG3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 252.32626 (2000.0) P Q
n 0.17704156 Peri. 326.47960 +0.74726228 -0.62473296
a 3.1411299 Node 73.85997 +0.64967166 +0.61512961
e 0.0493830 Incl. 13.63917 +0.13973481 +0.48096184
P 5.57 H 12.5 G 0.15
Residuals in seconds of arc

771207 675	0.1-	0.5+	881207 381	0.3+	0.6-	881211 877	1.5-	0.1+
771208 675	0.1+	0.5-	881207 877	(4.1-	2.6+)Y	881211 877	0.5-	1.3+
881205 381	0.6-	0.0	881207 877	(5.0-	3.0+)Y	881214 877	0.0	2.0-
881206 381	0.1-	0.4+	881208 381	1.8+	0.5-	881214 877	0.7+	1.3+

1988 YB = 1978 EQ9
Id. E. Bowell (MPC 18115)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 213.34010 (2000.0) P Q
n 0.17010351 Peri. 44.84761 -0.42596446 -0.90421813
a 3.2259715 Node 70.38650 +0.82066528 -0.40045302
e 0.1483450 Incl. 1.86900 +0.38087107 -0.14841480
P 5.79 H 12.2 G 0.15
Residuals in seconds of arc

780315 675	0.3-	0.5-	890104 877	0.5-	1.5-	890112 046	(1.6+	7.5-)
780316 675	0.1-	0.4-	890104 877	1.1+	1.1-	890204 877	1.3+	2.2+
881230 877	1.5-	0.3-	890104 046	0.1-	0.2+	890204 877	0.1-	0.7+
881230 877	1.7-	0.5+	890109 046	2.0+	1.5-	920806 376	0.3+	0.3-
890102 877	(1.4+	7.2-)	890109 046	1.1+	1.7-	920806 376	(3.0-	5.5-)
890102 877	(1.7+	6.4-)	890111 071	1.4-	1.1+	920822 376	0.6+	1.0+
890103 046	1.7-	0.4-	890111 071	0.7+	1.8+	920822 376	0.6-	1.6-
890103 046	0.6+	0.0	890112 046	(2.8+	6.3-)			

1989 BD = 1991 RC30
Id. H. E. Holt
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 273.82337 (2000.0) P Q
n 0.22191747 Peri. 108.02096 -0.68849018 -0.72293644
a 2.7019360 Node 25.78057 +0.60491464 -0.61641513
e 0.1480121 Incl. 7.64082 +0.40007443 -0.31208219
P 4.44 H 12.3 G 0.15
Residuals in seconds of arc

890129 399	0.2+	0.8-	890207 399	1.0-	0.5-	910914 675	1.2-	1.3+
890129 399	0.1-	0.5-	890207 399	(2.7-	2.3+)	910915 675	0.2+	0.3-
890129 399	0.8+	1.2+	890207 399	(2.8-	1.2-)	910915 675	0.1+	0.4-
890129 399	0.4-	0.8+	890226 399	0.3-	0.4+	910915 675	0.7+	1.5-
890130 399	0.0	0.8-	890226 399	0.4-	0.4-	910915 675	0.9+	0.7+
890130 399	1.6+	0.2+	890226 399	1.0+	0.3+			
890130 399	1.3-	0.0	910914 675	0.8-	0.3+			

1989 CC1 = 1992 PD
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 303.41238 (2000.0) P Q
n 0.21128776 Peri. 271.05152 +0.35771152 -0.91063681
a 2.7918141 Node 154.67807 +0.92531427 +0.37549296
e 0.4205727 Incl. 28.92126 -0.12584107 +0.17246922
P 4.66 H 13.0 G 0.15
Residuals in seconds of arc

890211 675	0.6-	0.9+	890226 875	0.7+	1.5-	890301 675	2.0-	0.7-
890211 675	(2.8-	0.8-)	890226 875	1.5+	0.2-	890301 675	(3.8-	3.2+)
890212 675	(4.2-	1.6+)	890226 875	(0.3-	3.2-)	890301 875	1.3-	0.4-

890301 875 1.1+ 0.2- 920802 801 1.3- 0.3- 920827 801 0.4- 0.7+
890306 675 (2.6- 2.7-) 920802 801 1.2- 0.2- 920829 675 2.3+ 1.5-
890306 675 (4.0- 3.8-) 920803 801 1.2- 0.1- 920829 675 0.9+ 0.1-
890405 675 0.6+ 0.6+ 920803 801 1.2- 0.1- 920831 675 1.4+ 0.1-
890407 675 1.2+ 0.7+ 920824 801 0.9- 0.3+ 920831 675 1.8+ 0.2+
890407 675 0.9- 0.6+ 920824 801 0.9- 0.8+

1989 PE
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 145.83062 (2000.0) P Q
n 0.39117750 Peri. 88.35862 -0.47557862 +0.85017497
a 1.8516269 Node 149.70600 -0.87283566 -0.48801341
e 0.0229509 Incl. 26.60334 +0.10946639 -0.19759914
P 2.52 H 14.3 G 0.15
Residuals in seconds of arc
510826 675 0.1+ 1.5+ 890905 675 1.0+ 2.0+ 910410 675 0.0 1.2-
510826 675 0.1+ 0.8- 890905 675 0.2- 1.5+ 910412 675 (2.7- 1.5+)
890809 675 0.2- 0.6- 890907 675 0.4- 2.2- 910412 675 0.7- 1.0+
890809 675 0.6- 0.8- 890907 675 0.2+ 0.9-
890810 675 (1.3- 2.5-) 910410 675 0.5+ 0.2-

1989 SF = 1962 CT = 1992 QJ
Id. H. Kaneda
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 273.37071 (2000.0) P Q
n 0.31078607 Peri. 92.25217 +0.52577617 -0.84983244
a 2.1585479 Node 325.94641 +0.75209507 +0.48457937
e 0.0883310 Incl. 3.75414 +0.39738196 +0.20728643
P 3.17 H 13.6 G 0.15
Residuals in seconds of arc
620210 033 0.8- 1.3+ 891003 046 2.2- 0.7+ 891024 046 1.7- 0.3-
620210 033 1.4+ 0.3+ 891005 046 (3.0- 2.4-) 891024 046 1.3+ 0.6+
890923 400 2.6- 0.7- 891005 046 1.9- 1.9- 891028 046 0.5+ 0.9-
890923 400 1.4+ 1.1- 891008 400 1.8+ 0.4- 891028 046 2.1+ 0.4-
890923 400 (3.3- 1.7-) 891008 400 0.5+ 0.1- 920826 399 1.1- 1.3+
890928 400 0.7- 1.4+ 891021 400 1.2+ 0.4- 920826 399 1.8- 1.0+
890928 400 1.1- 1.0+ 891021 400 2.3+ 1.0+ 920826 399 0.3+ 1.1+
890928 400 0.3- 2.1+ 891022 046 0.2+ 0.3+ 920828 399 0.1- 1.5-
890929 392 0.3+ 1.1- 891022 046 1.2- 0.8- 920828 399 1.9+ 0.3-
890929 392 (3.5- 3.1+) 891023 046 0.5+ 0.7+
891003 046 0.1- 0.7- 891023 046 0.1- 0.4+

1989 SS2 = 1992 PR4
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 22.74414 (2000.0) P Q
n 0.30070241 Peri. 135.30785 +0.18573917 +0.98085342
a 2.2065382 Node 145.27271 -0.92782526 +0.19468882
e 0.1122405 Incl. 5.89870 -0.32348298 +0.00477829
P 3.28 H 15.2 G 0.15
Residuals in seconds of arc
890926 809 1.7+ 0.3- 891003 809 1.3- 1.2- 920802 675 0.7- 0.2+
890926 809 0.2+ 0.0 891003 809 1.3- 1.1- 920802 675 0.3- 1.3+
890926 809 0.0 0.6- 891003 809 0.7- 1.2- 920806 675 1.0+ 0.3-
890928 809 0.0 0.6+ 891007 809 1.8+ 1.4+ 920806 675 0.1- 1.1-
890928 809 0.1- 0.7+ 891007 809 1.5+ 1.1+
890928 809 2.0- 0.9- 891007 809 0.3+ 1.3+

1989 SB3 = 1979 OU15 = 1979 QD7 = 1992 OE1

Epoch 1992 June 27.0 TT = JDT 2448800.5								Marsden			
M	328.45798		(2000.0)		P			Q			
n	0.30221924	Peri.	203.31611		+0.91642349			+0.39556548			
a	2.1991489	Node	133.23699		-0.35279460			+0.87019480			
e	0.1865119	Incl.	4.78680		-0.18895492			+0.29374981			
P	3.26	H	15.5	G	0.15						
Residuals in seconds of arc											
790730	095	2.5+	1.7-	890928	809	1.2+	0.1+	920726	010	0.8-	1.1-
790820	095	1.8-	1.5-	890928	809	0.5+	0.9-	920726	010	0.9+	1.3+
890926	809	0.5-	0.7+	891003	809	0.2+	0.5+	920726	010	0.5-	0.8+
890926	809	0.8-	0.3+	891003	809	0.6-	0.7+	920727	010	0.3-	0.7+
890926	809	1.0-	1.2-	891003	809	1.0-	0.8+				
890928	809	1.8+	0.3-	920726	010	0.2+	1.4+				

1989 TY4 = 1989 SJ4 = 1992 PG1

Id. S. Nakano (d, MPC 16003), B. G. Marsden

Epoch 1992 June 27.0 TT = JDT 2448800.5								Marsden			
M	15.90166		(2000.0)		P			Q			
n	0.29618401	Peri.	115.97704		+0.17597215			+0.98398764			
a	2.2289226	Node	164.08148		-0.93606571			+0.17616755			
e	0.1570615	Incl.	5.92707		-0.30465520			+0.02707988			
P	3.33	H	15.5	G	0.15						
Residuals in seconds of arc											
890926	809	1.3+	1.8+	891007	809	0.1-	0.1-	920808	010	0.0	0.6-
890926	809	0.2-	0.9-	891007	809	0.7-	0.5-	920808	010	0.3+	0.2+
890926	809	0.9+	0.0	891007	809	0.1-	0.7+	920808	010	0.8-	0.7-
891003	809	1.3-	0.2-	891008	809	1.8+	0.4-	920809	010	1.5+	1.1+
891003	809	1.5-	1.0-	891008	809	1.7+	0.1-	920809	010	0.2+	0.5+
891003	809	2.0-	0.1-	891008	809	0.3+	0.8+	920809	010	1.3-	0.4-

1989 UO1 = 1992 PD3

Id. H. E. Holt

Epoch 1992 June 27.0 TT = JDT 2448800.5								Bowell			
M	336.35101		(2000.0)		P			Q			
n	0.30384078	Peri.	145.61960		+0.93897066			+0.34353722			
a	2.1913177	Node	194.32011		-0.32955595			+0.88352639			
e	0.2173509	Incl.	4.12332		-0.09862548			+0.31837604			
P	3.24	H	14.0	G	0.15						
Residuals in seconds of arc											
891028	403	0.1+	0.5-	891120	399	1.3-	0.1+	920806	675	0.4-	0.3+
891028	403	0.1-	0.4-	891120	399	(2.7-	0.3-)	920806	675	0.4+	0.3+
891029	403	0.4-	1.5+	891120	399	0.4+	0.2+	920807	675	0.2-	0.6-
891029	403	1.4+	0.2+	891125	399	(1.3+	2.4-)	920807	675	0.1+	0.0
891102	403	(3.2-	4.4-)	891125	399	0.6+	1.3-				
891102	403	0.8-	0.6-	891125	399	0.1+	0.7+				

1989 UA3 = 1992 PN

Epoch 1992 June 27.0 TT = JDT 2448800.5								Marsden			
M	298.04650		(2000.0)		P			Q			
n	0.29240478	Peri.	193.12555		+0.91325241			-0.40731214			
a	2.2480868	Node	190.92134		+0.37756722			+0.85375757			
e	0.1664535	Incl.	2.47359		+0.15301318			+0.32433754			
P	3.37	H	15.5	G	0.15						
Residuals in seconds of arc											
891031	494	1.3+	0.9-	891104	494	0.9-	0.2-	891105	494	0.8-	0.9+
891031	494	1.4+	1.3-	891104	494	2.0-	0.2+	891106	978	0.4+	2.5+

891125	494	1.6-	0.6-		920808	010	0.6+	0.5+	920809	010	0.5-	0.5-
891125	494	1.5+	0.1+		920808	010	0.1-	0.9-	920809	010	0.0	0.1+
891129	494	0.7+	0.8-		920808	010	1.1-	0.0	920809	010	1.2+	0.6+

1990 TS = 1963 TD1 = 1980 XE1
Id. H. Kaneda (MPC 17217)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	164.53345	(2000.0)	P	Q	
n	0.29306964	Peri.	51.21122	+0.57559701	-0.81771687
a	2.2446855	Node	3.65898	+0.72264083	+0.50566687
e	0.1717975	Incl.	4.68712	+0.38272485	+0.27502752
P	3.36	H	13.5	G 0.15	

Residuals in seconds of arc

631015	760	0.4+	1.3+		901015	392	1.4+	1.0-	901117	408	(3.7+ | 2.3+)
631015	760	2.0-	1.6+		901015	392	0.1+	1.6-	901117	408	2.1+	0.1-
631017	760	0.5-	1.1+		901015	399	0.5-	0.2-	920404	809	(0.8- | 3.5-)
801209	330	0.6+	1.9+		901015	399	1.8-	1.9+	920404	809	(1.6- | 3.4-)
801213	330	1.5-	0.3+		901015	399	0.4+	0.6+	920404	809	(0.3- | 4.2-)
901011	399	2.0+	1.4-		901017	095	0.1+	0.5-	920406	809	0.3-	0.8-
901011	399	0.2+	1.4-		901017	095	0.9+	1.0-	920406	809	0.9-	0.8-
901011	399	0.2-	1.6-		901018	392	0.1+	1.9-	920406	809	0.1-	1.3-
901013	095	(3.2+ | 0.3+)		901018	392	1.3-	0.2+				
901013	095	(0.1+	3.1-)		901117	408	(2.8+	3.7+)				

1990 TJ2 = 1969 UK2 = 1985 VQ2
Id. H. Kaneda (MPC 17453)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Schmadel

M	60.14497	(2000.0)	P	Q	
n	0.18588551	Peri.	224.13818	+0.12151993	-0.98763081
a	3.0406915	Node	219.19609	+0.94858802	+0.14494583
e	0.0756998	Incl.	9.02060	+0.29225617	-0.05980044
P	5.30	H	12.4	G 0.15	

Residuals in seconds of arc

691018	095	0.2-	0.4+		901012	033	1.0-	0.4-	920103	033	0.2+	0.2-
851109	095	(2.4+ | 4.9+)		901013	033	0.4+	0.6-	920103	033	1.2-	0.6-
851111	095	0.0	1.1+		901014	033	0.0	0.2-	920208	033	0.3-	0.3-
901010	033	0.3+	0.2-		911212	033	0.0	0.0	920208	033	0.6-	0.4+
901011	033	0.4-	0.1+		911212	033	0.4-	0.1+	920209	033	0.6+	0.1-
901011	033	1.0+	0.2-		911213	033	1.7+	0.1-				

1990 UB2 = 1977 XD3
Id. S. J. Bus
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	241.13168	(2000.0)	P	Q	
n	0.29766121	Peri.	221.37029	+0.67647465	+0.73007505
a	2.2215421	Node	91.44055	-0.64767785	+0.65232993
e	0.2168181	Incl.	5.55735	-0.35056448	+0.20360768
P	3.31	H	13.9	G 0.15	

Residuals in seconds of arc

771207	675	0.2+	0.2+		901019	809	0.6-	0.7-	901026	385	0.2+	1.5+
771208	675	0.3-	0.1+		901021	385	(0.1+ | 2.5-)	901110	385	1.0-	0.6-
901016	809	1.1+	0.7+		901021	385	1.7+	0.3-	901110	385	(3.0- | 0.2+)
901016	809	0.2+	0.6+		901024	809	0.7-	0.5-	901122	385	1.4+	0.7-
901016	809	0.1+	1.1+		901024	809	1.1-	0.9-	901122	385	0.6+	0.1+
901019	809	0.2+	0.7-		901024	809	1.7-	0.0				
901019	809	0.5-	1.0-		901026	385	0.3+	0.9+				

1991 AY1 = 1990 WT7 = 1950 DK = 1968 QR1 = 1989 QZ = 1989 RE4

Epoch 1992 June 27.0 TT = JDT 2448800.5			Kaneda	
M 151.17413	(2000.0)	P		Q
n 0.18769239	Peri. 226.54454	+0.92388755		-0.37469842
a 3.0211453	Node 155.15369	+0.38217008		+0.89317753
e 0.0478401	Incl. 10.65243	+0.01943757		+0.24866642
P 5.25	H 11.7	G 0.15		

Residuals in seconds of arc

500217 024	0.1+	0.4+	890828 888	(1.9+	7.3-)	910111 675	1.8+	1.4-
500223 024	0.1-	0.5-	890908 095	0.3+	1.3-	910111 675	0.2-	1.0-
680828 095	0.2-	0.8+	901120 413	1.9-	0.7+	910115 675	0.0	0.3-
890828 888	(0.4+	7.3-)	901120 413	0.2-	1.3+	910115 675	0.7+	0.5+

1991 CM5 = 1992 RC

Epoch 1992 June 27.0 TT = JDT 2448800.5			Williams	
M 83.48135	(2000.0)	P		Q
n 0.36430383	Peri. 109.99378	-0.49373199		+0.80432228
a 1.9416021	Node 125.94650	-0.86861493		-0.47435612
e 0.0548621	Incl. 24.10208	+0.04167512		-0.35784345
P 2.71	H 13.5	G 0.15		

Residuals in seconds of arc

910118 675	1.0-	1.0+	910209 675	1.1-	0.6-	920904 413	1.2-	0.4-
910118 675	0.9-	0.4-	910210 675	0.7+	0.5+	920904 413	1.0+	0.9+
910119 675	0.4+	0.5-	910210 675	(2.2-	3.8+)	920905 413	0.0	0.3-
910119 675	1.4+	0.1-	920902 413	0.0	1.1-	920905 413	0.1-	0.4-
910209 675	0.4+	0.1+	920902 413	0.2+	1.2+			

1991 DB

Epoch 1992 June 27.0 TT = JDT 2448800.5			Williams	
M 190.95312	(2000.0)	P		Q
n 0.43832450	Peri. 50.95545	-0.86520933		+0.49611303
a 1.7163488	Node 158.48567	-0.49905315		-0.83799933
e 0.4019569	Incl. 11.43316	-0.04856711		-0.22722013
P 2.25	H 18.5	G 0.15		

From 46 observations 1991 Feb. 13-July 10, mean residual 1".16.

1991 FF

Epoch 1992 June 27.0 TT = JDT 2448800.5			Williams	
M 87.60798	(2000.0)	P		Q
n 0.17029625	Peri. 198.52375	-0.99299230		-0.03548781
a 3.2235370	Node 338.47741	+0.09994576		-0.76118595
e 0.0610638	Incl. 17.89435	-0.06306451		-0.64756202
P 5.79	H 13.0	G 0.15		

Residuals in seconds of arc

871018 413	0.1-	0.1+	910321 413	0.6-	0.3-	910507 413	0.4+	0.2+
910318 413	0.3+	0.7-	910406 413	0.2-	0.3-	920821 413	0.1+	0.1-
910319 413	0.0	1.8+	910413 413	0.2+	0.7-	920821 413	0.1-	0.1+

1991 GN

Epoch 1992 June 27.0 TT = JDT 2448800.5			Williams	
M 346.76710	(2000.0)	P		Q
n 0.36704876	Peri. 168.13603	+0.95304232		-0.24159110
a 1.9319099	Node 207.99172	+0.23616402		+0.97036135
e 0.0900431	Incl. 22.89611	+0.18957029		+0.00570821
P 2.69	H 12.5	G 0.15		

Residuals in seconds of arc

910410	675	1.3+	0.4+	910509	675	0.5-	0.4+	920803	675	0.7-	0.2-
910410	675	1.4+	0.4-	910509	675	0.7-	1.0+	920803	675	0.3-	1.2-
910412	675	0.1+	0.5-	910614	801	0.6-	0.5-	920824	801	0.1+	0.1-
910412	675	1.3-	1.1-	910614	801	0.2-	0.0	920824	801	0.4+	0.3+

1991 NS1 = 1987 MR
Id. H. Kaneda (MPC 19028)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

M	94.35681	(2000.0)	P	Q	
n	0.25986299	Peri.	126.81784	+0.50065486	+0.86553850
a	2.4320533	Node	173.18344	-0.82644354	+0.48263177
e	0.1751477	Incl.	6.63053	-0.25755735	+0.13382709
P	3.79	H	13.7	G 0.15	

Residuals in seconds of arc

870626	675	4.1-	0.3-	910719	675	1.4+	1.3-	910913	675	0.4-	0.8-
870628	675	4.1+	0.1-	910805	675	0.2+	0.9+	910913	675	0.8+	0.0
910713	675	0.1+	1.1+	910805	675	1.0-	0.1+	910914	675	0.0	0.5-
910713	675	0.5+	0.8+	910913	675	0.4+	0.2-	910914	675	0.6-	0.2+
910719	675	1.3-	0.2-	910913	675	0.2-	0.2+				

1991 NT2 = 1953 LJ = 1957 LB = 1981 DY3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	100.05164	(2000.0)	P	Q	
n	0.23516451	Peri.	0.80581	+0.36579193	+0.90903108
a	2.5994902	Node	290.66918	-0.85508673	+0.24355812
e	0.1654100	Incl.	12.32057	-0.36745468	+0.33814486
P	4.19	H	12.0	G 0.15	

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

530612	078	0.2+	0.5-	910712	675	1.3-	0.6+	910718	675	0.0	0.1-
570602	076(0.06-	0.01+)X		910712	675	0.5-	0.6+	910912	675	1.7+	0.1-
810223	095	0.0	0.1-	910718	675	0.3+	0.5-	910912	675	0.5-	0.3-

1991 PS = 1986 AG2
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	355.36017	(2000.0)	P	Q	
n	0.28497617	Peri.	145.76803	+0.43987934	-0.89498210
a	2.2869870	Node	278.03569	+0.80626189	+0.42997983
e	0.0933964	Incl.	4.30049	+0.39553499	+0.11884610
P	3.46	H	14.0	G 0.15	

Residuals in seconds of arc

860112	688	1.2-	1.3-	910806	809	1.2-	0.2+	910913	675	0.3-	0.1+
860112	688	0.7-	0.5-	910806	809	0.8+	0.7+	910913	675	0.6+	0.1+
860117	688	1.5+	0.4+	910808	675	0.1+	1.0+	910913	675	0.4-	0.8-
860117	688	0.3+	1.4+	910808	675	0.3-	1.1+	910913	675	0.2+	0.5+
910805	675	0.3+	0.4+	910811	809	0.9+	1.7-	910914	675	0.4-	0.4+
910805	675	0.2-	0.3+	910811	809	0.2+	1.5-	910914	675	0.1-	0.6+
910806	809	0.1+	1.0+	910811	809	0.3-	2.4-				

1991 PT1 = 1987 HB2
Id. G. V. Williams (MPC 18829)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	163.35514	(2000.0)	P	Q	
n	0.28065814	Peri.	38.15776	-0.64845414	+0.76116636
a	2.3103846	Node	191.43270	-0.71195619	-0.61175480
e	0.1457758	Incl.	3.33546	-0.26949138	-0.21536443
P	3.51	H	14.5	G 0.15	

Residuals in seconds of arc

870428	046	0.9+	1.3-	910808	675	0.7+	1.0-	910908 691 0.5- 0.2-
870428	046	1.4-	0.5-	910810	809	1.5-	0.1+	910908 691 0.5- 0.6-
870429	046	0.6+	2.2+	910810	809	1.8-	0.0	910908 691 0.3- 0.1-
870429	046	0.0	0.3-	910810	809	0.1-	0.7+	910913 675 1.2+ 0.8+
910805	675	0.8+	1.4-	910814	809	0.8+	1.2+	910913 675 (2.3- 2.6+)
910805	675	0.3+	1.2-	910814	809	0.0	1.1+	
910808	675	0.0	0.7-	910814	809	1.0+	1.4+	

1991 PB12 = 1974 SG2 = 1988 AN

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	95.98189	(2000.0)	P	Q	
n	0.17294089	Peri.	27.66093	+0.24169483	+0.96160675
a	3.1905894	Node	256.56495	-0.91313805	+0.18007635
e	0.1653319	Incl.	7.68011	-0.32827201	+0.20708685
P	5.70	H	12.0	G 0.15	

Residuals in seconds of arc

740920	095	1.5+	2.3+	910807	675	1.0+	0.3-	910910 675 0.8- 0.8-
740922	095	1.7-	1.7-	910807	675	0.8+	0.3-	910910 675 0.8- 0.6-
880111	033	0.0	0.0	910810	675	0.1-	0.8+	
880111	033	0.0	0.1-	910810	675	0.2+	0.6+	

1991 PX14 = 1977 XL1

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	84.78191	(2000.0)	P	Q	
n	0.27091579	Peri.	69.31617	+0.86405475	+0.49458340
a	2.3654467	Node	260.93755	-0.48995106	+0.78347308
e	0.1509563	Incl.	5.44994	-0.11557403	+0.37624088
P	3.64	H	14.5	G 0.15	

Residuals in seconds of arc

771207	675	1.1+	0.3+	910806	675	0.3+	0.4-	910907 372 1.1- 1.5-
771208	675	1.1-	0.3-	910809	675	0.8-	0.1+	910907 372 1.1+ 1.5+
910806	675	0.1+	0.3+	910809	675	0.3+	0.0	

1991 RD7 = 1954 RW = 1987 SL21

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M	70.43090	(2000.0)	P	Q	
n	0.24024461	Peri.	353.95177	+0.99909144	+0.03766534
a	2.5627148	Node	4.05334	-0.01619785	+0.76837237
e	0.1835057	Incl.	16.38575	-0.03941991	+0.63889375
P	4.10	H	13.0	G 0.15	

Residuals in seconds of arc

540903	675	0.0	0.2-	910902	413	0.7+	0.9-	910917 675 0.4+ 0.9-
540903	675	0.1-	0.4+	910903	413	0.9-	0.7+	911007 033 0.4- 0.5+
870918	095	0.4+	1.3-	910903	413	0.4-	0.5+	911007 033 0.7- 1.2+
910902	413	0.3+	0.1+	910917	675	1.2+	1.1-	911008 033 0.4- 1.1+

1991 SN1 = 1981 TX

Id. G. V. Williams

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M	88.08823	(2000.0)	P	Q	
n	0.29806261	Peri.	159.95986	+0.99753758	-0.05752979
a	2.2195472	Node	203.44748	+0.04225770	+0.94950404
e	0.1675011	Incl.	5.78587	+0.05597370	+0.30843541
P	3.31	H	14.3	G 0.15	

Residuals in seconds of arc

510730	675	0.8+	0.5+	811005	688	0.2+	1.6-	910916 675 0.7+ 1.4-
510730	675	0.9-	0.5+	910914	675	0.1+	0.3-	910916 675 0.9+ 1.1-
811005	688	(5.5-	6.0-)	910914	675	0.4+	0.1-	910930 400 1.6+ 0.3+

910930	400	0.2-	0.4+	911010	691	1.2-	0.6+	911029	400	1.4-	0.5+
911005	400	1.3-	0.5+	911010	691	1.3-	0.4+	911029	400	0.2-	0.4-
911005	400	(0.8-	2.6+)	911018	400	0.3+	1.5+	911031	400	1.8+	0.6+
911010	691	1.2-	0.3+	911018	400	0.9-	0.2-	911031	400	1.9+	0.6-

1991 VG

Epoch 1992 June 27.0 TT = JDT 2448800.5				Yeomans & Chodas	
M	171.20382	(2000.0)		P	Q
n	0.94845157	Peri.	24.49907	-0.14808662	-0.98867646
a	1.0259494	Node	74.02435	+0.90315063	-0.14519585
e	0.0493068	Incl.	1.44680	+0.40297554	-0.03790808
P	1.04	H	28.8	G 0.15	

From 58 observations 1991 Nov. 6-1992 Apr. 27, mean residual 1".48.

1991 VM5 = 1977 XU1

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams	
M	110.00668	(2000.0)		P	Q
n	0.27823129	Peri.	266.95016	+0.91554764	+0.38855008
a	2.3237999	Node	70.16647	-0.31098039	+0.84771432
e	0.2127017	Incl.	6.34317	-0.25507589	+0.36112224
P	3.54	H	13.5	G 0.15	

Residuals in seconds of arc

771207	675	0.0	0.2-	911110	894	0.3+	0.0	911204	399	0.5+	0.5-
771208	675	0.0	0.2+	911110	894	0.0	0.8-	911204	399	0.8+	1.1+
911105	894	0.3+	0.6+	911112	894	0.2+	0.0	911207	399	0.5-	1.2-
911105	894	0.1-	0.5+	911112	894	0.8-	0.6-	911207	399	0.7-	1.0+

1992 EB1

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams	
M	10.37283	(2000.0)		P	Q
n	0.15888371	Peri.	231.11189	-0.89713798	+0.40548804
a	3.3761091	Node	331.50344	-0.19517337	-0.71979122
e	0.5714335	Incl.	21.55416	-0.39629637	-0.56345367
P	6.20	H	16.5	G 0.15	

From 24 observations 1992 Mar. 10-Aug. 22, mean residual 0".62.

1992 FE

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams	
M	210.53412	(2000.0)		P	Q
n	1.10407055	Peri.	82.24406	+0.82177694	-0.56644190
a	0.9271247	Node	312.23414	+0.48431559	+0.75154296
e	0.4053889	Incl.	4.79232	+0.30020172	+0.33812239
P	0.89	H	17.0	G 0.15	

From 26 observations 1992 Mar. 26-Aug. 23, mean residual 0".73.

1992 FL1

Epoch 1992 June 27.0 TT = JDT 2448800.5				Williams	
M	22.60393	(2000.0)		P	Q
n	0.24463150	Peri.	237.65514	-0.96169047	+0.26703330
a	2.5319850	Node	317.74156	-0.21016205	-0.86338402
e	0.4187739	Incl.	5.29044	-0.17602087	-0.42809025
P	4.03	H	16.5	G 0.15	

From 20 observations 1992 Mar. 26-Aug. 22, mean residual 0".38.

1992 FM1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 41.73543 (2000.0) P Q
n 0.28957611 Peri. 201.11675 -0.98535032 +0.13357428
a 2.2627030 Node 345.30843 -0.01347349 -0.68075851
e 0.1151158 Incl. 24.71338 -0.17000946 -0.72022619
P 3.40 H 14.0 G 0.15
From 17 observations 1992 Mar. 29-Aug. 22, mean residual 0".58.

1992 GA
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 23.40455 (2000.0) P Q
n 0.23024874 Peri. 247.04810 -0.94112239 +0.30044391
a 2.6363590 Node 310.06505 -0.18452983 -0.84067502
e 0.1173686 Incl. 11.68430 -0.28326205 -0.45055407
P 4.28 H 14.0 G 0.15
From 14 observations 1992 Apr. 4-June 22, mean residual 0".83.

1992 GE2 = 1990 US = 1990 UU11
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 174.63811 (2000.0) P Q
n 0.30362967 Peri. 43.74347 +0.66460164 -0.74717720
a 2.1923333 Node 4.61495 +0.66514173 +0.58821107
e 0.1397350 Incl. 3.96067 +0.34042788 +0.30940907
P 3.25 H 14.5 G 0.15
Residuals in seconds of arc

901017 095 (2.0-	3.6-)	920404 809	0.4-	0.6-	920423 809	0.5+	0.6-
901017 095	0.2-	0.4-	920406 809	0.7-	1.3+	920425 809	0.7-	1.4+
901023 017	1.5+	1.1+	920406 809	0.8+	0.0	920425 809	0.2-	0.7+
901024 017	1.3-	0.8-	920406 809	0.0	0.1+	920425 809	0.4-	0.1-
920404 809	0.1+	0.2-	920423 809	0.2+	1.0-			
920404 809	0.0	0.3-	920423 809	0.7+	0.8-			

1992 HE
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 1.70867 (2000.0) P Q
n 0.29379877 Peri. 262.59967 +0.24728641 +0.92803289
a 2.2409701 Node 27.32064 -0.45723634 +0.36524611
e 0.5717767 Incl. 37.36993 -0.85427417 +0.07314528
P 3.35 H 14.0 G 0.15
From 42 observations 1992 Apr. 25-Aug. 30, mean residual 0".56.

1992 HJ = 1968 HK = 1989 OF1
Id. S. Nakano (MPC 20345), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 358.13744 (2000.0) P Q
n 0.28948753 Peri. 129.95677 -0.37926059 +0.92235399
a 2.2631646 Node 117.60973 -0.87226485 -0.32983343
e 0.1209508 Incl. 4.76771 -0.30873198 -0.20117907
P 3.40 H 13.5 G 0.15
Residuals in seconds of arc

680422 095	3.1-	5.1+	920408 691	2.1-	0.0	920505 896	0.2-	0.8+
680426 095	6.2+	2.9+	920430 896	0.7+	2.0-	920729 801	0.6-	0.4+
890729 675	0.7-	1.8+	920430 896	0.5+	3.0-	920729 801	0.8-	0.5+
890729 675	0.1+	1.4+	920503 896	2.4+	0.7-	920731 801	0.0	1.5-
920408 691	1.9-	0.1-	920503 896	0.8+	1.8-	920731 801	1.0-	0.3+
920408 691	2.2-	0.1-	920505 896	0.2+	0.2-			

1992 HX = 1972 TE3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 287.21726 (2000.0) P Q
n 0.18586177 Peri. 273.45306 +0.80376488 +0.59460155
a 3.0409505 Node 50.06386 -0.53481759 +0.73703948
e 0.2005179 Incl. 1.51510 -0.26063799 +0.32128149
P 5.30 H 14.0 G 0.15
Residuals in seconds of arc

721005 095	0.5+	2.0-	920406 809	0.8-	0.3+	920424 691	1.1-	0.2-
721013 095	0.7-	2.5+	920406 809	0.7+	0.4+	920508 691	0.5+	0.2+
920404 809	1.0+	0.1+	920406 809	1.0+	0.8+	920508 691	0.5+	0.3-
920404 809	0.3-	0.1-	920424 691	1.5-	0.2-	920508 691	0.5+	0.2-
920404 809	0.8+	0.0	920424 691	1.2-	0.1-			

1992 HY = 1986 WU8
Id. A. Lowe
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 90.72232 (2000.0) P Q
n 0.25845362 Peri. 303.75964 -0.72456287 -0.68920571
a 2.4408868 Node 192.67351 +0.63536591 -0.66681054
e 0.0467752 Incl. 0.53171 +0.26705582 -0.28347698
P 3.81 H 14.5 G 0.15
Residuals in seconds of arc

861130 381 (9.1+	1.8+)		920406 809	0.5+	0.1+	920425 809	1.7+	0.4+
861130 381	0.6+	0.4-	920406 809	0.4+	0.7-	920425 809	1.8+	0.0
861201 381	0.3-	0.4+	920406 809	0.2+	0.7-	920508 691	0.2-	0.9-
861201 381	0.3-	0.4-	920424 691	1.5-	0.1+	920508 691	0.3-	0.1-
920404 809	0.1+	1.0+	920424 691	1.8-	0.0	920508 691	0.0	0.1-
920404 809	0.6-	0.9+	920424 691	1.7-	0.1+			
920404 809	0.6-	0.2-	920425 809	1.7+	0.2-			

1992 HZ3 = 1989 UD5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 347.20880 (2000.0) P Q
n 0.21200807 Peri. 226.09165 -0.50685467 +0.86196124
a 2.7854869 Node 13.46627 -0.77673488 -0.45112676
e 0.0741757 Incl. 2.70930 -0.37387333 -0.23131682
P 4.65 H 13.0 G 0.15
Residuals in seconds of arc

891030 807	0.2-	0.2-	920404 809	0.7+	0.4+	920423 809	1.8-	1.3+
891101 807	0.2+	0.2+	920404 809	0.1+	0.2+	920423 809	0.0	0.2-
920403 303	0.2+	0.5+	920406 809	0.2+	0.9-	920425 809	1.3+	0.1-
920403 303	0.4-	0.1-	920406 809	0.5-	1.1-	920425 809	0.6+	0.1-
920403 303	0.4+	0.3+	920406 809	0.9-	1.0-	920425 809	0.3+	0.9-
920404 809	0.3+	1.2+	920423 809	0.6-	0.5+			

1992 HG4 = 1959 NJ = 1977 FC1 = 1989 TS14
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 317.63531 (2000.0) P Q
n 0.26573886 Peri. 79.14893 +0.42900290 +0.90322557
a 2.3960691 Node 216.26274 -0.83638527 +0.39223865
e 0.2214124 Incl. 1.14654 -0.34119818 +0.17416199
P 3.71 H 14.5 G 0.15
Residuals in seconds of arc

590710 760	0.2-	0.2-	891002 809	0.5+	0.1+	891003 809	0.2-	0.0
590710 760	0.3+	0.0	891002 809	1.1+	0.1+	920404 809	1.7+	0.1-
770325 095	0.0	0.0	891003 809	0.9-	0.2-	920404 809	0.4+	0.2-
891002 809	0.0	0.1+	891003 809	0.4-	0.2-	920404 809	1.1+	0.9-

920406 809 0.1+ 1.1- 920423 809 1.6- 1.9+ 920425 809 0.2- 0.7+
920406 809 0.6- 1.1- 920423 809 0.7- 1.4+ 920425 809 0.6+ 0.4+
920406 809 0.5- 1.4- 920423 809 1.1- 0.2+ 920425 809 0.9+ 0.0

1992 JB
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 56.25691 (2000.0) P Q
n 0.50745909 Peri. 306.71956 -0.94759113 -0.26896914
a 1.5566896 Node 218.54108 +0.29919636 -0.93634782
e 0.3600241 Incl. 16.06423 -0.11203837 -0.22562879
P 1.94 H 17.5 G 0.15
From 45 observations 1992 Apr. 26-Aug. 21, mean residual 0".78.

1992 JE
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 344.17637 (2000.0) P Q
n 0.30411018 Peri. 109.46379 +0.54987799 +0.83488047
a 2.1900234 Node 193.97662 -0.79952376 +0.51758466
e 0.4629458 Incl. 5.86348 -0.24165256 +0.18729849
P 3.24 H 16.0 G 0.15
From 50 observations 1992 May 2-Sept. 1, mean residual 0".77.

1992 JG
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 341.13604 (2000.0) P Q
n 0.28919637 Peri. 239.29693 +0.47039203 +0.87853140
a 2.2646834 Node 58.98876 -0.77283187 +0.45560843
e 0.4246767 Incl. 5.56742 -0.42598384 +0.14353937
P 3.41 H 18.0 G 0.15
From 26 observations 1992 May 2-Aug. 22, mean residual 0".85.

1992 KD
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 9.61707 (2000.0) P Q
n 0.27510944 Peri. 355.34226 -0.52795320 +0.73344618
a 2.3413467 Node 242.18286 -0.76272102 -0.63121625
e 0.4337048 Incl. 28.95376 -0.37352652 +0.25223548
P 3.58 H 16.0 G 0.15
From 47 observations 1992 May 27-Sept. 1, mean residual 0".71.

1992 LC
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 20.77765 (2000.0) P Q
n 0.24664322 Peri. 89.59499 -0.83722564 -0.47520015
a 2.5181983 Node 62.01306 +0.29364489 -0.80813129
e 0.7055437 Incl. 17.84632 +0.46133059 -0.34800667
P 4.00 H 15.0 G 0.15
From 25 observations 1992 June 4-Aug. 23, mean residual 0".92.

1992 LE
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 347.38281 (2000.0) P Q
n 0.20089773 Peri. 136.62854 +0.34594415 +0.93114870
a 2.8872609 Node 152.98860 -0.91517561 +0.36195797
e 0.2976411 Incl. 14.70141 -0.20682421 -0.04414215
P 4.91 H 13.5 G 0.15
From 18 observations 1992 June 3-Aug. 21, mean residual 0".73.

1992 LM
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 93.07077 (2000.0) P Q
n 0.22744510 Peri. 69.81447 -0.80684871 -0.57992476
a 2.6579797 Node 74.57993 +0.48897760 -0.76256421
e 0.0934222 Incl. 6.70870 +0.33150574 -0.28667594
P 4.33 H 12.5 G 0.15
From 19 observations 1992 June 3-Aug. 22, mean residual 0".88.

1992 LN
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 33.72018 (2000.0) P Q
n 0.26826540 Peri. 123.72920 -0.83637611 +0.53271508
a 2.3810011 Node 88.77553 -0.53591122 -0.74512378
e 0.0637013 Incl. 7.42440 -0.11521360 -0.40125453
P 3.67 H 13.5 G 0.15
From 20 observations 1992 Apr. 28-Aug. 22, mean residual 0".60.

1992 LQ
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 325.88538 (2000.0) P Q
n 0.19005009 Peri. 211.57654 +0.28684227 +0.93842341
a 2.9961070 Node 75.69873 -0.83233333 +0.34365456
e 0.0686776 Incl. 11.46259 -0.47428129 -0.03553936
P 5.19 H 12.5 G 0.15
From 17 observations 1992 Apr. 28-Aug. 22, mean residual 0".80.

1992 LR
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 348.70624 (2000.0) P Q
n 0.39804431 Peri. 67.50279 +0.51350854 +0.85761517
a 1.8302698 Node 233.42597 -0.79969250 +0.46631262
e 0.4088430 Incl. 2.02489 -0.31112840 +0.21690726
P 2.48 H 18.0 G 0.15
From 100 observations 1992 May 21-Aug. 26, mean residual 0".67.

1992 LU
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 48.37130 (2000.0) P Q
n 0.23666039 Peri. 15.85069 -0.98059806 +0.19496113
a 2.5885248 Node 175.24794 -0.19569673 -0.96753273
e 0.1090638 Incl. 14.28059 -0.01141182 -0.16084331
P 4.16 H 13.0 G 0.15
From 10 observations 1992 June 4-Aug. 21, mean residual 0".57.

1992 MB = 1972 RY = 1976 YB8 = 1978 EB3 = 1979 SG11 = 1979 TG2 = 1989 SO11
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 312.18423 (2000.0) P Q
n 0.29177104 Peri. 146.75913 +0.89205286 +0.45183937
a 2.2513409 Node 186.39911 -0.43040852 +0.84325559
e 0.1594278 Incl. 4.68508 -0.13780492 +0.29113777
P 3.38 H 13.6 G 0.15
Residuals in seconds of arc

720909	095	(6.4+	1.8-)	790924	095	1.0-	0.3+	890930	809	0.1+	0.2-
720910	095	0.2+	0.8-	791014	095	1.7+	1.1-	891001	809	0.1-	0.1+
761220	095	0.5+	0.9-	890930	809	1.4-	0.2-	891001	809	0.4+	0.3+
780306	095	1.6-	1.5-	890930	809	0.7-	0.3-	891001	809	0.9+	0.2+

920622 399 1.8+ 0.6+ 920624 399 (2.6+ 0.0) 920629 399 2.1- 1.2-
920622 399 2.4+ 0.0 920627 399 0.5- 0.1- 920629 399 2.2- 0.4+
920624 399 1.7+ 0.1- 920627 399 (2.9- 0.2-)

1992 MM = 1961 CC1 = 1980 BG5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 111.11477 (2000.0) P Q
n 0.26389320 Peri. 62.55104 -0.68741387 -0.72419472
a 2.4072281 Node 70.98613 +0.64419759 -0.64284624
e 0.0377797 Incl. 3.32350 +0.33536793 -0.24958109
P 3.73 H 13.0 G 0.15
Residuals in seconds of arc
610215 033 2.2- 0.2- 610217 033 1.6- 1.4- 920608 675 0.3+ 1.7-
610215 033 1.5+ 0.4+ 610217 033 0.6+ 0.0 920627 675 0.0 1.2+
610215 033 1.4+ 1.2- 800122 095 0.2+ 0.8+ 920627 675 0.5+ 0.2-
610215 033 0.4+ 1.0+ 920604 675 1.3- 0.3- 920629 675 1.3+ 0.8+
610217 033 0.0 0.3+ 920604 675 0.4- 0.6- 920629 675 0.2- 0.7+

1992 NA
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 338.85655 (2000.0) P Q
n 0.26644121 Peri. 7.83249 +0.99867170 +0.04151303
a 2.3918565 Node 349.64009 -0.05144303 +0.83673874
e 0.5615441 Incl. 9.77138 +0.00290552 +0.54602650
P 3.70 H 16.5 G 0.15
From 34 observations 1992 July 1-Aug. 31, mean residual 0".61.

1992 OG = 1986 KB = 1989 NB
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 299.73559 (2000.0) P Q
n 0.36841126 Peri. 251.17954 +0.73773098 -0.63499842
a 1.9271438 Node 147.03914 +0.65841414 +0.75177177
e 0.1132914 Incl. 24.91428 -0.14914364 +0.17780950
P 2.68 H 14.0 G 0.15
Residuals in seconds of arc
860530 675 (6.2- 0.3-) 890702 675 0.2- 1.0- 920729 413 0.7+ 1.7-
860530 675 2.6- 0.7+ 890704 675 0.1- 0.3+ 920730 413 1.0- 1.0+
860602 675 2.6+ 0.1- 890704 675 0.8+ 0.5- 920821 413 0.6+ 0.2-
860602 675 (4.8+ 2.4+) 920728 413 0.0 0.2- 920821 413 0.6+ 0.1-
890702 675 0.4- 0.6+ 920728 413 1.5- 1.2+ 920825 413 0.2+ 0.4+

1992 OM
Epoch 1992 Aug. 6.0 TT = JDT 2448840.5 Williams
M 7.27497 (2000.0) P Q
n 0.30326721 Peri. 346.81442 +0.51242175 +0.85253955
a 2.1940798 Node 313.89840 -0.77434072 +0.40689780
e 0.4084165 Incl. 8.21473 -0.37124169 +0.32804039
P 3.25 H 16.0 G 0.15
From 25 observations 1992 July 27-Aug. 27.

1992 QN
Epoch 1992 Aug. 26.0 TT = JDT 2448860.5 Williams
M 100.25784 (2000.0) P Q
n 0.75858664 Peri. 202.04398 -0.94997071 +0.31213184
a 1.1906915 Node 356.09037 -0.25584470 -0.79851720
e 0.3587907 Incl. 9.60274 -0.17916234 -0.51472711
P 1.30 H 16.5 G 0.15
From 11 observations 1992 Aug. 29-Sept. 5.

1992 QR = 1991 CG3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 303.08145 (2000.0) P Q
n 0.36937861 Peri. 239.62731 +0.83081667 -0.52231339
a 1.9237777 Node 150.54102 +0.54037827 +0.83968863
e 0.1047681 Incl. 23.00206 -0.13317279 +0.14870015
P 2.67 H 14.0 G 0.15
Residuals in seconds of arc

910214	675	1.9-	0.3+	910216	675	0.3+	0.5-	920827 675 0.4+ 0.1+
910214	675	0.5+	0.2-	920823	675	0.4-	0.6+	920827 675 0.5- 0.4+
910216	675	1.2+	0.5+	920823	675	0.4+	0.6-	920828 675 0.1+ 0.6-

2561 P-L = 1978 TT4 = 1978 WB21
Id. E. Bowell, G. V. Williams (d)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 223.99680 (2000.0) P Q
n 0.22073015 Peri. 161.18836 -0.99225113 +0.08239455
a 2.7116165 Node 24.12162 -0.12118039 -0.80706470
e 0.0646245 Incl. 13.15361 +0.02744095 -0.58468600
P 4.47 H 13.5 G 0.15
Residuals in seconds of arc

600924	675	0.5-	0.7+	601017	675	0.3+	0.2+	781007 095 0.4- 0.1-
600926	675	0.3+	0.4+	601022	675	0.8-	0.1-	781128 675 0.4+ 0.1-
600928	675	0.5+	0.7-	601025	675	0.3+	0.9-	781129 675 0.0 0.4+
600929	675	0.4+	0.1+	601026	675	0.5-	0.2+	

4072 P-L = 1992 PH
Id. B. G. Marsden, E. Bowell
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 30.35238 (2000.0) P Q
n 0.27434466 Peri. 18.69081 -0.26640696 +0.96313110
a 2.3456959 Node 235.87480 -0.88999820 -0.26073989
e 0.2251966 Incl. 2.59600 -0.37004128 -0.06628122
P 3.59 H 15.5 G 0.15
Residuals in seconds of arc

600924	675	0.2-	0.3-	601022	675	0.9-	1.4-	920807 675 0.2+ 0.8+
600924	675	0.4-	0.0	601024	675	1.7+	1.8+	920808 010 1.0+ 0.3+
600925	675	1.1+	0.0	601026	675	0.6-	0.5-	920808 010 0.7- 0.8-
600926	675	0.2+	0.6-	920804	675	0.3-	0.3+	920808 010 0.7- 0.7-
600928	675	0.6-	0.2+	920805	675	0.7-	0.4+	920809 010 0.5+ 0.2-
601017	675	0.3-	0.3+	920805	675	0.1+	0.0	920809 010 0.1- 0.4-
601017	675	0.0	0.5+	920807	675	0.7+	0.3+	920809 010 0.1+ 0.0

4095 P-L = 1978 UJ8
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 340.27782 (2000.0) P Q
n 0.22045950 Peri. 206.91639 +0.19859854 -0.97826646
a 2.7138354 Node 231.68859 +0.91233277 +0.20674853
e 0.1395211 Incl. 4.35695 +0.35806081 +0.01580410
P 4.47 H 15.3 G 0.15
Residuals in seconds of arc

600924	675	0.1+	0.2+	601017	675	0.5-	0.2+	781028 675 0.8- 0.8-
600925	675	1.2-	0.8-	601022	675	0.2+	1.5+	781029 675 1.5+ 0.3+
600926	675	1.2+	0.5+	601026	675	0.4-	0.6+	781128 675 0.1+ 0.2-
600928	675	0.3+	1.5-	781027	675	0.7-	0.0	781129 675 0.2+ 0.1+

4607 P-L = 1978 UQ7
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M 206.56064	(2000.0)	P	Q	
n 0.22191408	Peri. 185.32197	-0.91106771	+0.41110136	
a 2.7019635	Node 19.04353	-0.37466503	-0.79445811	
e 0.1180369	Incl. 5.42417	-0.17199347	-0.44702571	
P 4.44	H 13.7	G 0.15		

Residuals in seconds of arc

600924 675	0.2+	0.0	601022 675	0.4+	0.7+	781029 675	0.9-	0.5+
600926 675	0.4+	0.0	601025 675	0.3+	0.7-	781128 675	0.8+	0.3-
600927 675	0.7+	0.1+	601026 675	0.7-	0.1-	781129 675	0.4-	0.3-
600928 675	0.1-	0.1+	781027 675	0.3-	0.4+			
601017 675	1.3-	0.3-	781028 675	0.8+	0.3-			

5011 P-L = 1978 UH5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M 36.51910	(2000.0)	P	Q	
n 0.21965119	Peri. 118.66043	+0.99626406	-0.03124501	
a 2.7204892	Node 243.23007	+0.00027036	+0.93337860	
e 0.0250129	Incl. 5.17358	+0.08635885	+0.35753061	
P 4.49	H 14.6	G 0.15		

Residuals in seconds of arc

600929 675	0.1-	0.1-	601026 675	0.4-	0.1+	781029 675	0.0	0.1+
601022 675	0.1-	0.1+	781027 675	0.0	0.1-			
601025 675	0.4+	0.2-	781028 675	0.1-	0.0			

9057 P-L = 1978 UG6
Id. E. Bowell
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

M 97.59545	(2000.0)	P	Q	
n 0.27674734	Peri. 270.95019	-0.71859279	+0.69417047	
a 2.3320995	Node 313.01255	-0.61311562	-0.66079035	
e 0.1095038	Incl. 3.28140	-0.32819757	-0.28545309	
P 3.56	H 14.5	G 0.15		

Residuals in seconds of arc

600924 675	0.4-	0.4-	601024 675	0.0	0.6-	781028 675	0.6+	0.7+
601017 675	0.9+	0.5+	601026 675	0.7-	0.6+	781029 675	0.3-	0.6-
601022 675	0.2+	0.0	781027 675	0.2-	0.2-			

1188 T-1 = 1992 PR3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

M 62.30623	(2000.0)	P	Q	
n 0.29096278	Peri. 240.77584	-0.61936184	+0.78491965	
a 2.2555083	Node 350.89564	-0.67761841	-0.54543292	
e 0.1311230	Incl. 6.20010	-0.39651507	-0.29394569	
P 3.39	H 14.1	G 0.15		

Residuals in seconds of arc

710324 675	0.1+	0.3+	710402 675	1.6+	0.1+	920805 675	0.4-	0.2+
710325 675	0.8+	0.5+	710416 675	2.0-	0.4-	920805 675	1.0-	0.2+
710325 675	0.2+	0.4+	710416 675	1.7-	0.1+	920806 675	1.1+	0.9+
710326 675	0.9+	0.6-	710513 675	0.3+	0.7-	920806 675	0.2+	1.0-
710327 675	0.3-	0.1-	710514 675	0.1+	0.5+			

2291 T-1 = 1981 UX21
Id. E. Bowell (MPC 20516)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 239.79613 (2000.0) P Q
n 0.23063903 Peri. 245.87486 +0.73580213 +0.67400322
a 2.6333839 Node 71.67618 -0.59348758 +0.68852335
e 0.2167728 Incl. 3.96783 -0.32614064 +0.26768497
P 4.27 H 13.2 G 0.15
Residuals in seconds of arc

710324	675	(3.1-	0.8+)	710327	675	1.5-	0.3+	811024 675 0.1+ 0.0
710325	675	0.9+	0.3-	710402	675	(4.2+	0.3+)	811025 675 0.1+ 0.2-
710325	675	1.2+	0.9-	771207	675	0.5+	0.2-	811026 675 0.2- 0.2+
710326	675	0.7-	0.9+	771208	675	0.5-	0.2+	

3057 T-1 = 1977 XA3
Id. S. J. Bus
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 21.79484 (2000.0) P Q
n 0.24512795 Peri. 42.36078 +0.05788429 +0.99776986
a 2.5285652 Node 230.98510 -0.92702708 +0.04136487
e 0.0454326 Incl. 2.45170 -0.37049993 +0.05238554
P 4.02 H 15.3 G 0.15
Residuals in seconds of arc

710324	675	1.1+	1.1-	710327	675	0.6-	1.4+	771207 675 0.4- 0.1-
710325	675	1.3+	0.4+	710402	675	0.5-	0.8-	771208 675 0.4+ 0.1+
710326	675	0.2+	0.2-	710416	675	0.1+	0.7-	
710326	675	0.7-	0.3-	710416	675	0.9-	1.4+	

1010 T-2 = 1989 XG
Id. T. Kobayashi (MPC 15906)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 57.32276 (2000.0) P Q
n 0.18917846 Peri. 318.94342 -0.95255745 -0.29684391
a 3.0053030 Node 204.04088 +0.30405003 -0.91814895
e 0.0921814 Incl. 9.49681 +0.01370738 -0.26246182
P 5.21 H 12.0 G 0.15
Residuals in seconds of arc

730929	675	0.9-	0.2+	731005	675	1.0-	0.6+	920404 809 0.2+ 0.1+
730929	675	0.5+	0.6+	891124	675	1.2+	0.0	920404 809 0.2- 0.1-
730930	675	1.3-	1.4+	891124	675	0.8+	1.4+	920404 809 0.1- 0.5+
730930	675	1.3-	0.9+	891202	010	1.3-	0.5-	920406 809 0.0 0.4-
731004	675	2.1+	2.6-	891202	010	0.8+	0.6+	920406 809 0.3- 0.2-
731004	675	2.4+	2.5-	891202	010	0.4-	1.1-	920406 809 0.3+ 0.5-
731005	675	0.5-	1.3+	891203	010	1.0-	1.0-	

1158 T-2 = 1977 XZ1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 343.69497 (2000.0) P Q
n 0.26525029 Peri. 187.88727 +0.61474513 -0.78846089
a 2.3990105 Node 224.18232 +0.72523334 +0.57525591
e 0.2028271 Incl. 1.68072 +0.31004036 +0.21773852
P 3.72 H 16.0 G 0.15
Residuals in seconds of arc

730919	675	1.0-	0.3-	730925	675	0.3+	0.2-	731004 675 0.2- 1.7-
730919	675	0.9+	1.0-	730929	675	0.3+	0.3+	731005 675 0.2- 0.5-
730920	675	0.5-	0.3+	730929	675	0.1-	1.3+	731005 675 1.1+ 0.7+
730924	675	0.8+	0.7+	730930	675	1.8-	0.5+	771207 675 0.1- 0.2+
730924	675	1.0+	1.1+	730930	675	1.5-	0.7+	771208 675 0.1+ 0.1-
730925	675	(0.7-	2.7-)	731004	675	1.0+	1.8-	

1310 T-2 = 1977 XY2
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 6.19806 (2000.0) P Q
n 0.26644578 Peri. 345.23330 +0.85744124 -0.51393127
a 2.3918291 Node 45.72294 +0.47570716 +0.77249483
e 0.1869286 Incl. 2.07055 +0.19620706 +0.37299650
P 3.70 H 15.5 G 0.15
Residuals in seconds of arc

730919	675	0.9+	0.8-	730925	675	0.4+	0.4-	731004	675	0.8-	1.2-
730919	675	0.3-	0.0	730925	675	0.7-	0.3-	731004	675	0.3+	0.2-
730920	675	0.2+	1.0-	730925	675	1.2-	2.0+	731004	675	0.3-	0.1+
730920	675	(3.2+	2.8+)	730925	675	0.7-	0.9+	731004	675	1.4+	0.1+
730920	675	0.1+	0.7-	730929	675	1.3+	2.0-	731005	675	0.2+	1.1-
730924	675	(0.7+	3.2+)	730929	675	0.2-	0.5+	731005	675	0.4+	0.8+
730924	675	0.2+	1.1+	730929	675	2.3+	0.5-	731005	675	1.0-	0.9-
730924	675	(0.6+	3.1+)	730929	675	0.1+	0.2+	731005	675	0.0	0.9+
730924	675	0.2+	0.4-	730930	675	0.4-	0.4+	771207	675	0.5+	0.4+
730925	675	1.1-	1.7+	730930	675	1.4-	0.6+	771208	675	0.5-	0.4-

1360 T-2 = 1978 UG8
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 352.11281 (2000.0) P Q
n 0.20310324 Peri. 114.15872 +0.71701207 +0.69701372
a 2.8663210 Node 201.65629 -0.64724047 +0.66140814
e 0.0903161 Incl. 1.25728 -0.25879231 +0.27696777
P 4.85 H 14.2 G 0.15
Residuals in seconds of arc

730919	675	1.2-	0.1+	730929	675	0.0	1.3+	731005	675	0.2-	0.5-
730919	675	0.8+	0.4+	730930	675	0.9+	0.4+	731005	675	1.4-	0.5-
730920	675	0.2+	0.3+	730930	675	0.0	0.1-	731005	675	0.4+	1.5-
730924	675	0.3-	1.2+	730930	675	1.4+	0.7+	781027	675	0.4-	0.5+
730924	675	1.0-	0.3+	730930	675	0.8+	0.5-	781028	675	0.0	0.3-
730925	675	0.4-	2.1-	731004	675	0.4-	0.1-	781029	675	0.0	1.2+
730925	675	0.6+	0.5-	731004	675	1.6+	0.5-	781128	675	0.2+	0.4-
730929	675	1.1-	0.7+	731004	675	1.2-	0.0	781129	675	0.0	0.4-
730929	675	1.1+	0.4+	731004	675	0.8+	0.4-				
730929	675	0.7-	1.2+	731005	675	0.5-	1.0-				

2280 T-2 = 1991 CE3
Id. G. V. Williams (MPC 17977)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 151.02547 (2000.0) P Q
n 0.30575714 Peri. 337.53191 -0.90375175 -0.42804823
a 2.1821519 Node 177.11995 +0.40055169 -0.84791818
e 0.0515138 Incl. 3.12302 +0.15096730 -0.31274507
P 3.22 H 15.0 G 0.15
Residuals in seconds of arc

730925	675	0.8+	1.6-	731005	675	2.6-	0.3+	910320	801	0.4-	0.6-
730925	675	2.1+	0.9-	731005	675	0.7-	0.5-	910320	801	0.4-	0.7-
730929	675	1.2+	0.5-	910212	372	1.2+	1.8+	920808	010	2.2-	0.5-
730929	675	1.3+	0.1-	910212	372	0.9-	0.8-	920808	010	1.1-	1.0+
730930	675	1.7+	0.4+	910219	372	1.7-	0.9-	920808	010	1.2-	1.0-
730930	675	0.7-	0.9-	910219	372	2.3+	0.2-	920809	010	(5.3+	1.5+)
731004	675	1.1-	1.5+	910317	801	0.5-	0.5-	920809	010	2.3+	0.0
731004	675	1.4-	0.6+	910317	801	0.6-	0.8-	920809	010	2.5+	0.8-

5137 T-2 = 1992 GS3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 24.22725 (2000.0) P Q
n 0.24328482 Peri. 350.85372 -0.90948010 +0.39331190
a 2.5413201 Node 213.34274 -0.36426348 -0.91005480
e 0.0991296 Incl. 14.18881 -0.20039476 -0.13078995
P 4.05 H 15.5 G 0.15
Residuals in seconds of arc

730920	675	2.2+	0.7-	730930	675	0.1-	0.1+	920404	809	0.3+	0.8-
730920	675	(2.7+	1.5-)	730930	675	0.1-	0.6-	920406	809	0.6-	0.2+
730924	675	(0.7+	3.5+)	731004	675	1.6-	1.0+	920406	809	0.4+	0.1+
730924	675	1.5-	1.8+	731004	675	(2.9-	2.0-)	920406	809	0.0	0.1-
730925	675	0.3-	1.2-	731005	675	0.6+	0.2+	920425	809	0.0	0.4+
730925	675	0.6-	0.6-	731005	675	0.1-	1.5-	920425	809	0.1-	0.0
730929	675	0.5+	0.6+	920404	809	0.1-	0.6+	920425	809	0.1+	0.5-
730929	675	1.0+	1.0+	920404	809	0.0	0.0				

3109 T-3 = 1992 GA3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 13.46070 (2000.0) P Q
n 0.17137322 Peri. 212.05320 -0.87956410 +0.47578028
a 3.2100176 Node 356.35691 -0.43538885 -0.80517955
e 0.1108587 Incl. 0.30492 -0.19184250 -0.35400425
P 5.75 H 13.5 G 0.15
Residuals in seconds of arc

771007	675	1.1+	0.3-	771017	675	0.8-	1.1+	920404	809	0.0	0.8+
771011	675	1.9-	0.2+	771017	675	(3.6-	1.7+)	920404	809	0.5+	0.1+
771011	675	(0.1+	3.0+)	771021	675	0.2+	0.1-	920406	809	0.3-	0.2+
771012	675	0.0	1.0+	771021	675	1.6+	0.6+	920406	809	0.6-	1.0-
771012	675	0.3-	0.7+	771022	675	0.3-	0.3+	920406	809	0.7-	0.8-
771016	675	1.0+	1.1-	771022	675	0.7-	1.5-				
771016	675	0.2+	1.0-	920404	809	1.1+	0.6+				

3220 T-3 = 1981 JN5
Id. E. Bowell (MPC 19883)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 322.09565 (2000.0) P Q
n 0.17710559 Peri. 97.42898 +0.10392865 +0.99458466
a 3.1403728 Node 178.53625 -0.91924516 +0.09622683
e 0.1243390 Incl. 0.99784 -0.37971985 +0.03926524
P 5.57 H 13.5 G 0.15
Residuals in seconds of arc

771007	675	1.0-	0.3+	771017	675	0.5+	1.8+	810509	675	0.2-	0.1+
771011	675	1.6-	0.3+	771017	675	0.5-	0.2+	920404	809	1.5+	0.4+
771011	675	1.3-	0.5+	771021	675	0.5-	0.6-	920404	809	0.5+	0.5+
771012	675	0.4+	0.8+	771021	675	0.2-	0.5-	920404	809	1.0+	0.6-
771012	675	0.8+	0.8-	771022	675	2.8+	0.7-	920406	809	0.7-	0.3-
771016	675	0.2+	0.4+	771022	675	0.5+	0.6-	920406	809	0.7-	0.6+
771016	675	0.1-	1.0-	810508	675	0.1+	0.5-	920406	809	1.5-	0.2-

3226 T-3 = 1992 GR3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 123.35104 (2000.0) P Q
n 0.23463459 Peri. 58.49570 -0.01132763 -0.99451824
a 2.6034028 Node 32.64725 +0.83960768 -0.06591858
e 0.1451185 Incl. 11.10962 +0.54307516 +0.08116779
P 4.20 H 14.0 G 0.15

Residuals in seconds of arc

771007	675	0.9-	0.7-	771016	675	1.5+	0.1-	920404	809	1.4+	0.0
771007	675	0.5+	0.1+	771016	675	1.1+	0.2-	920404	809	0.1-	0.1+
771011	675	1.5-	1.3+	771016	675	0.0	0.9+	920404	809	1.9+	1.2-
771011	675	(3.1+	1.9+)	771017	675	0.6-	1.2-	920406	809	1.1-	1.2-
771011	675	1.5-	2.0+	771017	675	0.7+	0.6+	920406	809	0.9-	0.2-
771011	675	(2.4+	0.7+)	771017	675	1.0-	0.4-	920406	809	1.6-	0.1+
771012	675	0.5-	0.1+	771017	675	0.2+	0.1-	920425	809	0.0	0.3+
771012	675	0.1-	0.3+	771021	675	0.7+	0.6-	920425	809	0.9-	0.2+
771012	675	0.9-	0.7-	771021	675	0.7+	0.4+	920425	809	0.7+	0.4+
771012	675	0.2-	0.2+	771022	675	1.0+	0.9-				
771016	675	1.2+	0.9-	771022	675	0.4+	1.5-				

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NEW NAMES OF MINOR PLANETS.

(2740) Tsoj = 1974 SY4

Discovered 1974 Sept. 26 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Named in memory of Victor Robertovich Tsoj (1962-1990), poet, composer and soloist of the rock-group Kino.

(2743) Chengdu = 1965 WR

Discovered 1965 Nov. 21 at the Purple Mountain Observatory.

Named for the capital of Sichuan province in southwestern China. Located in the heart of the Sichuan basin, Chengdu was the capital of the Shu-Han dynasty during the Three Kingdoms period of Chinese history. Today, Chengdu is a major agricultural and industrial center, and it is also the homeland of the Giant Panda.

(2778) Tangshan = 1979 XP

Discovered 1979 Dec. 14 at the Purple Mountain Observatory.

Named for a city in Hebei province in northern China with a long history and flourishing industry. Tangshan city overlooks Bohai Bay, which is rich in natural resources. The coal, iron and steel and power industries are its economic pillars, and the city is well known as the "granary of eastern Hebei province", the "northern city of coal" and the "northern center of porcelain".

(2850) Mozhaiskij = 1978 TM7

Discovered 1978 Oct. 2 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Named in memory of Aleksandr Fedorovich Mozhaiskij (1825-1890), Russian inventor and pioneer of flight.

(2851) Harbin = 1978 UQ2

Discovered 1978 Oct. 30 at the Purple Mountain Observatory.

Named for the city in the north of China, famed as "the jewel of the Eurasia Continent Bridge". Harbin is the capital of Heilongjiang province and is a popular summer resort, on account of its cool and pleasant climate.

(3011) Chongqing = 1978 WM14

Discovered 1978 Nov. 26 at the Purple Mountain Observatory.

Named for a city in southwestern China on the upper reach of the Yangtse River. Founded more than 3000 years ago, Chongqing was the capital of Ba state in ancient times as well as the provisional capital of China from 1937 to 1946.

(3051) Nantong = 1974 YP
Discovered 1974 Dec. 19 at the Purple Mountain Observatory.
Named for the industrial port city at the mouth of the Yangtse, on the Yellow Sea. The city has a long history of education and culture, and the first school and the first museum in China were here.

(3283) Skorina = 1979 QA10
Discovered 1979 Aug. 27 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Francis Skorina, who lived from before 1490 to not later than 1551, and who pioneered printing in Belorus.

(3410) Vereshchagin = 1978 SZ7
Discovered 1978 Sept. 26 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.
Named for Vasilij Vasil'evich Vereshchagin (1842-1904), Russian publicist and war artist.

(3442) Yashin = 1978 TO7
Discovered 1978 Oct. 2 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.
Named in memory of Lev Ivanovich Yashin (1929-1990), football goalkeeper and trainer.

(3466) Ritina = 1975 EA6
Discovered 1975 Mar. 6 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of discoverer's daughter Margarita, an astronomer at the Crimean Astrophysical Observatory.

(3470) Yaronika = 1975 ES
Discovered 1975 Mar. 6 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of the discoverer's son Yaroslav, who works in electronics at the Crimean Astrophysical Observatory.

(3493) Stepanov = 1976 GR6
Discovered 1976 Apr. 3 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in memory of Vladimir Evgen'evich Stepanov (1913-1986), a corresponding member of the former Soviet Academy of Sciences, well-known for his work in solar physics and solar-terrestrial relations. For many years he led the solar researches at the Siberian Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation, and he did much for the development of astronomy in Siberia.

(3517) Tatianicheva = 1976 SE1
Discovered 1976 Sept. 24 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in memory of the lyric poetess Lyudmila Konstantinovna Tatianicheva (1915-1980).

(3557) Sokolsky = 1977 QE1
Discovered 1977 Aug. 19 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Andrej Georgievich Sokolskij, director of the Institute of Theoretical Astronomy in St. Petersburg, known for his work on the theory of periodic and quasiperiodic solutions of Hamiltonian systems.

As founder and executive director of the International Institute for Problems of the Asteroid Hazard he is much involved in the current international interest in Near-Earth asteroids.

(3591) Vladimirskij = 1978 QJ2
Discovered 1978 Aug. 31 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Boris Mikhajlovich Vladimirskij, astronomer at the Crimean Astrophysical Observatory since 1958, well known for his researches in various fields of astronomy, especially high-energy astrophysics and solar-terrestrial relations.

(3601) Velikhov = 1979 SP9
Discovered 1979 Sept. 22 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Evgenij Pavlovich Velikhov, member of the Russian Academy of Sciences, renowned for his research in plasma physics, magneto-hydrodynamics and controllable thermonuclear synthesis. He is the president of the International Center for Scientific Culture-World Laboratory.

(3618) Kuprin = 1979 QP8
Discovered 1979 Aug. 20 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Aleksandr Ivanovich Kuprin (1870-1938), famous Russian writer.

(3632) Grachevka = 1976 SJ4
Discovered 1976 Sept. 24 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named for a village in the Tambov (now Lipetsk) region in Russia, the birthplace of the discoverer's parents, Stepan Semenovich Chernykh (1904-1942) and Melaniya Petrovna Chernykh (1910-1977).

(3661) Dolmatovskij = 1979 UY3
Discovered 1979 Oct. 16 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Evgenij Aronovich Dolmatovskij, poet and publicist.

(3669) Vertinskij = 1982 UO7
Discovered 1982 Oct. 21 by L. G. Karachkina at the Crimean Astrophysical Observatory.
Named in memory of Aleksandr Nikolaevich Vertinskij (1889-1957), variety actor, composer and poet, famous for his sincere rendition of songs with words by Blok, Akhmatova and Tsvetaeva.

(3762) Amaravella = 1976 QN1
Discovered 1976 Aug. 26 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named for a group of Russian painters, known for the cosmic themes of their work.

(3818) Gorlitsa = 1979 QL8
Discovered 1979 Aug. 20 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Mariya Avksent'evna Rudenko, village schoolmistress in the Ukrainian region of Mogilev-Podol'skij, collector of Ukrainian folklore, and founder and leader of Gorlitsa. Meaning turtle-dove, this women's amateur chorus is very popular throughout Ukraine.

(3836) Lem = 1979 SR9
Discovered 1979 Sept. 22 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Stanislaw Lem (1921-), famous Polish writer and founder of the Polish Astronautical Society.

(3839) Bogaevskij = 1971 OU
Discovered 1971 July 26 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Konstantin Fedorovich Bogaevskij (1872-1943), Russian painter who lived and worked in the Crimea for many years and who devoted many of his paintings to the eastern part of that peninsula.

(3845) Neyachenko = 1979 SA10
Discovered 1979 Sept. 22 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Il'ya Isakovich Neyachenko, journalist and amateur astronomer from Yalta, known for his research on the history of the Simeis Astronomical Observatory and the names of minor planets discovered there.

(3856) Lutskij = 1976 QX
Discovered 1976 Aug. 26 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Valerij Konstantinovich Lutskij, Moscow astronomer and scientific commentator on astronomy and space exploration. An authority on the history of astronomy, he has been a scientific consultant at the Moscow Planetarium for many years.

(4391) Balodis = 1977 QW2
Discovered 1977 Aug. 21 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Janis Balodis, chief of the cosmic geodesy department at the Astronomical Observatory of the Latvian University, known for his work on astrometric and laser observations of artificial satellites and on methods of mathematical reductions in photographic astrometry. A set of his computer programs has been used in the Crimean minor planet service for many years.

(4392) Agita = 1978 RX5
Discovered 1978 Sept. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.
Named in honor of Agita Tarasova, a scientific worker at the Astronomical Observatory of the Latvian University, engaged in the mathematical reduction of observations and in the preparation of computer programs. She has rendered valuable assistance to the Crimean minor planet service by installing the Balodis reduction programs on the CrAO computer.

(4556) Gumilyov = 1987 QW10
Discovered 1987 Aug. 27 by L. G. Karachkina at the Crimean Astrophysical Observatory.
Named in memory of Nikolaj Stepanovich Gumilyov (1886-1921), famous poet and dramatist. He was one of the founders of acmeism, a poetic tendency that was popular among the Russian intelligentsia at the beginning of the current century.

(4645) Tentaikojo = 1990 SP4
Discovered 1990 Sept. 16 by T. Fujii and K. Watanabe at Kitami.

Named for a museum of stars and their images, scheduled to be opened in Sapporo in 1993. Originally built in 1892 as a brewery, the historic and beautiful building is becoming a "star factory", where visitors can experience displays and stories about constellations and the birth of stars.

(4712) Iwaizumi = 1989 QE
Discovered 1989 Aug. 25 by K. Endate and K. Watanabe at Kitami.
Named for a forestry town of population 15 000 in the eastern part of Iwate Prefecture. Birthplace of the first discoverer, Iwaizumi is famous for Ryusen-Do Cave, one of the Big Three Limestone Caves in Japan.

(4839) Daisetsuzan = 1989 QG
Discovered 1989 Aug. 25 by K. Endate and K. Watanabe at Kitami.
Named for the Daisetsuzan Mountains, which rise to the height of about 2000 meters in central Hokkaido. The mountains are a treasury of the beauty of nature. A quasi-national park, it contains many marshy districts and great stocks of alpine plants.

(4845) Tsubetsu = 1991 EC1
Discovered 1991 Mar. 5 by K. Endate and K. Watanabe at Kitami.
Named for a timber town, with a population of less than 9000, in eastern Hokkaido. The first discoverer spent his boyhood in Tsubetsu between 1966 and 1972.

(4943) Lac d'Orient = 1987 OQ
Discovered 1987 July 27 by E. W. Elst at Haute Provence.
Named for the lake Lac de la Foret d'Orient, situated about 20 km east of the the city of Troyes (in the departement de l'Aube, France). The region has great historical interest for its "commanderies" of the so-called Knights of the Temple. The discoverer favors this place very much for vacations, especially in the summer.

(4952) Kibeshigemaro = 1990 FC1
Discovered 1990 Mar. 26 by A. Sugie at the Dynic Astronomical Observatory.
Named in memory of Shigemaro Kibe (1912-1990), foremost amateur telescope maker in Japan and well known observer of the sun, planets and variable stars. The telescope mirrors made by him are used all over Japan and include the mirror for the 0.60-m reflector at Kyoto University's Hida Observatory.

(5059) Saroma = 1988 AF
Discovered 1988 Jan. 11 by K. Endate and K. Watanabe at Kitami.
Named for a lake in Abashiri National Park in eastern Hokkaido. With an area of 151.2 square kilometers Saroma is the third largest lake in Japan, and it is famous for its harvest of scallops and oysters. Each autumn many visitors came to see its large stock of "sango-so" plants.

(5117) Mokotoyama = 1988 GH
Discovered 1988 Apr. 8 by K. Endate and K. Watanabe at Kitami.
Named for a mountain in eastern Hokkaido. Rising to 1000 feet, the mountain gives a view from Lake Kussharo to the southwest to the Sea of Okhotsk to the north. A hut at its eighth station has "Ginryosui", the only spring in the area.

(5182) Bray = 1989 NE
Discovered 1989 July 1 by E. F. Helin at Palomar.
Named in honor of Olin D. Bray on the occasion of his 85th birthday, 1992 August 28. A medical doctor formerly in the U.S. Army and a lifetime

caregiver to innumerable patients, Dr. Bray has been the healer and longtime friend of four generations of the families of the discoverer and her husband. He has always found time to live life to its fullest while doctoring and rendering comfort to others wherever needed.

(5186) Donalu = 1990 SB4

Discovered 1990 Sept. 22 by B. Roman at Palomar.

Named for Dona(lu) Wheeler Roman, wife of the discoverer. Dona is an actress, teacher, administrator and mother. Her love and support have touched everyone around her.

(5187) Domon = 1990 TK1

Discovered 1990 Oct. 15 by K. Endate and K. Watanabe at Kitami.

Named in memory of Ken Domon (1911-1991), renowned in the field of art and news photography. Born in Sakata city, he developed what came to be known as "Domon realism". Among his works, collections of photographs including "Hiroshima" and "Children in Chikuno" are especially famous.

(5224) Abbe = 1982 DX3

Discovered 1982 Feb. 21 by F. Borngen at Tautenburg.

Named in memory of Ernst Karl Abbe (1840-1905), director of the Jena Observatory from 1877 to 1900, known for his fundamental contributions to optics. These includes work on microscopes, the Abbe number and comparators--the last being very useful for the detection of minor planets. Abbe, a long-time collaborator and friend of Carl Zeiss, secured considerable financial support for the University of Jena from the Zeiss foumdation. The minor planet is being named on the occasion of the first meeting of the Astronomische Gesellschaft in the reunited Germany.

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EPHEMERIDES.

Periodic Comet Tuttle (1992r) Elements MPC 20775

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m2
1992	08 26	19 47.58	+30 37.5	5.504	6.140	125.0	7.7	21.2
1992	09 05	19 42.49	+29 53.8	5.507	6.085	120.8	8.2	21.2
1992	09 15	19 38.53	+29 01.9	5.527	6.029	115.5	8.7	21.2
1992	09 25	19 35.82	+28 04.9	5.561	5.973	109.6	9.1	21.2
1992	10 05	19 34.45	+27 05.7	5.606	5.916	103.3	9.5	21.2
1992	10 15	19 34.42	+26 07.0	5.659	5.859	96.7	9.7	21.2
1992	10 25	19 35.67	+25 11.4	5.716	5.801	90.0	9.9	21.2
1992	11 04	19 38.15	+24 20.9	5.774	5.743	83.3	9.9	21.2
1992	11 14	19 41.74	+23 37.3	5.829	5.684	76.7	9.8	21.2
1992	11 24	19 46.33	+23 01.7	5.879	5.624	70.3	9.5	21.2
1992	12 04	19 51.80	+22 35.3	5.921	5.564	64.2	9.2	21.2
1992	12 14	19 58.04	+22 18.8	5.952	5.503	58.6	8.8	21.2
1992	12 24	20 04.91	+22 12.5	5.970	5.441	53.4	8.3	21.1
1993	01 03	20 12.30	+22 16.9	5.974	5.379	48.9	7.9	21.1
1993	01 13	20 20.11	+22 32.0	5.963	5.316	45.2	7.5	21.0
1993	01 23	20 28.21	+22 57.9	5.936	5.252	42.5	7.3	21.0

1992 OM a,e,i = 2.19, 0.41, 8 Elements MPC 20828

Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992	08 26	22 19.37	+01 17.3	0.359	1.364	168.3	8.6	15.0
1992	09 05	22 14.22	+03 25.9	0.397	1.396	165.3	10.5	15.4

1992 09 15	22 11.83	+04 45.0	0.448	1.432	158.4	15.0	15.9
1992 09 25	22 12.90	+05 29.5	0.513	1.472	150.8	19.4	16.4
1992 10 05	22 17.50	+05 55.3	0.590	1.515	143.4	23.2	16.9
1992 10 15	22 25.25	+06 14.9	0.680	1.561	136.3	26.2	17.3
1992 10 25	22 35.54	+06 35.8	0.782	1.609	129.6	28.4	17.8
1992 11 04	22 47.87	+07 03.0	0.894	1.659	123.1	30.0	18.2
1992 11 14	23 01.74	+07 38.8	1.017	1.710	116.9	31.1	18.5
1992 11 24	23 16.75	+08 23.5	1.149	1.761	110.9	31.6	18.9
1992 12 04	23 32.63	+09 16.9	1.289	1.813	105.0	31.7	19.2
1992 12 14	23 49.16	+10 18.1	1.435	1.865	99.2	31.4	19.5
1992 12 24	00 06.16	+11 25.7	1.588	1.917	93.4	30.8	19.7

1992 QN a,e,i = 1.19, 0.36, 10 Elements MPC 20828

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V
1992 08 26	22 50.97	-21 35.9	0.391	1.394	166.6	9.7	15.8
1992 09 05	22 20.48	-20 29.0	0.438	1.434	163.7	11.4	16.2
1992 09 15	21 58.79	-18 54.1	0.505	1.471	152.1	18.7	16.8
1992 09 25	21 46.12	-17 09.6	0.587	1.503	140.6	25.1	17.4
1992 10 05	21 41.11	-15 24.2	0.682	1.532	130.3	29.9	17.9
1992 10 15	21 42.02	-13 40.4	0.785	1.556	121.2	33.2	18.3
1992 10 25	21 47.31	-11 57.8	0.895	1.577	113.1	35.5	18.7
1992 11 04	21 55.90	-10 14.4	1.008	1.593	105.6	36.8	19.0
1992 11 14	22 06.93	-08 28.8	1.123	1.605	98.7	37.5	19.3
1992 11 24	22 19.83	-06 39.7	1.237	1.613	92.3	37.7	19.5
1992 12 04	22 34.21	-04 46.3	1.349	1.617	86.2	37.4	19.7
1992 12 14	22 49.75	-02 48.2	1.458	1.617	80.4	36.9	19.9
1992 12 24	23 06.28	-00 45.3	1.561	1.613	74.9	36.1	20.0

Comet Helin-Lawrence (1992q) Elements MPC 20775

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1
1992 08 26	02 05.49	-10 43.6	2.388	3.077	124.7	15.7	15.3
1992 09 05	01 59.72	-15 50.9	2.208	3.000	134.3	13.9	15.0
1992 09 15	01 50.31	-21 41.2	2.067	2.923	141.7	12.3	14.7
1992 09 25	01 36.77	-27 57.4	1.974	2.849	144.2	11.9	14.5
1992 10 05	01 18.96	-34 10.5	1.933	2.776	140.2	13.3	14.4
1992 10 15	00 57.50	-39 47.1	1.940	2.705	131.3	16.1	14.3
1992 10 25	00 33.84	-44 21.5	1.991	2.636	120.3	19.0	14.2
1992 11 04	00 10.19	-47 43.3	2.073	2.570	108.8	21.4	14.2
1992 11 14	23 48.84	-49 58.6	2.175	2.506	97.7	23.0	14.2
1992 11 24	23 31.37	-51 22.1	2.285	2.446	87.3	23.8	14.2
1992 12 04	23 18.58	-52 10.2	2.394	2.389	77.8	23.8	14.2
1992 12 14	23 10.43	-52 37.6	2.495	2.337	69.3	23.2	14.2
1992 12 24	23 06.54	-52 54.6	2.580	2.288	61.9	22.3	14.2

Comet Brewington (1992p) Elements MPC 20775

Date TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	m1
1992 08 26	07 06.62	+36 57.5	2.423	1.951	50.9	23.7	11.3
1992 09 05	07 34.03	+36 35.3	2.409	2.005	54.8	24.3	11.4
1992 09 15	07 59.14	+36 01.1	2.392	2.065	59.1	24.7	11.5
1992 09 25	08 21.79	+35 20.0	2.371	2.130	63.9	25.0	11.7
1992 10 05	08 41.87	+34 36.7	2.346	2.200	69.2	25.2	11.8
1992 10 15	08 59.30	+33 55.0	2.315	2.273	75.1	25.1	11.9
1992 10 25	09 14.02	+33 18.5	2.280	2.350	81.5	24.7	12.0
1992 11 04	09 25.92	+32 50.2	2.241	2.429	88.6	24.1	12.1
1992 11 14	09 34.87	+32 31.9	2.201	2.511	96.3	23.1	12.2
1992 11 24	09 40.76	+32 24.7	2.161	2.594	104.7	21.6	12.3
1992 12 04	09 43.42	+32 28.5	2.126	2.680	113.8	19.7	12.4
1992 12 14	09 42.83	+32 41.3	2.099	2.766	123.5	17.3	12.5
1992 12 24	09 39.08	+32 59.7	2.085	2.854	133.6	14.4	12.7

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1992 08 26    23 23.36   +00 08.1    2.201    3.174   161.1     5.9    16.7
- 6.86 -0.52  - 25.4 - 4.4   1973 AT3    20803   - 6.74 +0.56  - 34.5 + 1.6
1992 09 25    23 00.98   -01 33.1    2.204    3.176   163.0     5.3    16.7

1992 08 26    23 52.72   +02 37.4    1.512    2.458   153.6    10.5    18.0
- 7.45 -1.00  - 29.7 - 7.7   9057 P-L    20830   - 8.87 +0.59  - 50.8 + 1.5
1992 09 25    23 25.30   +00 19.7    1.495    2.487   169.2     4.3    17.7

1992 09 25    01 12.70   +03 46.4    1.298    2.278   163.7     7.1    16.9
-10.90 -0.69  + 27.3 - 1.9   1978 US5    20807   - 8.87 +1.22  + 29.4 + 2.5
1992 10 25    00 39.51   +05 03.5    1.410    2.366   159.1     8.6    17.2

1992 09 25    01 56.65   +09 59.3    1.019    1.960   151.6    14.1    16.3
- 5.05 -1.52  - 49.0 - 8.1   1975 TM2    20804   - 8.45 +0.56  - 60.8 + 5.4
1992 10 25    01 32.54   +06 49.5    0.986    1.975   171.6     4.2    15.8

1992 09 25    02 00.06   +15 24.8    1.112    2.038   148.9    14.7    18.1
- 4.97 -1.55  - 13.8 - 9.7   1978 UJ5    20806   - 9.17 +0.40  - 53.2 - 1.2
1992 10 25    01 35.25   +13 28.8    1.028    2.020   174.1     2.9    17.4

1992 10 25    02 52.50   +09 18.4    2.416    3.391   166.6     3.9    16.4
- 7.48 -0.39  - 26.3 + 0.5   1976 YC2    20805   - 6.56 +0.66  - 10.0 + 4.6
1992 11 24    02 29.50   +08 16.4    2.469    3.389   154.9     7.1    16.6

1992 10 25    04 11.56   +24 42.4    2.619    3.490   146.3     9.1    17.4
- 5.74 -0.88  - 22.8 - 3.9   1991 PB12   20822   - 8.12 +0.16  - 40.7 - 1.3
1992 11 24    03 48.85   +23 02.5    2.538    3.524   176.4     1.0    16.9

1992 11 24    04 14.53   +30 49.8    1.506    2.483    +1.78    +5.2  16.7
-12.29 -0.12  - 13.8 - 7.9   1978 UF6    20807   - 6.83 +1.65  - 37.5 + 0.8
1992 12 24    03 42.61   +29 16.7    1.630    2.509    +1.57    +6.4  17.3

1992 11 24    04 18.75   +29 36.0    1.525    2.504   170.0     3.9    15.6
-10.70 -0.38    +6.7 - 6.4   1989 BD     20816   - 6.72 +1.51  - 17.9 - 0.6
1992 12 24    03 49.13   +29 08.2    1.573    2.461   147.8    12.3    16.0

1992 11 24    04 48.32   +17 54.4    1.648    2.622   168.3     4.4    18.1
-10.26 -0.56  - 28.8 + 0.1   1991 PT1    20821   - 8.14 +1.16  - 15.7 + 4.3
1992 12 24    04 17.53   +16 39.8    1.690    2.603   152.6    10.0    18.4

1992 11 24    05 09.66   +29 32.9    1.933    2.888   161.9     6.1    17.9
- 9.41 -0.80    +7.0 - 4.5   4607 P-L    20830   - 9.00 +0.92  - 18.0 - 2.5
1992 12 24    04 38.86   +29 12.7    1.920    2.858   158.6     7.2    17.9

1992 11 24    05 11.51   +33 05.4    1.585    2.534   159.8     7.7    16.9
-10.14 -0.99  + 11.5 - 7.1    (5065)     19669   - 9.50 +1.18  - 29.3 - 4.3
1992 12 24    04 38.01   +32 33.5    1.581    2.518   157.6     8.6    16.9

1992 11 24    05 18.28   +38 37.8    1.833    2.761   155.3     8.6    17.6
-10.23 -1.08  + 41.0 - 8.1   2561 P-L    20829   -10.42 +1.04  - 14.2 - 7.8
1992 12 24    04 43.36   +39 17.5    1.816    2.742   155.6     8.5    17.6

1992 11 24    05 20.24   +21 37.1    1.745    2.698   161.2     6.8    18.5
- 8.47 -0.81  - 28.6 - 1.4   5011 P-L    20830   - 8.26 +0.86  - 27.5 + 2.1
1992 12 24    04 52.06   +20 06.4    1.755    2.706   161.4     6.7    18.5

1992 11 24    05 46.86   +32 57.2    2.020    2.935   153.2     8.7    16.5
- 9.22 -1.02  - 16.0 - 5.6   1991 NT2    20821   -10.23 +0.72  - 48.6 - 3.7
1992 12 24    05 14.46   +31 16.7    2.000    2.962   165.2     4.9    16.3
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1992 11 24	06 13.17	+27 55.4	1.763	2.658	148.8	11.1	18.0
- 7.71 -1.36	-8.1 - 2.7	1990 ES1	18819	-10.99 +0.42	- 28.9 - 3.0
1992 12 24	05 41.83	+27 00.7	1.688	2.666	172.5	2.8	17.6
1992 11 24	06 13.74	+23 23.8	1.324	2.229	148.9	13.2	18.1
- 6.99 -1.66	+4.8 + 0.1	1980 FN1	13854	-11.29 +0.46	-1.8 - 1.5
1992 12 24	05 42.41	+23 31.3	1.255	2.234	173.4	2.9	17.5
1992 11 24	06 15.92	+38 58.3	2.151	3.017	145.5	10.7	17.3
- 8.31 -1.35	+ 22.7 - 5.4	(4963)	19002	-11.66 +0.39	- 24.3 - 8.4
1992 12 24	05 42.76	+39 01.7	2.070	3.025	163.3	5.4	17.0
1992 11 24	06 10.72	+20 24.8	2.247	3.137	149.4	9.2	18.1
- 6.68 -0.99	+5.2 + 0.9	1986 QO1	19674	- 9.13 +0.27	+7.6 + 0.1
1992 12 24	05 44.68	+20 45.4	2.188	3.167	173.3	2.1	17.6
1992 11 24	06 13.05	+19 45.6	2.073	2.961	148.8	9.9	18.0
- 7.35 -1.08	+2.8 + 1.1	(5097)	19832	- 9.90 +0.33	+6.7 + 0.4
1992 12 24	05 44.58	+20 01.2	2.030	3.008	173.0	2.3	17.6
1992 11 24	06 11.24	+03 39.4	1.909	2.768	143.8	12.1	17.8
- 6.12 -1.10	- 51.7 + 5.8	1977 EF1	16694	- 9.16 +0.22	-1.6 + 9.9
1992 12 24	05 45.89	+02 11.9	1.808	2.745	157.9	7.7	17.5
1992 11 24	06 16.59	+24 52.2	1.182	2.087	148.3	14.4	16.3
- 6.79 -1.78	-1.1 - 0.9	1981 QT	16230	-11.10 +0.58	- 13.2 - 1.9
1992 12 24	05 45.40	+24 32.8	1.145	2.126	174.0	2.8	15.7
1992 11 24	06 15.46	+18 16.5	1.669	2.561	148.0	11.8	16.9
- 7.35 -1.32	- 26.3 + 1.2	1988 VO1	14026	-10.63 +0.38	- 15.6 + 2.5
1992 12 24	05 45.37	+17 11.1	1.606	2.583	171.3	3.3	16.4
1992 11 24	06 10.01	-02 04.4	1.850	2.689	140.9	13.4	16.8
- 5.34 -1.07	- 19.2 + 9.6	1988 BK4	13451	- 8.16 +0.24	+ 48.7 +11.4
1992 12 24	05 47.35	-01 23.6	1.777	2.698	154.5	9.0	16.5
1992 11 24	06 13.04	+26 24.3	2.007	2.898	149.0	10.1	17.5
- 6.52 -1.12	-6.3 - 1.6	1986 TZ11	19019	- 9.17 +0.34	- 18.6 - 1.8
1992 12 24	05 46.81	+25 47.5	1.964	2.944	174.0	2.0	17.0
1992 11 24	06 21.66	+29 21.4	1.289	2.184	146.8	14.3	17.6
- 8.32 -1.83	+ 24.9 - 2.6	1981 EC25	10541	-12.64 +0.63	-7.5 - 6.2
1992 12 24	05 45.68	+29 54.3	1.266	2.243	171.4	3.8	17.1
1992 11 24	06 17.76	+12 04.1	1.531	2.413	145.9	13.3	18.1
- 7.71 -1.35	- 12.4 + 5.0	1981 QE2	13855	-10.81 +0.45	+ 19.7 + 5.0
1992 12 24	05 46.63	+12 15.1	1.513	2.482	167.4	5.0	17.8
1992 11 24	06 12.15	+19 11.0	2.432	3.317	148.9	8.8	17.2
- 6.20 -0.91	+0.4 + 1.2	1975 TR2	20627	- 8.55 +0.21	+5.9 + 0.8
1992 12 24	05 47.94	+19 21.3	2.363	3.342	173.3	2.0	16.8
1992 11 24	06 15.05	+12 01.5	1.140	2.038	146.5	15.5	17.1
- 5.22 -1.73	- 13.5 + 6.3	1990 EA	16436	-10.51 +0.28	+ 32.2 + 7.6
1992 12 24	05 47.76	+12 27.1	1.038	2.010	167.7	6.0	16.5
1992 11 24	06 20.72	+31 42.1	1.402	2.292	146.7	13.7	16.7
- 6.92 -1.82	+ 21.3 - 3.1	1990 DL	18819	-12.34 +0.34	- 16.3 - 7.6
1992 12 24	05 47.85	+31 58.1	1.293	2.268	170.0	4.3	16.1

1992 11 24	06 20.01	+03 25.6	2.004	2.847	141.8	12.4	18.0
- 6.58 -1.07	- 34.8 + 6.5	1983 QE	16578	- 9.40 +0.23		+ 14.2	+ 8.7
1992 12 24	05 53.63	+02 50.8	1.953	2.893	159.0	7.0	17.8
1992 11 24	06 21.81	+17 38.7	2.004	2.878	146.4	10.9	18.5
- 6.82 -1.17	- 12.8 + 1.7	2197 P-L	18830	-10.12 +0.21		-2.1	+ 1.9
1992 12 24	05 53.85	+17 16.0	1.918	2.896	172.6	2.5	18.0
1992 11 24	06 24.02	+26 44.9	1.999	2.875	146.5	10.9	18.5
- 7.40 -1.25	-8.6 - 1.7	1990 EU	19027	-10.69 +0.29		- 23.2	- 2.3
1992 12 24	05 54.05	+25 58.6	1.933	2.914	175.4	1.6	18.0
1992 11 24	06 21.34	+22 09.4	1.170	2.070	147.1	15.0	16.1
- 4.61 -1.82	+0.5 + 1.2	1991 PM8	19030	-10.56 +0.19		+2.3	- 0.4
1992 12 24	05 54.89	+22 16.8	1.057	2.039	176.1	1.9	15.2
1992 11 24	06 22.94	+22 13.8	1.966	2.844	146.7	11.0	17.9
- 6.18 -1.26	-1.6 + 0.4	1981 EW21	11045	-10.14 +0.11		-2.9	- 0.6
1992 12 24	05 55.94	+22 08.8	1.832	2.815	176.3	1.3	17.2
1992 11 24	06 22.94	+11 30.8	1.041	1.932	144.5	17.2	16.5
- 4.88 -1.82	- 31.3 + 6.7	1975 VS5	13297	-10.13 +0.35		+ 19.6	+ 8.8
1992 12 24	05 56.41	+11 09.3	0.990	1.961	167.3	6.4	16.0
1992 11 24	06 28.48	+20 33.5	1.628	2.504	145.3	13.0	17.6
- 6.51 -1.48	- 24.2 + 0.5	1987 JG	18812	-11.10 +0.17		- 20.8	+ 1.1
1992 12 24	05 59.02	+19 24.9	1.519	2.500	175.1	1.9	16.9
1992 11 24	06 25.31	+22 19.0	1.983	2.857	146.2	11.1	18.0
- 5.73 -1.26	-4.1 + 0.4	3196 T-1	19523	- 9.91 +0.05		-5.3	- 0.5
1992 12 24	05 59.43	+22 06.7	1.830	2.812	177.0	1.0	17.2
1992 11 24	06 22.53	+14 41.5	2.333	3.197	145.6	10.1	17.0
- 5.42 -0.97	- 30.3 + 2.0	1980 TB12	14614	- 8.28 +0.12		- 13.4	+ 3.4
1992 12 24	06 00.00	+13 33.3	2.235	3.208	169.8	3.1	16.6
1992 11 24	06 24.34	+19 02.8	2.311	3.178	146.1	10.0	17.5
- 5.89 -1.02	- 25.8 + 0.7	3086 P-L	20037	- 8.86 +0.13		- 19.4	+ 1.6
1992 12 24	06 00.10	+17 53.4	2.214	3.194	173.9	1.9	17.0
1992 11 24	06 34.17	+34 33.1	1.051	1.935	143.3	17.7	16.5
- 6.54 -2.28	+2.6 - 6.0	1985 TW1	14195	-12.64 +0.59		- 51.3	- 8.9
1992 12 24	06 00.07	+33 25.7	1.020	1.996	169.7	5.1	16.0
1992 11 24	06 30.06	+25 56.9	1.641	2.516	145.2	12.9	18.6
- 5.92 -1.57	+7.9 - 0.3	3105 T-1	20037	-11.27 +0.05		-4.6	- 3.2
1992 12 24	06 01.28	+26 07.3	1.499	2.481	176.5	1.4	17.8
1992 11 24	06 26.08	+08 24.2	2.000	2.849	142.7	12.1	17.5
- 5.13 -1.18	- 34.6 + 4.1	4343 T-3	12703	- 9.29 -0.04		+1.0	+ 7.2
1992 12 24	06 02.35	+07 28.1	1.818	2.776	163.9	5.6	17.0
1992 11 24	06 29.49	+24 28.0	1.992	2.860	145.3	11.3	17.7
- 5.94 -1.32	+3.7 0.0	(5048)	19662	-10.47 +0.01		-3.1	- 1.9
1992 12 24	06 02.44	+24 32.5	1.830	2.813	177.7	0.8	16.9
1992 11 24	06 32.51	+25 25.7	1.891	2.757	144.7	12.0	17.8
- 6.88 -1.36	+6.3 - 0.4	1980 UU1	20628	-11.01 +0.17		-4.3	- 2.5
1992 12 24	06 02.85	+25 32.9	1.809	2.791	177.2	1.0	17.2

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1992 11 24    06 38.24   +16 44.7    0.993    1.875   142.4    18.7    16.8
- 5.55 -2.38  +153.5 +17.9   1985 DD     13465   -16.27 -0.49  +209.4 - 4.5
1992 12 24    06 02.08   +26 30.9    0.852    1.834   176.3     2.0    15.7

1992 11 24    06 36.12   +31 43.2    1.210    2.088   143.4    16.4    17.9
- 6.54 -2.06  + 41.8 - 2.3   1978 SB8    10952   -12.67 +0.37    +1.8 - 9.1
1992 12 24    06 02.80   +33 01.5    1.173    2.149   170.2     4.5    17.4

1992 11 24    06 29.16   +07 56.4    2.111    2.951   141.8    11.9    18.2
- 6.07 -1.09  - 33.1 + 4.6   1987 SR1    19862    - 9.40 +0.11    +2.4 + 6.6
1992 12 24    06 03.75   +07 06.6    2.022    2.979   163.6     5.3    17.8

1992 11 24    06 38.41   +29 06.4    1.607    2.469   143.2    13.9    18.3
- 7.18 -1.68  + 17.7 - 1.4   1978 RC9    15063   -12.46 +0.19    -6.4 - 5.5
1992 12 24    06 05.50   +29 31.1    1.526    2.506   173.8     2.4    17.7

1992 11 24    06 33.33   +13 35.8    1.906    2.757   142.8    12.5    18.0
- 6.26 -1.25  - 16.9 + 3.5   1991 NS1    20821   -10.20 +0.10    +6.8 + 4.0
1992 12 24    06 06.16   +13 19.7    1.814    2.788   169.8     3.6    17.6

1992 11 24    06 33.57   +19 34.6    1.234    2.114   144.0    15.9    17.0
- 4.29 -1.81  - 23.4 + 1.6   2019 P-L    15901   -10.82 -0.01  - 12.0 + 2.3
1992 12 24    06 07.61   +18 40.2    1.103    2.084   175.2     2.3    16.2

1992 11 24    06 34.20   +25 35.7    1.997    2.858   144.3    11.6    17.5
- 5.68 -1.28  + 10.0 - 0.1    (5094)     19830    - 9.82 +0.07    +1.2 - 2.4
1992 12 24    06 08.46   +25 57.0    1.901    2.884   177.4     0.9    16.8

1992 11 24    06 35.23   +18 20.5    1.816    2.674   143.4    12.7    17.6
- 5.85 -1.38    +7.2 + 2.8   1991 RD24   20152   -10.63  0.00  + 19.4 + 1.1
1992 12 24    06 07.98   +19 03.7    1.687    2.668   175.6     1.6    16.9

1992 11 24    06 32.38   +26 57.2    2.511    3.365   144.7     9.8    18.1
- 5.57 -1.06    +2.8 - 0.7   1979 OQ5    16869    - 9.03 +0.03    -7.8 - 2.4
1992 12 24    06 08.47   +26 52.8    2.382    3.365   176.5     1.0    17.5

1992 11 24    06 34.63   +18 16.0    1.398    2.269   143.5    15.0    17.3
- 4.82 -1.56  - 44.0 + 1.7   5069 T-2    15087    - 9.60 +0.17  - 27.2 + 4.0
1992 12 24    06 09.80   +16 25.0    1.341    2.320   173.0     3.0    16.8

1992 11 24    06 32.90   +20 39.5    2.051    2.910   144.3    11.4    18.1
- 4.73 -1.20    -9.0 + 1.1   1979 MK7    13164    - 8.91 -0.02    -4.4 + 0.5
1992 12 24    06 10.27   +20 20.4    1.902    2.884   176.9     1.1    17.4

1992 11 24    06 37.91   +31 03.5    2.588    3.430   143.1     9.9    18.0
- 6.57 -1.08    +5.5 - 1.9   1991 RQ7    19314    - 9.86 +0.10  - 14.2 - 3.9
1992 12 24    06 11.09   +30 54.2    2.512    3.489   172.5     2.1    17.6

1992 12 24    06 11.34   +10 33.4    1.319    2.289   167.1     5.5    15.8
-10.25 +0.11    -3.5 + 7.5   1984 QQ     14349    - 4.41 +1.56  + 32.7 + 3.9
1993 01 23    05 46.67   +11 23.9    1.477    2.332   141.9    15.1    16.5

1992 12 24    06 12.90   +05 22.3    2.086    3.036   162.0     5.8    16.8
- 8.24  0.00  + 33.3 + 7.2    (5017)     19486    - 4.74 +1.04  + 64.0 + 2.6
1993 01 23    05 51.51   +07 56.7    2.224    3.059   141.9    11.5    17.2

1992 12 24    06 13.35   +15 16.6    1.561    2.539   171.8     3.2    16.4
-11.04 -0.06    +4.3 + 3.5    (5069)     19670    - 6.14 +1.47  + 21.7 + 2.2
1993 01 23    05 44.77   +15 57.7    1.672    2.526   142.6    13.7    17.0
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1992 12 24	06 13.73	+39 01.8	1.807	2.767	164.4	5.5	16.4
-11.03 +0.09	- 51.0 - 9.4	1988 BK5	14355	- 5.24 +1.55	- 84.9 - 1.1		
1993 01 23	05 46.64	+35 22.3	1.925	2.771	142.4	12.5	16.9
1992 12 24	06 15.78	+22 20.4	1.804	2.787	178.5	0.5	17.6
-11.03 -0.05	+4.4 - 0.9	1991 PH15	20024	- 6.48 +1.37	+1.0 + 0.2		
1993 01 23	05 46.89	+22 26.5	1.930	2.786	143.9	12.0	18.4
1992 12 24	06 15.76	+18 41.6	2.047	3.028	175.2	1.6	18.0
-10.05 +0.01	+ 11.9 + 1.0	1987 RA3	19500	- 5.97 +1.18	+ 15.7 + 0.5		
1993 01 23	05 49.57	+19 23.7	2.217	3.070	144.2	10.8	18.6
1992 12 24	06 16.02	+16 38.5	1.395	2.374	173.1	2.8	16.4
-11.55 +0.13	-8.5 + 3.0	1988 PV	18629	- 5.49 +1.59	+8.7 + 2.5		
1993 01 23	05 47.79	+16 39.7	1.578	2.440	143.4	13.9	17.2
1992 12 24	06 16.96	+24 46.5	2.031	3.014	178.1	0.6	16.0
- 9.52 -0.06	+ 12.4 - 1.7	1981 QP3	19016	- 5.66 +1.20	+3.0 - 0.9		
1993 01 23	05 51.88	+25 08.1	2.160	3.020	145.0	10.8	16.7
1992 12 24	06 16.74	+24 55.8	1.821	2.805	178.0	0.7	16.0
- 9.01 -0.03	+9.1 - 1.8	(4980)	19275	- 4.74 +1.27	+0.1 - 0.8		
1993 01 23	05 53.72	+25 07.8	1.966	2.832	145.5	11.4	16.7
1992 12 24	06 17.23	+25 57.1	1.347	2.330	177.1	1.2	16.7
-11.87 0.00	+6.6 - 3.4	1988 RR	14621	- 5.68 +1.73	-7.9 - 0.7		
1993 01 23	05 47.71	+25 50.0	1.496	2.364	144.1	14.1	17.5
1992 12 24	06 17.83	+30 54.3	1.467	2.445	172.4	3.1	17.1
-11.48 +0.13	- 37.7 - 5.8	1981 ES5	19857	- 5.15 +1.65	- 53.5 + 0.8		
1993 01 23	05 50.10	+28 25.0	1.638	2.505	144.4	13.2	17.8
1992 12 24	06 17.80	+25 38.5	1.495	2.478	177.3	1.1	17.7
-11.64 -0.12	+ 11.6 - 3.0	4606 P-L	18830	- 6.36 +1.62	-3.0 - 1.1		
1993 01 23	05 47.63	+25 47.7	1.608	2.473	144.1	13.5	18.5
1992 12 24	06 18.81	+29 45.3	1.279	2.259	173.4	2.9	17.1
-12.92 +0.07	- 12.7 - 6.3	1982 TQ2	10292	- 5.87 +1.88	- 34.8 - 0.3		
1993 01 23	05 47.30	+28 22.6	1.438	2.307	143.8	14.6	17.9
1992 12 24	06 24.19	+19 37.1	1.067	2.049	175.1	2.3	17.3
-11.01 -0.01	+ 24.0 + 1.3	1988 PG2	20502	- 4.47 +1.81	+ 24.6 - 0.5		
1993 01 23	05 57.62	+20 53.0	1.230	2.120	146.3	14.9	18.2
1992 12 24	06 24.75	-13 21.9	1.103	1.979	143.1	17.4	17.1
-11.60 -0.35	+ 57.6 +27.0	1988 FK	19022	- 6.48 +1.79	+182.6 +11.0		
1993 01 23	05 53.66	-06 51.8	1.127	1.952	135.1	20.9	17.2
1992 12 24	06 26.02	+21 29.4	1.071	2.054	176.0	1.9	16.9
-11.58 -0.15	+ 22.4 - 0.1	1985 RD3	11743	- 5.26 +1.88	+ 17.3 - 0.8		
1993 01 23	05 57.01	+22 30.0	1.203	2.094	146.2	15.2	17.8
1992 12 24	06 26.37	+30 22.0	1.037	2.016	172.3	3.8	16.2
-12.07 -0.23	+ 61.4 - 8.0	1978 SH1	12325	- 5.24 +2.07	+ 12.1 - 6.1		
1993 01 23	05 56.15	+32 08.3	1.175	2.061	145.1	15.9	17.0
1992 12 24	06 26.00	+29 07.0	1.640	2.620	173.4	2.5	15.9
-10.53 -0.11	+ 23.7 - 4.7	1987 UF5	15250	- 5.79 +1.46	-2.0 - 2.8		
1993 01 23	05 58.64	+29 36.2	1.798	2.672	146.1	11.9	16.6

1992 12 24	06 27.24	+37 40.6	1.627	2.591	165.3	5.5	17.6
-11.49 -0.11	+5.0 - 9.5	2252 T-2	19329	- 6.04 +1.62		- 39.7	- 3.9
1993 01 23	05 57.76	+36 37.8	1.780	2.642	144.2	12.6	18.1
1992 12 24	06 27.62	+18 03.7	1.868	2.848	173.4	2.3	17.4
-10.47 -0.19	+ 18.6 + 1.5	(5156)	19991	- 6.87 +1.23		+ 23.0	+ 0.2
1993 01 23	05 59.00	+19 08.4	1.979	2.851	146.4	11.0	17.9
1992 12 24	06 28.06	+13 27.1	2.543	3.514	169.3	3.0	18.1
- 8.10 -0.13	+4.2 + 3.0	1990 OH4	16882	- 5.69 +0.86		+ 19.0	+ 1.8
1993 01 23	06 05.56	+14 04.3	2.646	3.514	147.1	8.8	18.4
1992 12 24	06 30.96	-19 28.5	1.045	1.886	136.8	20.9	16.8
-12.07 -0.40	+ 82.0 +32.4	1989 PE	20817	- 6.75 +1.88		+231.1	+12.6
1993 01 23	05 58.51	-11 01.7	1.063	1.881	133.4	22.3	16.9
1992 12 24	06 31.04	+31 33.0	0.964	1.941	170.7	4.7	15.3
-12.27 -0.27	- 10.1 - 8.7	3128 T-1	19323	- 5.18 +2.15		- 45.6	- 1.6
1993 01 23	06 00.41	+29 55.8	1.072	1.969	146.4	16.0	16.0
1992 12 24	06 29.47	-11 36.4	0.673	1.582	144.7	21.1	15.2
- 8.31 -0.21	+246.6 +35.1	1986 CB	13466	- 1.74 +1.98		+322.5	-10.8
1993 01 23	06 10.37	+04 03.5	0.759	1.661	144.5	20.1	15.5
1992 12 24	06 31.64	+16 42.2	1.228	2.206	171.7	3.7	15.6
-10.58 -0.25	- 10.0 + 3.5	(4938)	18791	- 5.69 +1.62		+9.1	+ 2.6
1993 01 23	06 03.78	+16 42.4	1.332	2.224	147.2	13.9	16.3
1992 12 24	06 32.03	+27 39.4	2.305	3.284	173.6	1.9	17.9
- 9.31 -0.19	+ 21.9 - 2.7	1991 TQ	20509	- 6.39 +1.04		+4.4	- 2.4
1993 01 23	06 06.21	+28 18.1	2.428	3.304	147.9	9.1	18.4
1992 12 24	06 33.17	+28 45.3	1.931	2.909	172.7	2.5	17.0
-11.20 -0.20	+2.3 - 4.1	1991 PC13	20024	- 7.35 +1.31		- 18.2	- 1.8
1993 01 23	06 02.57	+28 17.2	2.054	2.930	147.2	10.5	17.6
1992 12 24	06 32.86	+27 03.9	1.467	2.447	173.9	2.5	16.0
-10.00 -0.34	+ 20.5 - 3.2	1991 RQ21	19870	- 5.96 +1.49		-0.2	- 2.6
1993 01 23	06 05.54	+27 33.0	1.547	2.437	147.9	12.4	16.6
1992 12 24	06 34.93	+16 01.3	2.198	3.172	170.7	2.9	18.0
- 9.88 -0.14	+4.9 + 2.1	1991 NY	18641	- 6.80 +1.04		+ 14.4	+ 1.1
1993 01 23	06 07.74	+16 32.1	2.348	3.226	148.1	9.3	18.5
1992 12 24	06 36.91	+31 08.9	1.385	2.361	170.4	4.0	16.4
-12.37 -0.41	- 13.3 - 7.0	(4987)	19278	- 7.59 +1.73		- 45.0	- 2.0
1993 01 23	06 03.01	+29 32.0	1.455	2.343	147.1	13.2	16.9
1992 12 24	06 36.42	+18 26.7	1.673	2.651	172.3	2.9	16.5
- 9.14 -0.20	+4.6 + 1.8	1981 RM3	14347	- 5.55 +1.23		+ 11.7	+ 0.7
1993 01 23	06 11.77	+18 52.9	1.808	2.703	149.4	10.7	17.1
1992 12 24	06 39.08	+26 31.0	1.225	2.204	172.9	3.1	17.5
-12.04 -0.52	+5.3 - 3.8	1987 EQ	18811	- 7.45 +1.78		- 15.6	- 1.8
1993 01 23	06 05.59	+26 11.6	1.288	2.186	148.1	13.8	18.0
1992 12 24	06 39.97	+23 20.8	1.296	2.275	173.4	2.9	16.6
-11.66 -0.23	+2.3 - 1.5	1988 TC2	15561	- 6.53 +1.64		-5.4	- 0.4
1993 01 23	06 09.22	+23 13.9	1.445	2.344	149.0	12.5	17.4

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1992 12 24    06 39.62   +11 53.5    1.815    2.782   166.6     4.7    17.4
- 9.90 -0.30    +2.7 + 4.9   1991 PR10   19311   - 7.00 +1.15  + 26.4 + 2.7
1993 01 23    06 11.60   +12 41.2    1.897    2.782   148.1    10.8    17.8

1992 12 24    06 41.02   +32 31.5    1.592    2.564   168.7     4.3    15.7
-10.40 -0.53  + 31.7 - 5.8    (5128)     19844   - 7.18 +1.45    -7.0 - 5.2
1993 01 23    06 10.98   +33 07.3    1.635    2.524   147.9    12.0    16.1

1992 12 24    06 40.80   +23 01.4    2.117    3.096   173.1     2.2    17.8
- 9.07 -0.30    +5.8 - 0.7   1989 GC4    20635   - 6.61 +1.02    +0.1 - 0.7
1993 01 23    06 14.83   +23 10.4    2.188    3.082   150.3     9.1    18.3

1992 12 24    06 39.98   +10 01.0    2.206    3.166   164.9     4.6    18.2
- 8.53 -0.18    -2.4 + 4.9   7075 P-L    20516   - 6.00 +0.93  + 22.2 + 2.9
1993 01 23    06 16.14   +10 34.4    2.333    3.214   148.5     9.2    18.6

1992 12 24    06 43.60   +30 38.8    1.687    2.661   169.8     3.8    17.6
-11.55 -0.46  + 19.5 - 5.3   1324 T-2    19036   - 8.13 +1.43  - 12.6 - 3.9
1993 01 23    06 10.60   +30 46.4    1.763    2.652   148.4    11.2    18.0

1992 12 24    06 46.77   +30 03.5    1.566    2.540   169.6     4.0    16.4
-11.97 -0.45    -1.6 - 5.5   1990 DU3    19027   - 8.13 +1.51  - 30.3 - 2.6
1993 01 23    06 12.99   +29 10.1    1.653    2.549   149.3    11.4    16.8

1992 12 24    06 44.28   +11 51.9    2.162    3.125   166.0     4.4    17.0
- 8.22 -0.31  + 21.1 + 4.5   1988 AE5    16429   - 6.23 +0.90  + 40.0 + 1.6
1993 01 23    06 20.38   +13 28.9    2.227    3.121   150.4     9.0    17.3

1992 12 24    06 43.56   +24 38.4    3.325    4.302   172.5     1.7    17.5
- 7.08 -0.18    +7.3 - 0.9   1990 RW     17825   - 5.53 +0.64    +0.6 - 1.0
1993 01 23    06 23.14   +24 50.6    3.435    4.330   152.1     6.1    17.8

1992 12 24    06 45.31   +20 22.6    1.789    2.766   171.5     3.0    16.3
- 8.55 -0.40  + 12.1 + 1.0   1986 WP8    19019   - 6.16 +1.10  + 12.9 - 0.3
1993 01 23    06 20.47   +21 02.6    1.843    2.749   151.6     9.8    16.7

1992 12 24    06 45.61   +30 16.9    1.880    2.854   169.7     3.5    16.3
- 9.35 -0.34    +3.8 - 4.3   1977 EW5    19290   - 6.37 +1.19  - 20.3 - 2.7
1993 01 23    06 19.21   +29 49.0    1.981    2.879   150.5     9.7    16.7

1992 12 24    06 47.80   +19 23.1    1.126    2.102   170.5     4.4    16.8
-11.53 -0.45    +5.8 + 1.7   1982 UP     10040   - 6.84 +1.72  + 10.7 + 0.4
1993 01 23    06 16.24   +19 50.2    1.239    2.151   150.5    13.0    17.4

1992 12 24    06 47.40   +17 44.0    1.168    2.143   169.8     4.7    15.9
- 9.88 -0.59    -9.2 + 3.0   1984 UK1    14616   - 6.39 +1.56    +6.2 + 2.1
1993 01 23    06 19.02   +17 41.1    1.216    2.130   150.9    13.0    16.3

1992 12 24    06 47.16   +24 49.9    1.946    2.923   171.6     2.8    17.1
-10.04 -0.50  + 55.1 - 0.9   1985 FD     19295   - 8.01 +1.10  + 37.7 - 3.8
1993 01 23    06 17.11   +27 14.3    1.992    2.889   150.5     9.7    17.4

1992 12 24    06 49.53   +31 35.4    1.241    2.213   168.2     5.2    16.1
-11.68 -0.55  + 52.3 - 7.3   1988 VR     14025   - 7.20 +1.76    +3.2 - 6.6
1993 01 23    06 16.93   +32 57.1    1.364    2.266   149.1    12.9    16.7

1992 12 24    06 49.17   +24 45.2    1.748    2.724   171.2     3.2    16.2
-10.65 -0.32  - 16.7 - 2.0   1962 SR     15549   - 7.31 +1.27  - 24.8 - 0.1
1993 01 23    06 19.29   +23 39.5    1.866    2.770   151.3     9.8    16.7
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1992 12 24    06 49.69   -01 15.9    1.743    2.660   153.6     9.5    17.5
-10.18 -0.41  + 55.9 +12.6   1987 HS     13457   - 7.72 +1.12  +109.4 + 4.1
1993 01 23    06 20.02   +03 07.8    1.807    2.681   146.1    11.8    17.6

1992 12 24    06 48.99   +03 42.2    1.645    2.584   158.3     8.1    17.2
- 9.24 -0.31  + 11.8 +10.0   1981 EX21   13157   - 6.34 +1.14  + 57.7 + 4.4
1993 01 23    06 22.93   +05 36.7    1.761    2.648   148.0    11.4    17.5

1992 12 24    06 49.26   +16 19.7    1.076    2.049   168.6     5.5    16.4
- 9.58 -0.70    +5.6 + 4.8   2114 T-2    15727   - 6.33 +1.61  + 25.7 + 1.8
1993 01 23    06 21.11   +17 12.1    1.106    2.026   151.4    13.5    16.7

1992 12 24    06 48.91   +27 23.1    2.374    3.349   170.6     2.8    17.5
- 8.84 -0.36    +6.3 - 2.3   1967 JP     18103   - 6.96 +0.91   -9.2 - 2.1
1993 01 23    06 22.86   +27 18.3    2.424    3.324   151.7     8.1    17.8

1992 12 24    06 51.60   +34 29.7    1.431    2.397   165.8     5.8    17.1
-11.90 -0.50  + 26.7 - 8.4   1980 SG      9296   - 7.69 +1.65  - 22.0 - 5.6
1993 01 23    06 18.24   +34 31.3    1.554    2.450   148.9    12.0    17.6

1992 12 24    06 52.84   +13 13.9    1.504    2.469   165.8     5.6    16.7
-10.51 -0.46  + 28.0 + 5.2   1984 MR     18809   - 7.54 +1.30  + 45.8 + 0.7
1993 01 23    06 22.52   +15 13.0    1.601    2.509   151.3    10.9    17.1

1992 12 24    06 54.09   +26 00.1    1.243    2.218   169.9     4.5    16.6
-11.75 -0.44  + 11.9 - 3.3   1977 QK1    13684   - 7.22 +1.66   -8.7 - 2.2
1993 01 23    06 21.76   +26 02.7    1.384    2.299   151.7    11.7    17.2

1992 12 24    06 52.35   +25 31.2    1.885    2.859   170.4     3.3    18.0
- 8.90 -0.38  + 18.9 - 1.7   1986 WC1    20500   - 6.41 +1.09   +4.2 - 2.3
1993 01 23    06 26.68   +26 06.8    1.995    2.905   152.8     8.9    18.4

1992 12 24    07 03.60   +66 11.7    1.242    2.069   136.4    19.1    16.0
-21.82 -1.31  + 20.6 -30.8   1988 RD     16430   - 9.73 +3.80  -129.7 -13.9
1993 01 23    06 06.78   +62 55.7    1.367    2.144   130.8    20.3    16.3

1992 12 24    06 53.46   +33 36.9    2.235    3.199   166.2     4.2    17.1
- 9.51 -0.46  + 36.8 - 4.8   1984 JA2    14616   - 7.59 +1.03   +2.5 - 5.2
1993 01 23    06 25.05   +34 36.6    2.306    3.197   150.1     8.8    17.4

1992 12 24    06 53.68   +19 57.0    1.881    2.854   169.5     3.6    16.5
- 9.13 -0.46    +0.8 + 0.9   2041 T-3    19036   - 7.11 +1.04   +2.9 + 0.1
1993 01 23    06 26.55   +20 03.8    1.930    2.842   153.0     9.1    16.8

1992 12 24    06 57.58   +34 05.4    1.524    2.488   165.3     5.8    16.9
-12.42 -0.57  + 22.8 - 7.9   4517 P-L    13863   - 8.72 +1.58  - 23.9 - 5.5
1993 01 23    06 21.89   +33 59.1    1.636    2.535   149.8    11.3    17.3

1992 12 24    06 54.94   +23 22.7    2.065    3.039   169.9     3.2    15.8
- 8.50 -0.48  + 12.1 - 0.5   1977 EC2    20139   - 6.96 +0.94   +4.6 - 1.5
1993 01 23    06 29.13   +23 49.6    2.085    2.998   153.6     8.4    16.1

1992 12 24    06 55.14   +13 37.9    1.786    2.750   165.7     5.1    17.9
- 8.88 -0.46  + 10.3 + 4.4   2287 T-2    19690   - 6.88 +1.04  + 29.0 + 1.7
1993 01 23    06 28.74   +14 41.8    1.845    2.757   152.7     9.4    18.2

1992 12 24    06 56.17   +26 44.2    1.946    2.918   169.3     3.6    17.8
- 9.24 -0.42  + 19.8 - 2.3   4556 P-L    19875   - 6.97 +1.07   +1.6 - 2.8
1993 01 23    06 29.10   +27 17.1    2.048    2.959   153.1     8.7    18.2
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1992 12 24    06 58.98   +23 54.0    1.352    2.325   169.0     4.6    16.9
-12.38 -0.47    -9.6 - 1.9   1942 RJ     11628   - 8.30 +1.58  - 18.9 - 0.3
1993 01 23    06 24.18   +23 08.3    1.480    2.397   152.5    10.9    17.4

1992 12 24    07 00.29   +32 29.3    1.399    2.366   165.9     5.8    16.6
-12.09 -0.65  + 14.5 - 7.1   1981 SO     17199   - 8.52 +1.61  - 28.0 - 4.8
1993 01 23    06 25.19   +32 04.5    1.494    2.403   151.1    11.4    17.0

1992 12 24    07 01.13   +39 39.4    2.018    2.964   160.6     6.3    16.9
-11.75 -0.53    +6.6 - 8.8   1991 RJ     19033   - 8.96 +1.31  - 43.8 - 6.0
1993 01 23    06 26.66   +38 38.2    2.104    2.989   148.6     9.9    17.1

1992 12 24    06 56.05   +22 32.6    4.607    5.577     +0.38    -0.3  17.8
- 5.41 -0.19    +8.9   0.0   1989 TU5    16236   - 4.78 +0.39    +6.5 - 0.6
1993 01 23    06 39.71   +22 56.7    4.650    5.564     +0.37    -0.2  17.9

1992 12 24    07 03.05   +26 31.6    1.626    2.596   167.8     4.6    17.0
-11.38 -0.64    +9.6 - 2.9   1981 SY1    18807   - 8.99 +1.31  - 11.4 - 2.8
1993 01 23    06 28.89   +26 28.6    1.688    2.605   153.2     9.8    17.4

1992 12 24    07 01.43   +23 39.3    1.033    2.006   168.5     5.6    15.0
- 9.70 -0.92    +2.7 - 0.9   1986 EZ1    14022   - 7.02 +1.66    -8.0 - 1.5
1993 01 23    06 31.56   +23 32.5    1.056    1.989   154.1    12.5    15.4

1992 12 24    07 11.29   +55 08.9    1.086    1.981   146.4    16.0    15.4
-18.35 -2.21  +140.3 -26.4   1989 UH2    18293   -13.90 +3.31  - 27.8 -20.9
1993 01 23    06 12.51   +57 46.6    1.184    2.004   135.0    20.3    15.8

1992 12 24    07 02.01   +20 01.1    1.047    2.019   167.7     6.0    18.1
-10.04 -0.69    +5.6 + 1.9   1158 T-2    20831   - 6.53 +1.62    +8.9 - 0.2
1993 01 23    06 32.86   +20 26.7    1.142    2.074   154.5    11.8    18.6

1992 12 24    07 03.89   +28 02.4    1.589    2.557   167.2     4.9    17.5
-11.38 -0.61    +1.1 - 3.9   1194 T-3    19883   - 8.70 +1.35  - 23.0 - 2.7
1993 01 23    06 30.13   +27 27.3    1.667    2.584   153.3     9.9    17.8

1992 12 24    07 03.64   +33 00.6    1.343    2.307   165.0     6.3    15.8
-10.59 -0.93  + 42.2 - 6.2    (5150)     19852   - 8.50 +1.52    -6.9 - 7.5
1993 01 23    06 30.44   +33 55.9    1.365    2.279   151.4    11.9    16.1

1992 12 24    07 01.19   +17 20.8    1.772    2.739   166.8     4.7    17.3
- 8.06 -0.54  + 26.0 + 3.0   1979 MK3    12941   - 6.56 +0.98  + 33.4 - 0.3
1993 01 23    06 36.44   +18 55.9    1.813    2.737   155.2     8.7    17.6

1992 12 24    07 05.78   +33 52.6    1.590    2.551   164.1     6.1    16.4
-11.87 -0.84  + 32.6 - 6.7   1981 TM3    18808   - 9.80 +1.42  - 15.4 - 6.8
1993 01 23    06 29.07   +34 18.5    1.626    2.532   151.0    10.9    16.7

1992 12 24    07 11.96   +33 18.5    1.199    2.160   163.4     7.5    17.1
-12.64 -0.87  + 18.5 - 8.4   3058 T-1    19322   - 9.10 +1.78  - 33.2 - 6.0
1993 01 23    06 34.44   +32 51.7    1.297    2.217   152.6    11.8    17.5

1992 12 24    07 03.91   +19 56.8    4.168    5.132   167.2     2.4    19.1
- 5.43 -0.24    +9.9 + 0.6    (5233)     20323   - 4.94 +0.39  + 10.7 - 0.3
1993 01 23    06 47.20   +20 29.4    4.197    5.122   157.8     4.2    19.2

1992 12 24    07 08.87   +21 58.1    2.441    3.405   166.6     3.8    17.5
- 8.33 -0.42  + 19.0 + 0.1   1980 UC     19014   - 7.12 +0.77  + 13.3 - 1.5
1993 01 23    06 43.52   +22 49.5    2.532    3.460   156.9     6.4    17.7
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1992 12 24    07 09.07   +20 15.5    2.214    3.178   166.2     4.2    16.4
- 8.06 -0.56  + 13.8 + 1.1   1991 UZ2    19514   - 7.41 +0.76  + 13.8 - 0.8
1993 01 23    06 43.43   +21 00.2    2.203    3.133   157.0     7.1    16.5

1992 12 24    07 06.08   +21 08.2    4.303    5.266   167.1     2.4    19.4
- 5.37 -0.24  + 10.6 + 0.4    (5257)     20491   - 4.94 +0.38    +9.7 - 0.5
1993 01 23    06 49.47   +21 40.3    4.332    5.259   158.4     4.0    19.6

1992 12 24    07 05.73   -10 05.5    4.598    5.424   143.9     6.1    18.0
- 5.11 -0.21  - 20.0 + 6.2   1988 QY     20814   - 4.73 +0.33  + 16.5 + 5.4
1993 01 23    06 49.98   -10 09.3    4.614    5.430   142.8     6.3    18.0

1992 12 24    07 11.78   +26 35.9    1.035    2.004   165.9     6.9    17.6
- 9.05 -0.97    +3.4 - 2.8   1981 EF19   11840   - 6.73 +1.57  - 19.4 - 3.1
1993 01 23    06 43.42   +26 12.1    1.086    2.027   156.5    11.2    17.9

1992 12 24    07 14.47   +28 58.4    1.435    2.398   164.7     6.2    16.7
-11.47 -0.81  + 28.9 - 4.3   1981 SQ2    18808   - 9.21 +1.42    -5.4 - 5.1
1993 01 23    06 39.31   +29 35.1    1.519    2.445   154.7     9.9    17.0

1992 12 24    07 15.95   +29 24.4    1.144    2.108   164.3     7.3    16.0
-11.55 -0.98    +6.4 - 5.3   1988 RL9    17442   - 8.90 +1.66  - 29.5 - 4.3
1993 01 23    06 40.36   +28 47.6    1.210    2.144   155.2    11.1    16.4

1992 12 24    07 07.36   +05 57.1    4.587    5.511   157.9     3.9    17.4
- 4.94 -0.21    -0.6 + 3.4   1989 TO11   17208   - 4.59 +0.32  + 17.3 + 2.4
1993 01 23    06 52.09   +06 23.9    4.607    5.513   154.6     4.4    17.4

1992 12 24    07 15.33   +25 28.6    1.759    2.722   165.2     5.3    16.8
-10.72 -0.76  + 10.1 - 1.8    (5034)     19492   - 9.53 +1.10    -7.5 - 2.9
1993 01 23    06 41.51   +25 34.3    1.785    2.715   156.1     8.4    17.0

1992 12 24    07 14.21   +26 39.1    2.195    3.156   165.3     4.5    16.1
- 8.50 -0.63  + 45.9 - 1.1    (5042)     19660   - 7.91 +0.81  + 26.9 - 4.2
1993 01 23    06 46.95   +28 33.9    2.222    3.150   156.6     7.1    16.2

1992 12 24    07 17.24   +28 43.5    1.656    2.617   164.2     5.9    17.9
-11.21 -0.78    +6.8 - 3.8   1991 NP2    19029   - 9.58 +1.23  - 21.1 - 3.8
1993 01 23    06 42.34   +28 21.9    1.709    2.637   155.7     8.8    18.2

1992 12 24    07 15.34   +09 39.2    1.451    2.396   159.4     8.3    17.1
- 8.37 -0.81  + 26.1 + 8.5    (5098)     19832   - 7.62 +1.03  + 62.0 + 2.7
1993 01 23    06 47.95   +12 02.0    1.456    2.390   156.3     9.5    17.1

1992 12 24    07 10.96   +09 14.9    4.372    5.306   159.8     3.7    17.0
- 5.14 -0.24    -9.7 + 2.8    (5130)     19845   - 4.83 +0.33    +5.3 + 2.1
1993 01 23    06 54.96   +09 09.6    4.390    5.308   156.7     4.2    17.0

1992 12 24    07 17.30   +16 09.7    1.295    2.254   162.8     7.4    15.4
- 9.49 -0.93  - 19.3 + 3.7   1988 XE1    18631   - 8.46 +1.23    +0.0 + 2.6
1993 01 23    06 46.38   +15 42.7    1.301    2.240   157.0     9.9    15.5

1992 12 24    07 16.46   +06 04.0    1.411    2.346   156.6     9.6    16.0
- 8.66 -0.85    +8.8 +10.3   1986 EE2    20144   - 8.01 +1.05  + 60.2 + 5.4
1993 01 23    06 47.94   +07 56.7    1.404    2.332   154.6    10.4    16.0

1992 12 24    07 16.23   +32 00.7    2.636    3.589   163.2     4.5    16.7
- 8.81 -0.49    +7.8 - 3.6   1979 QX3    19291   - 7.84 +0.77  - 17.3 - 3.8
1993 01 23    06 48.93   +31 46.8    2.701    3.621   155.8     6.4    16.8
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1992 12 24    07 18.91   +20 34.9    1.560    2.520   164.0     6.2    17.5
-10.38 -0.70  + 14.3 + 0.9   1931 UB     11855   - 8.66 +1.17  + 10.7 - 1.4
1993 01 23    06 46.89   +21 16.6    1.650    2.588   157.8     8.3    17.7

1992 12 24    07 19.07   +11 02.4    1.487    2.433   159.6     8.1    17.1
- 8.46 -0.73  + 13.7 + 7.0   1978 RN     15700   - 7.36 +1.03  + 43.1 + 2.3
1993 01 23    06 52.08   +12 36.3    1.542    2.480   157.5     8.7    17.2

1992 12 24    07 19.86   -04 04.7    1.470    2.361   147.8    12.8    17.5
- 8.76 -0.66  + 25.6 +15.5   1983 RL4    18424   - 7.31 +1.05  + 98.4 + 6.8
1993 01 23    06 52.59   -00 42.7    1.548    2.451   150.3    11.5    17.6

1992 12 24    07 14.38   -00 41.6    4.724    5.607   151.4     4.8    18.0
- 4.73 -0.23    -3.6 + 4.5   3104 T-3    16243   - 4.59 +0.28  + 21.6 + 3.6
1993 01 23    06 59.45   -00 12.9    4.706    5.594   151.9     4.8    18.0

1992 12 24    07 24.07   +33 20.8    1.583    2.534   161.2     7.2    18.0
-11.13 -1.00  + 51.4 - 5.6   1981 UZ24   20630   -10.18 +1.26   +2.0 - 8.3
1993 01 23    06 47.92   +34 45.8    1.633    2.555   154.3     9.6    18.2

1992 12 24    07 23.00   +27 33.4    1.911    2.867   163.3     5.7    18.1
- 9.36 -0.72  + 17.0 - 2.3   2087 T-2    19689   - 8.56 +0.95   -4.8 - 3.8
1993 01 23    06 53.04   +27 54.4    1.958    2.894   158.1     7.3    18.3

1992 12 24    07 21.65   +09 58.6    1.830    2.769   158.4     7.5    14.4
- 8.11 -0.72  - 56.7 + 4.6   1976 AH     20627   - 7.89 +0.79  - 23.1 + 5.9
1993 01 23    06 54.87   +07 56.4    1.801    2.730   156.0     8.4    14.3

1992 12 24    07 24.56   +18 27.2    1.562    2.517   162.1     6.9    18.0
-10.09 -0.92  + 15.8 + 2.6   1988 RD3    16430   - 9.66 +1.05  + 19.9 - 0.8
1993 01 23    06 51.29   +19 27.0    1.567    2.510   158.7     8.2    18.0

1992 12 24    07 24.02   +35 35.2    1.513    2.461   160.1     7.8    15.4
- 9.53 -1.00  + 58.6 - 6.6   1989 EV     14479   - 8.65 +1.24   +2.5 - 9.4
1993 01 23    06 52.58   +37 12.1    1.573    2.494   153.7    10.1    15.6

1992 12 24    07 24.71   +34 49.1    1.851    2.797   160.3     6.8    18.0
- 9.72 -0.88  + 39.7 - 5.4   4135 T-2    19690   - 9.16 +1.04   -5.1 - 7.5
1993 01 23    06 52.84   +35 44.8    1.885    2.806   154.6     8.7    18.1

1992 12 24    07 26.71   +43 38.5    1.524    2.449   154.5    10.0    16.5
-10.69 -1.24  + 43.8 -10.9   1978 TH6    20009   -10.02 +1.43  - 36.4 -12.2
1993 01 23    06 50.66   +43 51.9    1.536    2.434   149.1    12.0    16.6

1992 12 24    07 27.56   +44 14.8    1.612    2.533   153.9     9.8    16.7
-11.31 -1.26  + 39.5 -10.9   1981 GM1    19015   -10.79 +1.41  - 40.6 -12.2
1993 01 23    06 49.46   +44 15.5    1.608    2.502   148.7    11.8    16.7

1992 12 24    07 25.31   +17 50.4    1.194    2.150   161.8     8.2    17.1
- 9.76 -1.01  + 17.3 + 3.8   1988 RK8    18114   - 8.65 +1.30  + 25.2 - 0.7
1993 01 23    06 53.40   +19 02.7    1.241    2.189   159.2     9.2    17.3

1992 12 24    07 26.07   +20 41.2    1.669    2.623   162.4     6.5    18.4
- 9.83 -0.89  + 28.7 + 1.6   1991 PJ15   20508   - 9.53 +0.98  + 24.2 - 2.3
1993 01 23    06 53.57   +22 07.8    1.679    2.623   159.3     7.6    18.5

1992 12 24    07 25.23   +20 28.0    1.933    2.887   162.6     5.9    18.2
- 9.34 -0.68  + 20.7 + 1.1   1987 SN12   18813   - 8.63 +0.88  + 17.3 - 1.7
1993 01 23    06 55.38   +21 30.0    1.991    2.934   159.7     6.7    18.3
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1992 12 24    07 28.09   -12 39.9    1.090    1.944   139.3    19.3    16.1
-10.30 -1.14  - 93.5 +22.9   1991 JA1    18638   - 9.59 +1.33  + 52.6 +20.8
1993 01 23    06 53.66   -13 37.4    1.110    1.971   140.5    18.5    16.2

1992 12 24    07 29.78   +30 43.7    1.572    2.523   161.0     7.3    17.0
-10.96 -0.90  + 82.0 - 4.9   1983 QG      8678   - 9.67 +1.23  + 32.2 - 9.1
1993 01 23    06 54.90   +33 42.5    1.705    2.635   156.0     8.7    17.4

1992 12 24    07 24.34   +12 46.4    2.607    3.546   159.6     5.5    17.0
- 7.38 -0.50    -9.1 + 3.3   1991 VA1    20642   - 7.15 +0.57    +7.4 + 2.0
1993 01 23    07 00.58   +12 46.2    2.622    3.560   159.5     5.6    17.0

1992 12 24    07 30.17   +25 03.7    1.425    2.380   161.9     7.4    17.2
-10.61 -0.90    +9.6 - 1.5   1980 PW     16022   - 9.29 +1.24    -8.3 - 3.0
1993 01 23    06 56.35   +25 08.4    1.505    2.452   159.5     8.1    17.4

1992 12 24    07 24.51   +06 15.2    2.778    3.695     +0.66    +0.3  17.0
- 7.03 -0.47  + 14.2 + 5.6   1990 OF1    17446   - 6.95 +0.50  + 41.5 + 3.0
1993 01 23    07 01.75   +07 43.5    2.780    3.708     +0.67    +0.3  17.0

1992 12 24    07 27.52   +19 05.6    2.461    3.409   161.7     5.2    17.7
- 7.87 -0.54    +9.9 + 1.4   1991 SM1    19316   - 7.53 +0.64  + 11.6 - 0.6
1993 01 23    07 02.27   +19 41.6    2.512    3.458   161.3     5.2    17.8

1992 12 24    07 32.71   +30 02.5    1.134    2.088   160.6     9.0    17.0
- 9.79 -1.33  + 22.6 - 4.3   1991 PJ3    20639   - 9.49 +1.41  - 19.1 - 7.0
1993 01 23    06 58.69   +30 12.7    1.147    2.094   158.4    10.0    17.0

1992 12 24    07 35.26   +29 59.0    1.455    2.403   160.1     8.0    16.3
-11.13 -1.06  + 20.4 - 4.2   1964 TA2    13851   -10.34 +1.26  - 16.6 - 5.9
1993 01 23    06 58.75   +30 07.7    1.510    2.452   158.4     8.5    16.4

1992 12 24    07 35.33   +31 44.0    1.857    2.800   159.6     7.0    17.2
-10.49 -0.99  + 27.6 - 4.0   1990 DL3    19678   -10.59 +0.96    -9.6 - 6.5
1993 01 23    07 00.10   +32 15.6    1.861    2.796   157.7     7.7    17.2

1992 12 24    07 35.89   +21 17.7    1.677    2.624   160.3     7.3    18.2
-10.23 -1.04    +9.3 + 0.9   1978 NQ1    15875   -10.75 +0.91    +3.9 - 1.9
1993 01 23    07 00.81   +21 42.7    1.645    2.596   161.0     7.1    18.2

1992 12 24    07 33.97   +24 26.0    2.059    3.006   161.0     6.1    17.9
- 8.70 -0.77  + 21.6 - 0.4   1079 T-2    19881   - 8.75 +0.75    +8.8 - 3.1
1993 01 23    07 04.97   +25 16.7    2.078    3.027   161.4     6.0    18.0

1992 12 24    07 32.77   +09 18.0    2.215    3.139   155.9     7.4    18.0
- 7.76 -0.64    +4.5 + 5.6   3019 T-3    19331   - 7.85 +0.62  + 31.2 + 2.8
1993 01 23    07 07.03   +10 16.7    2.223    3.165   159.8     6.2    18.0

1992 12 24    07 36.34   +24 19.1    1.247    2.198   160.5     8.6    16.8
- 9.56 -1.18    -5.8 - 0.9   5485 T-2    15259   - 9.42 +1.21  - 19.6 - 2.4
1993 01 23    07 03.43   +23 43.5    1.260    2.216   161.4     8.2    16.8

1992 12 24    07 33.27   +15 25.4    1.118    2.067   159.1     9.8    18.5
- 7.62 -1.15    -4.1 + 5.8   1981 EW8     9962   - 7.67 +1.13  + 20.1 + 1.9
1993 01 23    07 06.13   +15 56.6    1.129    2.086   161.7     8.5    18.4

1992 12 24    07 34.13   +07 15.7    1.901    2.820   154.3     8.7    17.8
- 7.21 -0.75    -7.9 + 7.1   4050 P-L    20514   - 7.52 +0.66  + 30.0 + 4.6
1993 01 23    07 09.45   +07 53.5    1.887    2.829   159.0     7.2    17.8
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1992 12 24    07 35.30   +21 43.2    2.286    3.229   160.5     5.8    16.7
- 8.07 -0.69    -3.4 + 0.4   1986 TU6    17018   - 8.29 +0.63    -6.8 - 1.1
1993 01 23    07 08.31   +21 30.5    2.275    3.228   162.7     5.2    16.7

1992 12 24    07 38.43   +15 02.1    1.542    2.481   157.8     8.6    16.9
- 9.20 -1.04    -8.1 + 4.2   1990 EO     18819   - 9.83 +0.88  + 10.5 + 1.8
1993 01 23    07 06.33   +15 10.1    1.515    2.468   161.6     7.2    16.8

1992 12 24    07 31.02   +12 07.1    4.757    5.681   157.9     3.7    17.3
- 4.61 -0.30  + 10.4 + 2.3   1988 TA3    15893   - 4.83 +0.23  + 20.7 + 1.0
1993 01 23    07 15.90   +12 56.0    4.716    5.664   163.0     2.9    17.2

1992 12 24    07 44.06   +24 53.3    1.372    2.317   158.8     8.9    18.1
-10.60 -1.22  + 10.2 - 0.9   1981 EP13   10159   -10.88 +1.14    -8.9 - 3.8
1993 01 23    07 07.47   +25 00.6    1.387    2.343   162.0     7.5    18.1

1992 12 24    07 41.47   +17 48.0    1.088    2.034   158.1    10.4    16.4
- 8.16 -1.37  + 22.9 + 5.3   1978 TW2    14013   - 9.18 +1.11  + 34.6 - 1.3
1993 01 23    07 10.85   +19 26.4    1.074    2.037   163.3     8.0    16.3

1992 12 24    07 43.02   +15 48.5    1.669    2.603   157.1     8.5    17.8
- 9.57 -0.97  + 10.3 + 4.0   1978 SD7    13854   -10.02 +0.84  + 22.7 + 0.3
1993 01 23    07 10.28   +16 44.9    1.676    2.633   162.9     6.3    17.7

1992 12 24    07 44.42   +23 19.7    1.558    2.499   158.6     8.3    16.5
-10.14 -1.14  + 41.8 + 0.8   1988 KA     13303   -10.83 +0.95  + 26.3 - 4.8
1993 01 23    07 09.10   +25 12.2    1.567    2.523   162.3     6.8    16.5

1992 12 24    07 40.07   +09 10.9    2.020    2.938   154.4     8.3    17.4
- 7.19 -0.78  - 15.0 + 5.7   3074 P-L    14628   - 7.94 +0.57  + 16.5 + 4.1
1993 01 23    07 14.87   +09 16.1    1.975    2.923   160.9     6.3    17.3

1992 12 24    07 42.49   +35 20.0    2.771    3.696   156.9     6.0    17.6
- 8.02 -0.77  + 40.5 - 3.2   1938 HA     18617   - 8.92 +0.51    +8.1 - 6.4
1993 01 23    07 14.71   +36 38.8    2.737    3.665   157.4     5.9    17.6

1992 12 24    07 43.12   +23 15.1    1.807    2.747   158.9     7.4    16.5
- 7.53 -0.90  + 23.7 + 0.7   1991 RP15   20027   - 8.14 +0.72  + 14.4 - 3.1
1993 01 23    07 16.63   +24 19.2    1.820    2.780   164.2     5.5    16.5

1992 12 24    07 47.70   +24 18.1    1.251    2.194   157.9     9.7    18.3
- 9.22 -1.26  + 34.3 + 0.3   1310 T-2    20832   - 9.66 +1.12  + 14.8 - 5.2
1993 01 23    07 14.98   +25 41.8    1.295    2.256   163.4     7.1    18.4

1992 12 24    07 44.54   +14 57.6    1.614    2.545   156.4     8.9    16.3
- 7.73 -0.96  + 46.6 + 5.6   1991 PJ     19029   - 8.43 +0.76  + 59.6 - 1.3
1993 01 23    07 17.14   +17 49.6    1.634    2.596   164.7     5.8    16.2

1992 12 24    07 49.67   +23 38.6    1.563    2.500   157.4     8.7    17.9
- 9.63 -1.27  + 22.4 + 0.7   1987 DK6    19862   -11.35 +0.81    +8.9 - 4.1
1993 01 23    07 14.32   +24 34.4    1.508    2.468   163.6     6.5    17.6

1992 12 24    07 51.31   +19 10.5    1.513    2.446   156.3     9.3    18.2
- 9.90 -1.14  + 22.9 + 2.8    (5020)     19487   -10.71 +0.91  + 23.2 - 2.1
1993 01 23    07 16.60   +20 29.0    1.530    2.493   164.7     6.0    18.1

1992 12 24    07 46.30   -00 22.2    1.551    2.435   146.8    12.8    17.6
- 7.32 -0.98  - 22.5 +12.1   1981 EO7     8392   - 8.27 +0.71  + 48.0 + 9.4
1993 01 23    07 19.81   +00 21.0    1.535    2.465   155.6     9.5    17.5
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1992 12 24	07 49.00	-10 53.1	1.872	2.686	138.2	14.1	17.8
- 7.72 -0.99	-9.7 +14.5	1987 OR	16427	- 9.50 +0.50	+ 83.0	+13.8	
1993 01 23	07 20.40	-09 02.0	1.755	2.640	147.8	11.5	17.5
1992 12 24	07 47.40	+02 04.3	2.114	2.996	148.4	9.9	16.7
- 6.96 -0.73	- 25.8 + 8.2	1991 RV1	19507	- 7.63 +0.53	+ 22.2	+ 6.7	
1993 01 23	07 23.20	+02 01.6	2.113	3.046	157.5	7.1	16.6
1992 12 24	07 51.09	+13 29.8	1.300	2.227	154.3	11.0	16.5
- 8.14 -1.18	+ 49.0 + 7.6	1988 XP	14202	- 9.09 +0.90	+ 68.7	- 1.3	
1993 01 23	07 21.39	+16 42.8	1.331	2.297	165.4	6.2	16.4
1992 12 24	07 43.03	+27 04.7	5.740	6.668	158.9	3.0	17.1
- 4.73 -0.30	+ 10.1 - 0.5	(5144)	19850	- 5.10 +0.18	+3.5	- 1.5	
1993 01 23	07 27.39	+27 27.0	5.713	6.670	165.3	2.2	17.1
1992 12 24	07 49.40	+13 55.0	2.311	3.228	154.9	7.4	18.1
- 7.47 -0.79	-2.8 + 3.6	1990 OE5	17211	- 8.65 +0.45	+ 13.0	+ 1.5	
1993 01 23	07 22.92	+14 14.0	2.243	3.204	165.0	4.5	17.9
1992 12 24	07 48.79	+01 07.0	1.590	2.476	147.5	12.3	16.7
- 6.50 -1.01	-4.5 +11.5	1051 T-2	15075	- 8.03 +0.59	+ 61.3	+ 8.5	
1993 01 23	07 24.05	+02 37.9	1.528	2.469	158.1	8.6	16.5
1992 12 24	07 50.25	+24 40.8	1.816	2.750	157.3	7.9	17.0
- 7.24 -0.98	+ 11.1 0.0	1986 WO7	20633	- 8.38 +0.65	-0.8	- 3.2	
1993 01 23	07 23.83	+25 02.2	1.798	2.762	165.5	5.1	16.8
1992 12 24	07 55.12	+18 40.8	1.630	2.557	155.3	9.3	17.4
- 9.03 -1.16	+9.5 + 2.9	1991 PF15	19312	-10.62 +0.72	+ 13.9	- 1.1	
1993 01 23	07 22.17	+19 23.2	1.595	2.561	166.0	5.3	17.2
1992 12 24	07 50.51	+04 33.4	2.138	3.026	149.5	9.5	18.5
- 7.23 -0.82	+3.9 + 7.8	1981 FR	20329	- 8.52 +0.45	+ 45.5	+ 5.1	
1993 01 23	07 24.52	+05 52.5	2.072	3.018	160.6	6.2	18.3
1992 12 24	07 50.47	+12 45.2	1.204	2.133	154.1	11.6	16.3
- 6.53 -1.28	+ 29.2 + 8.7	1989 BN1	14622	- 8.26 +0.81	+ 61.3	+ 1.1	
1993 01 23	07 24.41	+15 15.2	1.181	2.148	165.7	6.5	16.0
1992 12 24	07 53.88	+26 03.1	1.821	2.751	156.5	8.2	17.1
- 7.88 -1.08	+ 36.9 + 0.1	1978 SM5	14471	- 9.54 +0.62	+ 18.9	- 5.1	
1993 01 23	07 24.60	+27 36.6	1.784	2.745	164.6	5.5	16.9
1992 12 24	07 51.97	+15 41.3	1.950	2.872	155.0	8.3	17.3
- 7.26 -0.83	+ 15.5 + 3.9	1991 PT11	20024	- 8.06 +0.59	+ 27.4	0.0	
1993 01 23	07 26.36	+16 52.7	1.975	2.941	166.6	4.4	17.2
1992 12 24	07 55.79	+14 29.3	1.169	2.097	153.7	12.0	17.2
- 8.10 -1.41	+ 38.0 + 7.9	1977 DD1	14780	- 9.90 +0.91	+ 60.1	- 0.9	
1993 01 23	07 24.49	+17 12.8	1.164	2.133	166.3	6.3	17.0
1992 12 24	07 53.10	+19 04.0	2.244	3.167	155.9	7.3	16.8
- 7.04 -0.82	+6.6 + 2.0	1980 TW5	19014	- 8.26 +0.46	+ 10.2	- 0.7	
1993 01 23	07 27.79	+19 34.2	2.201	3.169	167.3	3.9	16.6
1992 12 24	07 54.04	+23 42.3	1.964	2.893	156.4	7.8	17.2
- 7.21 -0.91	+ 30.7 + 0.8	1969 TQ1	19854	- 8.33 +0.58	+ 20.3	- 3.6	
1993 01 23	07 27.96	+25 06.8	1.975	2.941	166.4	4.5	17.1