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Brian G. Marsden, Director Gareth V. Williams, Associate Director
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ERRATA.

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MPC      Line
19726   - 6      For 0.2-m f/8 read 1.5-m
19911   - 2      For 0.2-m f/8 read 1.5-m
19911   - 2      For 0.2-m f/8 read 1.5-m
20859   24      For 1950 OG read 1950 OQ
20884   22      For 4411 Rowland Avenue read 441 Rowland Avenue

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CORRECTED OBSERVATIONS.

The following observations correct those previously published.

Object	Date	UT	R. A. (2000)	Decl.	Reference	Mag.	N	Obs.
1969 TO1	1969 10	13.96228	01 48 47.84 +13	23 22.9	MPC 3128	16.5	1	095
1969 TP4	* 1969 10	13.96228	01 48 50.28 +13	24 27.3	MPC 3128	17.0		095
1985 BA	* 1985 01	17.57569	08 16 55.66 +20	58 37.9	MPC 9413	17		881
1985 BA	1985 01	17.59792	08 16 54.23 +20	58 42.3	MPC 9413			881
1985 BA	1985 01	23.57639	08 10 34.69 +21	05 26.8	MPC 9457			881
1987 VG1	1992 08	28.36412	23 02 34.62 +09	39 27.8	MPC 20884			657
1991 FB5	* 1991 03	21.69370	13 57 01.50 -08	07 33.9	MPC 20462	18.5V		413
1991 FB5	1991 03	21.74579	13 56 59.53 -08	07 16.5	MPC 20462			413
1992 SN1	1992 10	01.68472	00 58 45.18 +06	47 44.4	MPC 20873	16	2	372
1992 SN1	1992 10	01.69896	00 58 44.16 +06	47 46.7	MPC 20873		2	372
1992 SQ1	1992 10	01.68472	01 00 39.85 +06	11 10.5	MPC 20073	17	2	372
1992 SQ1	1992 10	01.69896	01 00 39.18 +06	11 04.7	MPC 20073		2	372
(65)	1934 11	12.9896	03 32 15 +14	24.4	RI 1075	11.5		006
(49)	1936 03	18.9313	12 26.0 -07	24	RI 1365	12.0	3	022
(67)	1936 03	18.9313	12 44.1 -07	38.1	RI 1365	11.3	3	022
(104)	1935 09	06.02913	23 18.6 -08	25	RI 1285	12	4	078
(111)	1936 05	16.83077	16 10.8 -28	11	RI 1453	11.5		078
(186)	1936 03	18.9313	12 38.6 +00	07	RI 1365	12.0	3	022
(203)	1936 03	18.9313	12 51.2 -07	17	RI 1365	12.2	3	022
(206)	1936 03	18.9313	12 26.29 +01	01	RI 1365	11.8	3	022
(292)	1936 11	22.01893	04 46.7 +32	47	RI 1496	12.5		022
(297)	1992 09	25.95139	00 13 14.54 +08	28 03.6	MPC 20880		5	017
(297)	1992 09	26.95278	00 12 25.33 +08	25 14.9	MPC 20880	15.0	5	017
(297)	1992 09	26.97361	00 12 24.24 +08	25 13.9	MPC 20880		5	017
(354)	1936 03	21.7144	16 00 44 +04	00.4	RI 1367			388
(354)	1936 03	25.6355	16 01 09 +04	33.9	RI 1367			388
(354)	1936 03	25.6549	16 01 09 +04	34.0	RI 1367			388
(434)	1936 08	28.07	00 52.5 +06	43	RI 1447			012
(439)	1992 09	25.95139	00 05 43.68 +10	17 43.2	MPC 20880		5	017

(439)	1992 09 26.95278	00 05 04.22	+10 07 46.6	MPC 20880	16.0	5	017
(439)	1992 09 26.97361	00 05 03.42	+10 07 36.1	MPC 20880		5	017
(440)	1936 03 18.9313	12 27.1	-06 00	RI 1365	12.9	3	022
(474)	1936 03 18.9313	12 49.5	+00 45.0	RI 1365	13.5	3	022
(494)	1936 03 18.9313	13 04.6	-01 04	RI 1365	12.2	3	022
(510)	1934 12 10.9951	05 45 17	+11 15.6	RI 1089	13.7		006
(532)	1934 11 11.44	03 17.9	-03 41	RI 1094			384
(648)	1992 09 25.95139	00 05 51.40	+15 46 42.6	MPC 20880	16.0	5	017
(690)	1936 06 27.00	19 09.3	-14 32	RI 1402			990
(760)	1992 09 25.95139	00 13 17.63	+11 54 01.6	MPC 20880		5	017
(760)	1992 09 26.95278	00 12 32.06	+11 51 09.5	MPC 20880	15.0	5	017
(760)	1992 09 26.97361	00 12 30.92	+11 51 08.7	MPC 20880		5	017
(774)	1992 09 25.95139	23 56 15.21	+08 11 26.2	MPC 20880		5	017
(774)	1992 09 26.95278	23 55 30.01	+08 05 20.5	MPC 20880	16.0	5	017
(774)	1992 09 26.97361	23 55 29.00	+08 05 14.7	MPC 20880		5	017
(779)	1934 11 27.8	04 24.3	+36 02	RI 1075			073
(784)	1936 03 18.9313	12 45.0	-00 38	RI 1365	12.0	3	022
(849)	1936 05 25.97	17 06.3	-10 38	RI 1394	10.5	6	094
(977)	1934 07 06.96441	19 40.7	-33 35	RI 1022	13.3		078
(1101)	1992 09 25.95139	23 53 51.30	+11 11 58.0	MPC 20880		5	017
(1101)	1992 09 26.95278	23 53 13.13	+11 01 18.0	MPC 20880	17.0	5	017
(1101)	1992 09 26.97361	23 53 12.40	+11 01 06.1	MPC 20880		5	017
(1114)	1936 03 18.9313	12 56.85	-07 54	RI 1365	13.1	3	022
(1197)	1936 06 14.88387	17 55.9	-20 07	RI 1415	12.7		078
(1288)	1992 09 25.95139	00 03 50.50	+12 19 56.8	MPC 20880		5	017
(1288)	1992 09 26.95278	00 03 00.51	+12 15 51.9	MPC 20880	16.5	5	017
(1288)	1992 09 26.97361	00 02 59.32	+12 15 48.5	MPC 20880		5	017
(3637)	1992 09 25.95139	00 01 07.89	+11 00 23.6	MPC 20880		5	017
(3637)	1992 09 26.95278	00 00 22.05	+10 48 53.9	MPC 20880	17.0	5	017
(3637)	1992 09 26.97361	00 00 21.05	+10 48 43.5	MPC 20880		5	017
(3893)	1992 09 25.95139	23 50 03.24	+12 01 27.8	MPC 20880		5	017
(3893)	1992 09 26.95278	23 49 27.86	+11 37 18.9	MPC 20880	17.0	5	017
(3893)	1992 09 26.97361	23 49 26.93	+11 36 48.9	MPC 20880		5	017
(3977)	1992 09 25.95139	00 07 56.12	+13 33 36.4	MPC 20880		5	017
(3977)	1992 09 26.95278	00 07 10.27	+13 23 11.0	MPC 20880	17.0	5	017
(3977)	1992 09 26.97361	00 07 09.07	+13 23 01.5	MPC 20880		5	017

Note 1: 1969 TO1 = (2468). 2: time of observation changed by about -40 min.

3: time of observation changed by +1 day. 4: originally given as (194).

5: observatory code originally given incorrectly. 6: originally given as (829).

\* \* \* \* \*

#### IDENTIFICATION CHANGES.

Continuation to MPC 20857.

Object	Date	UT	R. A.	(2000)	Decl.	Old desig.	Mag.	N	Obs.
1934 PC1	* 1934 08	09.93529	21 34.0	-16 59		1239	14.7		078
1935 NF	* 1935 07	02.91678	20 25.7	-26 50		867	13.6		078
1935 SJ2	* 1935 09	21.92	22 58.2	+10 18		437			012
1935 SJ2	1935 09	23.85	22 56.7	+10 10		437			012
1935 SK2	* 1935 09	21.92	23 01.1	+10 27		500			012
1935 SK2	1935 09	23.85	22 59.7	+10 18		500			012
1935 UA1	* 1935 10	24.03	04 05.1	+20 46		813			012
1935 YL	* 1935 12	22.85	02 49.0	+21 43		118			012
1935 YL	1935 12	23.86	02 48.6	+21 43		118			012
1935 YL	1935 12	27.86	02 47.1	+21 43		118			012
1935 YL	1935 12	29.93	02 46.5	+21 43		118			012

1936 HP	*	1936 04	21.92120	14	11.7	-15	00	499	13	078
1936 QQ1	*	1936 08	21.93	21	52.0	-16	18	841	13.6	094
1975 FZ	*	1975 03	17.82898	10	04 51.14	+08	34 26.0	1975 EB2	17.0	1 095
1982 SE13	*	1982 09	20.78474	22	09 46.67	-15	13 07.2	1982 PK	16.5	095
1982 SF13	*	1982 09	20.92014	00	14 27.52	+01	16 19.9	1982 SF12	16.5	095
1982 SG13	*	1982 09	26.91668	00	09 14.48	+01	49 41.9	1982 SA6	17.5	095
1985 DT4	*	1985 02	17.45556	07	50 13.02	+21	10 53.7	1985 BA	16.5	881
1985 DT4		1985 02	17.47986	07	50 11.87	+21	10 54.5	1985 BA		881
1990 FM5	*	1990 03	23.93160	11	58 22.51	+06	13 50.5	1990 FL2		046
1990 FM5		1990 03	23.94583	11	58 22.20	+06	14 02.0	1990 FL2		046
1992 CE4	*	1992 02	04.59342	07	49 52.01	+21	46 00.1	1992 BR1	18	372

Note 1: this is the observation used in the orbit on MPC 16241.

\* \* \* \* \*

#### IDENTIFICATIONS.

The following identifications with numbered minor planets, by G. V. Williams, continue the list on MPC 20859:

1934 PC1 = (4053)	1935 NF = (4396)	1935 SJ2 = (500)
1935 SK2 = (1189)	1935 UA1 = (178)	1935 YL = (99)
1936 HP = (2007)	1936 QQ1 = (383)	

\* \* \* \* \*

#### OBSERVATIONS OF COMETS.

Observations are published here for the following observatory codes:

012 Uccle. Double astrograph. Observer T. Pauwels.

046 Klet. 0.63-m Maksutov reflector. Observer Z. Moravec.

107 Cavezzo. 0.40-m f/2.23 reflector + CCD. Observers R. Calanca, F. Calzolari, M. Facchini and A. Bondi. Long. and Parallax 11.035, 0.7105, +0.7014 (see MPC 19348).

108 Montelupo. 0.20-m f/10 reflector + CCD. Observer M. Tombelli. Measured by S. Bartolini. Long. and Parallax 11.0278, 0.72367, +0.68784 (see MPC 19348).

364 JCPM Kagoshima Station. 0.25-m f/4.2 Wright-Schmidt. Observer M. Mukai. Measured by M. Takeishi.

372 Geisei. 0.60-m f/3.5 reflector. Observer T. Seki. In part from Orient. Astron. Assoc. Comet Bull.

376 Uenohara. 0.30-m reflector + CCD. Observer N. Kawasato.

400 Kitami. 0.25-m f/3.4 hyperboloid astrocamera. Observer M. Yanai. Measured by K. Watanabe.

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

410 Sengamine. 0.20-m reflector + CCD. Observer K. Ito.

413 Siding Spring. 1.0-m reflector + CCD. Observers R. H. McNaught and D. I. Steel.

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

587 Sormano. 0.21-m f/4.9 astrograph. Observers M. Cavagna, E. Colzani, C. Gualdoni and G. Vospini.

589 Santa Lucia Stroncone. 0.50-m f/2.8 Ritchey-Chretien + CCD. Observers A. Vagnozzi, V. Risoldi and G. Bernabei.

595 Farra d'Isonzo. 0.4-m f/4.5 reflector. Observers W. Boschin, G. Lombardi, E. Pettarin and F. Piani.

- 657 Climenhaga Observatory, Victoria. 0.25-m Schmidt telescope. Observer D. D. Tatum.  
 658 University of Victoria. 1.85-m reflector + CCD. Observer D. D. Balam.  
 675 Palomar. 0.46-m Schmidt. Observers J. Alu, E. F. Helin, H. Holt, K. J. Lawrence, D. H. Levy, P. Rose, C. S. Shoemaker and E. M. Shoemaker.  
 691 Kitt Peak. 0.91-m Spacewatch telescope. Observer J. V. Scotti.  
 693 University of Arizona, Catalina Station. 1.5-m reflector + CCD. Observer S. M. Larson. Measured by T. Spahr and J. V. Scotti.  
 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.  
 896 Yatsugatake South Base Observatory. 0.25-m f/3.4 reflector. Observers Y. Kushida and O. Muramatsu. Measurer O. Muramatsu.

Object	Date	UT	R. A. (2000)	Decl.	Mag.	N Obs.
Periodic Comet Grigg-Skjellerup						
/1987 X	1992 10	12.40001	17 00 31.03	-05 27 55.1		413
/1987 X	1992 10	12.40222	17 00 31.55	-05 27 55.9		413
Periodic Comet Schwassmann-Wachmann 1						
/1989 XV	1992 10	28.35513	05 53 41.72	+31 43 58.6		801
/1989 XV	1992 10	28.41128	05 53 41.04	+31 44 02.3		801
Comet McNaught-Russell (1990 XXII)						
/1990 XXII	1992 06	27.44311	22 39 15.03	-19 59 21.8	18.2 T	1 693
/1990 XXII	1992 10	14.46769	21 52 18.59	-30 45 00.2		413
/1990 XXII	1992 10	14.47108	21 52 18.54	-30 45 00.9		413
Comet Shoemaker-Levy (1991d)						
/1991d	1992 09	17.84583	19 50 37.98	+15 31 51.2		595
/1991d	1992 09	17.85903	19 50 37.76	+15 31 35.0		595
/1991d	1992 09	24.01249	19 50 36.67	+13 24 20.8		801
/1991d	1992 09	24.02432	19 50 36.78	+13 24 05.3		801
/1991d	1992 09	25.80775	19 50 44.54	+12 48 34.0		046
/1991d	1992 09	25.81944	19 50 44.64	+12 48 21.4		2 046
/1991d	1992 09	26.79792	19 50 50.27	+12 29 04.0		046
/1991d	1992 09	26.81215	19 50 50.38	+12 28 57.9		046
/1991d	1992 09	30.02715	19 51 16.76	+11 27 19.7		801
/1991d	1992 09	30.04491	19 51 16.88	+11 27 02.4		801
/1991d	1992 10	09.53814	19 53 34.68	+08 38 40.4		376
/1991d	1992 10	23.96840	19 59 32.48	+05 01 25.0		801
/1991d	1992 10	23.98411	19 59 32.91	+05 01 12.0		801
/1991d	1992 10	29.00589	20 02 12.73	+03 56 14.7		801
/1991d	1992 10	29.01803	20 02 13.17	+03 56 05.8		801
Comet Helin-Lawrence (1991l)						
/1991l	1992 09	25.21538	00 34 51.83	+16 23 29.9		801
/1991l	1992 09	25.22703	00 34 50.49	+16 23 31.0		801
/1991l	1992 09	30.22155	00 25 20.51	+16 25 59.0		801
/1991l	1992 09	30.23295	00 25 19.22	+16 25 58.3		801
Comet Helin-Alu (1991r)						
/1991r	1992 09	24.99212	18 48 46.30	+20 00 34.6		801
/1991r	1992 09	25.03855	18 48 47.01	+20 00 24.4		801
/1991r	1992 10	23.95220	19 01 02.66	+18 48 05.2		801
/1991r	1992 10	23.97076	19 01 03.37	+18 48 05.9		801
/1991r	1992 10	27.94885	19 03 26.57	+18 40 56.4		801
/1991r	1992 10	27.96269	19 03 27.07	+18 40 54.8		801

## Comet Shoemaker-Levy (1991a1)

/1991a 1	1992 07 15.93021	11 27 54.60	+50 08 33.6	595
/1991a 1	1992 07 15.93785	11 27 57.52	+50 07 19.8	595

## Periodic Comet Shoemaker-Levy 8

/1992f	1992 10 06.39014	16 23 51.78	-17 32 49.8	413
/1992f	1992 10 06.39214	16 23 51.95	-17 32 50.0	413
/1992f	1992 10 12.39255	16 33 30.79	-17 53 56.5	413
/1992f	1992 10 12.39510	16 33 31.05	-17 53 57.0	413

## Periodic Comet Giclas

/1992l	1992 09 25.30519	04 14 35.24	+09 32 06.1	801
/1992l	1992 09 25.31904	04 14 36.03	+09 32 08.0	801
/1992l	1992 09 30.34221	04 19 04.01	+09 28 37.1	801
/1992l	1992 09 30.35590	04 19 04.62	+09 28 35.1	801
/1992l	1992 10 24.30828	04 27 47.91	+09 06 27.4	801
/1992l	1992 10 24.35182	04 27 47.56	+09 06 25.8	801
/1992l	1992 10 28.29957	04 27 09.84	+09 04 41.6	801
/1992l	1992 10 28.35142	04 27 08.98	+09 04 40.6	801

## Periodic Comet Wolf

/1992m	1992 09 27.40650	01 22 34.44	+15 34 05.7	658
/1992m	1992 09 27.41149	01 22 34.31	+15 34 00.8	658
/1992m	1992 09 27.41636	01 22 34.12	+15 33 55.5	658

## Periodic Comet Schuster

/1992n	1992 09 25.36051	06 36 28.72	+26 29 23.5	801
/1992n	1992 09 25.36834	06 36 30.03	+26 29 30.9	801
/1992n	1992 10 01.37543	06 52 29.67	+27 56 47.0	801
/1992n	1992 10 01.38372	06 52 31.03	+27 56 53.2	801
/1992n	1992 10 22.50123	07 44 43.67	+33 04 52.3	18.2 T 691
/1992n	1992 10 22.50495	07 44 44.11	+33 04 56.3	691
/1992n	1992 10 23.39578	07 46 45.03	+33 18 14.2	801
/1992n	1992 10 23.40406	07 46 45.97	+33 18 23.1	801
/1992n	1992 10 28.37589	07 57 37.87	+34 33 51.5	801
/1992n	1992 10 28.38866	07 57 39.31	+34 34 03.9	801

## Periodic Comet Brewington

/1992p	1992 09 05.79618	07 36 07.63	+36 32 56.6	372
/1992p	1992 09 25.39620	08 22 47.07	+35 18 46.1	801
/1992p	1992 09 25.39957	08 22 47.72	+35 18 44.6	801
/1992p	1992 09 27.14219	08 26 29.29	+35 11 18.0	589
/1992p	1992 09 27.15269	08 26 30.65	+35 11 13.5	589
/1992p	1992 09 27.16164	08 26 31.84	+35 11 09.9	589
/1992p	1992 10 01.40373	08 35 11.61	+34 52 52.0	801
/1992p	1992 10 01.40848	08 35 12.22	+34 52 50.5	801
/1992p	1992 10 02.79328	08 37 55.84	+34 46 52.4	16.6 T 410
/1992p	1992 10 02.80222	08 37 57.08	+34 46 48.9	410
/1992p	1992 10 05.80833	08 43 42.36	+34 33 55.5	16 T 372
/1992p	1992 10 06.80625	08 45 33.94	+34 29 40.2	894
/1992p	1992 10 06.81308	08 45 34.54	+34 29 38.8	894
/1992p	1992 10 20.47519	09 08 22.76	+33 35 27.0	691
/1992p	1992 10 20.48394	09 08 23.56	+33 35 25.0	691
/1992p	1992 10 20.50447	09 08 25.34	+33 35 20.8	691 3
/1992p	1992 10 27.74583	09 18 26.81	+33 11 33.6	16 T 372
/1992p	1992 10 27.75556	09 18 27.02	+33 11 31.7	372
/1992p	1992 10 29.40793	09 20 31.80	+33 06 48.3	801
/1992p	1992 10 29.41488	09 20 32.31	+33 06 47.1	801

## Comet Helin-Lawrence (1992q)

/1992q	1992 09 05.72222	01 59 10.16	-16 14 57.0	14	T		372
/1992q	1992 09 25.24184	01 36 16.67	-28 08 07.0				801
/1992q	1992 09 25.24672	01 36 16.20	-28 08 18.2				801
/1992q	1992 10 06.66701	01 15 19.49	-35 13 06.5	13.5	T		372
/1992q	1992 10 06.67465	01 15 18.60	-35 13 23.7				372
/1992q	1992 10 13.70604	01 00 00.06	-39 10 34.2				413
/1992q	1992 10 15.51516	00 55 50.40	-40 07 03.0				413
/1992q	1992 10 15.51730	00 55 50.12	-40 07 07.0				413
/1992q	1992 10 21.57292	00 41 25.75	-43 00 03.8	14	T		372
/1992q	1992 10 21.58299	00 41 24.38	-43 00 19.4				372

## Periodic Comet Ciffreo

/1992s	1992 08 26.63403	00 09 10.42	-23 00 10.1	19.5	T	4	372
/1992s	1992 08 26.69479	00 09 08.70	-23 00 31.8			4	372

## Periodic Comet Swift-Tuttle

/1992t	1992 09 30.81009	12 14 10.73	+59 17 22.9				589
/1992t	1992 09 30.82387	12 14 16.40	+59 17 24.3				589
/1992t	1992 09 30.85045	12 14 27.46	+59 17 26.3				589
/1992t	1992 09 30.86566	12 14 33.98	+59 17 28.0				589
/1992t	1992 10 01.76139	12 20 50.99	+59 18 55.5				589
/1992t	1992 10 01.76990	12 20 54.82	+59 18 58.1				589
/1992t	1992 10 01.77450	12 20 56.77	+59 18 58.4				589
/1992t	1992 10 01.79082	12 21 03.66	+59 18 58.1				589
/1992t	1992 10 01.83302	12 21 21.92	+59 19 01.9				589
/1992t	1992 10 01.83841	12 21 24.10	+59 19 01.9				589
/1992t	1992 10 04.97708	12 44 44.13	+59 16 37.0				595
/1992t	1992 10 04.99583	12 44 53.00	+59 16 31.3				595
/1992t	1992 10 05.79757	12 51 08.41	+59 13 54.1				364
/1992t	1992 10 07.76371	13 06 58.50	+59 03 01.8				589
/1992t	1992 10 07.76687	13 07 00.05	+59 03 00.1				589
/1992t	1992 10 07.79799	13 07 15.26	+59 02 47.4				589
/1992t	1992 10 07.80264	13 07 17.63	+59 02 45.6				589
/1992t	1992 10 08.77708	13 15 24.36	+58 54 54.0				595
/1992t	1992 10 08.78888	13 15 30.53	+58 54 45.2				595
/1992t	1992 10 08.79201	13 15 31.95	+58 54 43.8				587
/1992t	1992 10 09.74556	13 23 37.11	+58 45 12.9				589
/1992t	1992 10 09.80503	13 24 08.83	+58 44 31.8				376
/1992t	1992 10 11.75691	13 41 05.34	+58 19 03.4				589
/1992t	1992 10 11.80018	13 41 28.56	+58 18 22.3				589
/1992t	1992 10 11.84008	13 41 49.78	+58 17 43.3				589
/1992t	1992 10 11.84840	13 41 54.19	+58 17 35.4				589
/1992t	1992 10 11.85310	13 41 56.84	+58 17 31.9				589
/1992t	1992 10 13.12796	13 53 18.41	+57 55 57.7				557
/1992t	1992 10 13.13334	13 53 21.28	+57 55 49.8				557
/1992t	1992 10 13.13565	13 53 22.27	+57 55 48.6				557
/1992t	1992 10 13.13971	13 53 24.37	+57 55 41.9				557
/1992t	1992 10 13.14160	13 53 25.65	+57 55 41.4				557
/1992t	1992 10 13.15745	13 53 33.90	+57 55 23.6				557
/1992t	1992 10 13.15939	13 53 35.07	+57 55 20.7				557
/1992t	1992 10 13.74858	13 58 52.01	+57 43 58.7				589
/1992t	1992 10 13.75504	13 58 55.02	+57 43 50.4				589
/1992t	1992 10 13.85151	13 59 47.56	+57 41 54.9				589
/1992t	1992 10 13.86108	13 59 52.97	+57 41 41.1				589
/1992t	1992 10 13.88908	14 00 08.06	+57 41 06.4				589
/1992t	1992 10 13.90688	14 00 17.61	+57 40 44.2				589
/1992t	1992 10 14.16118	14 02 36.75	+57 35 29.1				557

/1992t	1992 10	14.16341	14 02	38.16	+57	35	25.0		557
/1992t	1992 10	14.16521	14 02	38.91	+57	35	24.6		557
/1992t	1992 10	14.16876	14 02	41.06	+57	35	19.8		557
/1992t	1992 10	14.17150	14 02	42.55	+57	35	19.5		557
/1992t	1992 10	15.73486	14 16	54.52	+56	59	01.0		589
/1992t	1992 10	15.75493	14 17	05.62	+56	58	31.0		589
/1992t	1992 10	15.83766	14 17	51.29	+56	56	23.3		589
/1992t	1992 10	15.88084	14 18	14.80	+56	55	14.5		589
/1992t	1992 10	16.39965	14 22	59.73	+56	41	37.5	7.2 T	372
/1992t	1992 10	16.76806	14 26	22.15	+56	31	21.8		012
/1992t	1992 10	16.77361	14 26	25.45	+56	31	16.2		012
/1992t	1992 10	17.73167	14 35	13.16	+56	02	51.5		589
/1992t	1992 10	17.74485	14 35	20.07	+56	02	26.8		589
/1992t	1992 10	17.77063	14 35	34.74	+56	01	40.0		589
/1992t	1992 10	17.79497	14 35	48.45	+56	00	52.9		589
/1992t	1992 10	18.39826	14 41	20.07	+55	41	33.0		400
/1992t	1992 10	18.41632	14 41	30.10	+55	40	57.0		400
/1992t	1992 10	18.73816	14 44	26.95	+55	30	10.0		589
/1992t	1992 10	18.74375	14 44	29.67	+55	29	59.1	6.5 T	587
/1992t	1992 10	18.74483	14 44	30.18	+55	29	56.1		107
/1992t	1992 10	18.75605	14 44	36.49	+55	29	32.9		589
/1992t	1992 10	18.76181	14 44	39.77	+55	29	21.2		587
/1992t	1992 10	18.80219	14 45	02.08	+55	27	55.7		589
/1992t	1992 10	18.83943	14 45	22.96	+55	26	41.0		589
/1992t	1992 10	19.77078	14 53	53.60	+54	53	27.9		557
/1992t	1992 10	19.78112	14 53	59.81	+54	53	05.0		557
/1992t	1992 10	19.78741	14 54	03.01	+54	52	49.3		557
/1992t	1992 10	19.79176	14 54	05.68	+54	52	39.0		557
/1992t	1992 10	19.79530	14 54	06.74	+54	52	30.0		557
/1992t	1992 10	20.12822	14 57	10.05	+54	39	56.0		557
/1992t	1992 10	20.13101	14 57	11.55	+54	39	50.6		557
/1992t	1992 10	20.13495	14 57	13.96	+54	39	37.2		557
/1992t	1992 10	20.13729	14 57	15.44	+54	39	32.1		557
/1992t	1992 10	20.14568	14 57	19.95	+54	39	13.7		557
/1992t	1992 10	20.14778	14 57	20.87	+54	39	07.9		557
/1992t	1992 10	20.15293	14 57	23.86	+54	38	58.8		557
/1992t	1992 10	20.16838	14 57	32.58	+54	38	20.9		557
/1992t	1992 10	20.17647	14 57	36.57	+54	38	03.8		557
/1992t	1992 10	20.17822	14 57	37.87	+54	37	59.1		557
/1992t	1992 10	20.18196	14 57	39.77	+54	37	51.5		557
/1992t	1992 10	20.18369	14 57	41.15	+54	37	46.7		557
/1992t	1992 10	21.40868	15 08	45.60	+53	48	25.7	6.5 T	894
/1992t	1992 10	22.40069	15 17	40.21	+53	05	02.5	6 T	896
/1992t	1992 10	22.73643	15 20	39.64	+52	49	36.0		589
/1992t	1992 10	22.74785	15 20	45.96	+52	49	04.6		589
/1992t	1992 10	22.87855	15 21	55.37	+52	42	56.0		589
/1992t	1992 10	23.74134	15 29	32.99	+52	01	27.7		107
/1992t	1992 10	23.94616	15 31	20.21	+51	51	12.9		801
/1992t	1992 10	23.94877	15 31	21.60	+51	51	04.6		801
/1992t	1992 10	24.72931	15 38	09.10	+51	10	58.7		589
/1992t	1992 10	24.74552	15 38	17.15	+51	10	07.0		589
/1992t	1992 10	24.79653	15 38	43.54	+51	07	25.7		587
/1992t	1992 10	24.82608	15 38	58.73	+51	05	51.2		589
/1992t	1992 10	25.37708	15 43	43.31	+50	36	16.8		894
/1992t	1992 10	25.44005	15 44	15.39	+50	32	52.0		896
/1992t	1992 10	25.73899	15 46	47.99	+50	16	18.3		107
/1992t	1992 10	26.71774	15 55	02.78	+49	20	23.7		107
/1992t	1992 10	26.73844	15 55	13.42	+49	19	10.1		589
/1992t	1992 10	26.74421	15 55	16.67	+49	18	47.0		108

/1992t	1992 10	26.75853	15 55	23.46	+49 17	58.8			589
/1992t	1992 10	26.76473	15 55	26.17	+49 17	38.0			107
/1992t	1992 10	26.87178	15 56	20.10	+49 11	15.9			589
/1992t	1992 10	27.44965	16 01	06.56	+48 36	42.5	5.9 T		372
/1992t	1992 10	27.93263	16 05	03.80	+48 07	03.4			801
/1992t	1992 10	27.93416	16 05	04.40	+48 06	58.7			801
/1992t	1992 10	28.16493	16 06	55.74	+47 52	36.1			675
/1992t	1992 10	28.19132	16 07	09.13	+47 50	51.1			675

## Periodic Comet Schaumasse

/1992x	1992 09	24.48211	04 24	44.35	+11 07	13.7		4	691
/1992x	1992 09	24.48975	04 24	44.75	+11 07	14.9		4	691
/1992x	1992 09	24.49736	04 24	45.09	+11 07	15.5	19.9 T	4	691
/1992x	1992 09	25.47807	04 25	31.87	+11 08	04.6	19.7 T	4	691
/1992x	1992 09	25.48548	04 25	32.16	+11 08	04.2		4	691
/1992x	1992 09	25.49928	04 25	32.84	+11 08	06.0		4	691
/1992x	1992 10	24.68611	04 39	13.94	+11 32	27.6	18 T		372
/1992x	1992 10	25.73403	04 39	17.31	+11 33	53.8	18 T		372

## Comet Shoemaker (1992y)

/1992y	1992 10	25.47413	04 23	43.99	+25 46	29.4	15.5 T		675
/1992y	1992 10	25.51006	04 23	41.27	+25 47	10.5			675
/1992y	1992 10	26.35381	04 22	38.75	+26 03	31.3			675
/1992y	1992 10	26.41163	04 22	34.37	+26 04	38.4			675
/1992y	1992 10	26.52152	04 22	25.87	+26 06	45.0			675
/1992y	1992 10	27.42646	04 21	16.08	+26 24	26.1			657
/1992y	1992 10	27.80417	04 20	46.17	+26 31	53.5	15 T		372
/1992y	1992 10	27.81250	04 20	45.58	+26 32	03.3			372
/1992y	1992 10	27.82128	04 20	44.83	+26 32	10.8	15 T		372
/1992y	1992 10	28.63087	04 19	39.80	+26 48	10.8			402
/1992y	1992 10	28.63964	04 19	39.17	+26 48	22.9			402
/1992y	1992 10	30.71285	04 16	43.30	+27 29	43.5	15 T		372
/1992y	1992 10	30.78491	04 16	37.15	+27 31	12.3	15.1 T		410
/1992y	1992 10	30.79653	04 16	35.82	+27 31	22.6			372
/1992y	1992 10	30.82311	04 16	33.51	+27 31	54.1			410

Note 1: 11" coma, 30" tail in p.a. 349 . 2: involved with star. 3: 43" coma, 4'.16 tail in p.a. 298 . 4: pre-recovery observation.

\* \* \* \* \*

## OBSERVATIONS OF MINOR PLANETS.

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

A earlier approximate position inferior  
a sense of motion ambiguous  
B black or dark plate  
b bad seeing  
C correction to earlier position  
c crowded star field  
D declination uncertain  
d diffuse image  
E at or near edge of plate  
F faint image  
f involved with emulsion or plate flaw



G poor guiding  
g no guiding  
I involved with star  
i inkdot measured  
M measurement difficult  
N near edge of plate, measurement uncertain  
O image out of focus  
o plate measured in one direction only  
P position uncertain  
p poor image  
R right ascension uncertain  
r poor distribution of reference stars  
S poor sky  
s streaked image  
T time uncertain  
t trailed image  
U uncertain image  
u unconfirmed image  
V very faint image  
W weak image  
w weak solution

Object	Date	UT	R. A. (2000)	Decl.	Mag.	N Obs.
033 Tautenburg						
F. Borngen, Thuringer Landessternwarte, Dorfstrasse 73, O-6901 Tautenburg, Federal Republic of Germany						
L. D. Schmadel, Astronomisches Rechen-Institut, W-6900 Heidelberg, Federal Republic of Germany						
Observers F. Borngen, L. D. Schmadel						
1.3-m Schmidt telescope						
PPM						
1982 EF	1992 09	26.90486	00 07 46.54	-03 12 16.5	18.5	033
1982 EF	1992 09	26.94583	00 07 44.59	-03 12 39.8		033
1982 EF	1992 09	27.94444	00 06 58.90	-03 22 13.0		033
1982 EF	1992 09	28.91736	00 06 14.54	-03 31 27.8		033
1989 AN6	1992 07	27.06146	00 32 00.53	+00 03 18.3	18.9 V	033
1989 AN6	1992 07	28.05764	00 32 19.79	+00 04 05.8		033
1989 AN6	1992 07	29.04271	00 32 37.50	+00 04 41.5		033
1989 AN6	1992 07	30.06389	00 32 54.45	+00 05 09.5		033
1989 AN6	1992 08	36.07222	00 34 11.98	+00 04 14.8		033
1989 AN6	1992 09	21.95694	00 15 30.33	-02 35 35.6	17.7	033
1989 AN6	1992 09	22.97569	00 14 45.08	-02 40 27.5		033
1989 AN6	1992 09	23.01875	00 14 43.08	-02 40 40.0		033
1989 AN6	1992 09	24.97083	00 13 16.37	-02 49 54.4		033
1989 AN6	1992 09	26.90486	00 11 50.36	-02 58 50.5	17.8	033
1989 AN6	1992 09	26.94583	00 11 48.48	-02 59 02.3		033
1989 AN6	1992 09	26.96806	00 11 47.44	-02 59 08.4		033
1989 AN6	1992 09	27.94444	00 11 04.20	-03 03 34.8		033
1989 AN6	1992 09	27.96528	00 11 03.25	-03 03 39.6		033
1989 AN6	1992 09	28.91736	00 10 21.18	-03 07 57.4		033
1989 AN6	1992 09	28.94167	00 10 20.12	-03 08 01.9		033
1992 RQ	1992 09	26.90486	00 08 53.99	-03 25 41.9	17.5	033
1992 RQ	1992 09	26.94583	00 08 52.19	-03 25 54.2		033
1992 RQ	1992 09	27.94444	00 08 10.61	-03 30 50.2		033
1992 RQ	1992 09	28.91736	00 07 30.22	-03 35 34.4		033
1992 RR	1992 09	26.90486	00 02 49.96	-02 47 40.5	18.0	033
1992 RR	1992 09	26.94583	00 02 47.49	-02 47 54.8		033
1992 RR	1992 09	27.94444	00 01 49.39	-02 53 44.9		033

1992 RR	1992 09	28.91736	00 00	53.28	-02 59	20.8		033
1992 RS	1992 09	26.90486	00 10	35.73	-01 22	31.1	17.6	033
1992 RS	1992 09	26.94583	00 10	33.61	-01 22	41.8		033
1992 RS	1992 09	27.94444	00 09	45.76	-01 26	46.6		033
1992 RS	1992 09	28.91736	00 08	59.46	-01 30	40.6		033
1992 RT	1992 09	21.95694	00 16	49.04	-02 21	41.5	17.8	033
1992 RT	1992 09	22.97569	00 16	02.12	-02 27	34.6		033
1992 RT	1992 09	23.01875	00 16	00.04	-02 27	49.3		033
1992 RT	1992 09	24.97083	00 14	29.83	-02 39	00.9		033
1992 RT	1992 09	26.90486	00 13	00.15	-02 49	57.1	17.7	033
1992 RT	1992 09	26.94583	00 12	58.18	-02 50	11.4		033
1992 RT	1992 09	26.96806	00 12	57.08	-02 50	18.9		033
1992 RT	1992 09	27.94444	00 12	11.89	-02 55	45.8		033
1992 RT	1992 09	27.96528	00 12	10.83	-02 55	52.3		033
1992 RT	1992 09	28.91736	00 11	26.81	-03 01	09.2		033
1992 RT	1992 09	28.94167	00 11	25.65	-03 01	16.2		033
1992 RU	1992 09	21.95694	00 25	41.12	-02 23	05.2	17.6	033
1992 RU	1992 09	22.97569	00 25	03.88	-02 31	53.8		033
1992 RU	1992 09	23.01875	00 25	02.25	-02 32	17.0		033
1992 RU	1992 09	24.97083	00 23	49.66	-02 49	08.5		033
1992 RU	1992 09	26.96806	00 22	33.58	-03 06	09.7		033
1992 RU	1992 09	27.96528	00 21	55.33	-03 14	32.2		033
1992 RU	1992 09	28.94167	00 21	17.82	-03 22	38.6		033
1992 RV	1992 09	21.95694	00 18	46.10	-02 16	05.9	17.1	033
1992 RV	1992 09	22.97569	00 17	48.61	-02 17	08.5		033
1992 RV	1992 09	23.01875	00 17	46.11	-02 17	11.6		033
1992 RV	1992 09	24.97083	00 15	55.38	-02 19	06.2		033
1992 RV	1992 09	26.90486	00 14	05.22	-02 20	49.4	17.0	033
1992 RV	1992 09	26.94583	00 14	02.80	-02 20	51.5		033
1992 RV	1992 09	26.96806	00 14	01.46	-02 20	53.0		033
1992 RV	1992 09	27.94444	00 13	05.88	-02 21	40.5		033
1992 RV	1992 09	27.96528	00 13	04.58	-02 21	41.1		033
1992 RV	1992 09	28.91736	00 12	10.50	-02 22	25.3		033
1992 RV	1992 09	28.94167	00 12	09.05	-02 22	25.3		033
1992 RW	1992 09	21.95694	00 20	54.80	-00 46	49.6	17.4	033
1992 RW	1992 09	22.97569	00 20	00.82	-00 50	36.5		033
1992 RW	1992 09	23.01875	00 19	58.39	-00 50	44.9		033
1992 RW	1992 09	24.97083	00 18	13.77	-00 57	56.7		033
1992 RW	1992 09	26.96806	00 16	25.42	-01 05	13.0		033
1992 RW	1992 09	27.96528	00 15	31.02	-01 08	49.9		033
1992 RW	1992 09	28.94167	00 14	37.83	-01 12	17.1		033
1992 RX	1992 09	21.95694	00 18	16.74	-00 51	53.7	18.0	033
1992 RX	1992 09	22.97569	00 17	11.94	-00 56	49.8		033
1992 RX	1992 09	23.01875	00 17	09.13	-00 57	00.7		033
1992 RX	1992 09	24.97083	00 15	04.93	-01 06	20.5		033
1992 RX	1992 09	26.90486	00 13	02.09	-01 15	26.5	18.0	033
1992 RX	1992 09	26.94583	00 12	59.40	-01 15	38.3		033
1992 RX	1992 09	26.96806	00 12	58.00	-01 15	43.4		033
1992 RX	1992 09	27.94444	00 11	56.26	-01 20	15.6		033
1992 RX	1992 09	27.96528	00 11	54.89	-01 20	20.9		033
1992 RX	1992 09	28.91736	00 10	55.05	-01 24	41.8		033
1992 RX	1992 09	28.94167	00 10	53.46	-01 24	48.8		033
1992 SW1	* 1992 09	21.95694	00 15	17.90	-00 33	22.2	18.3	033
1992 SW1	1992 09	22.97569	00 14	27.27	-00 41	11.7		033
1992 SW1	1992 09	23.01875	00 14	25.02	-00 41	28.9		033
1992 SW1	1992 09	24.97083	00 12	47.82	-00 56	15.0		033
1992 SW1	1992 09	26.90486	00 11	11.71	-01 10	41.1	18.5	033
1992 SW1	1992 09	26.94583	00 11	09.61	-01 10	59.4		033
1992 SW1	1992 09	26.96806	00 11	08.49	-01 11	09.0		033

1992 SW1		1992 09	27.94444	00 10	20.29	-01 18	21.7		033
1992 SW1		1992 09	28.91736	00 09	32.51	-01 25	27.6		033
1992 SX1	*	1992 09	21.95694	00 16	25.96	-00 18	54.9	18.4	033
1992 SX1		1992 09	22.97569	00 15	28.91	-00 24	46.9		033
1992 SX1		1992 09	23.01875	00 15	26.36	-00 24	58.9		033
1992 SX1		1992 09	24.97083	00 13	36.26	-00 36	08.9		033
1992 SX1		1992 09	26.96806	00 11	42.79	-00 47	29.7		033
1992 SX1		1992 09	27.96528	00 10	46.08	-00 53	09.0		033
1992 SX1		1992 09	28.94167	00 09	50.70	-00 58	37.9		033
1992 SY1	*	1992 09	21.95694	00 16	50.13	-01 17	13.5	18.7	033
1992 SY1		1992 09	22.97569	00 15	52.10	-01 19	28.6		033
1992 SY1		1992 09	23.01875	00 15	49.56	-01 19	34.0		033
1992 SY1		1992 09	24.97083	00 13	57.86	-01 23	46.6		033
1992 SY1		1992 09	26.90486	00 12	06.94	-01 27	48.5	18.4	033
1992 SY1		1992 09	26.94583	00 12	04.50	-01 27	54.3		033
1992 SY1		1992 09	26.96806	00 12	03.16	-01 27	56.1		033
1992 SY1		1992 09	27.94444	00 11	07.33	-01 29	55.5		033
1992 SY1		1992 09	27.96528	00 11	06.05	-01 29	58.4		033
1992 SY1		1992 09	28.91736	00 10	11.74	-01 31	51.5		033
1992 SY1		1992 09	28.94167	00 10	10.31	-01 31	53.9		033
1992 SZ1	*	1992 09	21.95694	00 18	32.34	-02 26	04.7	17.7	033
1992 SZ1		1992 09	22.97569	00 17	33.78	-02 29	27.1		033
1992 SZ1		1992 09	23.01875	00 17	31.17	-02 29	36.1		033
1992 SZ1		1992 09	24.97083	00 15	38.21	-02 35	56.6		033
1992 SZ1		1992 09	26.90486	00 13	45.63	-02 41	58.6	17.9	033
1992 SZ1		1992 09	26.94583	00 13	43.09	-02 42	06.2		033
1992 SZ1		1992 09	26.96806	00 13	41.70	-02 42	11.0		033
1992 SZ1		1992 09	27.94444	00 12	44.91	-02 45	06.7		033
1992 SZ1		1992 09	27.96528	00 12	43.56	-02 45	09.5		033
1992 SZ1		1992 09	28.91736	00 11	48.34	-02 47	57.9		033
1992 SZ1		1992 09	28.94167	00 11	46.83	-02 48	00.4		033
1992 SA2	*	1992 09	21.95694	00 18	49.63	-00 43	09.2	18.1	033
1992 SA2		1992 09	22.97569	00 17	46.79	-00 46	31.1		033
1992 SA2		1992 09	23.01875	00 17	44.04	-00 46	37.4		033
1992 SA2		1992 09	24.97083	00 15	43.14	-00 52	59.7		033
1992 SA2		1992 09	26.96806	00 13	39.10	-00 59	24.1		033
1992 SA2		1992 09	27.96528	00 12	37.23	-01 02	34.8		033
1992 SA2		1992 09	28.94167	00 11	36.82	-01 05	37.7		033
1992 SB2	*	1992 09	21.95694	00 19	20.86	-01 44	35.2	18.5	033
1992 SB2		1992 09	22.97569	00 18	23.00	-01 45	28.0		033
1992 SB2		1992 09	23.01875	00 18	20.47	-01 45	30.7		033
1992 SB2		1992 09	24.97083	00 16	29.21	-01 47	06.4		033
1992 SB2		1992 09	26.96806	00 14	34.89	-01 48	36.6		033
1992 SB2		1992 09	27.96528	00 13	37.82	-01 49	17.5		033
1992 SB2		1992 09	28.94167	00 12	42.19	-01 49	55.2		033
1992 SC2	*	1992 09	21.95694	00 19	45.06	-01 23	46.7	18.6	033
1992 SC2		1992 09	22.97569	00 18	58.26	-01 29	45.9		033
1992 SC2		1992 09	23.01875	00 18	56.23	-01 30	01.5		033
1992 SC2		1992 09	24.97083	00 17	26.07	-01 41	29.9		033
1992 SC2		1992 09	26.96806	00 15	53.27	-01 53	07.6		033
1992 SC2		1992 09	27.96528	00 15	06.88	-01 58	53.4		033
1992 SC2		1992 09	28.94167	00 14	21.49	-02 04	28.3		033
1992 SD2	*	1992 09	21.95694	00 20	44.74	-00 22	38.4	18.3	033
1992 SD2		1992 09	22.97569	00 19	51.30	-00 27	42.6		033
1992 SD2		1992 09	23.01875	00 19	48.88	-00 27	54.5		033
1992 SD2		1992 09	24.97083	00 18	06.12	-00 37	31.6		033
1992 SD2		1992 09	26.96806	00 16	20.82	-00 47	15.4		033
1992 SD2		1992 09	27.96528	00 15	28.31	-00 52	06.6		033
1992 SD2		1992 09	28.94167	00 14	37.16	-00 56	45.7		033

1992 SE2	*	1992 09	21.95694	00 21	36.53	-02 40	58.1	18.7	033
1992 SE2		1992 09	22.97569	00 20	37.20	-02 45	29.7		033
1992 SE2		1992 09	23.01875	00 20	34.64	-02 45	41.8		033
1992 SE2		1992 09	24.97083	00 18	40.03	-02 54	17.0		033
1992 SE2		1992 09	26.96806	00 16	41.68	-03 02	52.9		033
1992 SE2		1992 09	27.96528	00 15	42.39	-03 07	05.8		033
1992 SE2		1992 09	28.94167	00 14	44.45	-03 11	08.8		033
1992 SF2	*	1992 09	21.95694	00 22	03.73	-02 01	52.3	18.4	033
1992 SF2		1992 09	22.97569	00 21	16.31	-02 12	14.8		033
1992 SF2		1992 09	23.01875	00 21	14.25	-02 12	42.4		033
1992 SF2		1992 09	24.97083	00 19	42.92	-02 32	29.5		033
1992 SF2		1992 09	26.96806	00 18	08.99	-02 52	37.8		033
1992 SF2		1992 09	27.96528	00 17	22.07	-03 02	35.7		033
1992 SF2		1992 09	28.94167	00 16	36.21	-03 12	17.9		033
1992 SG2	*	1992 09	21.95694	00 22	25.43	-02 31	54.7	17.8	033
1992 SG2		1992 09	22.97569	00 21	39.58	-02 43	36.1		033
1992 SG2		1992 09	23.01875	00 21	37.59	-02 44	06.7		033
1992 SG2		1992 09	24.97083	00 20	09.54	-03 06	24.1		033
1992 SG2		1992 09	26.96806	00 18	39.19	-03 28	53.8		033
1992 SG2		1992 09	27.96528	00 17	54.18	-03 39	59.9		033
1992 SG2		1992 09	28.94167	00 17	10.29	-03 50	43.9		033
1992 SH2	*	1992 09	21.95694	00 23	21.06	-02 26	33.9	17.9	033
1992 SH2		1992 09	22.97569	00 22	22.58	-02 30	04.4		033
1992 SH2		1992 09	23.01875	00 22	20.08	-02 30	13.8		033
1992 SH2		1992 09	24.97083	00 20	27.44	-02 36	49.8		033
1992 SH2		1992 09	26.96806	00 18	31.62	-02 43	22.9		033
1992 SH2		1992 09	27.96528	00 17	33.83	-02 46	33.4		033
1992 SH2		1992 09	28.94167	00 16	37.44	-02 49	34.7		033
1992 SJ2	*	1992 09	21.95694	00 23	46.75	-01 51	27.2	18.2	033
1992 SJ2		1992 09	22.97569	00 23	04.59	-01 59	20.7		033
1992 SJ2		1992 09	23.01875	00 23	02.83	-01 59	41.7		033
1992 SJ2		1992 09	24.97083	00 21	41.68	-02 14	48.9		033
1992 SJ2		1992 09	26.96806	00 20	17.97	-02 30	11.5		033
1992 SJ2		1992 09	27.96528	00 19	36.15	-02 37	50.2		033
1992 SJ2		1992 09	28.94167	00 18	55.14	-02 45	16.2		033
1992 SK2	*	1992 09	21.95694	00 25	27.16	-00 13	32.7	17.5	033
1992 SK2		1992 09	22.97569	00 24	37.37	-00 21	35.9		033
1992 SK2		1992 09	23.01875	00 24	35.11	-00 21	54.5		033
1992 SK2		1992 09	24.97083	00 22	58.68	-00 37	26.3		033
1992 SK2		1992 09	26.96806	00 21	18.83	-00 53	10.1		033
1992 SK2		1992 09	27.96528	00 20	28.86	-01 00	59.9		033
1992 SK2		1992 09	28.94167	00 19	39.92	-01 08	34.6		033
1992 SL2	*	1992 09	21.95694	00 25	37.59	-01 58	00.8	17.9	033
1992 SL2		1992 09	22.97569	00 24	42.03	-02 03	34.8		033
1992 SL2		1992 09	23.01875	00 24	39.68	-02 03	50.2		033
1992 SL2		1992 09	24.97083	00 22	52.92	-02 14	26.5		033
1992 SL2		1992 09	26.96806	00 21	03.29	-02 25	02.4		033
1992 SL2		1992 09	27.96528	00 20	08.72	-02 30	13.3		033
1992 SL2		1992 09	28.94167	00 19	15.53	-02 35	12.8		033
1992 SM2	*	1992 09	21.95694	00 25	44.10	-02 10	53.7	18.2	033
1992 SM2		1992 09	22.97569	00 24	41.70	-02 12	47.2		033
1992 SM2		1992 09	23.01875	00 24	38.98	-02 12	53.1		033
1992 SM2		1992 09	24.97083	00 22	39.04	-02 16	27.7		033
1992 SM2		1992 09	26.96806	00 20	35.73	-02 19	59.0		033
1992 SM2		1992 09	27.96528	00 19	34.16	-02 21	40.9		033
1992 SM2		1992 09	28.94167	00 18	34.04	-02 23	17.9		033
1992 SN2	*	1992 09	21.95694	00 25	47.76	-02 15	03.7	18.1	033
1992 SN2		1992 09	22.97569	00 24	55.89	-02 22	14.9		033
1992 SN2		1992 09	23.01875	00 24	53.68	-02 22	35.0		033

1992 SN2		1992 09	24.97083	00 23	12.97	-02 36	25.3		033
1992 SN2		1992 09	26.96806	00 21	28.16	-02 50	29.0		033
1992 SN2		1992 09	27.96528	00 20	35.47	-02 57	26.6		033
1992 SN2		1992 09	28.94167	00 19	43.77	-03 04	11.5		033
1992 SO2	*	1992 09	21.95694	00 27	15.11	-01 07	36.3	18.7	033
1992 SO2		1992 09	22.97569	00 26	15.32	-01 12	33.6		033
1992 SO2		1992 09	23.01875	00 26	12.81	-01 12	47.7		033
1992 SO2		1992 09	24.97083	00 24	17.99	-01 22	19.7		033
1992 ST13	*	1992 09	26.90486	00 01	43.44	-03 36	19.0	18.2	033
1992 ST13		1992 09	26.94583	00 01	41.62	-03 36	36.2		033
1992 ST13		1992 09	27.94444	00 00	58.82	-03 43	25.7		033
1992 ST13		1992 09	28.91736	00 00	17.39	-03 50	00.9		033
1992 SU13	*	1992 09	26.90486	00 02	27.82	-03 53	40.3	19.0	033
1992 SU13		1992 09	26.94583	00 02	25.82	-03 53	52.3		033
1992 SU13		1992 09	27.94444	00 01	39.59	-03 58	26.2		033
1992 SU13		1992 09	28.91736	00 00	54.80	-04 02	48.0		033
1992 SV13	*	1992 09	26.90486	00 02	43.37	-04 07	25.9	17.1	033
1992 SV13		1992 09	26.94583	00 02	41.37	-04 07	42.6		033
1992 SV13		1992 09	27.94444	00 01	57.08	-04 14	23.5		033
1992 SV13		1992 09	28.91736	00 01	14.38	-04 20	45.3		033
1992 SW13	*	1992 09	26.90486	00 04	50.63	-04 01	10.5	18.3	033
1992 SW13		1992 09	26.94583	00 04	48.33	-04 01	30.5		033
1992 SW13		1992 09	27.94444	00 03	53.76	-04 09	32.7		033
1992 SW13		1992 09	28.91736	00 03	00.87	-04 17	16.8		033
1992 SX13	*	1992 09	26.90486	00 05	47.76	-02 42	36.1	18.7	033
1992 SX13		1992 09	26.94583	00 05	45.22	-02 42	49.9		033
1992 SX13		1992 09	27.94444	00 04	45.66	-02 48	28.7		033
1992 SX13		1992 09	28.91736	00 03	47.79	-02 53	54.4		033
1992 SY13	*	1992 09	26.90486	00 06	24.38	-03 08	08.5	17.7	033
1992 SY13		1992 09	26.94583	00 06	21.51	-03 07	53.7		033
1992 SY13		1992 09	27.94444	00 05	14.90	-03 02	00.9		033
1992 SY13		1992 09	28.91736	00 04	10.71	-02 56	13.6		033
1992 SZ13	*	1992 09	26.90486	00 07	09.16	-02 52	18.5	18.6	033
1992 SZ13		1992 09	26.94583	00 07	07.24	-02 52	31.4		033
1992 SZ13		1992 09	27.94444	00 06	21.98	-02 57	43.1		033
1992 SZ13		1992 09	28.91736	00 05	38.12	-03 02	42.9		033
1992 SA14	*	1992 09	26.90486	00 07	15.77	-02 13	54.1	18.6	033
1992 SA14		1992 09	26.94583	00 07	13.90	-02 14	13.4		033
1992 SA14		1992 09	27.94444	00 06	31.26	-02 22	25.3		033
1992 SA14		1992 09	28.91736	00 05	49.95	-02 30	18.9		033
1992 SB14	*	1992 09	26.90486	00 09	26.48	-01 24	07.6	18.4	033
1992 SB14		1992 09	26.94583	00 09	23.92	-01 24	14.3		033
1992 SB14		1992 09	27.94444	00 08	23.24	-01 26	40.0		033
1992 SB14		1992 09	28.91736	00 07	24.29	-01 29	00.4		033
1992 SC14	*	1992 09	26.90486	00 09	58.64	-03 02	18.9	18.9	033
1992 SC14		1992 09	26.94583	00 09	56.23	-03 02	31.4		033
1992 SC14		1992 09	27.94444	00 08	59.60	-03 07	29.6		033
1992 SC14		1992 09	28.91736	00 08	04.75	-03 12	16.6		033
1992 SD14	*	1992 09	26.90486	00 10	21.28	-02 22	32.6	18.7	033
1992 SD14		1992 09	26.94583	00 10	19.32	-02 22	51.8		033
1992 SD14		1992 09	27.94444	00 09	34.53	-02 30	31.1		033
1992 SD14		1992 09	28.91736	00 08	50.89	-02 37	54.1		033
1992 SE14	*	1992 09	26.90486	00 13	20.90	-03 37	33.2	18.8	033
1992 SE14		1992 09	26.94583	00 13	18.92	-03 37	57.4		033
1992 SE14		1992 09	27.94444	00 12	32.58	-03 47	42.8		033
1992 SE14		1992 09	28.91736	00 11	47.55	-03 57	07.3		033
9512 P-L		1992 09	26.90486	00 08	29.22	-01 45	31.7	18.7	033
9512 P-L		1992 09	26.94583	00 08	26.62	-01 45	49.5		033
9512 P-L		1992 09	27.94444	00 07	27.43	-01 52	36.3		033

9512 P-L	1992 09	28.91736	00 06	30.02	-01 59	08.9		033
2222 T-2	1992 09	26.90486	00 04	35.99	-01 46	36.8	18.3	033
2222 T-2	1992 09	26.94583	00 04	34.32	-01 46	49.8		033
2222 T-2	1992 09	27.94444	00 03	55.01	-01 51	55.8		033
2222 T-2	1992 09	28.91736	00 03	16.78	-01 56	50.9		033
(268)	1992 09	26.90486	00 02	51.08	-02 54	26.4	14.2	033
(268)	1992 09	26.94583	00 02	49.28	-02 54	38.4		033
(268)	1992 09	27.94444	00 02	06.68	-02 59	23.9		033
(268)	1992 09	28.91736	00 01	25.34	-03 04	00.5		033
(1439)	1992 09	26.90486	00 05	26.07	-02 49	42.8	17.6	033
(1439)	1992 09	26.94583	00 05	24.52	-02 49	50.8		033
(1439)	1992 09	27.94444	00 04	48.76	-02 53	06.3		033
(1439)	1992 09	28.91736	00 04	13.93	-02 56	16.1		033
(1544)	1992 09	21.95694	00 26	34.34	-02 44	13.1	15.1	033
(1544)	1992 09	22.97569	00 25	38.25	-02 49	24.9		033
(1544)	1992 09	23.01875	00 25	35.87	-02 49	38.6		033
(1544)	1992 09	24.97083	00 23	47.25	-02 59	32.0		033
(1544)	1992 09	26.96806	00 21	54.72	-03 09	28.6		033
(1544)	1992 09	27.96528	00 20	58.30	-03 14	21.3		033
(1544)	1992 09	28.94167	00 20	03.04	-03 19	03.6		033
(1674)	1992 09	21.95694	00 18	45.45	-02 16	21.9	16.3	033
(1674)	1992 09	22.97569	00 18	01.00	-02 21	20.9		033
(1674)	1992 09	23.01875	00 17	59.07	-02 21	34.1		033
(1674)	1992 09	24.97083	00 16	33.50	-02 31	04.2		033
(1674)	1992 09	26.96806	00 15	05.40	-02 40	42.1		033
(1674)	1992 09	27.96528	00 14	21.31	-02 45	27.1		033
(1674)	1992 09	28.94167	00 13	38.21	-02 50	04.4		033
(1933)	1992 09	21.95694	00 26	30.18	-01 28	51.8	15.8	033
(1933)	1992 09	22.97569	00 25	43.60	-01 39	12.8		033
(1933)	1992 09	23.01875	00 25	41.58	-01 39	39.8		033
(1933)	1992 09	24.97083	00 24	11.37	-01 59	35.2		033
(1933)	1992 09	26.96806	00 22	37.66	-02 19	48.6		033
(1933)	1992 09	27.96528	00 21	50.72	-02 29	49.2		033
(1933)	1992 09	28.94167	00 21	04.72	-02 39	33.8		033
(2489)	1992 09	26.90486	00 01	49.48	-02 16	25.3	16.9	033
(2489)	1992 09	26.94583	00 01	47.52	-02 16	36.1		033
(2489)	1992 09	27.94444	00 01	02.35	-02 20	58.4		033
(2489)	1992 09	28.91736	00 00	18.55	-02 25	10.7		033
(3463)	1992 09	21.95694	00 26	23.32	-01 18	16.3	17.2	033
(3463)	1992 09	22.97569	00 25	27.53	-01 23	28.8		033
(3463)	1992 09	23.01875	00 25	25.14	-01 23	42.8		033
(3463)	1992 09	24.97083	00 23	37.18	-01 33	47.4		033
(3463)	1992 09	26.96806	00 21	45.30	-01 44	00.2		033
(3463)	1992 09	27.96528	00 20	49.15	-01 49	04.4		033
(3463)	1992 09	28.94167	00 19	54.08	-01 53	59.4		033
(3636)	1992 09	26.90486	00 06	46.96	-02 32	16.2	17.9	033
(3636)	1992 09	26.94583	00 06	44.39	-02 32	28.3		033
(3636)	1992 09	27.94444	00 05	42.74	-02 37	15.6		033
(3636)	1992 09	28.91736	00 04	42.81	-02 41	52.2		033
(3888)	1992 09	21.95694	00 25	54.52	-02 28	03.2	16.4	033
(3888)	1992 09	22.97569	00 25	05.40	-02 46	18.8		033
(3888)	1992 09	23.01875	00 25	03.30	-02 47	04.5		033
(3888)	1992 09	24.97083	00 23	29.02	-03 21	43.7		033
(3915)	1992 09	26.90486	00 03	29.15	-03 19	20.8	15.9	033
(3915)	1992 09	26.94583	00 03	27.19	-03 19	51.0		033
(3915)	1992 09	27.94444	00 02	41.98	-03 32	09.8		033
(3915)	1992 09	28.91736	00 01	58.26	-03 44	02.8		033
(4143)	1992 09	26.90486	00 06	18.16	-02 56	36.1	16.5	033
(4143)	1992 09	26.94583	00 06	16.28	-02 56	48.2		033

(4143)	1992 09	27.94444	00 05	32.34	-03 01	33.8		033
(4143)	1992 09	28.91736	00 04	49.78	-03 06	08.9		033
(4144)	1992 09	26.90486	00 06	51.80	-01 46	19.4	16.8	033
(4144)	1992 09	26.94583	00 06	50.10	-01 46	37.5		033
(4144)	1992 09	27.94444	00 06	09.71	-01 53	52.6		033
(4144)	1992 09	28.91736	00 05	30.52	-02 00	54.6		033
(4193)	1992 09	21.95694	00 15	23.82	-01 02	42.4	16.0	033
(4193)	1992 09	22.97569	00 14	39.77	-01 08	06.8		033
(4193)	1992 09	23.01875	00 14	37.86	-01 08	18.7		033
(4193)	1992 09	24.97083	00 13	13.11	-01 18	34.8		033
(4193)	1992 09	26.90486	00 11	48.89	-01 28	39.2	16.2	033
(4193)	1992 09	26.94583	00 11	47.00	-01 28	52.2		033
(4193)	1992 09	26.96806	00 11	46.01	-01 28	58.8		033
(4193)	1992 09	27.94444	00 11	03.54	-01 34	01.2		033
(4193)	1992 09	27.96528	00 11	02.58	-01 34	07.3		033
(4193)	1992 09	28.91736	00 10	21.28	-01 39	00.4		033
(4193)	1992 09	28.94167	00 10	20.15	-01 39	07.3		033
(4496)	1992 09	21.95694	00 15	30.30	-00 50	52.3	17.6	033
(4496)	1992 09	22.97569	00 14	43.76	-00 57	34.6		033
(4496)	1992 09	23.01875	00 14	41.71	-00 57	49.5		033
(4496)	1992 09	24.97083	00 13	12.21	-01 10	36.2		033
(4496)	1992 09	26.90486	00 11	43.27	-01 23	10.3	18.1	033
(4496)	1992 09	26.94583	00 11	41.29	-01 23	26.2		033
(4496)	1992 09	26.96806	00 11	40.26	-01 23	34.5		033
(4496)	1992 09	27.94444	00 10	55.44	-01 29	54.2		033
(4496)	1992 09	27.96528	00 10	54.40	-01 30	01.3		033
(4496)	1992 09	28.91736	00 10	10.78	-01 36	09.2		033
(4496)	1992 09	28.94167	00 10	09.60	-01 36	17.7		033
(4530)	1992 09	21.95694	00 15	19.52	-00 39	04.7	18.0	033
(4530)	1992 09	22.97569	00 14	37.10	-00 44	58.9		033
(4530)	1992 09	23.01875	00 14	35.24	-00 45	11.2		033
(4530)	1992 09	24.97083	00 13	13.68	-00 56	23.7		033
(4530)	1992 09	26.96806	00 11	50.09	-01 07	46.5		033
(4530)	1992 09	27.96528	00 11	08.38	-01 13	26.8		033
(4530)	1992 09	28.94167	00 10	27.60	-01 18	57.1		033

## 046 Klet

J. Ticha, Hvezdarna Klet, CS-37001 Ceske Budejovice, Czechoslovakia  
 Observers Z. Moravec, J. Ticha, M. Tichy, Z. Vavrova  
 Measurers Z. Moravec, M. Tichy, Z. Vavrova

## 0.63-m Maksutov reflector, 0.57-m f/5 reflector

1988 VL	1992 09	25.83524	00 33	41.74	+05 41	51.8	15.5	E	046
1988 VL	1992 09	25.84948	00 33	41.18	+05 41	42.0		E	046
1988 VL	1992 09	26.85203	00 33	00.70	+05 29	37.0			046
1988 VL	1992 09	26.86632	00 33	00.02	+05 29	25.7		I	046
1992 DA5	* 1992 02	28.96463	10 52	44.60	+03 49	18.2	17.0	U	046
1992 DA5	1992 02	28.97910	10 52	43.77	+03 49	17.4			046
1992 DA5	1992 02	29.93546	10 52	02.30	+03 48	02.4		U	046
1992 DB5	* 1992 02	28.96463	10 53	26.43	+04 44	20.9	16.9		046
1992 DB5	1992 02	28.97910	10 53	25.80	+04 44	23.8			046
1992 DB5	1992 02	29.93546	10 52	45.80	+04 48	45.4			046
1992 DC5	* 1992 02	29.97123	11 08	12.87	+01 57	02.3	17.0	U	046
1992 DC5	1992 02	29.98639	11 08	12.04	+01 57	03.4			046
1992 DC5	1992 03	01.90282	11 07	15.16	+01 58	04.3		U	046
1992 EC3	* 1992 03	01.00630	11 15	43.50	+10 46	57.0	17.3	U	046
1992 EC3	1992 03	01.02053	11 15	42.64	+10 47	06.1		U	046
1992 EC3	1992 03	01.93760	11 15	05.91	+10 59	09.5			046
1992 ED3	* 1992 03	01.02053	11 12	08.77	+10 59	13.5	17.4		046
1992 ED3	1992 03	01.93760	11 11	07.21	+11 07	30.7		U	046

1992 ED3		1992 03 01.95178	11 11 06.20	+11 07 37.1				046
1992 EE3	*	1992 03 01.02053	11 18 36.22	+08 48 01.3	17.2			046
1992 EE3		1992 03 01.93760	11 17 23.08	+08 58 34.5			U	046
1992 EE3		1992 03 01.95178	11 17 21.97	+08 58 45.1				046
1992 OF		1992 09 25.98275	00 48 52.70	-03 35 05.0	15.7			046
1992 OF		1992 09 25.99699	00 48 52.07	-03 35 06.4				046
1992 OF		1992 09 26.99931	00 48 11.58	-03 36 50.0				046
1992 OF		1992 09 27.01348	00 48 10.89	-03 36 50.8				046
1992 OM		1992 08 22.84446	22 21 19.55	+00 24 13.7	16.3		I	046
1992 OM		1992 08 22.85898	22 21 18.85	+00 24 29.2				046
1992 OM		1992 08 25.87947	22 19 27.59	+01 15 03.8				046
1992 OM		1992 08 25.89394	22 19 26.80	+01 15 21.3				046
1992 OM		1992 08 27.96668	22 18 12.91	+01 46 49.8				046
1992 OM		1992 08 27.98091	22 18 12.23	+01 47 03.8				046
1992 QO1	*	1992 08 22.84446	22 13 59.15	+01 50 53.1	16.7			046
1992 QO1		1992 08 25.87947	22 12 08.80	+02 12 25.1				046
1992 QO1		1992 08 25.89394	22 12 07.90	+02 12 31.3				046
1992 QP1	*	1992 08 22.84446	22 18 30.35	+02 36 50.1	16.7			046
1992 QP1		1992 08 25.87947	22 16 12.16	+02 57 19.6				046
1992 QP1		1992 08 25.89394	22 16 11.72	+02 57 25.4			U	046
1992 QQ1	*	1992 08 22.84446	22 20 09.78	+03 35 58.4	16.5			046
1992 QQ1		1992 08 25.87947	22 18 21.73	+03 29 12.9				046
1992 QQ1		1992 08 25.89394	22 18 20.90	+03 29 11.5			U	046
1992 QR1	*	1992 08 22.84446	22 22 14.76	+00 18 45.3	16.8			046
1992 QR1		1992 08 22.85898	22 22 13.87	+00 18 51.8				046
1992 QR1		1992 08 27.96668	22 19 19.92	+00 49 15.5				046
1992 QR1		1992 08 27.98091	22 19 19.25	+00 49 20.8			U	046
1992 SB1		1992 09 25.90978	00 53 44.99	+10 43 54.1	15.5			046
1992 SB1		1992 09 25.92413	00 53 44.30	+10 43 58.0				046
1992 SB1		1992 09 26.92569	00 52 46.72	+10 45 40.4				046
1992 SB1		1992 09 27.79965	00 51 56.05	+10 47 05.8				046
1992 SB1		1992 09 27.81389	00 51 55.06	+10 47 06.7				046
1992 SF1		1992 09 25.98275	00 44 19.35	-02 46 20.5	16.3		E	046
1992 SF1		1992 09 25.99699	00 44 18.56	-02 46 21.9			E	046
1992 SF1		1992 09 26.99931	00 43 22.57	-02 50 36.3				046
1992 SF1		1992 09 27.01348	00 43 21.71	-02 50 40.7				046
1992 SA15	*	1992 09 25.80000	00 35 13.80	+08 37 49.3	16.5		E	046
1992 SA15		1992 09 25.81464	00 35 12.88	+08 37 42.1			E	046
1992 SA15		1992 09 26.81111	00 33 55.34	+08 26 48.7				046
1992 SB15	*	1992 09 25.80000	00 36 28.44	+11 50 48.7	16.6			046
1992 SB15		1992 09 26.81111	00 36 06.40	+11 46 57.3				046
1992 SB15		1992 09 26.82622	00 36 05.93	+11 46 53.6				046
1992 SC15	*	1992 09 25.80000	00 45 18.34	+09 59 43.3	16.6			046
1992 SC15		1992 09 25.81464	00 45 17.51	+09 59 47.0				046
1992 SC15		1992 09 26.82622	00 43 52.16	+10 05 41.4			E	046
1992 SD15	*	1992 09 25.83524	00 33 00.24	+06 05 08.0	16.4		E	046
1992 SD15		1992 09 25.84948	00 32 59.40	+06 05 01.2			E	046
1992 SD15		1992 09 26.85203	00 32 14.10	+06 00 41.9			E	046
1992 SD15		1992 09 26.86632	00 32 13.47	+06 00 37.5			E	046
1992 SE15	*	1992 09 25.83524	00 35 59.20	+06 09 13.2	16.3			046
1992 SE15		1992 09 26.85203	00 35 15.11	+06 05 34.2				046
1992 SE15		1992 09 26.86632	00 35 14.00	+06 05 30.7			U	046
1992 SF15	*	1992 09 25.83524	00 36 10.13	+05 37 19.8	16.2			046
1992 SF15		1992 09 25.84948	00 36 09.32	+05 37 10.7			U	046
1992 SF15		1992 09 26.85203	00 35 25.04	+05 30 51.7				046
1992 SF15		1992 09 26.86632	00 35 23.69	+05 30 46.3			U	046
1992 SG15	*	1992 09 25.83524	00 40 18.49	+05 26 09.1	15.9			046
1992 SG15		1992 09 25.84948	00 40 17.57	+05 26 00.1				046



1992	SG15		1992	09	26.85203	00	39	15.59	+05	13	50.9			046
1992	SH15	*	1992	09	25.83524	00	41	36.75	+04	05	32.2	16.6		046
1992	SH15		1992	09	25.84948	00	41	35.99	+04	05	30.4			046
1992	SH15		1992	09	26.86632	00	40	37.03	+04	01	16.0			046
1992	SJ15	*	1992	09	25.83524	00	42	08.91	+05	46	57.0	16.7		046
1992	SJ15		1992	09	25.84948	00	42	08.17	+05	46	48.9			046
1992	SJ15		1992	09	26.85203	00	40	55.21	+05	38	48.0			046
1992	SK15	*	1992	09	25.83524	00	42	30.45	+04	44	50.4	16.4		046
1992	SK15		1992	09	25.84948	00	42	29.59	+04	44	37.5			046
1992	SK15		1992	09	26.85203	00	41	39.75	+04	39	10.0			046
1992	SL15	*	1992	09	25.83524	00	44	19.98	+03	13	50.0	16.2		046
1992	SL15		1992	09	25.84948	00	44	19.10	+03	13	49.4		U	046
1992	SL15		1992	09	26.86632	00	43	26.11	+03	13	13.4			046
1992	SM15	*	1992	09	25.87517	00	34	52.07	-01	58	52.2	16.1		046
1992	SM15		1992	09	26.88837	00	33	50.90	-02	04	24.7			046
1992	SM15		1992	09	26.90289	00	33	49.97	-02	04	29.2			046
1992	SN15	*	1992	09	25.87517	00	39	17.16	-00	29	35.7	16.6		046
1992	SN15		1992	09	25.89028	00	39	16.47	-00	29	43.1			046
1992	SN15		1992	09	26.88837	00	38	18.97	-00	36	51.5			046
1992	SN15		1992	09	26.90289	00	38	18.25	-00	36	58.7			046
1992	SO15	*	1992	09	25.87517	00	41	59.46	-02	08	50.1	15.8		046
1992	SO15		1992	09	25.89028	00	41	58.72	-02	08	50.6			046
1992	SO15		1992	09	26.90289	00	41	06.58	-02	25	56.9			046
1992	SP15	*	1992	09	25.87517	00	44	20.98	-02	37	20.8	16.6		046
1992	SP15		1992	09	25.89028	00	44	20.30	-02	37	33.4			046
1992	SP15		1992	09	26.88837	00	43	29.03	-02	50	06.4			046
1992	SQ15	*	1992	09	25.90978	00	44	37.23	+10	52	00.6	15.8		046
1992	SQ15		1992	09	25.92413	00	44	36.65	+10	51	51.6		I	046
1992	SQ15		1992	09	26.92569	00	43	42.04	+10	49	49.4			046
1992	SQ15		1992	09	26.94201	00	43	41.41	+10	49	44.1			046
1992	SR15	*	1992	09	25.90978	00	46	27.81	+11	58	05.5	16.3	U	046
1992	SR15		1992	09	25.92413	00	46	26.82	+11	58	04.7			046
1992	SR15		1992	09	26.92569	00	45	28.01	+11	57	35.3			046
1992	SS15	*	1992	09	25.90978	00	47	46.55	+11	49	17.4	16.6		046
1992	SS15		1992	09	26.92569	00	46	55.22	+11	45	23.3			046
1992	SS15		1992	09	26.94201	00	46	54.39	+11	45	19.8			046
1992	ST15	*	1992	09	25.92413	00	52	09.62	+13	21	01.8	16.5	E	046
1992	ST15		1992	09	26.92569	00	51	03.52	+13	19	00.0		E	046
1992	ST15		1992	09	26.94201	00	51	03.10	+13	18	58.3		E	046
1992	SV15	*	1992	09	25.94514	00	47	14.59	+04	22	10.4	16.5	U	046
1992	SV15		1992	09	25.96007	00	47	13.92	+04	21	57.9		U	046
1992	SV15		1992	09	26.96285	00	46	26.97	+04	13	46.4		U	046
1992	SV15		1992	09	26.97708	00	46	25.50	+04	13	38.5			046
1992	SW15	*	1992	09	25.94514	00	47	20.94	+04	53	40.5	16.8		046
1992	SW15		1992	09	25.96007	00	47	20.22	+04	53	34.3		U	046
1992	SW15		1992	09	26.96285	00	46	08.84	+04	49	57.6		U	046
1992	SX15	*	1992	09	25.94514	00	48	53.27	+06	49	03.7	16.4		046
1992	SX15		1992	09	25.96007	00	48	52.34	+06	49	02.0			046
1992	SX15		1992	09	26.96285	00	47	57.73	+06	38	15.9		U	046
1992	SX15		1992	09	26.97708	00	47	57.19	+06	38	10.0			046
1992	SY15	*	1992	09	25.94514	00	49	07.78	+04	47	16.8	16.1		046
1992	SY15		1992	09	25.96007	00	49	06.90	+04	47	16.1			046
1992	SY15		1992	09	26.96285	00	48	02.13	+04	42	38.3			046
1992	SY15		1992	09	26.97708	00	48	01.53	+04	42	34.4			046
1992	SZ15	*	1992	09	25.94514	00	51	23.72	+07	13	32.4	16.5		046
1992	SZ15		1992	09	25.96007	00	51	22.74	+07	13	23.7		I	046
1992	SZ15		1992	09	26.96285	00	50	00.96	+07	05	56.5			046
1992	SZ15		1992	09	26.97708	00	50	00.17	+07	05	46.0			046

1992 SA16	*	1992 09 25.94514	00 54 24.06	+06 29 23.5	16.6	U	046
1992 SA16		1992 09 25.96007	00 54 23.54	+06 29 14.1		U	046
1992 SA16		1992 09 26.96285	00 53 30.44	+06 19 16.1		E	046
1992 SA16		1992 09 26.97708	00 53 29.98	+06 19 09.5		E	046
1992 SB16	*	1992 09 25.94514	00 55 42.15	+04 51 48.8	16.6		046
1992 SB16		1992 09 25.96007	00 55 41.48	+04 51 42.8			046
1992 SB16		1992 09 26.96285	00 54 39.79	+04 42 16.1		M	046
1992 SB16		1992 09 26.97708	00 54 39.37	+04 42 09.1		E	046
1992 SC16	*	1992 09 25.98275	00 48 32.06	-02 09 35.5	16.6		046
1992 SC16		1992 09 25.99699	00 48 31.56	-02 09 37.9			046
1992 SC16		1992 09 26.99931	00 47 44.60	-02 11 28.2			046
1992 SC16		1992 09 27.01348	00 47 44.00	-02 11 30.7		U	046
1992 SD16	*	1992 09 25.98275	00 49 53.12	-04 05 04.2	16.3	I	046
1992 SD16		1992 09 25.99699	00 49 52.34	-04 05 10.7			046
1992 SD16		1992 09 26.99931	00 49 25.31	-04 14 41.4		E	046
1992 SD16		1992 09 27.01348	00 49 24.83	-04 14 46.9		E	046
1992 SE16	*	1992 09 25.98275	00 50 54.81	-01 08 25.3	16.6		046
1992 SE16		1992 09 25.99699	00 50 54.26	-01 08 29.1			046
1992 SE16		1992 09 26.99931	00 50 22.05	-01 12 48.9			046
1992 SE16		1992 09 27.01348	00 50 21.54	-01 12 53.1			046
1992 SF16	*	1992 09 25.98275	00 55 14.49	-00 12 23.5	16.6		046
1992 SF16		1992 09 25.99699	00 55 13.58	-00 12 24.7			046
1992 SF16		1992 09 26.99931	00 54 38.68	-00 13 30.3		E	046
1992 SG16	*	1992 09 26.02014	00 56 30.25	+16 28 54.7	16.2		046
1992 SG16		1992 09 26.03490	00 56 29.64	+16 28 47.5			046
1992 SG16		1992 09 27.03681	00 55 42.54	+16 20 59.0		U	046
1992 SG16		1992 09 27.05139	00 55 42.04	+16 20 52.0			046
1992 SH16	*	1992 09 26.02014	00 58 51.40	+16 18 42.4	16.0		046
1992 SH16		1992 09 26.03490	00 58 50.81	+16 18 37.3			046
1992 SH16		1992 09 27.03681	00 57 47.07	+16 10 20.8			046
1992 SJ16	*	1992 09 26.03490	01 05 31.91	+15 11 07.9	16.3		046
1992 SJ16		1992 09 27.03681	01 04 35.88	+15 07 25.5			046
1992 SJ16		1992 09 27.05139	01 04 35.11	+15 07 20.0			046
(69)		1992 08 25.92628	22 23 01.65	-03 20 26.4			046
(69)		1992 08 25.94052	22 23 01.02	-03 20 32.3			046
(215)		1992 09 25.83524	00 45 26.28	+04 02 39.4			046
(215)		1992 09 25.84948	00 45 25.57	+04 02 35.3			046
(215)		1992 09 25.94514	00 45 20.90	+04 02 07.2		E	046
(215)		1992 09 25.96007	00 45 20.06	+04 02 03.9		E	046
(215)		1992 09 26.85203	00 44 36.27	+03 58 01.7		N	046
(215)		1992 09 26.86632	00 44 35.62	+03 57 59.5		N	046
(215)		1992 09 26.96285	00 44 31.05	+03 57 34.6		E	046
(215)		1992 09 26.97708	00 44 30.24	+03 57 31.4		E	046
(217)		1992 09 25.98275	00 53 04.21	-03 00 46.8			046
(217)		1992 09 25.99699	00 53 03.72	-03 00 55.0			046
(217)		1992 09 26.99931	00 52 23.45	-03 11 52.2			046
(217)		1992 09 27.01348	00 52 22.84	-03 12 02.0			046
(419)		1992 08 25.92628	22 10 57.78	-03 31 09.5		E	046
(419)		1992 08 25.94052	22 10 57.05	-03 31 13.9		E	046
(489)		1992 09 25.98275	00 47 34.11	-02 06 14.8			046
(489)		1992 09 25.99699	00 47 33.73	-02 06 19.8			046
(489)		1992 09 26.99931	00 46 54.41	-02 13 59.4		I	046
(489)		1992 09 27.01348	00 46 53.83	-02 14 02.4			046
(669)		1992 09 25.98275	00 53 30.21	+00 09 59.7			046
(669)		1992 09 25.99699	00 53 29.58	+00 09 52.9			046
(669)		1992 09 26.99931	00 52 48.43	+00 01 53.2			046
(669)		1992 09 27.01348	00 52 47.83	+00 01 47.3			046
(746)		1992 09 25.80000	00 42 03.83	+08 23 17.8			046

(746)	1992 09	25.81464	00 42	02.99	+08 23	19.2		046
(746)	1992 09	26.81111	00 41	01.18	+08 24	45.7		046
(746)	1992 09	26.82622	00 41	00.21	+08 24	47.2		046
(822)	1992 09	18.81502	00 02	49.77	+01 02	13.3		E 046
(822)	1992 09	18.82972	00 02	49.07	+01 02	07.5		E 046
(1557)	1992 09	25.90978	00 51	26.53	+10 15	03.3		046
(1557)	1992 09	25.92413	00 51	25.78	+10 15	02.8		046
(1557)	1992 09	26.92569	00 50	33.49	+10 14	10.6		046
(1557)	1992 09	26.94201	00 50	32.75	+10 14	08.3		046
(1774)	1992 09	25.96007	00 47	52.51	+04 23	46.4	15.7	046
(1774)	1992 09	26.96285	00 47	07.25	+04 18	12.1		046
(1774)	1992 09	26.97708	00 47	06.26	+04 18	05.5		046
(1796)	1992 08	27.87895	21 49	53.43	+06 46	31.6		046
(1796)	1992 08	27.89179	21 49	52.94	+06 46	25.6		046
(1832)	1992 08	22.84446	22 16	18.10	+01 50	48.1		046
(1832)	1992 08	22.85898	22 16	17.43	+01 50	46.4		046
(1832)	1992 08	25.87947	22 13	42.91	+01 49	59.4		046
(1832)	1992 08	25.89394	22 13	42.06	+01 49	59.0		046
(1832)	1992 08	27.96668	22 11	55.61	+01 48	54.1		046
(1832)	1992 08	27.98091	22 11	54.84	+01 48	54.3		046
(1854)	1992 09	25.94514	00 54	34.28	+05 45	14.8		046
(1854)	1992 09	25.96007	00 54	33.84	+05 45	12.0		U 046
(1854)	1992 09	26.96285	00 53	45.89	+05 37	56.2		I 046
(1854)	1992 09	26.97708	00 53	45.17	+05 37	50.5		046
(2097)	1992 09	25.90978	00 46	32.72	+11 22	18.6		046
(2097)	1992 09	25.92413	00 46	32.08	+11 22	16.9		046
(2097)	1992 09	26.92569	00 45	46.13	+11 19	40.1		046
(2097)	1992 09	26.94201	00 45	45.43	+11 19	35.3		046
(2322)	1992 09	26.96285	00 47	07.64	+05 33	23.1		046
(2322)	1992 09	26.97708	00 47	06.85	+05 33	16.9		046
(2457)	1992 09	26.88837	00 35	28.44	-03 41	33.6		046
(2457)	1992 09	26.90289	00 35	27.70	-03 41	39.5		046
(2528)	1992 09	25.83524	00 38	12.63	+03 44	28.9		046
(2528)	1992 09	25.84948	00 38	12.15	+03 44	28.6		I 046
(2528)	1992 09	26.85203	00 37	27.82	+03 39	30.3		046
(2528)	1992 09	26.86632	00 37	27.29	+03 39	28.1		046
(2556)	1992 09	25.87517	00 41	21.79	-00 23	06.6		I 046
(2556)	1992 09	25.89028	00 41	20.97	-00 23	11.7		046
(2556)	1992 09	26.88837	00 40	23.71	-00 30	29.8		046
(2556)	1992 09	26.90289	00 40	22.96	-00 30	33.2		046
(3179)	1992 09	25.96007	00 55	22.55	+05 25	35.1		046
(3179)	1992 09	26.96285	00 54	39.79	+05 20	28.9		E 046
(3179)	1992 09	26.97708	00 54	39.26	+05 20	23.1		E 046
(3546)	1992 09	26.81111	00 37	55.22	+10 50	35.9		046
(3546)	1992 09	26.82622	00 37	54.19	+10 50	33.8		046
(3734)	1992 09	25.83524	00 43	48.84	+03 55	08.7		046
(3734)	1992 09	25.84948	00 43	48.27	+03 55	06.7		U 046
(3903)	1992 09	25.83524	00 42	16.15	+05 30	38.2		U 046
(3903)	1992 09	25.84948	00 42	15.60	+05 30	33.7		U 046
(3903)	1992 09	26.85203	00 41	28.38	+05 26	02.1		046
(3903)	1992 09	26.86632	00 41	27.66	+05 26	00.2		046
(3903)	1992 09	26.96285	00 41	22.84	+05 25	35.3		E 046
(3903)	1992 09	26.97708	00 41	22.06	+05 25	35.1		E 046
(3915)	1992 09	18.81502	00 09	38.11	-01 37	12.4		E 046
(3915)	1992 09	18.82972	00 09	37.23	-01 37	24.4		E 046
(3974)	1992 09	25.98275	00 45	30.54	-00 30	42.6		046
(3974)	1992 09	25.99699	00 45	29.79	-00 30	45.2		046
(3974)	1992 09	26.99931	00 44	31.64	-00 32	51.4		046

(3974)	1992 09	27.01348	00 44	30.87	-00 32	52.2	046
(3975)	1992 09	26.96285	00 44	01.91	+05 19	03.7	046
(3975)	1992 09	26.97708	00 44	01.35	+05 18	58.0	046
(3994)	1992 09	25.87517	00 39	09.68	-01 32	31.8	046
(3994)	1992 09	25.89028	00 39	08.78	-01 32	34.8	046
(3994)	1992 09	26.88837	00 38	19.57	-01 35	46.3	046
(3994)	1992 09	26.90289	00 38	18.70	-01 35	47.6	046
(4112)	1992 09	18.81502	00 05	03.82	-00 58	26.3	046
(4112)	1992 09	18.82972	00 05	03.24	-00 58	34.3	046
(4144)	1992 09	18.81502	00 12	18.61	-00 46	44.8	046
(4144)	1992 09	18.82972	00 12	17.78	-00 46	57.5	046
(4147)	1992 09	26.02014	00 58	33.38	+16 21	35.3	046
(4147)	1992 09	26.03490	00 58	32.65	+16 21	34.4	046
(4147)	1992 09	27.03681	00 57	37.34	+16 17	21.7	046
(4147)	1992 09	27.05139	00 57	36.86	+16 17	21.4	046
(4407)	1992 08	25.92628	22 16	18.65	-02 36	40.9	046
(4407)	1992 08	25.94052	22 16	17.82	-02 36	45.6	046
(5352)	1992 08	25.92628	22 17	05.73	-02 49	28.4	046
(5352)	1992 08	25.94052	22 17	04.80	-02 49	33.4	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 BU	1992 08	27.84826	22 34	09.01	-03 29	10.6	104
1990 BU	1992 08	27.86111	22 34	08.20	-03 29	07.7	104
1990 BU	1992 09	01.88958	22 28	50.20	-03 16	56.2	104
1990 BU	1992 09	01.90486	22 28	49.22	-03 16	54.5	104
1990 BU	1992 09	20.81250	22 11	23.60	-02 40	49.9	104
1990 BU	1992 09	20.82847	22 11	22.92	-02 40	48.1	104
1990 BU	1992 09	25.95000	22 08	04.12	-02 31	32.6	104
1990 BU	1992 09	25.96458	22 08	03.58	-02 31	31.1	104
1992 LR	1992 08	20.83750	21 22	50.18	+06 16	57.0	104
1992 LR	1992 08	20.85069	21 22	53.81	+06 16	52.4	104
1992 LR	1992 08	30.82292	22 01	47.46	+04 59	37.7	104
1992 LR	1992 08	30.83821	22 01	50.23	+04 59	29.8	104
1992 NA	1992 09	20.90347	04 15	25.26	+42 14	22.4	104
1992 NA	1992 09	25.99167	04 34	35.67	+47 02	15.2	104
1992 NA	1992 09	26.00625	04 34	38.38	+47 02	59.1	104
(4905)	1992 08	27.93403	01 35	04.97	+14 42	50.2	104
(4905)	1992 08	27.94722	01 35	05.17	+14 42	46.8	104
(4905)	1992 09	20.85972	01 33	25.03	+11 59	45.5	104
(4905)	1992 09	20.87431	01 33	24.71	+11 59	37.5	104
(4905)	1992 09	25.90833	01 31	06.70	+11 06	44.8	104
(4905)	1992 09	25.92293	01 31	06.15	+11 06	35.7	104
(4950)	1992 08	27.88611	00 44	13.45	+08 46	46.3	104
(4950)	1992 08	27.89931	00 44	13.21	+08 46	42.5	104
(4950)	1992 08	30.86875	00 43	23.94	+08 29	33.1	104
(4950)	1992 08	30.88542	00 43	23.47	+08 29	25.3	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

(4407)	1992 08	30.20208	22 12	45.31	-02 55	33.4	293
(4407)	1992 08	30.21319	22 12	44.80	-02 55	38.4	293
(5352)	1992 08	30.20208	22 13	02.34	-03 09	41.4	293
(5352)	1992 08	30.21319	22 13	01.68	-03 09	43.1	293

## 303 Merida

O. A. Naranjo, Dept. de Fisica, Universidad de los Andes,  
Merida 5101, Venezuela

Observer O. A. Naranjo

1.0-m Schmidt

1979 SR2	1992 01 11.26238	08 55 08.74	+18 40 20.8	19	303
1979 SR2	1992 01 12.33333	08 54 17.29	+18 43 09.8		303
1990 SF11	1992 01 11.20197	08 15 32.65	+20 29 45.5	17	303
1990 SF11	1992 01 12.26586	08 14 27.46	+20 32 18.0		303
1992 AX	1992 01 11.20197	08 22 26.34	+18 50 07.1	16	303
1992 AX	1992 01 12.26586	08 21 11.23	+19 04 02.7		303
1992 AT1	1992 01 11.20197	08 16 01.24	+19 41 06.4	17	303
1992 AT1	1992 01 12.26586	08 14 54.25	+19 47 21.1	16	303
1992 AO2	1992 01 11.20197	08 10 53.79	+19 30 36.3	17	303
1992 AO2	1992 01 12.26586	08 09 52.47	+19 38 34.0		303
1992 AM3	* 1992 01 11.20197	08 12 42.78	+18 50 58.9	17	303
1992 AM3	1992 01 12.26586	08 11 31.98	+18 46 11.3		303
1992 AN3	* 1992 01 11.20197	08 14 17.99	+20 33 28.8	17	303
1992 AN3	1992 01 12.26586	08 13 14.79	+20 37 02.5		303
1992 AO3	* 1992 01 11.20197	08 17 28.67	+20 17 50.3	17	303
1992 AO3	1992 01 12.26586	08 16 53.53	+20 23 24.9		303
1992 AP3	* 1992 01 11.20197	08 20 05.20	+20 58 46.4	17	303
1992 AP3	1992 01 12.26586	08 18 59.54	+21 00 23.2		303
1992 AQ3	* 1992 01 11.20197	08 20 15.43	+19 25 01.2	15	303
1992 AQ3	1992 01 12.26586	08 18 05.89	+19 22 37.9		303
1992 AR3	* 1992 01 11.20197	08 20 18.05	+21 39 56.2	19	303
1992 AR3	1992 01 12.26586	08 19 20.34	+21 29 20.2		303
1992 AS3	* 1992 01 11.20197	08 20 38.28	+19 36 57.0	17	303
1992 AS3	1992 01 12.26586	08 19 47.69	+19 43 06.3		303
1992 AT3	* 1992 01 11.20197	08 20 53.50	+18 13 53.6	19	303
1992 AT3	1992 01 12.26586	08 19 58.11	+18 16 39.3		303
1992 BJ	1992 01 11.20197	08 21 58.98	+18 42 11.7	17	303
1992 BJ	1992 01 12.26586	08 20 59.02	+18 47 39.2		303
(376)	1992 01 11.20197	08 07 46.64	+21 11 25.8	13	303
(969)	1992 01 11.20197	08 23 24.24	+18 42 21.0	16	303
(969)	1992 01 12.26586	08 22 17.03	+18 44 58.7		303
(1643)	1992 01 11.20197	08 20 45.56	+18 33 39.5	16	303
(1643)	1992 01 12.26586	08 19 38.28	+18 35 41.3		303
(2668)	1992 01 11.20197	08 12 55.42	+20 06 44.0	18	303
(2668)	1992 01 12.26586	08 11 44.94	+20 08 48.7		303
(3399)	1992 01 11.20197	08 15 27.00	+20 00 52.7	16	303
(3399)	1992 01 12.26586	08 14 33.87	+20 03 43.5	17	303
(4611)	1992 01 11.20197	08 19 00.65	+19 56 51.9	16	303
(4611)	1992 01 12.26586	08 17 59.83	+20 06 34.3		303

## 364 JCPM Kagoshima Station

M. Takeishi, Odori 4, Hamatonbetsu Esashigun, Hokkaido 098-57, Japan

Observer M. Mukai, M. Takeishi

Measurer M. Takeishi

0.25-m f/4.2 Wright-Schmidt telescope

GSC

1992 US	1992 10 19.58368	02 22 24.64	+10 50 23.6	16.5	364
1992 US	1992 10 19.59757	02 22 23.71	+10 50 26.6		364
1992 US	1992 10 20.53785	02 21 27.94	+10 53 41.1		364
1992 US	1992 10 20.55174	02 21 27.08	+10 53 45.7		364
(124)	1992 10 19.58368	02 15 02.03	+11 35 17.3		364
(124)	1992 10 19.59757	02 15 01.27	+11 35 12.9		364
(798)	1992 10 20.50868	02 04 18.90	+13 25 16.1		364
(798)	1992 10 20.52257	02 04 18.21	+13 25 11.1		364

(1782)	1992 10	19.58368	02 17	38.93	+11 51	25.2	17	364
(1782)	1992 10	19.59757	02 17	38.17	+11 51	18.0		364
(1782)	1992 10	20.53785	02 16	55.20	+11 47	24.9		364
(1782)	1992 10	20.55174	02 16	54.61	+11 47	19.9		364
(3502)	1992 10	20.59965	02 47	35.01	+12 04	33.1	16.5	364
(3502)	1992 10	20.61354	02 47	34.36	+12 04	30.5		364
(3502)	1992 10	21.61146	02 46	48.17	+12 01	01.2		364
(3502)	1992 10	21.62535	02 46	47.45	+12 00	58.1		364
(3929)	1992 10	20.59965	02 51	31.37	+11 22	13.0	17	364
(3929)	1992 10	20.61354	02 51	30.54	+11 22	08.6		364
(3929)	1992 10	21.61146	02 50	41.17	+11 16	47.6		364
(3929)	1992 10	21.62535	02 50	40.43	+11 16	43.0		364
(3993)	1992 10	19.55521	02 04	50.81	+12 14	56.4	16.5	364
(3993)	1992 10	19.56910	02 04	50.05	+12 14	52.3		364
(3993)	1992 10	20.50868	02 04	01.22	+12 09	05.9		364
(3993)	1992 10	20.52257	02 04	00.45	+12 09	01.6		364
(4376)	1992 10	19.55521	02 07	39.04	+13 19	13.8	16.0	364
(4376)	1992 10	19.56910	02 07	38.33	+13 19	10.4		364
(4376)	1992 10	20.50868	02 06	46.89	+13 13	57.7		364
(4376)	1992 10	20.52257	02 06	46.16	+13 13	52.1		364

372 Geisei

T. Seki, Kamimachi 2-9-35, Kochi, Japan

0.60-m f/3.5 reflector

1981 UQ11	1992 10	24.50573	01 18	38.40	+02 24	56.2	17	372
1981 UQ11	1992 10	30.60035	01 13	17.84	+02 06	41.1	17	372
1988 VV3	1992 10	05.69965	01 14	42.33	+06 28	24.2	17	372
1988 VV3	1992 10	05.70938	01 14	41.74	+06 28	22.7		372
1988 VV3	1992 10	06.70382	01 13	49.65	+06 24	03.6	17	372
1988 VV3	1992 10	06.71493	01 13	49.09	+06 24	02.3		372
1991 JU	1992 10	25.68472	03 34	05.51	+17 07	27.7	17	372
1991 JU	1992 10	25.69583	03 34	04.89	+17 07	26.8		372
1991 JU	1992 10	27.69688	03 32	04.88	+17 07	25.8	17	372
1991 JU	1992 10	27.70800	03 32	04.14	+17 07	26.7		372
1992 AN3	1992 01	27.51250	07 57	24.60	+21 25	51.2	18	372
1992 JE	1992 10	19.49028	20 49	39.49	-14 12	49.2	18.5	372
1992 JE	1992 10	27.46528	21 19	04.92	-13 20	37.7	19	372
1992 SL	1992 10	05.74075	01 35	00.7	+28 05	37	16	372
1992 SL	1992 10	05.75071	01 35	00.3	+28 06	01		372
1992 SN	1992 10	20.53333	01 12	18.13	+18 21	03.9	16.5	372
1992 SN	1992 10	21.53333	01 11	26.64	+18 16	11.1	16.5	372
1992 SN1	1992 10	05.66806	00 54	01.32	+07 05	52.2	16	372
1992 SQ1	1992 10	02.60521	00 59	58.81	+06 01	57.8	17	372
1992 SQ1	1992 10	02.61597	00 59	58.27	+06 01	51.8		372
1992 SN12	* 1992 09	26.69375	01 21	52.22	+07 32	55.6	17.5	372
1992 SN12	1992 10	01.65764	01 18	10.21	+07 09	31.2	17.5	372
1992 SN12	1992 10	05.69965	01 14	57.35	+06 49	18.7	17.5	372
1992 SN12	1992 10	05.70938	01 14	57.04	+06 49	17.1		372
1992 SO12	* 1992 09	26.69375	01 22	57.14	+08 04	16.5	17.5	372
1992 SO12	1992 10	01.65764	01 17	40.63	+07 28	14.0	17.5	372
1992 SP12	* 1992 09	26.79202	02 11	59.65	+15 18	27.2	17.5	372
1992 SP12	1992 09	26.80313	02 11	59.28	+15 18	23.7		372
1992 SP12	1992 10	01.71215	02 08	08.59	+14 51	46.9	17	372
1992 SP12	1992 10	01.72639	02 08	08.13	+14 51	43.0		372
1992 SQ12	* 1992 09	26.79202	02 13	15.38	+15 01	33.9	17	372
1992 SQ12	1992 09	26.80313	02 13	15.09	+15 01	34.4		372
1992 SQ12	1992 10	01.71215	02 10	40.23	+15 03	36.9	17	372
1992 SQ12	1992 10	01.72639	02 10	39.67	+15 03	37.1		372
1992 ST12	* 1992 09	27.74929	01 18	30.76	+19 06	06.8	17	372

1992 ST12		1992 10 01.63229	01 14 52.44	+19 08 41.1	17	372
1992 SU12	*	1992 09 27.74929	01 21 07.59	+18 56 51.8	17	372
1992 SU12		1992 10 01.63229	01 18 20.63	+18 37 23.9	17	372
1992 SV12		1992 10 20.48125	00 35 18.08	+06 50 04.4	17	372
1992 SV12		1992 10 21.48160	00 34 23.19	+06 48 14.0	17	372
1992 SD13		1992 10 20.48125	00 38 30.33	+07 00 12.7	17.5	372
1992 SD13		1992 10 21.48160	00 37 56.66	+06 51 45.6	17.5	372
1992 SL13	*	1992 09 26.65174	01 04 14.73	+06 22 41.7	18	372
1992 SL13		1992 09 26.66215	01 04 13.97	+06 22 41.9		372
1992 SL13		1992 10 05.65729	00 51 52.68	+06 31 24.3	18	372
1992 SL13		1992 10 05.66806	00 51 51.87	+06 31 25.1		372
1992 SM13	*	1992 09 26.67396	01 29 36.06	+11 15 01.7	17.5	372
1992 SM13		1992 09 26.68507	01 29 35.39	+11 15 04.4		372
1992 SM13		1992 10 05.71944	01 20 35.05	+11 49 15.5	17.5	372
1992 SM13		1992 10 05.73021	01 20 34.51	+11 49 16.6		372
1992 TZ	*	1992 10 01.68472	00 59 45.61	+06 24 59.1	18	372
1992 TZ		1992 10 01.69896	00 59 44.89	+06 24 57.7		372
1992 TZ		1992 10 02.60521	00 58 57.34	+06 20 43.2	18	372
1992 TZ		1992 10 02.61597	00 58 56.79	+06 20 40.7		372
1992 TA1	*	1992 10 01.68472	01 02 02.92	+07 05 14.0	17.5	372
1992 TA1		1992 10 01.69896	01 02 02.29	+07 05 06.9		372
1992 TA1		1992 10 02.62743	01 01 20.14	+06 57 31.5	17	372
1992 TA1		1992 10 02.63958	01 01 19.62	+06 57 25.7		372
1992 TB1	*	1992 10 01.73924	02 07 17.32	+11 05 23.8	17	372
1992 TB1		1992 10 01.75139	02 07 17.02	+11 05 14.0		372
1992 TB1		1992 10 02.67847	02 06 52.44	+10 57 24.4	17.5	372
1992 TB1		1992 10 02.69167	02 06 52.07	+10 57 16.9		372
1992 TC1	*	1992 10 01.76563	04 30 06.65	+11 15 13.3	19	372
1992 TC1		1992 10 01.77813	04 30 06.93	+11 15 17.6		372
1992 TC1		1992 10 02.70869	04 30 17.27	+11 18 04.5	19	372
1992 TC1		1992 10 02.72257	04 30 17.38	+11 18 06.9		372
1992 TD1	*	1992 10 02.67847	02 11 01.25	+10 43 54.0	17	372
1992 TD1		1992 10 02.69167	02 11 00.70	+10 43 44.1		372
1992 TD1		1992 10 05.76076	02 09 14.17	+10 05 21.1	16	372
1992 TD1		1992 10 05.77049	02 09 13.84	+10 05 15.1		372
1992 TD1		1992 10 06.68333	02 08 40.19	+09 53 37.0	16.5	372
1992 TD1		1992 10 06.69236	02 08 39.87	+09 53 31.1		372
1992 TE1	*	1992 10 01.65764	01 20 24.28	+07 27 19.5	17	372
1992 TE1		1992 10 01.67016	01 20 23.71	+07 27 11.8		372
1992 TE1		1992 10 05.69965	01 17 03.16	+06 50 47.1	17	372
1992 TE1		1992 10 05.70938	01 17 02.65	+06 50 43.7		372
1992 TE1		1992 10 06.70382	01 16 11.82	+06 41 34.9	17	372
1992 TE1		1992 10 06.71493	01 16 11.25	+06 41 30.1		372
1992 TF1	*	1992 10 02.65764	01 18 03.37	+11 19 32.8	17	372
1992 TF1		1992 10 02.66806	01 18 02.87	+11 19 31.5		372
1992 TF1		1992 10 05.67917	01 15 30.41	+11 17 04.0	17	372
1992 TF1		1992 10 05.68958	01 15 29.88	+11 17 03.7		372
1992 TF1		1992 10 06.72604	01 14 36.15	+11 15 56.7	17	372
1992 UC	*	1992 10 20.48125	00 39 27.24	+07 20 20.5	17.5	372
1992 UC		1992 10 21.48160	00 38 48.44	+07 15 44.1	17.5	372
1992 UD	*	1992 10 20.50660	00 29 56.66	+07 19 24.5	18	372
1992 UD		1992 10 21.50590	00 29 09.09	+07 12 05.6	18	372
1992 UD		1992 10 21.51701	00 29 08.82	+07 12 03.9		372
1992 UE	*	1992 10 20.53333	01 15 07.44	+18 28 12.8	17.5	372
1992 UE		1992 10 21.53333	01 13 59.54	+18 26 41.5	17	372
1992 UF	*	1992 10 20.56007	01 16 33.14	+12 57 18.2	17.5	372
1992 UF		1992 10 21.54826	01 15 43.35	+12 50 50.1	17.5	372
1992 UF		1992 10 21.55903	01 15 42.73	+12 50 47.2		372
1992 UD3		1992 10 27.48333	02 37 19.30	+18 48 39.4	16	372

1992 UD3		1992 10	30.64549	02 34	37.92	+18 16	34.1	16		372
1992 UJ3	*	1992 10	25.68472	03 35	42.09	+16 54	33.1	18		372
1992 UJ3		1992 10	25.69583	03 35	41.73	+16 54	30.5			372
1992 UJ3		1992 10	27.69688	03 34	11.11	+16 38	56.2	18		372
1992 UJ3		1992 10	27.70800	03 34	10.40	+16 38	51.1			372
1992 UR3	*	1992 10	27.48333	02 38	26.97	+18 17	15.6	16		372
1992 UR3		1992 10	30.64549	02 35	32.45	+17 50	42.2	16		372
1992 UR4	*	1992 10	27.61701	02 51	34.80	+19 58	02.8	17		372
1992 UR4		1992 10	27.63472	02 51	33.86	+19 57	58.3	17		372
1992 UR4		1992 10	30.66771	02 48	58.07	+19 46	43.8	17		372
(476)		1992 10	05.74075	01 35	22.83	+28 04	12.1	12		372

## 374 Minami-Oda

T. Nomura, 1-1-8, Yamate, Tarumi-Ku, Kobe 655, Japan

Observer M. Sugano

Measurer T. Nomura

0.25-m f/3.4 Schmidt camera

GSC

1992 SR12	*	1992 09	27.63285	01 11	30.80	+04 51	40.8	16	V	374
1992 SR12		1992 09	27.65368	01 11	29.86	+04 51	34.7			374
1992 SR12		1992 10	02.62740	01 07	34.28	+04 31	14.3			374
1992 SR12		1992 10	02.65240	01 07	32.94	+04 31	09.0			374
1992 SR12		1992 10	02.75542	01 07	27.91	+04 30	42.8			374
1992 SS12	*	1992 09	27.63285	01 18	11.40	+06 23	21.6	15	V	374
1992 SS12		1992 09	27.65368	01 18	10.49	+06 23	10.2			374
1992 SS12		1992 09	27.66465	01 18	09.93	+06 23	05.5			374
1992 SS12		1992 10	05.67382	01 12	02.67	+05 28	59.1			374
1992 SS12		1992 10	05.69465	01 12	01.82	+05 28	49.3			374
1992 SS12		1992 10	05.70899	01 12	01.08	+05 28	43.4			374
1992 SX12		1992 09	27.63285	01 11	33.39	+04 09	06.2	15	V	374
1992 SX12		1992 09	27.65368	01 11	32.39	+04 08	55.2			374
1992 SX12		1992 10	02.62740	01 07	40.08	+03 28	19.6			374
1992 SX12		1992 10	02.65240	01 07	38.72	+03 28	05.1			374
1992 SC13		1992 10	21.64701	01 20	09.10	+09 44	43.4	17	V	374
1992 SC13		1992 10	21.67583	01 20	07.19	+09 44	37.2			374
(1354)		1992 09	27.63285	01 11	45.20	+05 08	18.0	15	V	374
(1354)		1992 09	27.65368	01 11	44.37	+05 08	13.1			374
(1354)		1992 10	02.62740	01 07	44.30	+04 52	08.0			374
(1354)		1992 10	02.65240	01 07	43.15	+04 52	03.9			374

## 376 Uenohara

N. Kawasato, 3-11-10, Hana-Koganei, Kodaira, Tokyo 187, Japan

0.30-m reflector + CCD

GSC

1989 BT		1992 10	09.54838	01 46	55.64	+17 02	11.1			376
1989 BT		1992 10	09.56753	01 46	54.61	+17 02	07.2			376
1992 UN2	*	1992 10	25.61146	03 01	45.46	+15 59	13.6	17		376
1992 UN2		1992 10	25.63090	03 01	44.35	+15 59	12.9			376
1992 UN2		1992 10	27.57813	03 00	02.75	+15 57	02.9			376
1992 UN2		1992 10	27.60799	03 00	01.22	+15 56	58.8			376
1992 UX2	*	1992 10	25.61146	02 57	37.85	+15 08	44.9	17		376
1992 UX2		1992 10	25.63090	02 57	36.70	+15 08	30.5			376
1992 UX2		1992 10	27.57813	02 55	45.74	+14 50	47.0			376
1992 UX2		1992 10	27.60799	02 55	44.04	+14 50	29.1			376
1992 UY2	*	1992 10	25.61146	03 05	25.19	+14 52	21.7	17		376
1992 UY2		1992 10	25.63090	03 05	24.24	+14 52	11.8			376
1992 UY2		1992 10	27.57813	03 03	42.43	+14 38	17.6			376
1992 UY2		1992 10	27.60799	03 03	40.90	+14 38	06.1			376
1992 UY2		1992 10	31.52419	03 00	06.39	+14 09	26.7			376



1992 UY2		1992 10	31.53542	03 00	05.76	+14 09	20.5		376
1992 UZ2	*	1992 10	25.61146	03 05	35.09	+15 03	16.2		376
1992 UZ2		1992 10	25.63090	03 05	34.23	+15 03	13.3		376
1992 UZ2		1992 10	27.57813	03 03	59.01	+14 58	14.3	17	376
1992 UZ2		1992 10	27.60799	03 03	57.46	+14 58	10.0		376
1992 UZ2		1992 10	31.50017	03 00	39.54	+14 47	54.6		376
1992 UZ2		1992 10	31.51134	03 00	39.03	+14 47	53.3		376
1992 UB4		1992 10	27.62118	02 54	14.34	+11 30	58.1	17	376
1992 UB4		1992 10	27.63924	02 54	13.13	+11 30	55.4		376

## 385 Nihondaira Observatory Oohira station

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

0.25-m f/3.4 hyperboloid astrocamera

GSC

1979 MB2		1992 10	21.63056	02 45	05.81	+04 30	40.7	16	385
1979 MB2		1992 10	21.64306	02 45	05.06	+04 30	33.1		385
1991 DM1		1992 10	02.51528	22 16	44.06	-11 54	56.9	16.5	385
1991 DM1		1992 10	02.52517	22 16	43.92	-11 55	02.5		385
1992 SJ13		1992 10	02.53125	00 04	44.98	-17 03	59.2	16	385
1992 SJ13		1992 10	02.53750	00 04	44.80	-17 04	01.9		385
1992 SJ13		1992 10	02.54358	00 04	44.52	-17 04	04.7		385
1992 UR		1992 10	25.51667	01 53	00.4	+06 45	39	16	P 385
1992 UR		1992 10	25.52917	01 52	59.4	+06 45	39		P 385
1992 UX	*	1992 10	21.61181	02 38	43.64	+07 07	41.8	16.5	385
1992 UX		1992 10	21.62431	02 38	42.74	+07 07	41.2		385
1992 UX		1992 10	25.53646	02 34	41.2	+07 04	45	16.5	F 385
1992 UX		1992 10	25.55104	02 34	40.4	+07 04	45		F 385
1992 UX		1992 10	27.61748	02 32	28.67	+07 03	34.9	16.5	385
1992 UX		1992 10	27.62326	02 32	28.31	+07 03	35.5		385
1992 UY	*	1992 10	21.61181	02 43	01.61	+07 43	11.5	16.5	385
1992 UY		1992 10	21.62431	02 43	00.96	+07 43	01.8		385
1992 UY		1992 10	25.53646	02 40	00.6	+07 06	25	16.5	F 385
1992 UY		1992 10	25.55104	02 40	00.1	+07 06	18		F 385
1992 UY		1992 10	27.61748	02 38	19.63	+06 47	20.5	16.5	385
1992 UY		1992 10	27.62326	02 38	19.53	+06 47	17.4		385
1992 UZ	*	1992 10	21.63056	02 46	05.66	+04 06	27.8	16	385
1992 UZ		1992 10	21.64306	02 46	04.64	+04 06	30.0		385
1992 UZ		1992 10	25.54410	02 41	38.80	+04 21	22.0	16	385
1992 UZ		1992 10	25.55799	02 41	37.70	+04 21	25.8		385
1992 UB2	*	1992 10	25.51667	01 55	55.6	+04 51	40	16	P 385
1992 UB2		1992 10	25.52917	01 55	55.0	+04 51	38		P 385
1992 US3	*	1992 10	27.64340	03 38	20.57	+21 47	26.4	16.5	385
1992 US3		1992 10	27.66319	03 38	19.39	+21 47	27.4		385
1992 US3		1992 10	30.65069	03 35	22.89	+21 50	35.3	16.5	385
1992 US3		1992 10	30.66944	03 35	21.83	+21 50	37.7		385
1992 UT3	*	1992 10	27.65000	03 35	10.70	+16 29	45.4	17	385
1992 UT3		1992 10	27.66944	03 35	09.61	+16 29	46.3		385

## 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

1985 RP		1992 09	28.66683	01 13	19.61	-00 05	20.2	16.5	399
1985 RP		1992 09	28.68270	01 13	19.14	-00 05	32.9		399
1989 BT		1992 10	19.49514	01 38	40.85	+16 14	00.5	15.5	399
1989 BT		1992 10	19.50976	01 38	39.98	+16 13	55.8		399

1989 CM		1992 08	26.54410	23 04	07.66	-06 40	36.6	17	399
1989 CM		1992 08	26.56181	23 04	07.09	-06 40	40.4		399
1989 CM		1992 08	26.57639	23 04	06.18	-06 40	44.9		399
1989 CM		1992 08	28.51435	23 02	41.86	-06 49	20.0	17	399
1989 CM		1992 08	28.52917	23 02	41.32	-06 49	23.7		399
1989 CM		1992 09	20.51477	22 45	32.58	-08 30	30.6	17	399
1989 CM		1992 09	20.52912	22 45	31.88	-08 30	32.5		399
1989 CM		1992 09	28.50065	22 40	32.83	-08 58	24.2	17.2	399
1989 CM		1992 09	28.53686	22 40	31.58	-08 58	30.8		399
1991 RX14		1991 09	07.62633	00 14	08.81	-00 06	09.5	17	399
1991 RX14		1991 09	07.64178	00 14	08.33	-00 06	14.2		399
1991 RR30		1991 09	07.49444	22 00	54.29	-20 39	04.8	16.7	399
1991 RR30		1991 09	07.50935	22 00	53.75	-20 39	06.0		399
1992 AP3		1992 01	14.74688	08 16	24.07	+21 04	01.0	17.5	399
1992 AP3		1992 01	14.76285	08 16	23.01	+21 04	01.8		399
1992 QG		1992 09	20.51477	22 44	49.76	-08 43	20.3	16.5	399
1992 QG		1992 09	20.52912	22 44	49.06	-08 43	26.3		399
1992 QG		1992 09	28.50065	22 40	01.01	-09 40	42.1	16.5	399
1992 QG		1992 09	28.53686	22 39	59.83	-09 40	56.8		399
1992 RW2		1992 09	28.46672	22 36	04.07	-03 47	57.3	17.3	399
1992 RW2		1992 09	28.48131	22 36	03.41	-03 47	56.9		399
1992 RX2		1992 09	20.51477	22 40	16.49	-06 22	07.5	17	399
1992 RX2		1992 09	20.52912	22 40	15.73	-06 22	12.9		399
1992 SR1		1992 10	22.48549	01 33	08.45	+22 01	42.8	16.8	399
1992 SR1		1992 10	22.50000	01 33	07.53	+22 01	38.1		399
1992 ST1		1992 10	19.46308	01 39	21.45	+22 25	43.6	16.5	399
1992 ST1		1992 10	19.47770	01 39	20.52	+22 25	39.3		399
1992 SY14	*	1992 09	28.55781	23 45	49.93	+11 52	06.8	16.3	399
1992 SY14		1992 09	28.57274	23 45	49.18	+11 51	58.3		399
1992 SY14		1992 10	19.41528	23 32	24.28	+08 28	49.6	17	399
1992 SY14		1992 10	19.44444	23 32	23.38	+08 28	32.3		399
1992 SY14		1992 10	22.44236	23 31	24.35	+08 01	04.2	17	399
1992 SY14		1992 10	22.46597	23 31	23.81	+08 00	52.8		399
1992 SZ14	*	1992 09	28.55781	23 48	01.03	+11 33	25.6	15.5	399
1992 SZ14		1992 09	28.57274	23 48	00.32	+11 33	18.6		399
1992 SZ14		1992 10	19.41528	23 35	58.58	+08 41	46.1	16.5	399
1992 SZ14		1992 10	19.44444	23 35	57.84	+08 41	33.1		399
1992 SZ14		1992 10	22.44236	23 34	52.41	+08 18	23.5	16.5	399
1992 SZ14		1992 10	22.46597	23 34	51.90	+08 18	11.4		399
1992 TB1		1992 10	19.52847	01 56	22.35	+08 18	57.0	16.5	399
1992 TB1		1992 10	19.54306	01 56	21.64	+08 18	49.1		399
1992 UH	*	1992 10	19.49514	01 28	44.39	+13 03	00.6	16.5	399
1992 UH		1992 10	19.50976	01 28	43.57	+13 02	58.0		399
1992 UH		1992 10	22.51997	01 26	13.87	+12 50	28.4	16.7	399
1992 UH		1992 10	22.53472	01 26	13.14	+12 50	23.2		399
1992 UJ	*	1992 10	19.49514	01 30	35.34	+14 14	42.3	17	399
1992 UJ		1992 10	19.50976	01 30	34.37	+14 14	40.2		399
1992 UJ		1992 10	22.51997	01 27	56.14	+14 00	08.8	17	399
1992 UJ		1992 10	22.53472	01 27	55.29	+14 00	04.9		399
1992 UK	*	1992 10	19.49514	01 32	47.24	+15 55	20.6	17	399
1992 UK		1992 10	19.50976	01 32	46.44	+15 55	17.2		399
1992 UK		1992 10	22.51997	01 30	11.41	+15 41	51.4	16.8	399
1992 UK		1992 10	22.53472	01 30	10.51	+15 41	47.9		399
1992 UL	*	1992 10	19.49514	01 37	28.36	+15 40	58.6	16.5	399
1992 UL		1992 10	19.50976	01 37	27.35	+15 40	58.1		399
1992 UL		1992 10	22.51997	01 34	11.39	+15 24	38.2	16.5	399
1992 UL		1992 10	22.53472	01 34	10.37	+15 24	32.6		399
1992 UM	*	1992 10	19.49514	01 39	06.23	+12 58	30.4	16.7	399
1992 UM		1992 10	19.50976	01 39	05.01	+12 58	30.8		399

1992 UM		1992 10	22.51997	01 36	03.27	+12	55	17.1	16.7	399
1992 UM		1992 10	22.53472	01 36	02.31	+12	55	15.4		399
1992 UN	*	1992 10	19.52847	01 46	13.49	+09	31	52.4	16.8	399
1992 UN		1992 10	19.54306	01 46	12.55	+09	31	47.7		399
1992 UN		1992 10	22.58854	01 43	51.62	+09	17	20.0	16.8	399
1992 UN		1992 10	22.60313	01 43	50.78	+09	17	16.3		399
1992 UO	*	1992 10	19.52847	01 49	25.17	+09	23	47.2	17	399
1992 UO		1992 10	19.54306	01 49	24.37	+09	23	44.5		399
1992 UO		1992 10	22.58854	01 46	53.19	+09	12	07.5	17	399
1992 UO		1992 10	22.60313	01 46	52.27	+09	12	03.9		399
1992 UP	*	1992 10	19.52847	01 50	10.25	+08	52	04.8	16.7	399
1992 UP		1992 10	19.54306	01 50	09.50	+08	52	01.5		399
1992 UP		1992 10	22.58854	01 47	52.25	+08	40	29.5	17	399
1992 UP		1992 10	22.60313	01 47	51.46	+08	40	26.1		399
1992 UQ	*	1992 10	19.52847	01 54	58.63	+07	19	27.7	16.5	399
1992 UQ		1992 10	19.54306	01 54	57.91	+07	19	23.9		399
1992 UQ		1992 10	22.58854	01 52	13.69	+06	59	26.2	16.8	399
1992 UQ		1992 10	22.60313	01 52	12.81	+06	59	23.9		399
1992 US		1992 10	22.62164	02 19	20.43	+11	00	53.6	15.5	399
1992 US		1992 10	22.63611	02 19	19.44	+11	00	57.6		399
1992 UT		1992 10	22.62164	02 22	39.90	+10	51	23.5	16.7	399
1992 UT		1992 10	22.63611	02 22	39.00	+10	51	15.5		399
1992 UA1	*	1992 10	19.46308	01 41	18.33	+19	30	35.6	16.7	399
1992 UA1		1992 10	19.47770	01 41	17.14	+19	30	40.4		399
1992 UA1		1992 10	22.48549	01 37	41.09	+19	37	57.8	16.8	399
1992 UA1		1992 10	22.50000	01 37	40.11	+19	37	58.4		399
1992 UB1	*	1992 10	19.46308	01 42	33.21	+18	20	49.0	16.5	399
1992 UB1		1992 10	19.47770	01 42	32.30	+18	20	42.1		399
1992 UB1		1992 10	22.48549	01 39	38.29	+17	55	40.2	16.5	399
1992 UB1		1992 10	22.50000	01 39	37.40	+17	55	33.3		399
1992 UC1	*	1992 10	19.49514	01 38	47.40	+16	05	51.7	17.3	399
1992 UC1		1992 10	19.50976	01 38	46.47	+16	05	54.3		399
1992 UC1		1992 10	22.51997	01 34	57.87	+16	23	03.1	17	399
1992 UC1		1992 10	22.53472	01 34	56.70	+16	23	04.0		399
1992 UJ1		1992 10	19.49514	01 39	20.28	+13	38	36.8	16.7	399
1992 UJ1		1992 10	19.50976	01 39	19.57	+13	38	26.9		399
1992 UJ1	*	1992 10	22.51997	01 37	07.14	+13	01	41.5	17	399
1992 UJ1		1992 10	22.53472	01 37	06.36	+13	01	29.8		399
1992 UK1	*	1992 10	19.46308	01 34	27.11	+21	40	08.5	16.7	399
1992 UK1		1992 10	19.47770	01 34	26.46	+21	40	02.4		399
1992 UK1		1992 10	22.48549	01 31	52.58	+21	19	14.7	17	399
1992 UK1		1992 10	22.50000	01 31	51.94	+21	19	09.0		399
1992 UL1	*	1992 10	19.49514	01 36	43.73	+16	41	38.5	17.2	399
1992 UL1		1992 10	19.50976	01 36	42.96	+16	41	37.5		399
1992 UL1		1992 10	22.51997	01 33	37.43	+16	33	59.0	17	399
1992 UL1		1992 10	22.53472	01 33	36.58	+16	33	54.4		399
1992 UM1	*	1992 10	19.52847	01 45	29.50	+07	41	29.6	17	399
1992 UM1		1992 10	19.54306	01 45	28.70	+07	41	23.9		399
1992 UM1		1992 10	22.58854	01 42	49.33	+07	21	55.8	17	399
1992 UM1		1992 10	22.60313	01 42	48.48	+07	21	49.5		399
1992 UN1	*	1992 10	19.52847	01 48	00.48	+08	17	57.4	17	399
1992 UN1		1992 10	19.54306	01 47	59.56	+08	17	48.8		399
1992 UN1		1992 10	22.58854	01 45	24.76	+07	49	05.6	16.8	399
1992 UN1		1992 10	22.60313	01 45	24.00	+07	48	57.3		399
1992 UO1	*	1992 10	19.52847	01 49	10.18	+08	10	12.7	17	399
1992 UO1		1992 10	19.54306	01 49	09.35	+08	10	09.1		399
1992 UO1		1992 10	22.58854	01 46	44.85	+07	56	40.9	17.2	399
1992 UO1		1992 10	22.60313	01 46	43.96	+07	56	35.3		399
1992 UP1	*	1992 10	19.52847	01 49	10.37	+09	04	18.6	17	399

1992 UP1	1992 10	19.54306	01 49	09.49	+09 04	16.9		399
1992 UP1	1992 10	22.58854	01 46	19.95	+09 02	19.1	17	399
1992 UP1	1992 10	22.60313	01 46	19.16	+09 02	18.5		399
1992 UQ1	* 1992 10	19.52847	01 51	43.19	+10 47	16.4	17.2	399
1992 UQ1	1992 10	19.54306	01 51	42.39	+10 47	21.0		399
1992 UQ1	1992 10	22.58854	01 48	22.72	+10 44	43.4	17	399
1992 UQ1	1992 10	22.60313	01 48	21.70	+10 44	42.5		399
1992 UT1	1992 10	22.62164	02 22	25.45	+08 03	42.6	17	399
1992 UT1	1992 10	22.63611	02 22	24.66	+08 03	39.8		399
1992 UW1	1992 10	28.51493	02 11	36.78	+07 38	31.8	16.8	399
1992 UW1	1992 10	28.52957	02 11	36.00	+07 38	26.3		399
1992 UY1	1992 10	22.62164	02 21	48.89	+07 33	25.3	16.8	399
1992 UY1	1992 10	22.63611	02 21	48.01	+07 33	18.4		399
1992 UM2	1992 10	22.62164	02 24	24.39	+08 10	43.1	16.5	399
1992 UM2	1992 10	22.63611	02 24	23.63	+08 10	41.2		399
1992 UM2	1992 10	28.51493	02 18	28.12	+07 59	47.8	16.2	399
1992 UM2	1992 10	28.52957	02 18	27.19	+07 59	46.2		399
1992 US2	* 1992 10	19.49514	01 33	20.65	+15 08	02.2	17	399
1992 US2	1992 10	19.50976	01 33	19.84	+15 07	56.8		399
1992 US2	1992 10	22.51997	01 29	58.57	+14 49	40.3	17	399
1992 US2	1992 10	22.53472	01 29	57.67	+14 49	37.3		399
1992 UB3	1992 10	28.62014	03 21	58.86	+19 18	21.7	16.2	399
1992 UB3	1992 10	28.63507	03 21	57.69	+19 18	24.5		399
1992 UE3	* 1992 10	22.62164	02 17	30.51	+09 29	22.1	17	399
1992 UE3	1992 10	22.63611	02 17	29.62	+09 29	19.3		399
1992 UF3	* 1992 10	22.62164	02 27	09.04	+09 31	13.0	16.8	399
1992 UF3	1992 10	22.63611	02 27	08.36	+09 31	06.1		399
1992 UF3	1992 10	28.51493	02 21	38.63	+08 36	54.1	17	399
1992 UF3	1992 10	28.52957	02 21	37.78	+08 36	45.2		399
1992 UG3	1992 10	22.62164	02 21	08.19	+10 17	23.1	16.8	399
1992 UG3	1992 10	22.63611	02 21	07.33	+10 17	18.1		399
1992 UH3	* 1992 10	22.51997	01 40	34.91	+14 00	24.0	16.5	399
1992 UH3	1992 10	22.53472	01 40	34.01	+14 00	27.4		399
1992 UH3	1992 10	28.44954	01 33	59.51	+13 50	41.2	16.2	399
1992 UH3	1992 10	28.46400	01 33	58.58	+13 50	40.7		399
1992 UN3	1992 10	28.58576	02 58	33.92	+21 21	20.9	16.5	399
1992 UN3	1992 10	28.60013	02 58	33.07	+21 21	11.0		399
1992 UO3	1992 10	28.58576	02 59	36.48	+22 04	09.0	16.7	399
1992 UO3	1992 10	28.60013	02 59	35.47	+22 04	12.0		399
1992 UP3	1992 10	28.58576	03 00	53.49	+18 48	18.0	17	399
1992 UP3	1992 10	28.60013	03 00	52.48	+18 48	15.9		399
1992 UY3	1992 10	28.58576	03 02	10.58	+19 33	25.3	16.8	399
1992 UY3	1992 10	28.60013	03 02	09.62	+19 33	24.7		399
1992 UZ3	1992 10	28.58576	03 05	06.25	+19 34	12.0	16.7	399
1992 UZ3	1992 10	28.60013	03 05	05.52	+19 34	09.8		399

400 Kitami

K. Watanabe, 3-8 Mason Hashimoto B-203, atsubetsu cyuo 3 jo 4 chome,  
Atsubetsu-ku, Sapporo 004, Japan

Observer K. Endate, M. Yanai

Measurer K. Watanabe

0.25-m f/2.6 Schmidt, 0.25-m f/3.4 hyperboloid astrocamera

GSC

1974 QX1	1992 09	28.47986	01 07	23.04	+04 13	58.5	16.0	400
1974 QX1	1992 09	28.50208	01 07	21.86	+04 13	52.3		400
1974 QX1	1992 09	30.55000	01 05	43.27	+04 05	11.7	15.5	400
1974 QX1	1992 09	30.56806	01 05	42.45	+04 05	06.8		400
1979 QK6	1992 09	23.58472	01 29	33.11	+00 49	57.1	16.0	400
1979 QK6	1992 09	23.60278	01 29	32.17	+00 49	49.2		400

1979 QK6	1992 10	01.56042	01 22	53.98	-00 06	40.2	16.0	400
1979 QK6	1992 10	01.57847	01 22	53.06	-00 06	46.4		400
1981 VK	1992 10	19.59028	02 35	37.59	+15 29	29.9	17	400
1981 VK	1992 10	19.60417	02 35	36.85	+15 29	28.0		400
1981 VK	1992 10	26.52361	02 30	02.81	+15 05	11.5	17	400
1981 VK	1992 10	26.53750	02 30	01.86	+15 05	07.4		400
1985 UJ3	1992 09	28.47986	00 56	28.76	+03 03	45.8	16.5	400
1985 UJ3	1992 09	28.50208	00 56	27.66	+03 03	39.7		400
1985 UJ3	1992 09	30.55000	00 54	42.15	+02 52	17.9	16.0	400
1985 UJ3	1992 09	30.56806	00 54	41.14	+02 52	11.6		400
1986 RD5	1992 10	26.58681	02 52	33.69	+21 10	05.7	17	400
1986 RD5	1992 10	26.60139	02 52	32.67	+21 10	01.9		400
1986 RD5	1992 10	28.49514	02 50	56.19	+21 05	16.5	17	400
1986 RD5	1992 10	28.50903	02 50	55.50	+21 05	16.0		400
1987 WS	1992 09	30.55000	00 51	01.49	+02 19	08.6	16.5	400
1987 WS	1992 09	30.56806	00 51	00.66	+02 19	06.1		400
1987 WS	1992 10	19.48299	00 34	46.98	+01 57	44.4	16.0	400
1987 WS	1992 10	19.49687	00 34	46.49	+01 57	41.1		400
1988 VV3	1992 09	28.60139	01 20	40.46	+06 57	45.3	17	400
1988 VV3	1992 09	28.62153	01 20	39.58	+06 57	38.8		400
1988 VV3	1992 10	02.61181	01 17	21.89	+06 41	26.8	17	400
1988 VV3	1992 10	02.62986	01 17	20.80	+06 41	23.2		400
1992 OF	1992 09	23.62500	00 50	25.18	-03 30	29.9	16.0	400
1992 OF	1992 09	23.64375	00 50	24.47	-03 30	33.2		400
1992 OF	1992 09	28.52361	00 47	08.87	-03 39	18.5	16.5	400
1992 OF	1992 09	28.54236	00 47	08.06	-03 39	19.8		400
1992 SE	1992 09	30.51389	00 21	38.89	+01 29	49.6	16.5	400
1992 SE	1992 09	30.53056	00 21	38.24	+01 29	35.0		400
1992 SE	1992 10	02.50243	00 20	30.41	+00 58	02.1	16.5	400
1992 SE	1992 10	02.51632	00 20	29.45	+00 57	51.0		400
1992 SF	1992 09	30.51389	00 21	50.65	+03 17	23.9	16.0	400
1992 SF	1992 09	30.53056	00 21	49.54	+03 17	20.9		400
1992 SF	1992 10	01.47917	00 20	51.68	+03 17	00.8	16.5	400
1992 SF	1992 10	01.49375	00 20	50.93	+03 16	59.8		400
1992 SF	1992 10	02.50243	00 19	49.50	+03 16	36.2	16.0	400
1992 SF	1992 10	02.51632	00 19	48.56	+03 16	37.2		400
1992 SF	1992 10	18.41597	00 05	41.17	+03 16	08.6	16.5	400
1992 SF	1992 10	18.43472	00 05	40.45	+03 16	10.0		400
1992 SG	1992 09	30.51389	00 26	18.19	+07 11	40.9	16.0	400
1992 SG	1992 09	30.53056	00 26	16.99	+07 11	43.6		400
1992 SH	1992 09	30.51389	00 24	37.15	+03 16	34.4	16.5	400
1992 SH	1992 09	30.53056	00 24	36.44	+03 16	22.2		400
1992 SH	1992 10	01.47917	00 23	54.47	+03 06	07.1	17	400
1992 SH	1992 10	01.49375	00 23	53.82	+03 05	53.9		400
1992 SJ	1992 09	30.51389	00 24	31.24	+04 03	46.8	16.0	400
1992 SJ	1992 09	30.53056	00 24	30.23	+04 03	48.9		400
1992 SJ	1992 10	01.47917	00 23	33.79	+04 03	59.4	16.0	400
1992 SJ	1992 10	01.49375	00 23	32.88	+04 03	59.0		400
1992 SJ	1992 10	02.50243	00 22	33.27	+04 04	09.6	16.0	400
1992 SJ	1992 10	02.51632	00 22	32.31	+04 04	10.8		400
1992 SJ	1992 10	18.41597	00 08	55.95	+04 09	32.6	16.5	400
1992 SJ	1992 10	18.43472	00 08	55.17	+04 09	33.5		400
1992 SL	1992 10	02.52153	01 37	24.24	+25 13	01.6	16	400
1992 SL	1992 10	02.52847	01 37	23.68	+25 13	25.4		400
1992 SL	1992 10	02.53056	01 37	23.57	+25 13	38.5		400
1992 SL	1992 10	02.53750	01 37	23.10	+25 14	03.5		400
1992 SL	1992 10	02.53819	01 37	23.18	+25 14	03.7		400
1992 SL	1992 10	02.54515	01 37	22.71	+25 14	33.1		400
1992 SA1	1992 10	01.51424	00 47	51.19	+11 16	18.8	16.0	400

1992 SA1		1992 10 01.52986	00 47 50.51	+11 16 18.9		400
1992 SA1		1992 10 02.53403	00 46 55.61	+11 15 54.7	16.0	400
1992 SA1		1992 10 02.54792	00 46 54.80	+11 15 54.1		400
1992 SB1		1992 10 01.51424	00 48 17.02	+10 52 20.1	16.0	400
1992 SB1		1992 10 01.52986	00 48 16.22	+10 52 19.9		400
1992 SB1		1992 10 02.53403	00 47 16.43	+10 53 33.9	16.0	400
1992 SB1		1992 10 02.54792	00 47 15.64	+10 53 35.0		400
1992 SB1		1992 10 19.51424	00 30 59.97	+11 04 29.0	16.0	400
1992 SB1		1992 10 19.52812	00 30 59.34	+11 04 29.1		400
1992 SC1		1992 10 01.56042	01 23 02.84	+00 35 27.1	16.5	400
1992 SC1		1992 10 01.57847	01 23 02.05	+00 35 18.8		400
1992 SC1		1992 10 19.55729	01 09 22.73	-01 28 12.3	16.5	400
1992 SC1		1992 10 19.57292	01 09 21.90	-01 28 14.9		400
1992 SD1		1992 10 19.55729	01 10 32.36	-01 05 31.4	16.5	400
1992 SD1		1992 10 19.57292	01 10 31.37	-01 05 30.0		400
1992 SE1		1992 10 19.55729	01 12 50.66	-02 56 37.7	16.5	400
1992 SE1		1992 10 19.57292	01 12 49.69	-02 56 36.9		400
1992 SF1		1992 10 01.52500	00 39 04.15	-03 08 43.9	16.0	400
1992 SF1		1992 10 01.54097	00 39 03.24	-03 08 47.0		400
1992 SG1		1992 10 01.52500	00 45 52.26	-08 13 06.8	17	400
1992 SG1		1992 10 01.54097	00 45 51.62	-08 13 19.0		400
1992 SH1		1992 10 01.52500	00 47 47.22	-07 28 03.8	16.5	400
1992 SH1		1992 10 01.54097	00 47 46.56	-07 27 58.8		400
1992 SJ1		1992 10 01.52500	00 51 29.46	-06 51 29.0	17	400
1992 SJ1		1992 10 01.54097	00 51 28.72	-06 51 33.8		400
1992 SL12	*	1992 09 21.59687	00 50 30.04	+05 57 56.7	16.5	400
1992 SL12		1992 09 21.60972	00 50 29.19	+05 57 55.3		400
1992 SL12		1992 10 01.54861	00 39 56.82	+05 38 31.3	16.5	400
1992 SL12		1992 10 01.56319	00 39 55.98	+05 38 30.1		400
1992 SL12		1992 10 02.56424	00 38 50.90	+05 36 16.5	16.0	400
1992 SL12		1992 10 02.58403	00 38 49.44	+05 36 12.8		400
1992 SM12	*	1992 09 23.58472	01 32 45.99	+01 42 12.9	16.5	400
1992 SM12		1992 09 23.60278	01 32 45.26	+01 42 03.2		400
1992 SM12		1992 10 01.56042	01 26 34.38	+00 36 28.4	16.5	400
1992 SM12		1992 10 01.57847	01 26 33.51	+00 36 21.0		400
1992 SM12		1992 10 19.55729	01 10 49.00	-01 37 21.9	17	400
1992 SM12		1992 10 19.57292	01 10 48.31	-01 37 27.8		400
1992 SR12		1992 09 28.47986	01 10 51.79	+04 48 16.3	16.0	400
1992 SR12		1992 09 28.50208	01 10 50.89	+04 48 07.1		400
1992 SR12		1992 09 30.55000	01 09 14.36	+04 39 49.5	16.0	400
1992 SR12		1992 09 30.56806	01 09 13.54	+04 39 44.9		400
1992 SV12	*	1992 09 28.47986	00 59 04.65	+07 36 12.3	17	400
1992 SV12		1992 09 28.50208	00 59 03.06	+07 36 09.7		400
1992 SV12		1992 09 30.55000	00 56 44.54	+07 32 26.6	17	400
1992 SV12		1992 09 30.56806	00 56 43.24	+07 32 22.9		400
1992 SW12	*	1992 09 28.47986	01 00 25.02	+03 25 40.9	16.5	400
1992 SW12		1992 09 28.50208	01 00 24.01	+03 25 40.4		400
1992 SW12		1992 09 30.55000	00 58 21.10	+03 22 57.8	16.0	400
1992 SW12		1992 09 30.56806	00 58 20.11	+03 22 56.3		400
1992 SX12	*	1992 09 28.47986	01 10 55.78	+04 02 11.2	15.5	400
1992 SX12		1992 09 28.50208	01 10 54.65	+04 02 02.8		400
1992 SX12		1992 09 30.55000	01 09 19.70	+03 45 21.0	15.5	400
1992 SX12		1992 09 30.56806	01 09 18.84	+03 45 13.5		400
1992 SY12	*	1992 09 28.56389	01 04 50.38	+09 28 43.1	15.5	400
1992 SY12		1992 09 28.57847	01 04 49.39	+09 28 47.4		400
1992 SY12		1992 10 01.58056	01 01 36.73	+09 41 01.2	16.0	400
1992 SY12		1992 10 01.59444	01 01 35.74	+09 41 03.1		400
1992 SY12		1992 10 02.59931	01 00 29.52	+09 44 57.9	16.0	400
1992 SY12		1992 10 02.61389	01 00 28.54	+09 45 02.5		400

1992 SZ12	*	1992 09	28.60139	01 35	35.49	+07	26	36.8	17	400
1992 SZ12		1992 09	28.62153	01 35	34.57	+07	26	34.9		400
1992 SZ12		1992 09	30.58611	01 34	07.03	+07	20	17.8	17	400
1992 SZ12		1992 09	30.60417	01 34	06.18	+07	20	12.5		400
1992 SA13	*	1992 09	30.58611	01 28	44.52	+06	41	36.3	16.5	400
1992 SA13		1992 09	30.60417	01 28	43.34	+06	41	37.5		400
1992 SA13		1992 10	02.61181	01 26	58.60	+06	47	38.2	17	400
1992 SA13		1992 10	02.62986	01 26	57.74	+06	47	43.4		400
1992 SA13		1992 10	19.52292	01 10	53.00	+07	34	28.2	17	400
1992 SA13		1992 10	19.53889	01 10	51.96	+07	34	32.9		400
1992 SB13	*	1992 09	30.58611	01 36	22.07	+06	48	35.8	16.5	400
1992 SB13		1992 09	30.60417	01 36	21.00	+06	48	34.1		400
1992 SB13		1992 10	02.61181	01 34	33.13	+06	40	16.4	17	400
1992 SB13		1992 10	02.62986	01 34	31.68	+06	40	11.3		400
1992 SB13		1992 10	19.52292	01 17	41.19	+05	25	56.2	17	400
1992 SB13		1992 10	19.53889	01 17	40.29	+05	25	50.7		400
1992 SC13	*	1992 09	30.58611	01 40	17.34	+09	55	25.2	16.5	400
1992 SC13		1992 09	30.60417	01 40	16.38	+09	55	27.4		400
1992 SC13		1992 10	02.61181	01 38	30.70	+09	55	39.0	16.5	400
1992 SC13		1992 10	02.62986	01 38	29.85	+09	55	38.7		400
1992 SC13		1992 10	19.52292	01 22	10.63	+09	46	24.5	16.5	400
1992 SC13		1992 10	19.53889	01 22	09.56	+09	46	23.5		400
1992 SD13	*	1992 09	28.53542	00 52	45.91	+10	11	52.9	17	400
1992 SD13		1992 09	28.54931	00 52	45.20	+10	11	45.4		400
1992 SD13		1992 10	01.51424	00 50	45.82	+09	46	35.6	16.5	400
1992 SD13		1992 10	01.52986	00 50	45.24	+09	46	30.2		400
1992 SE13		1992 09	21.52488	00 33	48.97	+04	14	49.6	17	400
1992 SE13		1992 09	21.53646	00 33	48.22	+04	14	47.1		400
1992 SE13	*	1992 09	30.51389	00 25	24.12	+03	35	20.6	17	400
1992 SE13		1992 09	30.53056	00 25	23.11	+03	35	16.4		400
1992 SE13		1992 10	01.47917	00 24	28.00	+03	30	51.8	17	400
1992 SE13		1992 10	01.49375	00 24	27.18	+03	30	47.8		400
1992 SE13		1992 10	02.50243	00 23	28.66	+03	26	08.3	17	400
1992 SE13		1992 10	02.51632	00 23	27.81	+03	26	06.4		400
1992 SF13	*	1992 09	30.51389	00 25	31.26	+03	36	47.7	17	400
1992 SF13		1992 09	30.53056	00 25	30.32	+03	36	40.0		400
1992 SF13		1992 10	01.47917	00 24	42.55	+03	29	57.2	17	400
1992 SF13		1992 10	01.49375	00 24	42.05	+03	29	50.3		400
1992 SF13		1992 10	02.50243	00 23	51.32	+03	22	43.9	17	400
1992 SF13		1992 10	02.51632	00 23	50.51	+03	22	36.9		400
1992 SG13		1992 10	26.58681	02 51	29.44	+21	08	43.3	16.0	400
1992 SG13		1992 10	26.60139	02 51	28.43	+21	08	46.1		400
1992 TV	*	1992 10	01.54861	00 38	28.34	+04	35	04.4	16.5	400
1992 TV		1992 10	01.56319	00 38	27.59	+04	34	55.9		400
1992 TV		1992 10	02.56424	00 37	40.63	+04	29	11.8	16.5	400
1992 TV		1992 10	02.58403	00 37	39.73	+04	29	05.6		400
1992 TV		1992 10	19.48299	00 25	17.77	+02	56	20.5	17	400
1992 TV		1992 10	19.49687	00 25	17.05	+02	56	16.1		400
1992 TW	*	1992 10	01.54861	00 42	45.15	+04	03	09.4	16.5	400
1992 TW		1992 10	01.56319	00 42	44.63	+04	03	01.9		400
1992 TW		1992 10	02.56424	00 42	03.32	+03	53	57.4	16.5	400
1992 TW		1992 10	02.58403	00 42	02.66	+03	53	49.4		400
1992 TX		1992 09	21.51458	00 52	09.85	+05	04	33.6	17	400
1992 TX		1992 09	21.52986	00 52	09.34	+05	04	30.1		400
1992 TX	*	1992 10	01.54861	00 44	20.22	+04	22	59.2	16.0	400
1992 TX		1992 10	01.56319	00 44	19.56	+04	22	55.5		400
1992 TX		1992 10	02.56424	00 43	30.66	+04	18	34.2	16.0	400
1992 TX		1992 10	02.58403	00 43	29.43	+04	18	28.3		400
1992 TX		1992 10	19.48299	00 30	19.72	+03	08	31.7	16.0	400

1992 TX		1992 10	19.49687	00 30	19.27	+03 08	31.3		400
1992 TY		1992 09	28.56250	01 39	17.76	+01 08	28.8	16.5	400
1992 TY		1992 09	28.58264	01 39	17.02	+01 08	14.1		400
1992 TY	*	1992 10	01.56042	01 36	40.97	+00 44	49.2	16.5	400
1992 TY		1992 10	01.57847	01 36	39.97	+00 44	40.8		400
1992 TY		1992 10	19.55729	01 19	24.88	-01 20	11.1	16.5	400
1992 TY		1992 10	19.57292	01 19	24.08	-01 20	16.9		400
1992 TK1	*	1992 10	01.56042	01 40	36.74	-00 13	51.9	16.0	400
1992 TK1		1992 10	01.57847	01 40	35.79	-00 13	58.5		400
1992 TK1		1992 10	19.55729	01 24	43.69	-01 55	31.7	16.0	400
1992 TK1		1992 10	19.57292	01 24	42.82	-01 55	36.0		400
1992 UD1	*	1992 10	19.54306	02 07	25.88	+14 43	45.1	16.5	400
1992 UD1		1992 10	19.55625	02 07	25.20	+14 43	41.6		400
1992 UD1		1992 10	22.54410	02 04	51.88	+14 31	27.5	16.5	400
1992 UD1		1992 10	22.55868	02 04	51.08	+14 31	25.5		400
1992 UE1	*	1992 10	19.54306	02 09	34.11	+13 14	34.7	17	400
1992 UE1		1992 10	19.55625	02 09	33.55	+13 14	28.0		400
1992 UE1		1992 10	22.54410	02 06	29.92	+13 05	43.7	16.5	400
1992 UE1		1992 10	22.55868	02 06	28.99	+13 05	41.6		400
1992 UF1	*	1992 10	19.57014	02 23	03.06	+14 25	33.5	16.5	400
1992 UF1		1992 10	19.58333	02 23	02.26	+14 25	38.2		400
1992 UF1		1992 10	22.57396	02 19	55.58	+14 33	45.9	16.5	400
1992 UF1		1992 10	22.58854	02 19	54.57	+14 33	47.3		400
1992 UG1	*	1992 10	19.59028	02 30	30.36	+15 04	06.8	16.0	400
1992 UG1		1992 10	19.60417	02 30	29.57	+15 04	03.3		400
1992 UG1		1992 10	22.60521	02 27	43.30	+14 47	13.8	16.0	400
1992 UG1		1992 10	22.61910	02 27	42.41	+14 47	08.9		400
1992 UH1	*	1992 10	19.60382	02 31	39.61	+19 08	37.2	16.5	400
1992 UH1		1992 10	19.61493	02 31	38.94	+19 08	40.1		400
1992 UH1		1992 10	22.63576	02 28	44.63	+19 05	10.7	16.5	400
1992 UH1		1992 10	22.64965	02 28	43.77	+19 05	10.0		400
1992 UE2	*	1992 10	19.57014	02 23	24.93	+12 55	03.8	17	400
1992 UE2		1992 10	19.58333	02 23	24.15	+12 55	02.2		400
1992 UE2		1992 10	22.57396	02 20	59.05	+12 41	08.6	17	400
1992 UE2		1992 10	22.58854	02 20	58.20	+12 41	04.5		400
1992 UF2	*	1992 10	19.59028	02 22	17.21	+17 49	22.8	16.5	400
1992 UF2		1992 10	19.60417	02 22	16.35	+17 49	17.7		400
1992 UF2		1992 10	26.52361	02 16	12.87	+17 06	30.4	16.0	400
1992 UF2		1992 10	26.53750	02 16	12.05	+17 06	23.3		400
1992 UG2	*	1992 10	19.59028	02 25	25.54	+14 49	18.6	16.5	400
1992 UG2		1992 10	19.60417	02 25	24.58	+14 49	18.4		400
1992 UG2		1992 10	26.52361	02 18	13.29	+14 42	53.3	17	400
1992 UG2		1992 10	26.53750	02 18	12.22	+14 42	54.5		400
1992 UH2	*	1992 10	19.59028	02 32	46.07	+16 47	07.3	16.5	400
1992 UH2		1992 10	19.60417	02 32	45.39	+16 47	00.3		400
1992 UH2		1992 10	26.52361	02 27	01.37	+15 52	28.3	16.5	400
1992 UH2		1992 10	26.53750	02 27	00.49	+15 52	19.6		400
1992 UJ2	*	1992 10	19.59028	02 32	57.65	+17 57	00.9	17	400
1992 UJ2		1992 10	19.60417	02 32	56.85	+17 56	54.8		400
1992 UJ2		1992 10	26.52361	02 27	35.30	+17 10	15.7	17	400
1992 UJ2		1992 10	26.53750	02 27	34.70	+17 10	08.5		400
1992 UK2	*	1992 10	19.59028	02 43	37.96	+17 26	19.4	17	400
1992 UK2		1992 10	19.60417	02 43	37.00	+17 26	24.9		400
1992 UK2		1992 10	26.52361	02 35	39.23	+18 15	38.9	16.5	400
1992 UK2		1992 10	26.53750	02 35	38.30	+18 15	44.9		400
1992 UT2	*	1992 10	19.55729	01 24	29.43	-02 44	05.7	16.5	400
1992 UT2		1992 10	19.57292	01 24	28.54	-02 44	06.6		400
1992 UT2		1992 10	26.48958	01 17	54.54	-02 38	35.6	16.5	400
1992 UT2		1992 10	26.50486	01 17	53.72	-02 38	35.5		400



1992 UU2	*	1992 10	19.55729	01 25	11.92	-02	21	42.0	16.0	400
1992 UU2		1992 10	19.57292	01 25	10.89	-02	21	43.9		400
1992 UU2		1992 10	26.48958	01 18	45.10	-02	22	02.7	16.0	400
1992 UU2		1992 10	26.50486	01 18	44.26	-02	22	01.3		400
1992 UE3		1992 10	26.55486	02 14	08.97	+09	14	31.6	17	400
1992 UE3		1992 10	26.56875	02 14	08.40	+09	14	30.4		400
1992 UF3		1992 10	26.55486	02 23	29.05	+08	54	45.5	17	400
1992 UF3		1992 10	26.56875	02 23	28.24	+08	54	38.6		400
1992 UG3		1992 10	26.55486	02 17	54.94	+09	58	38.6	17	400
1992 UG3		1992 10	26.56875	02 17	54.38	+09	58	32.7		400
1992 UK3	*	1992 10	26.58681	02 47	22.39	+18	34	46.3	17	400
1992 UK3		1992 10	26.60139	02 47	21.21	+18	34	47.0		400
1992 UK3		1992 10	28.49514	02 45	23.09	+18	34	41.6	16.5	400
1992 UK3		1992 10	28.50903	02 45	22.05	+18	34	41.4		400
1992 UL3	*	1992 10	26.58681	02 47	43.90	+17	26	01.5	17	400
1992 UL3		1992 10	26.60139	02 47	42.93	+17	25	57.0		400
1992 UL3		1992 10	28.49514	02 45	55.19	+17	16	57.0	17	400
1992 UL3		1992 10	28.50903	02 45	54.31	+17	16	52.1		400
1992 UM3	*	1992 10	26.58681	02 54	08.43	+20	51	00.5	16.0	400
1992 UM3		1992 10	26.60139	02 54	07.63	+20	50	55.4		400
1992 UM3		1992 10	28.49514	02 52	39.26	+20	40	01.5	16.0	400
1992 UM3		1992 10	28.50903	02 52	38.61	+20	39	56.6		400
1992 UN3	*	1992 10	26.58681	03 00	13.34	+21	38	09.5	17	400
1992 UN3		1992 10	26.60139	03 00	12.58	+21	38	01.8		400
1992 UN3		1992 10	28.49514	02 58	38.58	+21	22	05.9	16.5	400
1992 UN3		1992 10	28.50903	02 58	37.83	+21	21	57.5		400
1992 UO3	*	1992 10	26.58681	03 01	51.78	+22	00	29.3	16.5	400
1992 UO3		1992 10	26.60139	03 01	50.75	+22	00	30.3		400
1992 UO3		1992 10	28.49514	02 59	42.89	+22	03	59.0	16.5	400
1992 UO3		1992 10	28.50903	02 59	41.83	+22	04	01.2		400
1992 UP3	*	1992 10	26.58681	03 02	42.23	+18	48	56.3	17	400
1992 UP3		1992 10	26.60139	03 02	41.39	+18	48	53.4		400
1992 UP3		1992 10	28.49514	03 00	58.87	+18	48	17.7	16.5	400
1992 UP3		1992 10	28.50903	03 00	58.03	+18	48	16.6		400
1992 UQ3	*	1992 10	26.58681	03 08	27.64	+21	18	32.6	17	400
1992 UQ3		1992 10	26.60139	03 08	27.03	+21	18	39.5		400
1992 UQ3		1992 10	28.49514	03 06	31.48	+21	25	41.7	17	400
1992 UQ3		1992 10	28.50903	03 06	30.39	+21	25	45.5		400
1992 UY3	*	1992 10	26.58681	03 04	23.55	+19	34	08.1	17	400
1992 UY3		1992 10	26.60139	03 04	22.50	+19	34	08.8		400
1992 UY3		1992 10	28.49514	03 02	17.02	+19	33	26.3	16.5	400
1992 UY3		1992 10	28.50903	03 02	15.93	+19	33	26.5		400
1992 UZ3	*	1992 10	26.58681	03 06	45.31	+19	38	18.9	17	400
1992 UZ3		1992 10	26.60139	03 06	44.60	+19	38	17.4		400
1992 UZ3		1992 10	28.49514	03 05	10.98	+19	34	23.3	17	400
1992 UZ3		1992 10	28.50903	03 05	10.28	+19	34	20.1		400
1992 UA4	*	1992 10	26.61875	02 52	58.47	+12	19	01.6	17	400
1992 UA4		1992 10	26.63333	02 52	57.63	+12	18	55.4		400
1992 UA4		1992 10	28.58681	02 51	25.82	+12	06	20.4	17	400
1992 UA4		1992 10	28.60139	02 51	25.03	+12	06	16.8		400
1992 UB4	*	1992 10	26.61875	02 55	15.79	+11	33	36.2	17	400
1992 UB4		1992 10	26.63333	02 55	14.85	+11	33	35.8		400
1992 UB4		1992 10	28.58681	02 53	14.39	+11	28	28.3	16.5	400
1992 UB4		1992 10	28.60139	02 53	13.39	+11	28	27.5		400
1992 UC4	*	1992 10	26.61875	02 57	13.46	+10	52	23.1	17	400
1992 UC4		1992 10	26.63333	02 57	12.79	+10	52	19.8		400
1992 UC4		1992 10	28.58681	02 55	42.29	+10	45	09.6	16.5	400
1992 UC4		1992 10	28.60139	02 55	41.68	+10	45	06.6		400
1992 UD4	*	1992 10	26.61875	02 58	49.11	+13	06	49.6	16.0	400

1992 UD4		1992 10	26.63333	02 58	48.46	+13 06	44.3		400
1992 UD4		1992 10	28.58681	02 57	16.87	+12 51	19.6	16.5	400
1992 UD4		1992 10	28.60139	02 57	16.13	+12 51	12.9		400
1992 UE4	*	1992 10	26.61875	03 00	33.21	+10 23	30.5	16.0	400
1992 UE4		1992 10	26.63333	03 00	32.49	+10 23	30.1		400
1992 UE4		1992 10	28.58681	02 58	57.34	+10 19	51.7	16.5	400
1992 UE4		1992 10	28.60139	02 58	56.61	+10 19	49.8		400
1992 UF4	*	1992 10	26.61875	03 02	02.15	+11 13	40.9	17	400
1992 UF4		1992 10	26.63333	03 02	01.11	+11 13	33.2		400
1992 UF4		1992 10	28.58681	03 00	08.92	+11 02	47.4	17	400
1992 UF4		1992 10	28.60139	03 00	08.15	+11 02	39.9		400
1992 UG4	*	1992 10	26.63333	02 51	19.99	+12 15	56.5	16.0	400
1992 UG4		1992 10	28.58681	02 49	36.74	+12 12	30.7	16.5	400
1992 UG4		1992 10	28.60139	02 49	36.02	+12 12	29.6		400
1992 UH4	*	1992 10	26.65000	02 46	55.57	+00 51	17.3	16.5	400
1992 UH4		1992 10	26.66458	02 46	54.65	+00 51	15.6		400
1992 UH4		1992 10	28.61736	02 44	53.21	+00 53	24.1	16.5	400
1992 UH4		1992 10	28.63125	02 44	52.36	+00 53	26.2		400
1992 UJ4	*	1992 10	26.65000	02 49	10.58	+02 24	15.2	16.5	400
1992 UJ4		1992 10	26.66458	02 49	09.52	+02 24	09.7		400
1992 UJ4		1992 10	28.61736	02 47	13.66	+02 11	26.0	17	400
1992 UJ4		1992 10	28.63125	02 47	12.94	+02 11	20.7		400
1992 UK4	*	1992 10	26.65000	02 50	00.21	+06 09	22.1	17	400
1992 UK4		1992 10	26.66458	02 49	59.24	+06 09	18.4		400
1992 UK4		1992 10	28.61736	02 48	40.50	+05 55	17.4	17	400
1992 UK4		1992 10	28.63125	02 48	39.60	+05 55	12.4		400
1992 UL4	*	1992 10	26.65000	02 51	25.98	+02 57	30.2	17	400
1992 UL4		1992 10	26.66458	02 51	24.93	+02 57	27.1		400
1992 UL4		1992 10	28.61736	02 49	34.90	+02 53	09.8	17	400
1992 UL4		1992 10	28.63125	02 49	34.01	+02 53	07.9		400
1992 UM4	*	1992 10	26.65000	02 52	44.91	+01 11	56.3	17	400
1992 UM4		1992 10	26.66458	02 52	44.01	+01 11	55.0		400
1992 UM4		1992 10	28.61736	02 50	54.28	+01 05	54.0	17	400
1992 UM4		1992 10	28.63125	02 50	53.38	+01 05	51.3		400
1992 UN4	*	1992 10	26.65000	02 52	53.25	+04 34	29.9	16.0	400
1992 UN4		1992 10	26.66458	02 52	52.39	+04 34	28.7		400
1992 UN4		1992 10	28.61736	02 51	05.22	+04 33	29.1	16.0	400
1992 UN4		1992 10	28.63125	02 51	04.41	+04 33	27.8		400
1992 UO4	*	1992 10	26.65000	02 53	50.81	+02 51	36.4	16.0	400
1992 UO4		1992 10	26.66458	02 53	50.24	+02 51	35.1		400
1992 UO4		1992 10	28.61736	02 52	12.50	+02 49	25.8	16.0	400
1992 UO4		1992 10	28.63125	02 52	11.71	+02 49	25.8		400
1992 UP4	*	1992 10	26.65000	03 00	18.28	+04 56	35.1	16.5	400
1992 UP4		1992 10	26.66458	03 00	17.41	+04 56	31.3		400
1992 UP4		1992 10	28.61736	02 58	25.17	+04 45	53.3	16.5	400
1992 UP4		1992 10	28.63125	02 58	24.37	+04 45	47.5		400
1992 UQ4	*	1992 10	26.65000	03 05	20.14	+03 11	39.9	16.0	400
1992 UQ4		1992 10	26.66458	03 05	19.26	+03 11	35.7		400
1992 UQ4		1992 10	28.61736	03 03	38.85	+03 02	05.3	16.0	400
1992 UQ4		1992 10	28.63125	03 03	38.01	+03 02	01.0		400
(314)		1992 10	26.65000	02 46	47.42	+00 45	17.3	13.5	400
(314)		1992 10	26.66458	02 46	46.80	+00 45	10.2		400
(1773)		1992 10	01.56042	01 21	57.69	+00 33	29.4	16.0	400
(1773)		1992 10	01.57847	01 21	56.59	+00 33	23.3		400
(2574)		1992 10	28.49514	02 46	22.62	+17 09	17.8	16.0	400
(2574)		1992 10	28.50903	02 46	21.93	+17 09	14.0		400
(2841)		1992 10	26.61875	03 00	03.18	+10 16	49.6	16.0	400
(2841)		1992 10	26.63333	03 00	02.20	+10 16	45.7		400
(3875)		1992 10	26.65000	03 00	17.69	+04 46	59.5	15.5	400

(3875)	1992 10 26.66458	03 00 16.75	+04 46 53.9		400
(3875)	1992 10 28.61736	02 58 15.77	+04 36 48.4	15.0	400
(3875)	1992 10 28.63125	02 58 14.81	+04 36 44.5		400

## 402 Dynic Astronomical Observatory

A. Sugie, Dynic Astronomical Observatory, Taga 270, Taga-Cho, Inukami-Gun,  
Shiga-Ken, 522-03, Japan

0.25-m f/3.4 Schmidt

PPM

1988 PK	1992 10 24.59375	02 20 42.48	+07 26 50.5		402
1988 PK	1992 10 24.60625	02 20 41.71	+07 26 48.9		402
1992 SN	1992 10 02.62720	01 27 50.24	+19 22 50.3	16.0	402
1992 SN	1992 10 02.64103	01 27 49.53	+19 22 47.3		402
1992 SO	1992 10 02.62720	01 31 11.95	+17 53 59.3	16.5	402
1992 SO	1992 10 02.64103	01 31 11.20	+17 53 53.5		402
1992 SP	1992 10 02.62720	01 31 45.77	+16 56 00.7	16.0	402
1992 SP	1992 10 02.64103	01 31 44.94	+16 55 58.5		402
1992 SQ	1992 10 02.62720	01 42 02.23	+16 54 49.4	17.5	402
1992 SQ	1992 10 02.64103	01 42 01.61	+16 54 48.0		402
1992 SK13	* 1992 09 26.59375	00 53 20.20	+15 02 14.0	16.5	402
1992 SK13	1992 09 26.60625	00 53 19.46	+15 02 12.2		402
1992 SK13	1992 09 27.56806	00 52 29.12	+15 00 17.4		402
1992 SK13	1992 09 27.58056	00 52 28.33	+15 00 14.4		402
1992 SS13	* 1992 09 26.65972	01 40 32.65	+19 02 06.9	17.5	402
1992 SS13	1992 09 26.67222	01 40 32.00	+19 02 10.6		402
1992 SS13	1992 09 27.64175	01 39 52.71	+19 07 50.7		402
1992 SS13	1992 09 27.65694	01 39 52.08	+19 07 52.6		402
1992 TG1	1992 09 26.65972	01 44 50.04	+17 12 11.0	17.0	402
1992 TG1	1992 09 26.67222	01 44 49.45	+17 12 13.1		402
1992 TG1	1992 09 27.64175	01 43 57.02	+17 12 23.8		402
1992 TG1	1992 09 27.65694	01 43 56.17	+17 12 25.1		402
1992 TG1	* 1992 10 02.62720	01 39 06.78	+17 10 19.6	17.0	402
1992 TG1	1992 10 02.64103	01 39 06.18	+17 10 19.9		402
1992 UG	* 1992 10 21.65208	03 13 49.27	+08 00 43.3	15.0	402
1992 UG	1992 10 21.66528	03 13 48.62	+08 00 43.7		402
1992 UG	1992 10 24.57083	03 11 44.19	+08 00 30.8	15.0	402
1992 UG	1992 10 24.58403	03 11 43.52	+08 00 31.3		402
1992 UG	1992 10 27.63264	03 09 19.61	+08 00 58.3	15.5	402
1992 UG	1992 10 27.64514	03 09 18.94	+08 00 58.7		402
1992 US	* 1992 10 21.60694	02 20 22.92	+10 57 24.5	16.5	402
1992 US	1992 10 21.62153	02 20 22.07	+10 57 29.1		402
1992 US	1992 10 24.59375	02 17 17.31	+11 07 46.8		402
1992 US	1992 10 24.60625	02 17 16.63	+11 07 49.7		402
1992 US	1992 10 28.58125	02 13 03.14	+11 21 47.5	16.0	402
1992 US	1992 10 28.59653	02 13 02.10	+11 21 51.0		402
1992 UT	* 1992 10 21.60694	02 23 29.75	+10 58 07.1	16.5	402
1992 UT	1992 10 21.62153	02 23 28.92	+10 58 03.8		402
1992 UT	1992 10 24.59375	02 21 02.11	+10 38 19.5		402
1992 UT	1992 10 24.60625	02 21 01.46	+10 38 15.0		402
1992 UT1	* 1992 10 21.60694	02 23 24.28	+08 07 32.0	17.5	402
1992 UT1	1992 10 21.62153	02 23 23.36	+08 07 28.4		402
1992 UT1	1992 10 24.59375	02 20 30.83	+07 56 24.0		402
1992 UT1	1992 10 24.60625	02 20 29.92	+07 56 21.2		402
1992 UT1	1992 10 27.61181	02 17 33.86	+07 45 31.4	17.0	402
1992 UT1	1992 10 27.62431	02 17 32.92	+07 45 26.8		402
1992 UU1	* 1992 10 21.60694	02 32 37.70	+08 36 28.2	17.5	402
1992 UU1	1992 10 21.62153	02 32 36.93	+08 36 25.0		402
1992 UU1	1992 10 24.59375	02 30 13.83	+08 29 25.5		402
1992 UU1	1992 10 24.60625	02 30 13.26	+08 29 25.2		402

1992 UV1	*	1992 10	21.60694	02 32	46.88	+09 39	04.2	17.5	402
1992 UV1		1992 10	21.62153	02 32	45.86	+09 39	02.8		402
1992 UV1		1992 10	24.59375	02 29	56.36	+09 35	33.1		402
1992 UV1		1992 10	24.60625	02 29	55.65	+09 35	32.5		402
1992 UY1		1992 10	21.60694	02 22	45.16	+07 40	30.2	17.5	402
1992 UY1		1992 10	21.62153	02 22	43.92	+07 40	28.4		402
1992 UE3		1992 10	27.61181	02 13	14.60	+09 10	40.0	17.0	402
1992 UE3		1992 10	27.62431	02 13	13.86	+09 10	36.1		402
1992 UE3		1992 10	28.58125	02 12	24.59	+09 07	05.8		402
1992 UE3		1992 10	28.59653	02 12	23.77	+09 07	02.4		402
1992 UG3	*	1992 10	24.59375	02 19	31.74	+10 07	59.8		402
1992 UG3		1992 10	24.60625	02 19	31.17	+10 07	55.6		402
1992 UG3		1992 10	27.61181	02 17	02.65	+09 53	38.0	16.5	402
1992 UG3		1992 10	27.62431	02 17	01.91	+09 53	33.6		402
1992 UG3		1992 10	28.58125	02 16	14.51	+09 49	04.0		402
1992 UG3		1992 10	28.59653	02 16	13.73	+09 49	00.2		402
1992 UU3	*	1992 10	28.54375	02 14	14.52	-05 04	48.2	17.0	402
1992 UU3		1992 10	28.55278	02 14	13.77	-05 04	50.1		402
1992 UU3		1992 10	30.61944	02 12	04.95	-05 12	32.3		402
1992 UU3		1992 10	30.63194	02 12	04.33	-05 12	36.3		402
1992 UV3	*	1992 10	28.54375	02 15	30.18	-04 56	07.7	16.5	402
1992 UV3		1992 10	28.55278	02 15	29.37	-04 56	05.2		402
1992 UV3		1992 10	30.61944	02 13	09.00	-04 47	43.8		402
1992 UV3		1992 10	30.63194	02 13	08.03	-04 47	40.2		402
1992 UW3	*	1992 10	28.58125	02 01	18.88	+07 14	45.1	17.0	402
1992 UW3		1992 10	28.59653	02 01	17.82	+07 14	59.3		402
1992 UW3		1992 10	30.64097	01 58	57.89	+07 53	17.0	17.0	402
1992 UW3		1992 10	30.65208	01 58	57.15	+07 53	24.6		402
1992 UX3	*	1992 10	28.58125	02 02	39.51	+07 57	25.6	16.5	402
1992 UX3		1992 10	28.59653	02 02	38.82	+07 57	20.6		402
1992 UX3		1992 10	30.64097	02 00	59.43	+07 37	53.9	16.5	402
1992 UX3		1992 10	30.65208	02 00	58.89	+07 37	48.9		402
1992 US4	*	1992 10	27.69792	03 27	35.08	+21 20	19.6	16.0	402
1992 US4		1992 10	27.71389	03 27	34.22	+21 20	18.5		402
1992 US4		1992 10	28.60764	03 26	54.29	+21 17	48.0		402
1992 UT4	*	1992 10	27.69792	03 30	35.47	+20 26	01.2	16.0	402
1992 UT4		1992 10	27.71389	03 30	34.51	+20 26	04.5		402
1992 UT4		1992 10	28.60764	03 29	42.29	+20 28	14.2		402

403 Kani

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

Observers Y. Mizuno, T. Furuta

Measurer T. Furuta

0.20-m f/4.0 hyperboloid astrocamera

GSC

1992 UR1	*	1992 10	21.55660	02 23	24.4	+20 03	39	16.0	403
1992 UR1		1992 10	21.56771	02 23	23.8	+20 03	39		403
1992 UR1		1992 10	26.54931	02 18	23.56	+19 57	41.7		403
1992 UR1		1992 10	26.56273	02 18	22.78	+19 57	39.9		403
1992 UT1		1992 10	21.62060	02 23	23.3	+08 07	29	16.5	403
1992 UT1		1992 10	21.63368	02 23	22.8	+08 07	26		403
1992 UT1		1992 10	26.57720	02 18	34.22	+07 49	11.0		403
1992 UT1		1992 10	26.59040	02 18	33.67	+07 49	09.8		403
1992 UW1	*	1992 10	21.62060	02 18	40.3	+08 04	07	16.5	403
1992 UW1		1992 10	21.63368	02 18	39.6	+08 04	06		403
1992 UW1		1992 10	26.57720	02 13	35.8	+07 45	26		403
1992 UW1		1992 10	26.59040	02 13	35.1	+07 45	26		403
1992 UX1	*	1992 10	21.62060	02 21	26.9	+07 19	00	16.5	403
1992 UX1		1992 10	21.63368	02 21	26.4	+07 18	59		403

1992 UX1	1992 10	26.57720	02 16	29.67	+06 56	43.2			403
1992 UX1	1992 10	26.59040	02 16	28.74	+06 56	43.1			403
1992 UY1	* 1992 10	21.62060	02 22	44.1	+07 40	25	16.5		403
1992 UY1	1992 10	21.63368	02 22	43.5	+07 40	21			403
1992 UY1	1992 10	26.57720	02 18	07.43	+07 05	58.3			403
1992 UY1	1992 10	26.59040	02 18	06.71	+07 05	52.6			403
1992 UL2	* 1992 10	21.56771	02 00	31.2	+19 01	40	15.5		403
1992 UL2	1992 10	21.58947	02 00	29.9	+19 01	36			403
1992 UL2	1992 10	26.52031	01 55	41.41	+18 40	02.9			403
1992 UL2	1992 10	26.53299	01 55	40.65	+18 39	59.8			403
1992 UM2	* 1992 10	21.62060	02 25	23.6	+08 12	48	16.5		403
1992 UM2	1992 10	21.63368	02 25	23.1	+08 12	44			403
1992 UM2	1992 10	26.57720	02 20	26.1	+08 03	09			403
1992 UM2	1992 10	26.59040	02 20	25.2	+08 03	09			403
2141 T-3	1992 10	21.55660	02 28	30.5	+20 46	59	16.5		403
2141 T-3	1992 10	21.56771	02 28	29.9	+20 46	53			403

## 410 Sengamine

K. Ito, 4-13-7, Sakuragaoka Higashi Mati, Nishi-ku, Kobe 651-22, Japan  
0.20-m f/4.8 reflector + CCD

## GSC

1992 SL	1992 10	02.64023	01 37	17.46	+25 20	13.0	15.2 V		410
1992 SL	1992 10	02.65139	01 37	16.79	+25 20	49.7			410
1992 SL	1992 10	02.65802	01 37	16.26	+25 21	14.6			410
1992 SR12	1992 10	17.54155	00 55	18.65	+03 30	39.8	15.8 V		410
1992 SR12	1992 10	17.55525	00 55	18.00	+03 30	37.9			410
1992 SR12	1992 10	17.55812	00 55	17.88	+03 30	37.7			410
(1762)	1992 10	17.54155	00 55	09.70	+03 32	52.1	14.0 V		410
(1762)	1992 10	17.55525	00 55	09.06	+03 32	47.8			410
(1762)	1992 10	17.55812	00 55	08.94	+03 32	46.5			410

## 413 Siding Spring

R. H. McNaught, Siding Spring Observatory, Coonabarabran, N.S.W. 2357,  
Australia

Observers M. J. Drinkwater, M. Hartley, R. H. McNaught, K. S. Russell,  
D. I. Steel

Measurer R. H. McNaught

Uppsala Southern Schmidt, U.K. Schmidt, 1.0-m reflector + CCD

1973 NA	1992 10	06.44341	17 01	10.03	-73 16	33.7			413
1973 NA	1992 10	06.44603	17 01	10.61	-73 16	33.5			413
1973 NA	1992 10	15.39677	17 37	09.51	-73 18	52.6		F	413
1973 NA	1992 10	15.39991	17 37	10.69	-73 18	52.1			413
1988 PK	1992 10	07.76002	02 34	23.14	+09 22	45.0			413
1988 PK	1992 10	07.76200	02 34	23.07	+09 22	44.4			413
1988 VQ2	1992 10	12.46676	21 17	29.40	-41 21	33.0			413
1988 VQ2	1992 10	12.46905	21 17	29.54	-41 21	30.8			413
1989 EQ	1974 04	28.59102	15 07	09.23	-29 22	21.0	17 V		413
1989 EQ	1974 04	28.63269	15 07	07.05	-29 22	14.4			413
1989 EQ	1992 10	13.66468	23 38	04.20	+08 24	48.7			413
1989 EQ	1992 10	13.66653	23 38	04.13	+08 24	48.0			413
1989 SN5	1992 10	06.46074	19 04	34.90	-18 48	16.5			413
1989 SN5	1992 10	06.47016	19 04	35.44	-18 48	16.4			413
1989 SN5	1992 10	15.40704	19 14	29.91	-18 45	12.2			413
1991 CM5	1992 09	06.66241	00 34	55.85	-32 17	07.6			413
1991 CM5	1992 09	06.66522	00 34	55.72	-32 17	11.1			413
1991 FF	1992 10	06.43715	18 09	54.44	-36 50	56.2			413
1991 FF	1992 10	06.43991	18 09	54.62	-36 50	55.4			413
1992 GA	1992 10	14.38481	15 52	22.41	-27 43	13.4			413

1992 GA	1992 10	14.38758	15 52	22.81	-27 43	14.1			413
1992 JE	1979 06	24.36185	13 25	36.80	+00 42	25.0	17.5	V	413
1992 JE	1979 06	24.41456	13 25	39.38	+00 42	13.1			413
1992 ME	1992 10	06.42350	17 57	41.31	-23 47	01.7			413
1992 ME	1992 10	06.42616	17 57	41.66	-23 47	03.3			413
1992 ME	1992 10	15.46125	18 18	25.54	-25 13	47.7			413
1992 ME	1992 10	15.46356	18 18	25.82	-25 13	48.4			413
1992 ME	1992 10	15.46656	18 18	26.22	-25 13	50.3			413
1992 NJ	1992 10	06.49970	20 36	42.45	-44 05	08.7			413
1992 NJ	1992 10	06.50250	20 36	42.48	-44 05	07.0			413
1992 OB	1992 10	06.56220	21 05	44.48	-39 52	53.1			413
1992 OB	1992 10	06.56503	21 05	44.54	-39 52	51.4			413
1992 OC	1992 10	06.56794	21 09	56.60	-26 55	37.0			413
1992 OC	1992 10	06.57080	21 09	56.72	-26 55	34.0			413
1992 OE	1992 10	06.58521	22 14	40.81	+10 17	43.4			413
1992 OE	1992 10	06.58725	22 14	40.72	+10 17	43.8			413
1992 OF	1991 05	05.46628	12 48	54.46	-01 07	54.5	19	V	F 413
1992 OF	1991 05	05.50795	12 48	52.81	-01 07	48.1			F 413
1992 OJ	1992 10	06.46546	19 33	51.29	-20 40	04.8			413
1992 OJ	1992 10	06.46742	19 33	51.41	-20 40	03.7			413
1992 OM	1992 10	06.58035	22 18	31.62	+05 58	42.6			413
1992 OM	1992 10	06.58241	22 18	31.70	+05 58	42.8			413
1992 OM	1992 10	14.49207	22 24	47.70	+06 13	59.6			413
1992 OM	1992 10	14.49439	22 24	47.82	+06 13	59.8			413
1992 ON	1992 10	06.51097	21 41	35.67	-06 02	12.7			413
1992 ON	1992 10	06.51358	21 41	35.63	-06 02	10.4			413
1992 OO	1992 10	06.57384	22 11	02.42	-42 00	43.6			413
1992 OO	1992 10	06.57578	22 11	02.46	-42 00	43.3			413
1992 OW	1992 10	06.55660	21 04	23.68	-36 45	16.3			413
1992 OW	1992 10	06.55936	21 04	23.80	-36 45	13.9			413
1992 QA	1992 10	06.47352	19 56	53.53	-54 17	46.3			413
1992 QA	1992 10	06.47731	19 56	53.96	-54 17	42.3			413
1992 QA	1992 10	06.48034	19 56	54.27	-54 17	39.5			413
1992 QB	1992 10	06.48688	20 17	35.54	-52 35	56.4			413
1992 QB	1992 10	06.48970	20 17	35.87	-52 35	53.3			413
1992 QC	1992 10	06.58964	23 29	55.45	-32 15	30.2			413
1992 QC	1992 10	06.59194	23 29	55.29	-32 15	25.6			413
1992 QC	1992 10	06.59512	23 29	55.07	-32 15	19.2			413
1992 QN	1992 10	06.50579	21 40	56.70	-15 08	36.3			413
1992 QN	1992 10	06.50824	21 40	56.69	-15 08	34.7			413
1992 QN	1992 10	12.48263	21 41	21.92	-14 06	36.2			413
1992 QN	1992 10	12.48483	21 41	21.94	-14 06	35.1			413
1992 QN	1992 10	14.47395	21 41	53.48	-13 46	05.5			413
1992 QN	1992 10	14.47649	21 41	53.52	-13 46	03.8			413
1992 SK	1992 10	05.62760	01 00	49.88	+11 48	28.7			b 413
1992 SK	1992 10	05.63802	01 00	47.98	+11 48	31.5			b 413
1992 SK	1992 10	06.54159	00 57	53.54	+11 55	01.5			413
1992 SK	1992 10	06.54340	00 57	53.18	+11 55	02.3			413
1992 SK	1992 10	10.58573	00 45	22.47	+12 19	54.5			F 413
1992 SK	1992 10	10.58742	00 45	22.12	+12 19	54.9			F 413
1992 SK	1992 10	13.68799	00 36	30.38	+12 34	48.4			413
1992 SK	1992 10	13.68977	00 36	30.06	+12 34	48.9			413
1992 SZ	1992 10	14.48700	23 20	25.44	+00 59	04.4			413
1992 SZ	1992 10	14.48954	23 20	25.52	+00 59	08.2			413
1992 TA	1992 10	14.47912	22 34	55.62	+05 36	02.9			413
1992 TA	1992 10	14.48144	22 34	55.37	+05 36	05.7			413
1992 TC	* 1992 10	01.66584	01 36	03.44	-49 02	28.3			413
1992 TC	1992 10	04.46701	01 40	40.20	-47 31	30.8	16	V	413
1992 TC	1992 10	04.48155	01 40	41.34	-47 31	03.3			413

1992 TC	1992 10	04.48538	01 40	41.62	-47 30	53.7			413
1992 TC	1992 10	05.39693	01 42	03.55	-46 58	59.9			413
1992 TC	1992 10	05.52870	01 42	12.94	-46 54	41.6			413
1992 TC	1992 10	05.78333	01 42	28.71	-46 45	26.9			413
1992 TC	1992 10	06.54638	01 43	37.86	-46 18	03.1			413
1992 TC	1992 10	06.54826	01 43	37.97	-46 17	59.1			413
1992 TC	1992 10	07.76468	01 45	09.51	-45 32	21.8			413
1992 TC	1992 10	07.76736	01 45	09.69	-45 32	15.2			413
1992 TC	1992 10	09.77797	01 47	36.86	-44 13	22.8			413
1992 TC	1992 10	09.77991	01 47	36.97	-44 13	18.0			413
1992 TC	1992 10	09.78254	01 47	37.09	-44 13	11.2			413
1992 TC	1992 10	12.51887	01 50	39.90	-42 19	00.4			413
1992 TC	1992 10	12.52068	01 50	39.98	-42 18	55.9			413
1992 TC	1992 10	13.74160	01 51	46.04	-41 25	15.8			413
1992 TC	1992 10	14.49793	01 52	32.99	-40 51	25.5			413
1992 TC	1992 10	14.50020	01 52	33.07	-40 51	19.6			413
1992 TC	1992 10	15.51940	01 53	26.15	-40 04	47.2			413
1992 TC	1992 10	15.52146	01 53	26.22	-40 04	41.5			413
1992 UB	* 1992 10	21.62744	02 30	57.77	-30 55	45.4	16	V	413
1992 UB	1992 10	21.65522	02 30	56.70	-30 54	40.6			413
1992 UB	1992 10	22.55515	02 30	29.62	-30 16	33.7			413
(1459)	1992 10	06.44950	18 16	57.48	-39 41	55.9			413
(1459)	1992 10	06.45139	18 16	57.62	-39 41	55.4			413
(1566)	1992 10	12.41770	18 11	46.74	-46 02	11.9		I	413
(1566)	1992 10	12.42021	18 11	46.81	-46 02	09.7		I	413
(2062)	1992 10	06.43086	15 06	30.63	-81 56	33.7			413
(2062)	1992 10	06.43353	15 06	33.15	-81 56	41.1			413
(4953)	1992 10	06.45471	18 54	38.84	-43 49	44.2			413
(4953)	1992 10	06.45737	18 54	39.06	-43 49	43.2			413

## 474 Mount John

A. C. Gilmore, P.O. Box 57, Lake Tekapo, New Zealand

Observer A. C. Gilmore

Measurer P. M. Kilmartin

0.6-m f/14 Cassegrain reflector

AGK3, SAOC, CPZ, field plates from Carter Observatory

1992 TC	1992 10	04.56782	01 40	45.52	-47 28	05.3	16.5		474
1992 TC	1992 10	04.57263	01 40	45.86	-47 27	55.1			474

## 511 Haute Provence

E. W. Elst, Royal Observatory, B-1180 Brussels, Belgium

Observers E. W. Elst, G. Traversa

Measurer E. W. Elst

0.6-m Schmidt

1942 EM	1991 01	20.94236	08 07	56.34	+20 05	42.0	17.5		511
1942 EM	1991 01	20.96319	08 07	55.08	+20 05	49.2			511
1981 ET13	1991 01	20.94236	08 07	48.25	+19 10	58.0	19.0		511
1981 ET13	1991 01	20.96319	08 07	46.76	+19 10	59.0			511
1984 UB3	1991 01	18.12361	07 55	20.76	+19 57	20.6			511
1984 UB3	1991 01	19.01042	07 54	32.42	+19 59	25.2			511
1984 UB3	1991 01	19.03125	07 54	31.33	+19 59	27.0			511
1984 UB3	1991 01	20.94236	07 52	47.67	+20 03	49.3			511
1984 UB3	1991 01	20.96319	07 52	46.60	+20 03	53.6			511
1986 TK1	1991 01	19.01042	07 53	00.47	+18 18	17.9			511
1986 TK1	1991 01	19.03125	07 52	58.83	+18 18	21.1			511
1986 XF1	1991 01	20.94236	08 08	21.68	+19 11	27.6	18.0		511
1986 XF1	1991 01	20.96319	08 08	20.45	+19 11	30.4			511
1987 DH6	1991 01	18.12361	07 56	31.63	+19 33	15.8			511
1987 DH6	1991 01	19.01042	07 55	39.56	+19 35	23.4			511

1987 DH6	1991 01	19.03125	07 55	38.28	+19 35	25.3		511
1987 DH6	1991 01	20.94236	07 53	45.97	+19 39	52.9		511
1987 DH6	1991 01	20.96319	07 53	44.86	+19 39	55.9		511
1987 DN6	1991 01	18.12361	07 52	35.20	+20 13	50.1	18.0	511
1988 CA1	1991 01	18.12361	07 54	32.12	+18 30	38.1		511
1988 CA1	1991 01	19.01042	07 53	32.33	+18 36	03.1		511
1988 CA1	1991 01	19.03125	07 53	31.06	+18 36	07.4		511
1989 TT2	1991 01	19.01042	08 07	51.36	+19 12	18.7		511
1989 TT2	1991 01	19.03125	08 07	50.04	+19 12	23.2		511
1989 TT2	1991 01	20.94236	08 06	13.93	+19 20	05.6		511
1989 TT2	1991 01	20.96319	08 06	12.70	+19 20	11.7		511
1991 BD	1991 01	18.12361	07 59	33.88	+17 53	32.9		511
1991 BD	1991 01	19.01042	07 58	33.41	+17 53	50.3		511
1991 BD	1991 01	19.03125	07 58	32.03	+17 53	50.4		511
1991 BD	1991 01	20.94236	07 56	22.82	+17 54	19.4		511
1991 BD	1991 01	20.96319	07 56	21.35	+17 54	19.2		511
1991 BZ	1991 01	19.01042	08 00	53.60	+18 49	43.8		511
1991 BZ	1991 01	19.03125	08 00	52.35	+18 49	44.1		511
1991 BZ	1991 01	20.94236	07 58	55.33	+18 49	41.2		511
1991 BZ	1991 01	20.96319	07 58	54.05	+18 49	40.7		511
1991 BC1	1991 01	19.01042	07 56	22.79	+21 01	49.8		511
1991 BC1	1991 01	19.03125	07 56	21.35	+21 01	56.8		511
1991 BC1	1991 01	20.94236	07 54	28.76	+21 10	20.6		511
1991 BC1	1991 01	20.96319	07 54	27.60	+21 10	26.0		511
1991 BD1	1991 01	18.12361	07 57	41.44	+21 03	53.6		511
1991 BD1	1991 01	19.01042	07 56	48.62	+21 09	11.3		511
1991 BD1	1991 01	19.03125	07 56	47.45	+21 09	18.6		511
1991 BD1	1991 01	20.94236	07 54	54.03	+21 20	34.1		511
1991 BD1	1991 01	20.96319	07 54	52.57	+21 20	42.0		511
1991 BE1	1991 01	19.01042	07 57	30.47	+20 00	36.8		511
1991 BE1	1991 01	19.03125	07 57	28.49	+20 00	25.4		511
1991 BE1	1991 01	20.94236	07 54	36.79	+19 43	55.8		511
1991 BE1	1991 01	20.96319	07 54	34.85	+19 43	45.0		511
1991 BF1	1991 01	18.12361	07 59	15.83	+21 02	20.7		511
1991 BF1	1991 01	19.01042	07 58	20.10	+21 11	35.6		511
1991 BF1	1991 01	19.03125	07 58	18.67	+21 11	47.2		511
1991 BF1	1991 01	20.94236	07 56	19.59	+21 31	13.7		511
1991 BF1	1991 01	20.96319	07 56	18.49	+21 31	23.5		511
1991 BG1	1991 01	18.12361	07 59	34.35	+17 58	58.4		511
1991 BG1	1991 01	19.01042	07 58	41.93	+18 01	00.2		511
1991 BG1	1991 01	19.03125	07 58	40.64	+18 01	01.4		511
1991 BG1	1991 01	20.94236	07 56	48.69	+18 05	09.7		511
1991 BG1	1991 01	20.96319	07 56	47.57	+18 05	13.6		511
1991 BH1	1991 01	19.01042	08 00	06.88	+20 29	32.1		511
1991 BH1	1991 01	19.03125	08 00	05.59	+20 29	37.0		511
1991 BH1	1991 01	20.94236	07 58	24.34	+20 34	42.7		511
1991 BH1	1991 01	20.96319	07 58	23.22	+20 34	45.5		511
1991 BJ1	1991 01	18.12361	08 01	13.33	+21 01	58.1		511
1991 BJ1	1991 01	19.01042	08 00	13.32	+21 07	54.5		511
1991 BJ1	1991 01	19.03125	08 00	11.76	+21 08	03.9		511
1991 BJ1	1991 01	20.94236	07 58	02.51	+21 20	37.1		511
1991 BJ1	1991 01	20.96319	07 58	01.25	+21 20	44.5		511
1991 BK1	1991 01	19.01042	08 02	49.68	+19 20	15.0		511
1991 BK1	1991 01	19.03125	08 02	48.50	+19 20	25.4		511
1991 BL1	1991 01	20.94236	08 01	04.26	+19 42	53.1		511
1991 BL1	1991 01	20.96319	08 01	03.08	+19 42	57.6		511
1991 BM1	1991 01	19.01042	08 03	51.55	+17 56	16.2		511
1991 BM1	1991 01	19.03125	08 03	50.43	+17 56	18.2		511
1991 BM1	1991 01	20.94236	08 02	06.36	+18 02	14.5		511



1991 BM1		1991 01 20.96319	08 02 05.23	+18 02 17.9		511
1991 BN1		1991 01 19.01042	08 03 59.68	+19 07 56.3		511
1991 BN1		1991 01 19.03125	08 03 58.31	+19 07 56.7		511
1991 BN1		1991 01 20.94236	08 02 02.50	+19 11 49.7		511
1991 BN1		1991 01 20.96319	08 02 01.00	+19 11 49.9		511
1991 BO1		1991 01 19.01042	08 04 36.36	+20 42 52.6		511
1991 BO1		1991 01 19.03125	08 04 34.95	+20 42 48.5		511
1991 BO1		1991 01 20.94236	08 02 23.10	+20 38 27.0		511
1991 BO1		1991 01 20.96319	08 02 21.73	+20 38 23.5		511
1991 BP1		1991 01 19.01042	08 05 27.07	+18 57 39.3		511
1991 BP1		1991 01 19.03125	08 05 25.27	+18 57 44.1		511
1991 BP1		1991 01 20.94236	08 03 08.45	+19 02 29.7		511
1991 BP1		1991 01 20.96319	08 03 07.12	+19 02 32.9		511
1991 BQ1		1991 01 19.01042	08 06 49.99	+20 06 34.0		511
1991 BQ1		1991 01 19.03125	08 06 48.76	+20 06 47.3		511
1991 BQ1		1991 01 20.94236	08 05 05.40	+20 22 19.4		511
1991 BQ1		1991 01 20.96319	08 05 04.30	+20 22 28.0		511
1991 BS1		1991 01 18.12361	08 09 09.53	+20 57 05.4		511
1991 BS1		1991 01 19.01042	08 08 25.32	+20 59 46.9		511
1991 BS1		1991 01 19.03125	08 08 24.19	+20 59 50.6		511
1991 BS1		1991 01 20.94236	08 06 48.97	+21 05 36.2	18.0	511
1991 BS1		1991 01 20.96319	08 06 48.06	+21 05 39.6		511
1991 BB4		1991 01 19.01042	08 05 43.29	+20 56 05.9		511
1991 BB4		1991 01 19.03125	08 05 41.76	+20 56 09.0		511
1991 BB4		1991 01 20.94236	08 03 43.50	+21 00 07.0		511
1991 BB4		1991 01 20.96319	08 03 41.89	+21 00 08.3		511
1991 BK4	*	1991 01 19.01042	08 04 59.59	+18 21 19.0		511
1991 BK4		1991 01 19.03125	08 04 58.13	+18 21 18.9		511
1991 BK4		1991 01 20.94236	08 02 58.07	+18 25 31.8		511
1991 BK4		1991 01 20.96319	08 02 56.74	+18 25 32.3		511
1991 BL4	*	1991 01 19.01042	08 08 40.64	+21 04 39.0	18.0	511
1991 BL4		1991 01 19.03125	08 08 39.40	+21 04 37.8		511
1991 BL4		1991 01 20.94236	08 06 48.72	+21 04 08.4		511
1991 BL4		1991 01 20.96319	08 06 47.44	+21 04 10.3		511
1991 BM4	*	1991 01 20.94236	08 00 43.05	+19 36 48.6		511
1991 BM4		1991 01 20.96319	08 00 41.76	+19 36 51.8		511
1991 BN4	*	1991 01 20.94236	08 07 14.88	+18 07 55.4	18.0	511
1991 BN4		1991 01 20.96319	08 07 13.97	+18 08 00.5		511
1991 BO4	*	1991 01 20.94236	08 08 06.93	+18 42 49.8	18.2	511
1991 BO4		1991 01 20.96319	08 08 05.60	+18 42 50.4		511
9511 P-L		1991 01 19.01042	08 07 15.95	+19 25 33.8		511
9511 P-L		1991 01 19.03125	08 07 15.01	+19 25 38.1		511
9511 P-L		1991 01 20.94236	08 05 39.71	+19 30 40.9		511
9511 P-L		1991 01 20.96319	08 05 38.60	+19 30 43.4		511
(925)		1991 01 18.12361	08 02 44.46	+21 41 32.6		511
(925)		1991 01 19.01042	08 01 38.37	+21 36 22.2		511
(925)		1991 01 19.03125	08 01 36.52	+21 36 14.3		511
(925)		1991 01 20.94236	07 59 14.46	+21 24 54.0		511
(925)		1991 01 20.96319	07 59 12.67	+21 24 46.1		511
(1017)		1991 01 20.94236	08 09 19.76	+20 21 04.4	17.0	511
(1017)		1991 01 20.96319	08 09 18.52	+20 21 12.9		511
(1067)		1991 01 18.12361	07 54 28.57	+18 42 47.6		511
(1067)		1991 01 19.01042	07 53 33.73	+18 41 37.3		511
(1067)		1991 01 19.03125	07 53 32.33	+18 41 35.3		511
(1785)		1991 01 20.94236	08 07 32.11	+18 08 54.7	17.0	511
(1785)		1991 01 20.96319	08 07 30.70	+18 08 55.5		511
(2264)		1991 01 18.12361	08 09 09.29	+19 58 05.8		511
(2264)		1991 01 19.01042	08 08 25.19	+20 00 21.8		511
(2264)		1991 01 19.03125	08 08 24.04	+20 00 23.8		511

(2264)	1991 01	20.94236	08 06	49.18	+20 05	10.4		511
(2264)	1991 01	20.96319	08 06	48.20	+20 05	14.0		511
(3814)	1991 01	18.12361	07 53	38.46	+19 53	57.9		511
(3814)	1991 01	19.01042	07 52	52.37	+19 56	26.0		511
(3814)	1991 01	19.03125	07 52	51.14	+19 56	30.0		511
(3850)	1991 01	20.94236	08 08	25.25	+19 32	07.7	18.0	511
(3850)	1991 01	20.96319	08 08	23.90	+19 32	15.2		511
(4420)	1991 01	18.12361	08 08	47.44	+20 47	01.8		511
(4420)	1991 01	19.01042	08 07	56.40	+20 48	31.8		511
(4420)	1991 01	19.03125	08 07	55.17	+20 48	33.0		511
(4420)	1991 01	20.94236	08 06	05.39	+20 51	40.6		511
(4420)	1991 01	20.96319	08 06	04.33	+20 51	41.7		511
(4781)	1991 01	19.01042	07 54	43.85	+18 54	23.7		511
(4781)	1991 01	19.03125	07 54	42.32	+18 54	27.8		511
(4781)	1991 01	20.94236	07 52	26.44	+19 02	01.5		511
(4781)	1991 01	20.96319	07 52	25.02	+19 02	05.5		511
(4831)	1991 01	18.12361	08 08	23.61	+20 31	55.5		511
(4831)	1991 01	19.01042	08 07	36.49	+20 34	21.4		511
(4831)	1991 01	19.03125	08 07	35.42	+20 34	24.4		511
(4831)	1991 01	20.94236	08 05	54.09	+20 39	35.6		511
(4831)	1991 01	20.96319	08 05	53.02	+20 39	39.1		511
(5141)	1991 01	19.01042	08 01	38.50	+19 05	50.1		511
(5141)	1991 01	19.03125	08 01	37.34	+19 05	54.1		511
(5141)	1991 01	20.94236	07 59	53.69	+19 12	24.8		511
(5141)	1991 01	20.96319	07 59	52.57	+19 12	29.5		511

## 565 Bassano Bresciano

U. Quadri, Osservatorio di Bassano Bresciano, Via S. Michele 4,

I-25020 Bassano Bresciano (Brescia), Italy

Observers U. Quadri, L. Strabla

0.3-0.4-m f/3.3 Schmidt

AGK3, SAOC

1992 UV	1992 10	26.85712	02 08	10.49	+17 02	29.0	15.5	565
1992 UV	1992 10	26.88076	02 08	09.36	+17 02	19.6		565
1992 UL2	1992 10	26.85712	01 55	21.73	+18 38	24.5	16.0	565
1992 UL2	1992 10	26.88076	01 55	20.26	+18 38	17.3		565
(1559)	1992 10	26.85712	02 05	14.67	+17 41	06.1	16.0	565
(1559)	1992 10	26.88076	02 05	13.36	+17 41	02.0		565
(2692)	1992 10	26.85712	02 04	16.02	+18 14	04.1	16.5	565
(2692)	1992 10	26.88076	02 04	14.67	+18 13	54.8		565
(3390)	1992 10	26.85712	02 03	12.59	+17 12	53.7	17.0	565
(3390)	1992 10	26.88076	02 03	11.02	+17 12	46.8		565

## 587 Sormano

P. Sicoli, Via Valli 9, I-22040 Garbagnate Monastero (Como), Italy

0.5-m f/5.9 reflector

Observers M. Cavagna, E. Colzani, P. Sicoli

PPM

(5143)	1991 12	29.79410	23 56	35.91	+12 55	08.5		587
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## 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

1973 AT3	1992 09	22.84062	23 02	31.80	-01 25	12.1		589
1973 AT3	1992 09	22.84826	23 02	31.54	-01 25	14.0		589
1973 AT3	1992 09	22.85613	23 02	31.15	-01 25	16.0		589
1973 AT3	1992 09	22.86298	23 02	30.85	-01 25	17.4		589

1973 AT3	1992 10	24.86042	22 47	45.15	-02 48	18.0	589
1973 AT3	1992 10	24.86851	22 47	45.10	-02 48	19.8	589
1973 AT3	1992 10	24.88693	22 47	44.88	-02 48	20.5	589
1975 TM2	1992 09	26.99408	01 55	33.93	+09 49	01.6	589
1975 TM2	1992 09	26.99937	01 55	33.73	+09 48	59.7	589
1975 TM2	1992 09	27.00847	01 55	33.38	+09 48	56.4	589
1975 TM2	1992 09	27.02517	01 55	32.75	+09 48	51.1	589
1976 YC2	1992 09	27.03356	03 08	34.06	+10 27	18.9	589
1976 YC2	1992 09	27.04459	03 08	33.86	+10 27	17.7	589
1976 YC2	1992 09	27.05646	03 08	33.59	+10 27	16.3	589
1976 YC2	1992 09	27.06568	03 08	33.42	+10 27	15.4	589
1991 RQ11	1992 10	24.96235	04 11	15.02	-02 59	38.8	589
1991 RQ11	1992 10	24.97369	04 11	14.62	-02 59	43.7	589
1991 RQ11	1992 10	24.99965	04 11	13.66	-02 59	52.6	589
1991 RQ11	1992 10	25.01076	04 11	13.31	-02 59	57.8	589
(1969)	1992 09	30.91266	00 38	30.23	+05 49	40.7	589
(1969)	1992 09	30.91988	00 38	29.93	+05 49	38.4	589
(1969)	1992 09	30.92698	00 38	29.60	+05 49	36.5	589
(2572)	1992 09	30.94580	00 39	08.27	+05 55	53.5	589
(2572)	1992 09	30.95265	00 39	07.91	+05 55	50.7	589
(2572)	1992 09	30.95926	00 39	07.53	+05 55	47.4	589
(2572)	1992 10	01.89068	00 38	17.69	+05 48	21.8	589
(2572)	1992 10	01.89643	00 38	17.38	+05 48	19.3	589
(2572)	1992 10	01.90774	00 38	16.66	+05 48	15.9	589
(2572)	1992 10	01.91583	00 38	16.25	+05 48	12.0	589
(5301)	1992 09	26.82889	22 19	21.37	+04 32	43.5	589
(5301)	1992 09	26.83644	22 19	21.18	+04 32	41.1	589
(5301)	1992 09	26.84619	22 19	20.90	+04 32	37.8	589
(5301)	1992 09	26.85424	22 19	20.65	+04 32	34.8	589

## 595 Farra d'Isonzo

L. Bittesini, Via dei Conventi 10, I-34070 Farra D'Isonzo (GO), Italy

Observers W. Boschin, G. Lombardi, E. Pettarin, F. Piani

0.4-m f/4.5 reflector

PPM

1992 OM	1992 09	18.78819	22 11	49.57	+05 04	48.4	595
1992 OM	1992 09	18.88264	22 11	49.48	+05 05	15.9	595

## 596 Colleverde di Guidonia

V. S. Casulli, Via M. Rosa 1, I-00010 Colleverde di Guidonia (RM), Italy

0.31-m f/2.8 Baker-Schmidt + CCD

GSC

1981 EU8	1992 09	02.89074	22 47	35.96	-02 24	45.1	596
1981 EU8	1992 09	02.90119	22 47	35.32	-02 24	46.2	596
1981 EU8	1992 09	02.90617	22 47	35.04	-02 24	45.7	596
1981 EU8	1992 09	03.88456	22 46	39.72	-02 26	08.9	596
1981 EU8	1992 09	03.90172	22 46	38.73	-02 26	09.3	596
1983 RY4	1992 08	01.92637	22 20	45.09	+04 29	17.9	596
1983 RY4	1992 08	01.95179	22 20	44.21	+04 29	23.3	596
1983 RY4	1992 08	03.89481	22 19	39.40	+04 35	20.1	596
1983 RY4	1992 08	03.91605	22 19	38.37	+04 35	26.5	596
1984 UX	1992 08	28.97451	02 00	00.49	+10 40	58.9	596
1984 UX	1992 08	28.99195	02 00	01.50	+10 41	08.9	596
1984 UX	1992 08	29.00729	02 00	01.94	+10 41	17.4	596
1984 UX	1992 08	29.02096	02 00	02.26	+10 41	25.3	596
1985 UJ3	1992 09	29.89271	00 55	16.14	+02 55	56.6	596
1985 UJ3	1992 09	29.91280	00 55	15.09	+02 55	49.8	596
1988 JA1	1992 09	01.89535	22 37	32.81	-32 36	33.4	596
1988 JA1	1992 09	01.90858	22 37	32.15	-32 36	42.9	596

1988 JA1	1992 09	01.91708	22 37	31.73	-32 36	50.0	596
1990 BU	1992 08	01.99207	22 56	21.54	-05 08	28.9	596
1990 BU	1992 08	01.99847	22 56	21.33	-05 08	26.9	596
1990 BU	1992 08	07.96662	22 52	32.72	-04 39	24.9	596
1990 BU	1992 08	07.97492	22 52	32.36	-04 39	22.3	596
1990 BU	1992 08	07.97983	22 52	32.09	-04 39	21.2	596
1991 EE1	1992 08	31.83525	22 47	20.70	-20 20	58.8	596
1991 EE1	1992 08	31.84495	22 47	20.21	-20 20	59.6	596
1991 EE1	1992 08	31.85581	22 47	19.35	-20 20	59.2	596
1991 EE1	1992 08	31.87726	22 47	17.89	-20 21	01.1	596
1992 HE	1992 09	05.09590	04 08	56.18	-02 07	04.8	596
1992 HE	1992 09	05.10396	04 08	55.58	-02 06	51.5	596
1992 HE	1992 09	05.11091	04 08	54.99	-02 06	38.6	596
1992 HE	1992 09	05.11761	04 08	54.53	-02 06	28.7	596
1992 HE	1992 09	06.05044	04 07	40.62	-01 39	47.0	596
1992 HE	1992 09	06.07113	04 07	38.86	-01 39	11.3	596
1992 HE	1992 09	06.09504	04 07	36.82	-01 38	28.2	596
1992 NA	1992 08	29.98462	02 00	58.38	-09 31	32.5	596
1992 NA	1992 08	29.98935	02 01	00.52	-09 30	38.3	596
1992 NA	1992 08	30.00715	02 01	08.13	-09 27	18.4	596
1992 NA	1992 08	30.00818	02 01	08.61	-09 27	06.1	596
1992 NA	1992 08	30.00964	02 01	09.28	-09 26	49.5	596
1992 NA	1992 08	30.01202	02 01	10.39	-09 26	22.2	596
1992 NA	1992 08	30.01553	02 01	11.89	-09 25	42.3	596
1992 NA	1992 08	30.02360	02 01	15.32	-09 24	09.4	596
1992 NA	1992 08	30.03178	02 01	18.87	-09 22	36.8	596
1992 NA	1992 08	30.03978	02 01	22.28	-09 21	06.8	596
(5301)	1992 09	20.80981	22 22	23.23	+05 07	53.6	596
(5301)	1992 09	20.82274	22 22	22.66	+05 07	50.7	596

## 597 Springe

N. Ehring, Detmoldstrasse 8, W-3000 Hannover 1, Federal Republic of Germany							
(54)	1992 09	22.83291	22 15	03.96	+00 57	55.3	597
(54)	1992 09	22.84078	22 15	03.65	+00 57	54.8	597
(63)	1992 09	25.97032	00 26	45.45	+08 05	49.4	597
(63)	1992 09	25.97632	00 26	45.03	+08 05	47.8	597
(297)	1992 09	24.89093	00 14	07.10	+08 30	50.0	597
(297)	1992 09	24.89970	00 14	06.65	+08 30	48.4	597
(397)	1992 09	22.85838	23 45	56.20	+18 47	59.2	597
(397)	1992 09	22.86219	23 45	56.06	+18 47	56.3	597
(418)	1992 09	22.82527	22 11	03.84	+01 02	35.1	597
(418)	1992 09	22.84537	22 11	03.20	+01 02	26.9	597
(626)	1992 09	27.85807	01 38	37.15	+43 38	22.5	597
(626)	1992 09	27.87088	01 38	36.17	+43 38	36.9	597
(646)	1992 09	01.90631	22 20	07.38	-00 50	52.7	597
(646)	1992 09	01.91965	22 20	06.62	-00 50	52.6	597
(746)	1992 09	24.93659	00 42	56.93	+08 22	01.2	597
(746)	1992 09	24.94510	00 42	56.38	+08 22	01.8	597
(808)	1992 09	25.94146	00 23	33.52	+02 02	11.0	597
(808)	1992 09	25.95470	00 23	32.84	+02 02	05.0	597
(1264)	1992 09	01.88139	21 37	27.60	+26 20	24.6	597
(1264)	1992 09	01.89462	21 37	27.07	+26 20	18.1	597
(3674)	1992 09	24.91257	00 36	37.48	+58 13	29.5	597
(3674)	1992 09	24.92144	00 36	37.04	+58 13	40.3	597

## 657 Victoria, Climenhaga Observatory

J. B. Tatum, Dept. of Physics, University of Victoria, P.O. Box 1700,  
 Victoria, BC V8W 2Y2, Canada  
 Observers J. B. Tatum, D. D. Balam

1988 VR	1992 10	06.43209	06 44	48.26	+24 57	11.7	657
1988 VR	1992 10	06.43437	06 44	48.51	+24 57	11.7	657
1988 VR	1992 10	06.43655	06 44	48.62	+24 57	11.9	657
1992 NA	1992 10	06.40056	05 00	27.16	+53 01	00.0	657
1992 NA	1992 10	06.40270	05 00	27.35	+53 01	03.3	657
1992 NA	1992 10	06.40485	05 00	27.52	+53 01	06.6	657
1992 NA	1992 10	27.36042	05 06	08.61	+57 38	52.9	657
1992 NA	1992 10	27.36273	05 06	08.42	+57 38	53.6	657
1992 NA	1992 10	27.36684	05 06	08.13	+57 38	54.8	657
1992 SK	1992 10	27.30456	00 07	10.49	+13 11	58.1	657
1992 SK	1992 10	27.31008	00 07	10.01	+13 11	58.0	657
1992 SK	1992 10	27.31209	00 07	09.84	+13 11	57.8	657
1992 SL	1992 10	27.27646	01 21	00.39	+37 13	09.3	657
1992 SL	1992 10	27.28005	01 21	00.26	+37 13	11.0	657
1992 SL	1992 10	27.28205	01 21	00.21	+37 13	12.2	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  
 1.85-m reflector + CCD

GSC							
1943 DF	1992 09	25.46530	00 30	33.91	+09 05	29.7	658
1943 DF	1992 09	25.47190	00 30	32.97	+09 05	26.8	658
1943 DF	1992 09	25.47469	00 30	32.75	+09 05	27.0	658
1943 DF	1992 09	27.42330	00 27	56.96	+09 07	54.8	658
1943 DF	1992 09	27.42642	00 27	56.74	+09 07	54.9	658
1943 DF	1992 09	27.42990	00 27	56.44	+09 07	55.6	658
1992 HE	1992 09	27.44453	03 21	49.63	+09 12	49.0	658
1992 HE	1992 09	27.44762	03 21	49.07	+09 12	54.8	658
1992 HE	1992 09	27.45074	03 21	48.50	+09 13	00.6	658
1992 NA	1992 09	27.52226	04 39	25.75	+48 11	07.4	658
1992 NA	1992 09	27.52539	04 39	26.30	+48 11	15.2	658
(1943)	1992 09	27.43406	00 31	06.44	+22 30	39.9	658
(1943)	1992 09	27.43683	00 31	06.18	+22 30	37.3	658
(1943)	1992 09	27.43961	00 31	05.90	+22 30	34.9	658
(3200)	1992 09	25.48613	03 56	25.33	+43 07	16.9	658
(3200)	1992 09	25.49135	03 56	24.89	+43 07	18.4	658
(3200)	1992 09	27.45767	03 53	35.16	+43 16	25.2	658
(3200)	1992 09	27.46323	03 53	34.66	+43 16	25.6	658

674 Ford Observatory, Wrightwood  
 J. B. Child, World Space Foundation, P.O. Box Y, South Pasadena  
 CA 91031, U.S.A.

Observers J. B. Child, G. Fisch							
1992 SQ2	* 1992 09	20.30799	03 09	41.56	+19 24	16.8	674
1992 SQ2	1992 09	20.42153	03 09	42.02	+19 24	13.1	674
1992 SQ2	1992 09	20.44653	03 09	42.15	+19 24	11.6	674
1992 SQ2	1992 09	29.29410	03 09	14.31	+19 13	11.9	674
1992 SQ2	1992 09	29.30417	03 09	14.23	+19 13	10.5	674
1992 SQ2	1992 09	29.33507	03 09	13.70	+19 13	05.3	674
1992 SQ2	1992 09	29.34271	03 09	13.59	+19 13	04.1	674
1992 SQ2	1992 09	29.37569	03 09	13.25	+19 13	01.5	674

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 R. Aeschliman (3, S), J. Alu (2, S), C. Brewer (2, S), S. Cohen  
(2, S), B. M. Cudnik (3, S), M. A. Dahm (3, S), T. Gehrels (4, L),  
E. F. Helin (2, S), H. E. Holt (3, S), K. Lawrence (2, S), G. J. Leonard  
(3, S), D. H. Levy (3, 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)

Measurers J. Alu (2), B. M. Cudnik (3), P. Rose (2), C. S. Shoemaker (3),  
C. J. van Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4)

1.2-m (L) and 0.46-m (S) Schmidt telescopes

1980 VO	1992 08 25.30764	22 19 07.63	-30 57 44.2	17.0	3	675
1980 VO	1992 08 25.34972	22 19 04.97	-30 57 47.6		3	675
1982 TT	1992 08 05.28420	22 21 46.69	+06 43 40.8	17.2	3	675
1982 TT	1992 08 05.39149	22 21 42.58	+06 43 43.8		3	675
1989 EQ	1992 08 27.48689	00 13 36.64	+10 13 54.6		3	675
1990 BZ	1992 08 05.43247	22 44 49.14	+00 56 42.8	17.8	3	675
1990 BZ	1992 08 05.47188	22 44 47.28	+00 56 50.7		3	675
1990 BZ	1992 08 07.44409	22 43 15.57	+01 03 28.1		3	675
1990 BZ	1992 08 07.46997	22 43 14.19	+01 03 33.1		3	675
1991 CZ	1992 09 24.49462	02 57 29.90	-16 17 07.0	16.0	2	675
1991 CZ	1992 09 24.51615	02 57 29.76	-16 17 36.4		2	675
1991 CZ	1992 09 26.47361	02 57 18.06	-17 04 06.7		2	675
1991 CZ	1992 09 26.49861	02 57 17.70	-17 04 43.1		2	675
1991 FC	1989 09 05.22326	20 19 25.87	+11 33 02.4	16.0	2	675
1991 FC	1989 09 05.24826	20 19 25.54	+11 32 31.7		2	675
1991 FC	1992 09 23.42847	02 17 15.86	+06 12 17.5	16.5	2	675
1991 FC	1992 09 23.45330	02 17 15.25	+06 11 47.4		2	675
1991 FC	1992 09 25.42865	02 16 30.37	+05 28 39.7		2	675
1991 FC	1992 09 25.45208	02 16 29.79	+05 28 10.2		2	675
1991 GD	1992 10 02.29306	00 15 21.17	+37 00 52.6	17.6	3	675
1991 GD	1992 10 02.32899	00 15 18.87	+37 00 28.5		3	675
1991 GD	1992 10 04.36545	00 13 10.80	+36 36 57.8		3	675
1991 GD	1992 10 04.39167	00 13 09.10	+36 36 38.5		3	675
1991 PQ	1992 09 28.33385	00 49 38.79	+33 07 15.7		3	675
1991 PQ	1992 09 30.42361	00 47 55.58	+33 05 50.6	16.7	3	675
1991 PQ	1992 09 30.46233	00 47 53.60	+33 05 49.0		3	675
1991 ST1	1991 09 11.32257	23 45 01.70	+00 56 24.9		9	675
1991 ST1	1991 09 11.37431	23 44 59.07	+00 56 09.0		9	675
1992 NA	1992 09 23.44132	04 25 31.08	+44 51 05.7		2	675
1992 NA	1992 09 23.46684	04 25 36.17	+44 52 33.3		2	675
1992 NA	1992 09 26.48021	04 36 09.12	+47 25 18.7		2	675
1992 NA	1992 09 26.50503	04 36 13.30	+47 26 28.2		2	675
1992 OK	1992 08 04.33889	21 22 05.77	+00 17 52.1	17.2	3	675
1992 OK	1992 08 04.36528	21 22 04.69	+00 17 57.0		3	675
1992 OK	1992 08 07.28958	21 20 05.22	+00 23 38.5		3	675
1992 OK	1992 08 07.32188	21 20 03.77	+00 23 42.5		3	675
1992 OM	1992 09 22.18003	22 12 14.63	+05 19 22.4	15.5	2	675
1992 OM	1992 09 22.20417	22 12 14.70	+05 19 27.9		2	675
1992 OM	1992 09 25.22622	22 12 58.05	+05 30 11.1		2	675
1992 OM	1992 09 25.24965	22 12 58.26	+05 30 13.9		2	675
1992 OP1	* 1992 07 31.33576	21 30 00.97	+09 21 39.6	18.4	3	675
1992 OP1	1992 07 31.37014	21 29 59.40	+09 21 38.7		3	675
1992 OP1	1992 08 04.38038	21 27 02.86	+09 21 52.2		3	675
1992 OP1	1992 08 05.26441	21 26 23.27	+09 21 24.6		3	675
1992 OP1	1992 08 05.29108	21 26 21.97	+09 21 22.9		3	675
1992 PT2	1992 08 05.43247	22 31 47.36	-01 24 38.4	17.2	3	675
1992 PT2	1992 08 05.47188	22 31 45.76	-01 24 43.2		3	675

1992 PT2		1992 08 07.44409	22 30 30.88	-01 27 51.2		3	675
1992 PT2		1992 08 07.46997	22 30 29.73	-01 27 53.7		3	675
1992 PC3		1992 08 05.27760	22 05 08.68	+04 07 01.4	17.2	3	675
1992 PC3		1992 08 05.30799	22 05 07.32	+04 07 04.7		3	675
1992 PY4	*	1992 08 04.31892	20 07 30.59	-01 14 47.9	17.0	3	675
1992 PY4		1992 08 04.35208	20 07 29.23	-01 15 03.1		3	675
1992 PY4		1992 08 06.27601	20 06 15.23	-01 29 23.1		3	675
1992 PY4		1992 08 06.31580	20 06 13.71	-01 29 40.4		3	675
1992 PZ4	*	1992 08 04.33889	21 27 41.33	+03 30 31.4	17.4	3	675
1992 PZ4		1992 08 04.36528	21 27 40.19	+03 30 20.6		3	675
1992 PZ4		1992 08 05.27083	21 27 03.97	+03 23 35.9		3	675
1992 PZ4		1992 08 05.29965	21 27 02.79	+03 23 24.0		3	675
1992 PZ4		1992 08 07.28958	21 25 41.21	+03 07 40.5		3	675
1992 PZ4		1992 08 07.32188	21 25 39.83	+03 07 24.5		3	675
1992 PA5	*	1992 08 04.38038	21 39 06.43	+09 44 01.1	17.5	3	675
1992 PA5		1992 08 05.26441	21 38 29.51	+09 43 39.8		3	675
1992 PA5		1992 08 05.29108	21 38 28.29	+09 43 38.5		3	675
1992 QK		1992 08 05.43247	22 43 06.65	+00 18 22.2	17.6	3	675
1992 QK		1992 08 05.47188	22 43 05.24	+00 18 28.2		3	675
1992 QK		1992 08 07.44409	22 41 54.53	+00 22 42.3		3	675
1992 QK		1992 08 07.46997	22 41 53.42	+00 22 46.5		3	675
1992 QP		1992 09 23.24115	22 07 26.21	-15 23 02.6	16	2	675
1992 QP		1992 09 23.26337	22 07 26.15	-15 23 16.0		2	675
1992 QP		1992 09 26.25434	22 07 44.81	-15 50 23.4		2	675
1992 QP		1992 09 26.29045	22 07 45.09	-15 50 42.2		2	675
1992 QS		1992 09 22.22986	22 54 28.34	-08 27 41.6	16.5	2	675
1992 QS		1992 09 22.25625	22 54 26.58	-08 27 27.3		2	675
1992 QS		1992 09 25.23854	22 51 20.97	-08 02 26.3		2	675
1992 QS		1992 09 25.26163	22 51 19.45	-08 02 13.1		2	675
1992 QT		1992 09 22.22378	22 35 34.90	+02 56 42.7	16	2	675
1992 QT		1992 09 22.24983	22 35 32.80	+02 56 52.2		2	675
1992 QT		1992 09 25.23299	22 31 49.13	+03 16 10.6		2	675
1992 QW		1992 09 22.17326	21 44 54.16	-18 40 21.5	16.5	2	675
1992 QW		1992 09 22.19757	21 44 53.84	-18 40 13.1		2	675
1992 QX		1992 09 23.28368	23 08 37.02	-12 20 10.1	16.5	2	675
1992 QX		1992 09 23.30677	23 08 36.26	-12 20 26.0		2	675
1992 QX		1992 09 26.27951	23 07 13.93	-12 51 13.3		2	675
1992 QX		1992 09 26.30660	23 07 13.16	-12 51 31.1		2	675
1992 QE1	*	1992 08 29.23420	20 41 58.37	-10 28 16.5	16.5	2	675
1992 QE1		1992 08 29.25677	20 41 57.61	-10 28 32.2		2	675
1992 QE1		1992 09 01.16493	20 40 31.56	-11 01 36.0		2	675
1992 QE1		1992 09 01.18681	20 40 30.86	-11 01 50.4		2	675
1992 QF1	*	1992 08 23.33993	23 28 06.60	-12 24 11.7	17.0	3	675
1992 QF1		1992 08 23.37517	23 28 05.63	-12 24 41.4		3	675
1992 QF1		1992 08 28.40920	23 25 39.07	-13 35 53.0		3	675
1992 QF1		1992 08 28.43976	23 25 38.04	-13 36 20.3		3	675
1992 QG1	*	1992 08 23.33993	23 33 27.19	-13 37 55.4	16.6	3	675
1992 QG1		1992 08 23.37517	23 33 25.95	-13 38 10.8		3	675
1992 QG1		1992 08 28.40920	23 30 17.21	-14 13 09.2		3	675
1992 QG1		1992 08 28.43976	23 30 15.86	-14 13 21.5		3	675
1992 QH1	*	1992 08 23.33993	23 39 06.08	-16 48 53.3	17.0	3	675
1992 QH1		1992 08 23.37517	23 39 04.78	-16 49 12.4		3	675
1992 QH1		1992 08 28.40920	23 36 03.03	-17 35 54.2		3	675
1992 QH1		1992 08 28.43976	23 36 01.74	-17 36 10.3		3	675
1992 QJ1	*	1992 08 25.32552	22 52 13.44	-24 58 03.0	17.4	3	675
1992 QJ1		1992 08 25.36389	22 52 11.12	-24 58 05.2		3	675
1992 QJ1		1992 08 27.31580	22 50 22.38	-24 56 07.3		3	675
1992 QJ1		1992 08 27.34913	22 50 20.32	-24 56 05.9		3	675
1992 QK1	*	1992 08 25.32552	23 07 34.95	-28 11 29.6	17.6	3	675

1992 QK1		1992 08 25.36389	23 07 33.08	-28 11 53.4		3	675
1992 QK1		1992 08 27.31580	23 06 02.90	-28 32 49.2		3	675
1992 QK1		1992 08 27.34913	23 06 01.22	-28 33 10.0		3	675
1992 QL1	*	1992 08 25.40260	23 44 14.20	-23 19 14.5	17.0	3	675
1992 QL1		1992 08 25.43750	23 44 12.72	-23 19 30.9		3	675
1992 QL1		1992 08 27.38160	23 42 58.56	-23 34 31.1		3	675
1992 QL1		1992 08 27.41719	23 42 57.06	-23 34 48.7		3	675
1992 QM1	*	1992 08 25.40260	23 48 48.17	-18 55 17.7	17.2	3	675
1992 QM1		1992 08 25.43750	23 48 47.16	-18 55 32.9		3	675
1992 QM1		1992 08 27.38160	23 47 43.15	-19 10 40.0		3	675
1992 QN1	*	1992 08 25.40260	23 51 13.48	-22 39 01.3	17.4	3	675
1992 QN1		1992 08 25.43750	23 51 11.58	-22 39 08.4		3	675
1992 QN1		1992 08 27.38160	23 49 28.72	-22 45 58.0		3	675
1992 QN1		1992 08 27.41719	23 49 26.71	-22 46 05.5		3	675
1992 RN1	*	1992 09 01.43628	00 28 30.52	-05 40 39.6	16.5	2	675
1992 RN1		1992 09 01.46233	00 28 31.27	-05 40 52.6		2	675
1992 RN1		1992 09 22.35903	00 34 21.77	-08 40 26.9	16.5	2	675
1992 RN1		1992 09 22.38455	00 34 21.77	-08 40 38.8		2	675
1992 RN1		1992 09 25.36493	00 34 27.32	-09 02 05.7		2	675
1992 RN1		1992 09 25.38837	00 34 27.24	-09 02 14.6		2	675
1992 RO1	*	1992 09 01.25417	21 37 57.70	-21 39 18.0	16.0	2	675
1992 RO1		1992 09 01.27587	21 37 57.18	-21 39 33.8		2	675
1992 RO1		1992 09 22.21094	21 36 51.33	-24 52 48.1	16.5	2	675
1992 RO1		1992 09 25.13559	21 37 49.58	-25 06 00.4		2	675
1992 RO1		1992 09 25.16059	21 37 49.99	-25 06 06.4		2	675
1992 SL		1992 09 29.34549	01 39 23.59	+21 53 30.8	14.5	3	675
1992 SL		1992 09 29.38872	01 39 21.02	+21 56 20.2		3	675
1992 SL		1992 10 03.33785	01 36 48.19	+25 59 53.2		3	675
1992 SL		1992 10 03.37760	01 36 45.82	+26 01 59.7		3	675
1992 ST		1992 10 28.33212	01 09 47.21	+06 30 55.6	16.0	2	675
1992 ST		1992 10 28.38733	01 09 44.57	+06 31 29.1		2	675
1992 SU1	*	1992 09 22.31788	23 27 20.32	-03 37 19.1	14.5	2	675
1992 SU1		1992 09 22.33576	23 27 20.13	-03 37 31.3		2	675
1992 SU1		1992 09 25.29167	23 27 08.72	-04 11 26.6		2	675
1992 SU1		1992 09 25.31424	23 27 08.50	-04 11 41.8		2	675
1992 SV1	*	1992 09 22.31788	23 39 08.07	-04 15 52.0	15.5	2	675
1992 SV1		1992 09 22.33576	23 39 07.22	-04 15 41.8		2	675
1992 SV1		1992 09 25.29167	23 37 14.50	-03 48 10.1		2	675
1992 SV1		1992 09 25.31424	23 37 13.51	-03 48 01.7		2	675
1992 SP2	*	1992 09 23.32535	23 42 22.21	+08 32 15.2	16	2	675
1992 SP2		1992 09 23.35139	23 42 21.14	+08 31 50.6		2	675
1992 SP2		1992 09 25.32083	23 41 08.92	+08 01 53.9		2	675
1992 SP2		1992 09 25.34306	23 41 07.97	+08 01 33.7		2	675
1992 SQ2		1992 09 25.49479	03 09 44.86	+19 19 22.8	16.8	2	675
1992 SS2	*	1992 09 22.33003	00 06 44.30	-14 43 46.4	16.5	2	675
1992 SS2		1992 09 22.34670	00 06 43.18	-14 43 41.6		2	675
1992 SS2		1992 09 25.32899	00 03 28.42	-14 23 04.5		2	675
1992 SS2		1992 09 25.34983	00 03 26.96	-14 22 57.8		2	675
1992 ST2	*	1992 09 22.35313	00 06 08.08	+11 57 45.1	16.5	2	675
1992 ST2		1992 09 22.37760	00 06 07.15	+11 57 17.5		2	675
1992 ST2		1992 09 26.37500	00 03 25.55	+10 31 33.9		2	675
1992 ST2		1992 09 26.40608	00 03 24.30	+10 30 51.6		2	675
1992 SW10		1992 08 25.48021	01 09 58.50	+01 42 46.4	18.0	3	675
1992 SW10		1992 08 25.50781	01 09 58.12	+01 42 46.8		3	675
1992 SG13	*	1992 09 23.43420	03 06 32.02	+18 31 36.8		2	675
1992 SG13		1992 09 23.45885	03 06 32.26	+18 31 46.8		2	675
1992 SG13		1992 09 25.46458	03 06 53.88	+18 45 30.4		2	675
1992 SG13		1992 09 25.49479	03 06 53.98	+18 45 39.7		2	675
1992 SH13	*	1992 09 23.43420	03 06 55.92	+18 45 29.0		2	675



1992 SH13		1992 09 23.45885	03 06 56.03	+18 45 17.9		2	675
1992 SH13		1992 09 25.46458	03 07 05.90	+18 30 37.8		2	675
1992 SH13		1992 09 25.49479	03 07 05.90	+18 30 26.2		2	675
1992 SJ13	*	1992 09 22.33003	00 11 49.63	-15 24 56.9	15.5	2	675
1992 SJ13		1992 09 22.34670	00 11 48.88	-15 25 05.9		2	675
1992 SJ13		1992 09 25.32899	00 09 44.96	-15 57 22.0		2	675
1992 SJ13		1992 09 25.34983	00 09 43.89	-15 57 32.0		2	675
1992 SK13		1992 09 30.28854	00 50 02.47	+14 53 38.5	17.4	3	675
1992 SK13		1992 09 30.32614	00 50 00.30	+14 53 32.2		3	675
1992 SR13	*	1992 09 23.28368	23 15 47.38	-13 15 27.8	16.5	2	675
1992 SR13		1992 09 23.30677	23 15 46.44	-13 15 39.8		2	675
1992 SR13		1992 09 26.27951	23 14 01.03	-13 39 47.7		2	675
1992 SR13		1992 09 26.30660	23 14 00.16	-13 40 02.2		2	675
1992 SF14	*	1992 09 28.33385	01 14 59.27	+31 04 26.8	17.0	3	675
1992 SF14		1992 09 28.37691	01 14 58.43	+31 03 53.0		3	675
1992 SF14		1992 09 30.41267	01 14 19.40	+30 35 34.3		3	675
1992 SF14		1992 09 30.45243	01 14 18.06	+30 34 57.7		3	675
1992 SF14		1992 10 02.37188	01 13 38.78	+30 06 08.1		3	675
1992 SF14		1992 10 02.41163	01 13 37.69	+30 05 32.5		3	675
1992 SG14	*	1992 09 28.33385	01 19 44.22	+30 23 07.9	17.2	3	675
1992 SG14		1992 09 28.37691	01 19 41.77	+30 23 08.5		3	675
1992 SG14		1992 09 30.41267	01 17 45.71	+30 22 37.5		3	675
1992 SG14		1992 09 30.45243	01 17 43.34	+30 22 34.4		3	675
1992 SG14		1992 10 02.37188	01 15 51.61	+30 20 47.4		3	675
1992 SG14		1992 10 02.41163	01 15 49.08	+30 20 45.4		3	675
1992 SH14	*	1992 09 28.33385	01 25 22.37	+31 05 43.9	17.4	3	675
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1992 SH14		1992 10 02.41163	01 22 16.05	+30 59 03.7		3	675
1992 SJ14	*	1992 09 30.28854	00 27 32.51	+18 05 29.9	16.8	3	675
1992 SJ14		1992 09 30.32614	00 27 30.60	+18 05 21.0		3	675
1992 SJ14		1992 10 02.28490	00 25 54.20	+17 56 57.6		3	675
1992 SJ14		1992 10 02.32240	00 25 52.25	+17 56 47.5		3	675
1992 SK14	*	1992 09 30.34045	01 30 23.84	-03 51 25.5		3	675
1992 SK14		1992 09 30.37604	01 30 21.56	-03 51 29.8	17.0	3	675
1992 SK14		1992 10 03.35087	01 27 09.66	-03 55 59.5		3	675
1992 SK14		1992 10 03.38889	01 27 06.99	-03 56 03.4		3	675
1992 SL14	*	1992 09 30.34045	01 32 04.96	-00 26 23.3		3	675
1992 SL14		1992 09 30.37604	01 32 02.94	-00 26 27.3	17.5	3	675
1992 SL14		1992 10 03.35087	01 29 14.51	-00 32 02.9		3	675
1992 SL14		1992 10 03.38889	01 29 12.19	-00 32 10.3		3	675
1992 SM14	*	1992 09 30.34045	01 40 20.12	+01 09 34.6		3	675
1992 SM14		1992 09 30.37604	01 40 18.19	+01 09 17.6		3	675
1992 SM14		1992 10 03.35087	01 37 36.89	+00 46 05.4		3	675
1992 SM14		1992 10 03.38889	01 37 34.71	+00 45 48.5	17.0	3	675
1992 SN14	*	1992 09 30.34045	01 41 55.10	-00 01 41.6		3	675
1992 SN14		1992 09 30.37604	01 41 53.34	-00 01 53.1	17.0	3	675
1992 SN14		1992 10 03.35087	01 39 27.71	-00 18 23.8		3	675
1992 SN14		1992 10 03.38889	01 39 25.65	-00 18 36.2		3	675
1992 SO14	*	1992 09 30.34045	01 44 04.90	+00 09 04.4		3	675
1992 SO14		1992 09 30.37604	01 44 03.23	+00 08 51.0	16.5	3	675
1992 SO14		1992 10 03.35087	01 41 46.65	-00 10 13.7		3	675
1992 SO14		1992 10 03.38889	01 41 44.65	-00 10 28.2		3	675
1992 SP14	*	1992 09 30.34045	01 45 10.82	-01 18 57.3		3	675
1992 SP14		1992 09 30.37604	01 45 09.08	-01 19 05.0	16.5	3	675
1992 SP14		1992 10 03.35087	01 42 48.61	-01 29 21.2		3	675
1992 SP14		1992 10 03.38889	01 42 46.51	-01 29 29.0		3	675
1992 SQ14	*	1992 09 30.34045	01 47 30.55	+00 02 41.2		3	675

1992 SQ14		1992 09	30.37604	01 47	29.37	+00 02	13.5	16.8	3	675
1992 SQ14		1992 10	03.35087	01 45	54.88	-00 37	09.5	17.2	3	675
1992 SQ14		1992 10	03.38889	01 45	53.52	-00 37	39.5		3	675
1992 SR14	*	1992 09	30.34045	01 48	04.36	-00 08	50.5		3	675
1992 SR14		1992 09	30.37604	01 48	02.84	-00 09	09.7	17.5	3	675
1992 SR14		1992 10	03.38889	01 45	56.54	-00 36	28.0		3	675
1992 SS14	*	1992 09	30.34045	01 56	44.56	-03 41	48.4		3	675
1992 SS14		1992 09	30.37604	01 56	43.30	-03 42	13.8	17.2	3	675
1992 SS14		1992 10	03.35087	01 54	59.85	-04 17	29.3	17.0	3	675
1992 SS14		1992 10	03.38889	01 54	58.33	-04 17	56.6		3	675
1992 ST14	*	1992 09	30.35347	02 23	28.43	-01 45	33.6	16.8	3	675
1992 ST14		1992 09	30.39028	02 23	26.88	-01 45	35.4		3	675
1992 ST14		1992 10	03.42118	02 21	21.79	-01 48	24.3		3	675
1992 ST14		1992 10	03.46319	02 21	19.84	-01 48	25.2		3	675
1992 ST14		1992 10	04.44045	02 20	36.91	-01 49	14.6		3	675
1992 ST14		1992 10	04.48316	02 20	34.92	-01 49	15.9		3	675
1992 SU14	*	1992 09	30.40642	02 38	34.11	+29 52	39.1	17.0	3	675
1992 SU14		1992 09	30.44844	02 38	32.54	+29 52	57.5		3	675
1992 SU14		1992 10	01.44253	02 37	57.49	+30 00	11.5		3	675
1992 SU14		1992 10	01.47708	02 37	56.31	+30 00	26.2		3	675
1992 SV14	*	1992 09	30.40642	02 47	58.81	+25 42	52.5	17.4	3	675
1992 SV14		1992 09	30.44844	02 47	58.21	+25 43	11.1		3	675
1992 SV14		1992 10	01.44253	02 47	43.38	+25 50	49.3		3	675
1992 SV14		1992 10	01.47708	02 47	42.53	+25 51	04.1		3	675
1992 SW14	*	1992 09	30.42361	00 26	37.35	+33 27	31.2	16.8	3	675
1992 SW14		1992 09	30.46233	00 26	32.79	+33 28	08.0		3	675
1992 SW14		1992 10	02.29306	00 22	59.15	+33 58	13.2		3	675
1992 SW14		1992 10	02.32899	00 22	54.83	+33 58	46.9		3	675
1992 SW14		1992 10	04.36545	00 18	54.84	+34 29	37.6		3	675
1992 SW14		1992 10	04.39167	00 18	51.79	+34 30	00.2		3	675
1992 TY		1992 10	01.35938	01 36	51.49	+00 46	24.0	17.0	3	675
1992 TY		1992 10	01.39792	01 36	49.30	+00 46	05.6		3	675
1992 TH1	*	1992 10	01.36771	02 03	08.20	-11 20	51.7	16.5	3	675
1992 TH1		1992 10	01.40469	02 03	06.93	-11 21	19.0		3	675
1992 TH1		1992 10	04.38351	02 01	25.52	-11 57	56.3		3	675
1992 TH1		1992 10	04.41424	02 01	24.42	-11 58	17.9		3	675
1992 TJ1	*	1992 10	02.35538	01 40	42.83	-09 03	03.9	16.8	3	675
1992 TJ1		1992 10	02.39740	01 40	41.05	-09 03	31.9		3	675
1992 TJ1		1992 10	04.37760	01 39	18.63	-09 25	19.8		3	675
1992 TJ1		1992 10	04.40677	01 39	17.32	-09 25	37.5		3	675
1992 TJ1		1992 10	20.27587	01 27	22.46	-11 47	55.8	17.0	3	675
1992 TJ1		1992 10	20.31111	01 27	20.86	-11 48	09.5		3	675
1992 TJ1		1992 10	24.36198	01 24	23.45	-12 12	51.8		3	675
1992 TJ1		1992 10	25.27361	01 23	45.20	-12 17	40.7		3	675
1992 TJ1		1992 10	25.31076	01 23	43.53	-12 17	52.6		3	675
1992 UQ2	*	1992 10	20.27587	01 30	55.22	-11 57	09.1	16.0	3	675
1992 UQ2		1992 10	20.31111	01 30	51.96	-11 56	39.7		3	675
1992 UQ2		1992 10	24.36198	01 24	51.78	-10 58	12.5		3	675
1992 UQ2		1992 10	25.27361	01 23	33.50	-10 44	25.4		3	675
1992 UQ2		1992 10	25.31076	01 23	30.10	-10 43	52.4		3	675
1992 UR2	*	1992 10	20.27587	01 34	37.66	-10 45	17.0	17.0	3	675
1992 UR2		1992 10	20.31111	01 34	34.36	-10 45	02.4		3	675
1992 UR2		1992 10	24.36198	01 28	32.25	-10 15	17.9		3	675
2140 P-L	*	1960 09	24.42500	00 56	26.11	+11 17	38.1	16.3	4	675
2140 P-L		1960 09	24.45000	00 56	24.61	+11 17	40.0		4	675
2140 P-L		1960 09	26.34653	00 54	37.75	+11 21	01.6		4	675
2140 P-L		1960 09	26.37010	00 54	36.36	+11 21	03.6		4	675
2140 P-L		1960 09	28.42778	00 52	37.08	+11 24	07.5		4	675

2140	P-L		1960	09	28.45140	00	52	35.62	+11	24	10.5		4	675
2140	P-L		1960	09	29.42083	00	51	38.75	+11	25	24.9		4	675
2140	P-L		1960	09	29.44510	00	51	37.30	+11	25	27.3		4	675
2140	P-L		1960	10	22.12083	00	30	12.87	+11	30	03.2		4	675
2140	P-L		1960	10	24.30972	00	28	32.35	+11	29	19.0		4	675
2140	P-L		1960	10	26.37951	00	27	04.46	+11	28	39.8		4	675
2508	P-L	*	1960	09	24.46184	00	58	03.20	+05	25	15.9	17.3	4	675
2508	P-L		1960	09	26.37988	00	56	19.91	+05	29	29.8		4	675
2508	P-L		1960	09	28.43822	00	54	24.67	+05	33	45.5		4	675
2508	P-L		1960	09	29.39514	00	53	30.38	+05	35	39.0		4	675
2508	P-L		1960	10	17.30420	00	36	40.07	+06	06	40.2		4	675
2508	P-L		1960	10	22.27920	00	32	52.78	+06	16	21.9		4	675
2508	P-L		1960	10	25.37570	00	30	53.06	+06	23	16.9		4	675
2508	P-L		1960	10	26.36840	00	30	18.81	+06	25	40.1		4	675
4186	P-L	*	1960	09	24.37573	00	20	28.07	+04	15	25.8	19.0	4	675
4186	P-L		1960	09	24.41183	00	20	26.24	+04	15	10.8		4	675
4186	P-L		1960	09	25.42780	00	19	35.63	+04	08	29.1		4	675
4186	P-L		1960	09	26.30558	00	18	52.39	+04	02	40.6		4	675
4186	P-L		1960	09	26.31530	00	18	51.85	+04	02	35.4		4	675
4186	P-L		1960	09	27.40836	00	17	57.31	+03	55	19.7		4	675
4186	P-L		1960	09	28.32780	00	17	11.97	+03	49	12.1		4	675
4186	P-L		1960	09	28.39725	00	17	08.40	+03	48	44.2		4	675
4186	P-L		1960	10	17.27085	00	03	36.01	+01	52	27.3		4	675
4186	P-L		1960	10	22.22293	00	01	11.60	+01	28	50.7		4	675
4186	P-L		1960	10	26.32573	23	59	41.37	+01	12	32.2		4	675
4631	P-L	*	1960	09	24.41183	00	17	07.65	-00	47	23.2	18.3	4	675
4631	P-L		1960	09	26.28543	00	15	11.48	-00	53	27.7		4	675
4631	P-L		1960	09	27.34237	00	14	05.78	-00	56	50.0		4	675
4631	P-L		1960	09	27.40836	00	14	01.64	-00	57	03.2		4	675
4631	P-L		1960	09	28.33822	00	13	04.12	-00	59	59.0		4	675
4631	P-L		1960	10	17.28198	23	55	25.71	-01	45	12.3		4	675
4631	P-L		1960	10	22.15559	23	51	58.13	-01	50	09.0		4	675
4631	P-L		1960	10	22.23406	23	51	54.92	-01	50	13.3		4	675
4631	P-L		1960	10	24.18787	23	50	42.11	-01	51	12.2		4	675
4631	P-L		1960	10	25.25350	23	50	04.82	-01	51	33.3		4	675
4631	P-L		1960	10	26.26113	23	49	31.40	-01	51	40.0		4	675
4820	P-L	*	1960	09	24.41183	00	32	37.70	-01	05	48.5	19.0	4	675
4820	P-L		1960	09	26.31530	00	31	03.89	-01	10	54.0		4	675
4820	P-L		1960	09	27.40836	00	30	09.55	-01	13	46.6		4	675
4820	P-L		1960	09	28.39725	00	29	20.38	-01	16	21.8		4	675
4820	P-L		1960	10	22.23406	00	11	02.79	-02	00	52.2		4	675
4820	P-L		1960	10	25.25350	00	09	12.23	-02	02	49.9		4	675
4820	P-L		1960	10	26.31531	00	08	35.61	-02	03	17.4		4	675
6074	P-L	*	1960	09	24.33613	00	04	43.79	+01	00	34.3	18.5	4	675
6074	P-L		1960	09	25.32502	00	03	47.92	+00	55	06.1		4	675
6074	P-L		1960	09	26.27573	00	02	54.72	+00	49	49.7		4	675
6074	P-L		1960	09	28.32780	00	01	00.73	+00	38	35.4		4	675
6074	P-L		1960	10	17.21390	23	47	09.88	-00	43	53.7		4	675
6074	P-L		1960	10	22.15559	23	45	09.39	-00	55	43.5		4	675
6074	P-L		1960	10	24.18787	23	44	34.01	-00	59	08.1		4	675
6074	P-L		1960	10	26.26113	23	44	06.46	-01	01	42.2		4	675
6761	P-L	*	1960	09	24.35002	00	06	05.99	-00	53	07.3	18.6	4	675
6761	P-L		1960	09	26.28543	00	04	46.00	-01	06	57.7		4	675
6761	P-L		1960	09	27.34237	00	04	02.36	-01	14	29.6		4	675
6761	P-L		1960	09	28.33822	00	03	21.33	-01	21	33.0		4	675
6761	P-L		1960	10	17.28198	23	51	43.24	-03	22	52.5		4	675
6761	P-L		1960	10	22.16324	23	49	25.70	-03	47	54.4		4	675
6761	P-L		1960	10	26.27157	23	47	48.68	-04	06	19.7		4	675
7063	P-L		1992	08	05.43247	22	44	21.06	+01	26	29.3	17.4	3	675

7063	P-L	1992	08	05.47188	22	44	19.79	+01	26	30.7		3	675	
1105	T-1	1971	03	24.38924	12	06	06.45	-01	39	02.4		4	675	
1105	T-1	1971	03	25.27326	12	05	25.21	-01	32	00.8		4	675	
1105	T-1	*	1971	03	25.31562	12	05	23.33	-01	31	39.9	18.4	4	675
1105	T-1		1971	03	26.26771	12	04	39.18	-01	24	06.5		4	675
1105	T-1		1971	03	27.31181	12	03	50.71	-01	15	51.2		4	675
1105	T-1		1971	03	27.32500	12	03	50.16	-01	15	45.8		4	675
1105	T-1		1971	04	02.41285	11	59	17.35	-00	28	29.8		4	675
1105	T-1		1971	04	16.16458	11	50	47.06	+01	05	26.8		4	675
1105	T-1		1971	04	16.25069	11	50	44.37	+01	05	57.6		4	675
1105	T-1		1971	05	13.17535	11	45	32.73	+02	42	18.2		4	675
1240	T-1		1971	03	24.38924	12	16	46.98	-02	17	05.9		4	675
1240	T-1		1971	03	25.27326	12	16	00.85	-02	14	11.8		4	675
1240	T-1	*	1971	03	25.31562	12	15	58.61	-02	14	03.1	18.4	4	675
1240	T-1		1971	03	26.26771	12	15	09.13	-02	10	59.7		4	675
1240	T-1		1971	03	27.32500	12	14	13.78	-02	07	31.4		4	675
1240	T-1		1971	04	02.40000	12	08	59.64	-01	47	54.9		4	675
1240	T-1		1971	04	16.18087	11	58	11.76	-01	08	40.2		4	675
1240	T-1		1971	04	16.26458	11	58	08.09	-01	08	28.2		4	675
1240	T-1		1971	05	13.18941	11	46	02.56	-00	39	06.0		4	675
1240	T-1		1971	05	14.21962	11	45	52.50	-00	39	36.2		4	675
2127	T-1		1971	03	24.37118	12	07	30.80	+01	51	04.6		4	675
2127	T-1		1971	03	25.24340	12	06	37.74	+01	57	00.2		4	675
2127	T-1	*	1971	03	25.28715	12	06	35.05	+01	57	18.9	18.2	4	675
2127	T-1		1971	03	26.25208	12	05	35.90	+02	03	47.8		4	675
2127	T-1		1971	03	27.31181	12	04	31.30	+02	10	52.5		4	675
2127	T-1		1971	04	02.41285	11	58	29.26	+02	49	45.7		4	675
2190	T-1		1971	03	24.37118	12	12	29.16	+03	34	34.8		4	675
2190	T-1		1971	03	25.24340	12	11	40.65	+03	38	06.9		4	675
2190	T-1	*	1971	03	25.28715	12	11	38.18	+03	38	16.9	18.9	4	675
2190	T-1		1971	03	26.25208	12	10	44.36	+03	42	05.9		4	675
2190	T-1		1971	03	27.31181	12	09	45.24	+03	46	10.2		4	675
2190	T-1		1971	04	02.41285	12	04	14.72	+04	07	38.0		4	675
2190	T-1		1971	04	16.16458	11	53	43.94	+04	38	41.1		4	675
2190	T-1		1971	04	16.25069	11	53	40.62	+04	38	48.4		4	675
2213	T-1		1971	03	24.37118	12	14	40.24	-01	01	23.4		4	675
2213	T-1		1971	03	25.24340	12	13	59.17	-00	58	44.4		4	675
2213	T-1	*	1971	03	25.28715	12	13	56.93	-00	58	36.4	18.3	4	675
2213	T-1		1971	03	26.25208	12	13	11.36	-00	55	43.2		4	675
2213	T-1		1971	03	27.31181	12	12	21.11	-00	52	29.7		4	675
2213	T-1		1971	04	02.41285	12	07	35.61	-00	34	31.3		4	675
2213	T-1		1971	04	16.16458	11	57	52.40	-00	00	00.8		4	675
2213	T-1		1971	04	16.25069	11	57	49.08	+00	00	09.9		4	675
2213	T-1		1971	05	13.18941	11	47	01.34	+00	20	40.6		4	675
2213	T-1		1971	05	14.21962	11	46	52.76	+00	19	54.3		4	675
2245	T-1		1971	03	24.37118	12	17	39.68	+03	36	02.6		4	675
2245	T-1		1971	03	25.24340	12	16	50.83	+03	40	43.4		4	675
2245	T-1	*	1971	03	25.28715	12	16	48.36	+03	40	58.2	18.9	4	675
2245	T-1		1971	03	26.25208	12	15	54.14	+03	46	01.7		4	675
2245	T-1		1971	03	27.31181	12	14	54.66	+03	51	28.7		4	675
2245	T-1		1971	04	02.41285	12	09	21.01	+04	20	48.6		4	675
2251	T-1		1971	03	24.37118	12	17	56.70	-00	31	25.2		4	675
2251	T-1		1971	03	25.24340	12	17	12.46	-00	27	50.4		4	675
2251	T-1	*	1971	03	25.28715	12	17	10.22	-00	27	39.7	19.4	4	675
2251	T-1		1971	03	26.25208	12	16	20.47	-00	23	37.9		4	675
2251	T-1		1971	03	27.31181	12	15	26.43	-00	19	16.8		4	675
2251	T-1		1971	04	16.16458	12	00	10.81	+00	50	09.1		4	675
2251	T-1		1971	04	16.25069	12	00	07.51	+00	50	21.2		4	675
2251	T-1		1971	05	13.17535	11	50	58.29	+01	11	34.6		4	675

2251	T-1		1971 05 14.20694	11 50 57.35	+01 10 20.1		4	675
2289	T-1		1971 03 24.37118	12 20 16.17	+02 50 40.0		4	675
2289	T-1		1971 03 25.24340	12 19 27.26	+02 52 32.2		4	675
2289	T-1	*	1971 03 25.28715	12 19 24.75	+02 52 37.6	17.8	4	675
2289	T-1		1971 03 26.25208	12 18 30.41	+02 54 36.3		4	675
2289	T-1		1971 03 27.31181	12 17 30.55	+02 56 43.7		4	675
2289	T-1		1971 04 02.41285	12 11 52.99	+03 07 20.8		4	675
2289	T-1		1971 04 16.16458	12 00 47.21	+03 17 41.6		4	675
2289	T-1		1971 04 16.25069	12 00 43.31	+03 17 40.2		4	675
2289	T-1		1971 05 13.17535	11 50 45.58	+02 27 18.9		4	675
2289	T-1		1971 05 14.20694	11 50 44.28	+02 23 30.6		4	675
3099	T-1		1971 03 25.33090	12 26 37.47	-08 14 33.8		4	675
3099	T-1		1971 03 26.29653	12 25 34.95	-08 10 40.3		4	675
3099	T-1	*	1971 03 26.33611	12 25 32.29	-08 10 28.9	17.6	4	675
3099	T-1		1971 03 27.33854	12 24 27.37	-08 06 18.6		4	675
3099	T-1		1971 04 16.18087	12 05 03.28	-06 38 47.0		4	675
3099	T-1		1971 04 16.26458	12 04 59.12	-06 38 25.0		4	675
3099	T-1		1971 05 13.18941	11 53 49.93	-05 30 02.8		4	675
3099	T-1		1971 05 14.21962	11 53 50.11	-05 29 31.9		4	675
3297	T-1		1971 03 24.42015	12 41 26.15	-03 55 14.2		4	675
3297	T-1		1971 03 25.33090	12 40 46.96	-03 50 16.4		4	675
3297	T-1		1971 03 26.29653	12 40 05.23	-03 44 59.4		4	675
3297	T-1	*	1971 03 26.33611	12 40 03.44	-03 44 46.8	17.7	4	675
3297	T-1		1971 03 27.33854	12 39 19.56	-03 39 14.5		4	675
3297	T-1		1971 04 02.42604	12 34 50.89	-03 05 24.3		4	675
3297	T-1		1971 04 16.22812	12 25 18.65	-01 53 20.7		4	675
3297	T-1		1971 04 16.30139	12 25 15.82	-01 52 58.6		4	675
3297	T-1		1971 05 13.20278	12 15 12.73	-00 33 07.3		4	675
3297	T-1		1971 05 14.23246	12 15 08.23	-00 32 14.0		4	675
3297	T-1		1971 05 16.29774	12 15 03.54	-00 30 57.2		4	675
4152	T-1		1971 03 24.40486	12 31 31.55	+03 34 14.0		4	675
4152	T-1		1971 03 26.31007	12 29 53.44	+03 52 45.7		4	675
4152	T-1	*	1971 03 26.34896	12 29 51.34	+03 53 08.7	18.1	4	675
4152	T-1		1971 03 27.35208	12 28 59.41	+04 02 41.1		4	675
4318	T-1		1971 03 24.40486	12 40 46.05	+01 57 03.9		4	675
4318	T-1		1971 03 26.31007	12 39 07.76	+02 05 59.0		4	675
4318	T-1	*	1971 03 26.34896	12 39 05.74	+02 06 09.1	19.1	4	675
4318	T-1		1971 03 27.35208	12 38 13.48	+02 10 46.9		4	675
4393	T-1		1971 03 24.40486	12 45 58.69	-00 48 47.9		4	675
4393	T-1		1971 03 26.31007	12 44 35.25	-00 39 19.3		4	675
4393	T-1	*	1971 03 26.34896	12 44 33.42	-00 39 07.1	18.3	4	675
4393	T-1		1971 03 27.35208	12 43 49.18	-00 34 11.4		4	675
4393	T-1		1971 04 02.43993	12 39 14.93	-00 04 26.2		4	675
4393	T-1		1971 04 16.21476	12 29 24.48	+00 54 21.7		4	675
4393	T-1		1971 04 16.27708	12 29 21.93	+00 54 35.2		4	675
4843	T-1		1971 04 16.21476	12 32 56.97	+00 11 06.4	19.5	4	675
4843	T-1		1971 04 16.27708	12 32 54.11	+00 11 13.3	19.5	4	675
4843	T-1	*	1971 05 13.20278	12 20 04.42	+00 19 30.8	19.5	4	675
4843	T-1		1971 05 14.23246	12 19 53.28	+00 17 51.3	19.5	4	675
4843	T-1		1971 05 16.29774	12 19 35.41	+00 14 09.4	19.5	4	675
1203	T-2		1973 09 19.18611	00 19 27.89	+01 55 14.5		4	675
1203	T-2		1973 09 19.23785	00 19 25.74	+01 54 59.1		4	675
1203	T-2		1973 09 20.22847	00 18 44.21	+01 50 00.8		4	675
1203	T-2		1973 09 24.34688	00 15 49.02	+01 29 05.5		4	675
1203	T-2		1973 09 24.41597	00 15 45.93	+01 28 45.4		4	675
1203	T-2		1973 09 25.24375	00 15 10.51	+01 24 30.9		4	675
1203	T-2		1973 09 25.30729	00 15 07.77	+01 24 13.7		4	675
1203	T-2	*	1973 09 29.25330	00 12 19.09	+01 04 06.3	19.2	4	675
1203	T-2		1973 09 29.31806	00 12 16.26	+01 03 45.5		4	675

1203	T-2	1973	09	30.21007	00	11	38.34	+00	59	15.2	4	675		
1203	T-2	1973	09	30.27431	00	11	35.56	+00	58	56.5	4	675		
1203	T-2	1973	10	04.28958	00	08	47.03	+00	38	51.8	4	675		
1203	T-2	1973	10	04.35208	00	08	44.30	+00	38	34.5	4	675		
1203	T-2	1973	10	05.31684	00	08	04.63	+00	33	47.7	4	675		
1203	T-2	1973	10	05.37917	00	08	02.03	+00	33	31.0	4	675		
1282	T-2	1973	09	19.18611	00	25	43.14	+04	39	08.2	4	675		
1282	T-2	1973	09	19.19948	00	25	42.47	+04	39	06.2	4	675		
1282	T-2	1973	09	19.23785	00	25	40.62	+04	38	53.5	4	675		
1282	T-2	1973	09	19.25006	00	25	40.14	+04	38	51.4	4	675		
1282	T-2	1973	09	20.22847	00	24	55.37	+04	33	58.9	4	675		
1282	T-2	1973	09	24.34688	00	21	42.92	+04	12	58.6	4	675		
1282	T-2	1973	09	24.41597	00	21	39.60	+04	12	38.0	4	675		
1282	T-2	1973	09	25.24375	00	21	00.68	+04	08	15.3	4	675		
1282	T-2	1973	09	25.30729	00	20	57.49	+04	07	57.4	4	675		
1282	T-2	*	1973	09	29.25330	00	17	49.68	+03	46	57.9	17.6	4	675
1282	T-2		1973	09	29.31806	00	17	46.44	+03	46	36.6	4	675	
1282	T-2		1973	09	30.21007	00	17	04.26	+03	41	50.5	4	675	
1282	T-2		1973	09	30.27431	00	17	01.11	+03	41	28.5	4	675	
1282	T-2		1973	10	04.28958	00	13	52.26	+03	19	53.7	4	675	
1282	T-2		1973	10	04.35208	00	13	49.25	+03	19	33.6	4	675	
1282	T-2		1973	10	05.31684	00	13	04.77	+03	14	25.3	4	675	
1282	T-2		1973	10	05.37917	00	13	01.76	+03	14	06.0	4	675	
2043	T-2	1973	09	19.19948	00	32	39.89	+04	02	47.0	4	675		
2043	T-2	1973	09	19.25006	00	32	37.65	+04	02	26.1	4	675		
2043	T-2	1973	09	20.26458	00	31	53.08	+03	55	11.4	4	675		
2043	T-2	1973	09	24.36181	00	28	47.97	+03	25	19.3	4	675		
2043	T-2	1973	09	24.42847	00	28	44.82	+03	24	48.4	4	675		
2043	T-2	1973	09	25.25642	00	28	06.99	+03	18	36.5	4	675		
2043	T-2	1973	09	25.32031	00	28	04.03	+03	18	08.9	4	675		
2043	T-2	1973	09	29.26632	00	25	00.10	+02	48	31.0	4	675		
2043	T-2	*	1973	09	29.33073	00	24	57.01	+02	48	02.2	18.4	4	675
2043	T-2		1973	09	30.22257	00	24	15.47	+02	41	17.5	4	675	
2043	T-2		1973	09	30.28785	00	24	12.29	+02	40	46.6	4	675	
2043	T-2		1973	10	04.30208	00	21	04.97	+02	10	29.0	4	675	
2043	T-2		1973	10	04.36476	00	21	01.97	+02	10	01.0	4	675	
2043	T-2		1973	10	05.32917	00	20	17.57	+02	02	48.8	4	675	
2043	T-2		1973	10	05.35382	00	20	16.15	+02	02	39.5	4	675	
2043	T-2		1973	10	05.39132	00	20	14.57	+02	02	19.3	4	675	
2043	T-2		1973	10	05.41597	00	20	13.19	+02	02	10.8	4	675	
2250	T-2	1973	09	19.19948	00	49	19.87	+04	16	37.1	4	675		
2250	T-2	1973	09	19.25006	00	49	17.62	+04	16	25.9	4	675		
2250	T-2	1973	09	20.26458	00	48	31.22	+04	12	41.2	4	675		
2250	T-2	1973	09	24.36181	00	45	16.81	+03	57	02.2	4	675		
2250	T-2	1973	09	24.42847	00	45	13.48	+03	56	46.3	4	675		
2250	T-2	1973	09	25.25642	00	44	33.33	+03	53	27.9	4	675		
2250	T-2	1973	09	25.32031	00	44	30.10	+03	53	12.7	4	675		
2250	T-2	1973	09	29.26632	00	41	13.83	+03	37	19.2	4	675		
2250	T-2	*	1973	09	29.33073	00	41	10.37	+03	37	04.0	19.2	4	675
2250	T-2		1973	09	30.22257	00	40	25.71	+03	33	22.9	4	675	
2250	T-2		1973	09	30.28785	00	40	22.26	+03	33	05.5	4	675	
2250	T-2		1973	10	04.30208	00	36	58.63	+03	16	39.3	4	675	
2250	T-2		1973	10	04.36476	00	36	55.40	+03	16	24.2	4	675	
2250	T-2		1973	10	05.32917	00	36	06.66	+03	12	25.3	4	675	
2250	T-2		1973	10	05.39132	00	36	03.47	+03	12	10.1	4	675	
2319	T-2	1973	09	29.26632	00	47	28.34	+07	25	37.2	4	675		
2319	T-2	*	1973	09	29.33073	00	47	24.62	+07	25	10.7	17.3	4	675
2319	T-2		1973	09	30.22257	00	46	35.68	+07	18	26.0	4	675	
2319	T-2		1973	09	30.28785	00	46	31.88	+07	17	55.5	4	675	

2319	T-2	1973	10	04.30208	00	42	49.09	+06	47	13.0	4	675		
2319	T-2	1973	10	04.36476	00	42	45.36	+06	46	44.7	4	675		
2319	T-2	1973	10	05.32917	00	41	52.07	+06	39	17.3	4	675		
2319	T-2	1973	10	05.39132	00	41	48.46	+06	38	47.4	4	675		
3011	T-2	1973	09	19.18611	00	08	32.19	-00	34	54.8	4	675		
3011	T-2	1973	09	19.21250	00	08	30.89	-00	34	55.5	4	675		
3011	T-2	1973	09	19.23785	00	08	29.59	-00	35	00.8	4	675		
3011	T-2	1973	09	19.26354	00	08	28.33	-00	35	02.1	4	675		
3011	T-2	1973	09	20.22847	00	07	40.77	-00	37	16.1	4	675		
3011	T-2	1973	09	20.27795	00	07	38.50	-00	37	25.2	4	675		
3011	T-2	1973	09	24.34688	00	04	16.73	-00	46	46.8	4	675		
3011	T-2	1973	09	24.37431	00	04	15.26	-00	46	48.2	4	675		
3011	T-2	1973	09	24.41597	00	04	13.15	-00	46	54.8	4	675		
3011	T-2	1973	09	24.44167	00	04	11.81	-00	46	56.8	4	675		
3011	T-2	1973	09	25.24375	00	03	32.38	-00	48	46.4	4	675		
3011	T-2	1973	09	25.26875	00	03	31.20	-00	48	50.6	4	675		
3011	T-2	1973	09	25.30729	00	03	29.20	-00	48	55.7	4	675		
3011	T-2	1973	09	25.33299	00	03	27.88	-00	48	59.2	4	675		
3011	T-2	1973	09	29.27986	00	00	14.38	-00	57	43.0	4	675		
3011	T-2	1973	09	30.23524	23	59	28.20	-00	59	45.4	4	675		
3011	T-2	*	1973	09	30.30174	23	59	24.88	-00	59	52.6	17.5	4	675
3011	T-2		1973	10	04.28958	23	56	16.60	-01	07	54.4	4	675	
3011	T-2		1973	10	04.31493	23	56	15.34	-01	07	57.3	4	675	
3011	T-2		1973	10	04.35208	23	56	13.69	-01	08	02.4	4	675	
3011	T-2		1973	10	04.37674	23	56	12.43	-01	08	04.6	4	675	
3011	T-2		1973	10	05.31684	23	55	29.42	-01	09	49.3	4	675	
3011	T-2		1973	10	05.34167	23	55	28.23	-01	09	52.1	4	675	
3011	T-2		1973	10	05.37917	23	55	26.50	-01	09	56.7	4	675	
3011	T-2		1973	10	05.40347	23	55	25.31	-01	09	59.2	4	675	
3199	T-2	1973	09	20.27795	00	21	29.82	-02	43	33.6	4	675		
3199	T-2	1973	09	25.26875	00	17	46.92	-03	02	25.8	4	675		
3199	T-2	1973	09	25.33299	00	17	43.96	-03	02	38.0	4	675		
3199	T-2	1973	09	29.34375	00	14	43.75	-03	17	12.4	4	675		
3199	T-2	1973	09	30.23524	00	14	03.85	-03	20	21.8	4	675		
3199	T-2	*	1973	09	30.30174	00	14	00.84	-03	20	35.8	19.8	4	675
3199	T-2		1973	10	04.31493	00	11	03.51	-03	34	10.3	4	675	
3199	T-2		1973	10	04.37674	00	11	00.87	-03	34	24.5	4	675	
3199	T-2		1973	10	05.34167	00	10	18.72	-03	37	26.8	4	675	
3199	T-2		1973	10	05.40347	00	10	16.17	-03	37	38.8	4	675	
3216	T-2	1973	09	19.21250	00	24	06.64	-01	05	28.2	4	675		
3216	T-2	1973	09	19.26354	00	24	04.49	-01	05	42.9	4	675		
3216	T-2	1973	09	20.27795	00	23	21.59	-01	10	37.5	4	675		
3216	T-2	1973	09	24.37431	00	20	25.47	-01	30	15.5	4	675		
3216	T-2	1973	09	24.38750	00	20	24.99	-01	30	16.4	4	675		
3216	T-2	1973	09	24.44167	00	20	22.56	-01	30	32.3	4	675		
3216	T-2	1973	09	24.45434	00	20	21.94	-01	30	36.4	4	675		
3216	T-2	1973	09	25.26875	00	19	46.92	-01	34	31.5	4	675		
3216	T-2	1973	09	25.33299	00	19	44.14	-01	34	49.7	4	675		
3216	T-2	1973	09	29.27986	00	16	52.96	-01	53	20.9	4	675		
3216	T-2	1973	09	29.34375	00	16	50.10	-01	53	41.1	4	675		
3216	T-2	1973	09	30.23524	00	16	11.84	-01	57	46.5	4	675		
3216	T-2	*	1973	09	30.30174	00	16	08.83	-01	58	06.0	19.7	4	675
3216	T-2		1973	10	04.31493	00	13	17.09	-02	16	06.8	4	675	
3216	T-2		1973	10	04.37674	00	13	14.45	-02	16	23.0	4	675	
3216	T-2		1973	10	05.34167	00	12	33.94	-02	20	33.3	4	675	
3216	T-2		1973	10	05.40347	00	12	31.25	-02	20	49.3	4	675	
3295	T-2	1973	09	19.22500	00	30	21.93	-01	45	07.7	4	675		
3295	T-2	1973	09	19.27865	00	30	19.54	-01	45	37.6	4	675		
3295	T-2	1973	09	20.30278	00	29	34.32	-01	55	32.2	4	675		

3295	T-2		1973	09	24.38750	00	26	28.88	-02	34	49.6		4	675
3295	T-2		1973	09	24.45434	00	26	25.65	-02	35	28.4		4	675
3295	T-2		1973	09	25.28125	00	25	47.72	-02	43	21.0		4	675
3295	T-2		1973	09	25.34601	00	25	44.57	-02	43	56.5		4	675
3295	T-2		1973	09	29.27986	00	22	41.18	-03	20	44.1		4	675
3295	T-2		1973	09	29.29219	00	22	40.83	-03	20	51.7		4	675
3295	T-2		1973	09	29.34375	00	22	37.96	-03	21	19.7		4	675
3295	T-2		1973	09	29.35694	00	22	37.55	-03	21	27.7		4	675
3295	T-2		1973	09	30.23524	00	21	56.86	-03	29	29.3		4	675
3295	T-2		1973	09	30.24826	00	21	56.29	-03	29	32.2		4	675
3295	T-2	*	1973	09	30.30174	00	21	53.54	-03	30	04.2	17.9	4	675
3295	T-2		1973	09	30.31476	00	21	53.10	-03	30	08.8		4	675
3295	T-2		1973	10	04.31493	00	18	49.80	-04	05	13.2		4	675
3295	T-2		1973	10	04.32708	00	18	49.40	-04	05	18.6		4	675
3295	T-2		1973	10	04.37674	00	18	46.94	-04	05	44.3		4	675
3295	T-2		1973	10	04.38889	00	18	46.51	-04	05	50.0		4	675
3295	T-2		1973	10	05.34167	00	18	03.99	-04	13	49.3		4	675
3295	T-2		1973	10	05.35382	00	18	03.38	-04	13	53.1		4	675
3295	T-2		1973	10	05.40347	00	18	01.02	-04	14	20.2		4	675
3295	T-2		1973	10	05.41597	00	18	00.59	-04	14	24.6		4	675
3327	T-2		1973	09	19.21250	00	04	14.60	-05	02	48.4		4	675
3327	T-2		1973	09	19.26354	00	04	12.17	-05	03	03.6		4	675
3327	T-2		1973	09	20.27795	00	03	27.32	-05	07	53.0		4	675
3327	T-2		1973	09	24.37431	00	00	24.42	-05	26	55.2		4	675
3327	T-2		1973	09	24.44167	00	00	21.27	-05	27	13.8		4	675
3327	T-2	*	1973	09	25.26875	23	59	44.69	-05	30	59.5	18.0	4	675
3327	T-2		1973	09	25.33299	23	59	41.67	-05	31	16.7		4	675
3348	T-2		1973	09	19.21250	00	06	50.02	-05	10	56.6		4	675
3348	T-2		1973	09	19.26354	00	06	47.23	-05	11	05.8		4	675
3348	T-2		1973	09	20.27795	00	05	53.33	-05	14	13.1		4	675
3348	T-2		1973	09	24.37431	00	02	13.94	-05	26	23.8		4	675
3348	T-2		1973	09	24.44167	00	02	10.24	-05	26	34.3		4	675
3348	T-2	*	1973	09	25.26875	00	01	26.31	-05	28	57.3	18.9	4	675
3348	T-2		1973	09	25.33299	00	01	22.72	-05	29	08.4		4	675
4262	T-2		1973	09	24.45434	00	45	21.07	-01	33	51.2		4	675
4262	T-2	*	1973	09	29.29219	00	40	22.34	-02	03	05.9	19.7	4	675
4262	T-2		1973	09	29.35694	00	40	18.31	-02	03	27.4		4	675
4262	T-2		1973	09	30.24826	00	39	22.69	-02	08	43.1		4	675
4262	T-2		1973	09	30.31476	00	39	18.48	-02	09	04.5		4	675
4262	T-2		1973	10	04.32708	00	35	08.95	-02	31	43.0		4	675
4262	T-2		1973	10	04.38889	00	35	04.96	-02	32	03.1		4	675
4262	T-2		1973	10	05.35382	00	34	05.43	-02	37	13.8		4	675
4262	T-2		1973	10	05.41597	00	34	01.57	-02	37	33.2		4	675
4311	T-2	*	1973	09	29.29219	00	44	02.48	-00	17	43.6	19.3	4	675
4311	T-2		1973	09	29.35694	00	43	58.72	-00	18	12.4		4	675
4311	T-2		1973	09	30.24826	00	43	08.37	-00	24	37.5		4	675
4311	T-2		1973	09	30.31476	00	43	04.43	-00	25	06.8		4	675
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4311	T-2		1973	10	05.41597	00	38	14.46	-01	01	08.3		4	675
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1144	T-3		1977	10	11.33351	01	04	27.82	+16	44	12.3		4	675
1144	T-3		1977	10	12.26510	01	03	38.70	+16	41	33.4		4	675
1144	T-3		1977	10	12.33125	01	03	35.13	+16	41	22.5		4	675
1144	T-3		1977	10	16.25156	01	00	09.24	+16	29	18.4		4	675
1144	T-3		1977	10	16.31684	01	00	05.84	+16	29	06.1		4	675
1144	T-3	*	1977	10	17.25365	00	59	17.33	+16	25	59.1	18.5	4	675
1144	T-3		1977	10	17.32083	00	59	13.74	+16	25	46.7		4	675



1144 T-3	1977 10	22.42812	00 54	56.01	+16 07	56.4		4	675
1144 T-3	1977 10	22.48003	00 54	53.58	+16 07	42.4		4	675
1148 T-3	1977 10	07.24652	01 07	49.68	+19 05	28.8		4	675
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1148 T-3	1977 10	11.33351	01 04	33.86	+18 42	11.0		4	675
1148 T-3	1977 10	12.26510	01 03	49.52	+18 36	27.3		4	675
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1148 T-3	1977 10	16.25156	01 00	42.23	+18 10	32.6		4	675
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1148 T-3	* 1977 10	17.25365	00 59	56.41	+18 03	44.7	17.0	4	675
1148 T-3	1977 10	17.32083	00 59	53.14	+18 03	16.7		4	675
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3095 T-3	1977 10	12.28681	01 29	39.52	+07 13	37.5		4	675
3095 T-3	1977 10	12.35347	01 29	35.72	+07 13	23.3		4	675
3095 T-3	* 1977 10	16.27309	01 25	51.81	+06 59	33.7	18.4	4	675
3095 T-3	1977 10	16.33872	01 25	47.89	+06 59	19.1		4	675
3095 T-3	1977 10	17.27552	01 24	54.25	+06 56	03.8		4	675
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3095 T-3	1977 10	21.39792	01 20	58.98	+06 41	52.4		4	675
3095 T-3	1977 10	21.45799	01 20	55.42	+06 41	40.7		4	675
3095 T-3	1977 10	22.39844	01 20	02.58	+06 38	27.7		4	675
3095 T-3	1977 10	22.45920	01 19	59.16	+06 38	17.1		4	675
3175 T-3	1977 10	07.27031	01 28	21.18	+08 56	23.6		4	675
3175 T-3	1977 10	11.28819	01 25	06.02	+08 40	35.2		4	675
3175 T-3	1977 10	11.35642	01 25	02.67	+08 40	18.8		4	675
3175 T-3	1977 10	12.28681	01 24	16.98	+08 36	36.2		4	675
3175 T-3	1977 10	12.35347	01 24	13.71	+08 36	19.0		4	675
3175 T-3	* 1977 10	16.27309	01 21	00.19	+08 20	28.1	19.0	4	675
3175 T-3	1977 10	16.33872	01 20	56.83	+08 20	12.0		4	675
3175 T-3	1977 10	17.27552	01 20	10.65	+08 16	25.9		4	675
3175 T-3	1977 10	17.34236	01 20	07.16	+08 16	09.4		4	675
3175 T-3	1977 10	21.39792	01 16	49.67	+07 59	54.1		4	675
3175 T-3	1977 10	21.45799	01 16	46.73	+07 59	39.5		4	675
3175 T-3	1977 10	22.39844	01 16	01.76	+07 55	56.9		4	675
3175 T-3	1977 10	22.45920	01 15	58.96	+07 55	40.3		4	675
3196 T-3	1977 10	07.27031	01 29	00.61	+05 17	26.8		4	675
3196 T-3	1977 10	11.28819	01 25	08.26	+04 57	14.3		4	675
3196 T-3	1977 10	11.35642	01 25	04.25	+04 56	53.8		4	675
3196 T-3	1977 10	12.28681	01 24	10.28	+04 52	14.4		4	675
3196 T-3	1977 10	12.35347	01 24	06.28	+04 51	55.3		4	675
3196 T-3	* 1977 10	16.27309	01 20	19.61	+04 32	56.9	17.9	4	675
3196 T-3	1977 10	16.33872	01 20	15.70	+04 32	38.1		4	675
3196 T-3	1977 10	17.27552	01 19	22.21	+04 28	15.4		4	675
3196 T-3	1977 10	17.34236	01 19	18.15	+04 27	56.2		4	675
3196 T-3	1977 10	21.39792	01 15	31.55	+04 09	58.1		4	675
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3196 T-3	1977 10	22.39844	01 14	37.49	+04 05	47.7		4	675
3196 T-3	1977 10	22.45920	01 14	34.08	+04 05	31.7		4	675
(2049)	1992 09	30.28854	00 48	21.65	+14 34	43.9	17.2	3	675
(2049)	1992 09	30.32614	00 48	19.85	+14 33	38.1		3	675

689 U.S. Naval Observatory, Flagstaff Station  
 J. A. DeYoung, U.S. Naval Observatory, 3450 Massachusetts Avenue NW,  
 Washington, DC 20392-5420, U.S.A.  
 Observers J. R. Rohde, D. Pasco  
 Measurer J. A. DeYoung  
 1.55-m astrometric reflector + CCD  
 GSC

1992 QB1	1992 09 24.37682	23 59 22.62	-00 02 50.3	689
1992 QB1	1992 09 27.37038	23 59 08.96	-00 04 17.0	689

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

1935 SC	1992 10 03.21448	00 23 50.16	+06 46 57.1	15.5 V	691
1935 SC	1992 10 03.24331	00 23 48.36	+06 46 55.0		691
1935 SC	1992 10 03.27202	00 23 46.57	+06 46 53.2		691
1967 KB	1992 10 03.29949	00 51 40.54	+06 50 08.3	16.7 V	691
1967 KB	1992 10 03.32957	00 51 38.73	+06 50 00.2		691
1967 KB	1992 10 03.35846	00 51 36.96	+06 49 52.6		691
1969 TX5	1992 10 03.39728	01 32 06.82	+06 41 00.6		691
1969 TX5	1992 10 03.42697	01 32 05.19	+06 41 00.9	16.5 V	691
1969 TX5	1992 10 03.45620	01 32 03.65	+06 41 01.2		691
1974 QX1	1992 09 30.40065	01 05 50.03	+04 05 51.3		691
1974 QX1	1992 09 30.42570	01 05 48.73	+04 05 44.8	15.9 V	691
1974 QX1	1992 09 30.45232	01 05 47.39	+04 05 37.9		691
1976 QN	1992 10 01.36869	00 44 49.19	+04 48 09.5	17.5 V	691
1976 QN	1992 10 01.39748	00 44 47.36	+04 47 58.6		691
1976 QN	1992 10 01.42591	00 44 45.73	+04 47 47.6		691
1977 EG7	1992 09 29.39828	00 52 35.64	+03 33 40.3		691
1977 EG7	1992 09 29.42312	00 52 34.47	+03 33 27.3	16.3 V	691
1977 EG7	1992 09 29.44848	00 52 33.17	+03 33 11.6		691
1978 ON	1992 09 27.27181	23 12 37.66	-08 19 08.5		691
1978 ON	1992 09 27.28988	23 12 36.73	-08 19 09.7		691
1978 ON	1992 09 27.30789	23 12 35.91	-08 19 12.6	16.1 V	691
1978 ON	1992 09 28.12063	23 12 00.78	-08 21 19.2		691
1978 ON	1992 09 28.14126	23 11 59.88	-08 21 22.8	16.2 V	691
1978 ON	1992 09 28.16100	23 11 58.96	-08 21 25.3		691
1978 QA2	1992 10 02.30773	00 08 26.46	+01 12 48.2	16.2 V	691
1978 QA2	1992 10 02.33653	00 08 25.17	+01 12 33.6		691
1978 QA2	1992 10 02.36528	00 08 23.90	+01 12 19.0		691
1978 QA2	1992 10 04.27499	00 07 08.74	+00 56 16.5	16.2 V	691
1978 QA2	1992 10 04.28520	00 07 08.30	+00 56 11.2		691
1978 QA2	1992 10 04.29501	00 07 07.89	+00 56 06.4		691
1978 US5	1992 09 30.40095	01 06 15.75	+03 57 09.9		691
1978 US5	1992 09 30.42600	01 06 13.94	+03 57 13.6		691
1978 US5	1992 09 30.45260	01 06 12.05	+03 57 17.6	17.1 V	691
1981 EF48	1992 10 01.19632	23 43 55.66	-00 00 22.1		691
1981 EF48	1992 10 01.22171	23 43 54.66	-00 00 27.1		691
1981 EF48	1992 10 01.24922	23 43 53.70	-00 00 34.0	18.6 V	691
1981 FL	1992 04 27.20288	13 49 10.60	-03 14 38.6	17.0 V	691
1981 FL	1992 04 27.22881	13 49 09.43	-03 14 24.7		691
1981 FL	1992 04 27.25282	13 49 08.34	-03 14 12.1		691
1981 TJ3	1992 09 28.21891	22 59 50.37	-10 33 50.2	16.4 V	691
1981 TJ3	1992 09 28.24000	22 59 49.59	-10 33 54.9		691
1981 TJ3	1992 09 28.26105	22 59 48.80	-10 33 59.5		691
1981 UQ11	1992 09 30.46240	01 40 37.16	+04 10 12.0		691
1981 UQ11	1992 09 30.48645	01 40 36.01	+04 10 05.4	16.9 V	691
1981 UQ11	1992 09 30.50980	01 40 34.84	+04 09 59.3		691
1982 VD5	1992 09 30.12900	23 04 39.40	-01 01 51.5		691
1982 VD5	1992 09 30.15906	23 04 38.12	-01 02 04.7	17.9 V	691
1982 VD5	1992 09 30.18431	23 04 36.96	-01 02 15.4		691
1984 SF6	1992 02 09.33231	08 41 22.93	+19 50 26.4	18.4 V	691
1984 SF6	1992 02 09.35793	08 41 21.70	+19 50 31.8		691

1984 SF6	1992 02 09.38421	08 41 20.45	+19 50 37.4		691
1987 DM6	1992 09 30.20245	23 32 43.18	-01 18 53.2		691
1987 DM6	1992 09 30.22760	23 32 41.84	-01 19 02.5	18.3 V	691
1987 DM6	1992 09 30.25781	23 32 40.19	-01 19 16.8		691
1987 SM12	1992 09 23.17307	23 34 38.00	-02 11 39.9	17.0 V	691
1987 SM12	1992 09 23.19119	23 34 37.12	-02 11 44.3		691
1987 SM12	1992 09 23.20961	23 34 36.22	-02 11 49.8		691
1988 VH1	1992 09 25.40798	01 29 41.37	+16 09 49.8		691
1988 VH1	1992 09 25.43348	01 29 40.62	+16 09 44.4	16.2 V	691
1988 VH1	1992 09 25.46530	01 29 39.66	+16 09 37.8		691
1988 VV3	1992 10 03.38661	01 16 42.04	+06 38 12.0		691
1988 VV3	1992 10 03.41629	01 16 40.46	+06 38 04.3	16.3 V	691
1988 VV3	1992 10 03.44553	01 16 38.90	+06 37 57.0		691
1989 CL1	1992 10 01.38619	01 10 05.00	+04 41 02.3	18.0 V	691
1989 CL1	1992 10 01.41498	01 10 03.67	+04 40 55.0		691
1989 CL1	1992 10 01.44342	01 10 02.43	+04 40 47.5		691
1990 BF	1992 09 25.40854	01 30 30.32	+15 49 21.1	16.7 V	691
1990 BF	1992 09 25.43404	01 30 29.03	+15 49 18.2		691
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1990 EZ5	1992 09 30.30524	00 22 21.21	+02 38 26.4	17.5 V	691
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1990 SH28	1992 01 09.43824	08 26 11.87	+20 01 28.7		691
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1992 RM	1992 09 23.20000	23 47 20.24	-02 07 53.6		691
1992 RM	1992 09 23.21841	23 47 19.19	-02 07 56.5		691
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1992 RD1	1992 09 29.24341	00 07 09.16	+02 38 12.9	16.5 V	691
1992 RD1	1992 09 29.26631	00 07 07.82	+02 38 11.8		691
1992 RT2	1992 09 28.20673	22 41 54.17	-10 38 31.3	17.7 V	691
1992 RT2	1992 09 28.22782	22 41 53.47	-10 38 39.1		691
1992 RT2	1992 09 28.24889	22 41 52.86	-10 38 47.5		691
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1992 RW3	1992 10 04.25064	22 41 54.58	-07 03 19.3		691
1992 RW3	1992 10 04.26055	22 41 54.32	-07 03 20.7	19.2 V	691
1992 RG4	1992 09 24.16455	22 51 09.07	-09 01 13.9		691
1992 RG4	1992 09 24.18618	22 51 08.39	-09 01 25.6	17.8 V	691
1992 RG4	1992 09 24.21134	22 51 07.57	-09 01 39.5		691
1992 RT4	1992 09 25.17283	22 48 31.63	-09 09 00.0		691
1992 RT4	1992 09 25.20061	22 48 30.48	-09 09 08.4		691
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1992 RX4	1992 09 26.27304	22 52 00.97	-10 17 33.0		691
1992 RX4	1992 09 26.29136	22 52 00.35	-10 17 39.5		691
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1992 RY4	1992 10 04.24167	22 44 21.17	-07 09 24.1	18.6 V	691
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1992 SX	1992 10 04.32720	22 53 06.11	-08 28 12.5	21.5 V	691
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1992 SZ	1992 10 18.23225	23 23 21.07	+02 27 56.7	20.9 V	691
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1992 SN1	1992 10 03.33315	00 56 48.57	+06 55 17.5	15.5 V	691
1992 SN1	1992 10 03.36204	00 56 46.37	+06 55 25.2		691
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1992 SM2	1992 09 24.35807	00 23 16.50	-02 15 18.6		691
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1992 SM2	1992 09 25.36415	00 22 14.42	-02 17 08.0		691
1992 SM2	1992 09 25.38262	00 22 13.26	-02 17 09.8		691
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1992 SU2	1992 09 23.21004	23 35 14.21	-01 42 20.3		691
1992 SU2	1992 09 30.19889	23 27 34.73	-01 23 54.0		691
1992 SU2	1992 09 30.22404	23 27 32.99	-01 23 49.7		691
1992 SU2	1992 09 30.25425	23 27 31.20	-01 23 45.4	18.9 V	691
1992 SV2	* 1992 09 24.16220	22 47 45.43	-09 03 38.1	20.4 V	691
1992 SV2	1992 09 24.18383	22 47 44.47	-09 03 41.6		691
1992 SV2	1992 09 24.20898	22 47 43.38	-09 03 46.9		691
1992 SV2	1992 09 25.17181	22 47 03.44	-09 06 56.6		691
1992 SV2	1992 09 25.19960	22 47 02.25	-09 07 02.4	20.8 V	691
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1992 SW2	1992 09 24.20972	22 48 47.36	-08 51 21.2		691
1992 SW2	1992 09 25.17262	22 48 13.26	-08 57 20.7		691

1992 SW2		1992 09 25.20040	22 48 12.21	-08 57 30.5		691
1992 SW2		1992 09 25.22264	22 48 11.41	-08 57 38.8	19.7 V	691
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1992 SX2		1992 09 24.18507	22 49 31.87	-09 18 21.6		691
1992 SX2		1992 09 24.21022	22 49 30.60	-09 18 17.3	15.8 V	691
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1992 SX2		1992 09 25.22301	22 48 43.13	-09 15 25.9	15.9 V	691
1992 SY2	*	1992 09 24.16350	22 49 37.53	-09 02 29.2	19.5 V	691
1992 SY2		1992 09 24.18512	22 49 36.50	-09 02 33.6		691
1992 SY2		1992 09 24.21027	22 49 35.30	-09 02 38.7		691
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1992 SY2		1992 09 25.22309	22 48 50.34	-09 05 57.5		691
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1992 SZ2		1992 09 25.20100	22 49 03.77	-08 59 40.1		691
1992 SZ2		1992 09 25.22323	22 49 02.79	-08 59 40.5	18.7 V	691
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1992 SA3		1992 09 25.22340	22 49 17.44	-09 01 00.9	20.4 V	691
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1992 SB3		1992 09 24.21092	22 50 31.74	-09 09 57.4	19.5 V	691
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1992 SB3		1992 09 25.22381	22 49 52.38	-09 13 12.4		691
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1992 SC3		1992 09 25.20165	22 49 59.91	-09 16 38.1		691
1992 SC3		1992 09 25.22388	22 49 58.91	-09 16 38.5		691
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1992 SH3		1992 09 26.18521	22 52 52.38	-09 21 40.7	18.7 V	691
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1992 SH3		1992 09 26.22207	22 52 51.16	-09 21 52.2		691
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1992 SQ3		1992 09	24.21728	22 59	42.37	-09	05 22.1		691
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1992 SU3		1992 09	24.19296	23 00	55.30	-08	58 34.5		691
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1992 SW3		1992 09 29.31409	22 57 50.30	-09 30 49.5	18.8 V	691
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1992 SZ3		1992 09 25.23221	23 01 59.76	-09 05 43.2		691
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1992 SC4		1992 09 27.15546	23 04 02.70	-09 23 38.3		691



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1992 SF4		1992 09 27.18429	23 06 08.24	-09 34 05.3	19.4 V	691
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1992 SS4		1992 09	25.38428	00 25	01.72	-02 05	41.8		691
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1992 ST4		1992 09	25.38458	00 25	27.55	-02 21	17.5	20.0 V	691
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1992 SY4		1992 09 25.38505	00 26 08.10	-01 55 44.6		691
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1992 SZ4		1992 09 24.36882	00 28 21.18	-02 05 51.3		691
1992 SZ4		1992 09 25.34904	00 27 13.21	-02 07 31.7	18.5 V	691
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1992 SZ4		1992 09 25.38577	00 27 10.54	-02 07 35.4		691
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1992 SB5		1992 09 25.34949	00 27 52.83	-02 20 51.6	19.6 V	691
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1992 SC5		1992 09 25.36907	00 29 45.36	-02 14 05.6	19.4 V	691
1992 SC5		1992 09 25.38754	00 29 44.48	-02 14 10.2		691
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1992 SG5		1992 10 01.13854	22 51 17.38	-08 27 36.0		691
1992 SG5		1992 10 01.14784	22 51 16.94	-08 27 35.3		691
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1992 SB6	*	1992 09 26.18506	22 52 39.54	-09 26 15.0		691

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1992 SC6		1992 09 27.12923	22 52 25.69	-09 35 24.8	18.9 V	691
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1992 SY6		1992 09	27.19464	22 46	20.93	-09 59	03.3		691
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1992 SZ6		1992 09	27.21317	22 47	01.89	-09 55	56.8		691
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1992 SA7		1992 09	26.28930	22 49	02.00	-10 17	41.4		691
1992 SA7		1992 09	27.19581	22 48	25.70	-10 21	47.9		691
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1992 SA7		1992 09	28.21055	22 47	45.97	-10 26	15.2		691
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1992 SC7		1992 09	26.27130	22 49	30.17	-09 54	43.6		691



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1992 SG7		1992 09 27.21613	22 51 21.56	-10 14 24.1	17.8 V		691
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1992 SH7		1992 09 27.23524	22 52 26.62	-10 07 03.4			691
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1992 SJ7		1992 09 26.27425	22 53 46.23	-09 53 37.0	18.9 V		691
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1992 SM7		1992 09 26.29415	22 56 02.09	-10 18 05.4			691
1992 SM7		1992 09 27.20054	22 55 14.93	-10 14 46.6	19.2 V		691

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1992 SM7		1992 09 27.23716	22 55 12.93	-10 14 38.4		691
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1992 SQ7		1992 09 27.20169	22 56 55.24	-10 01 55.0	20.1 V	691
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1992 SQ7		1992 09 27.23832	22 56 53.53	-10 02 00.7		691
1992 SQ7		1992 09 28.27803	22 56 07.73	-10 04 36.7		691
1992 SQ7		1992 09 28.29987	22 56 06.69	-10 04 39.3	19.7 V	691
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1992 SU7		1992 09 28.31308	22 59 40.61	-10 00 11.5		691

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1992 SC8		1992 09	26.30060	23 05	20.96	-09 59	10.6		691
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1992 SK8		1992 09 27.24628	23 08 22.97	-10 11 42.1	18.8 V		691
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1992 SL8		1992 10 04.29430	00 06 05.92	+01 00 27.3			691
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1992 SP8		1992 09 27.15001	22 56 10.87	-09 37 35.3	19.2 V		691
1992 SP8		1992 09 27.17738	22 56 09.75	-09 37 43.3			691
1992 SP8		1992 09 28.27754	22 55 24.69	-09 42 41.5			691
1992 SP8		1992 09 28.29937	22 55 23.74	-09 42 47.4	19.6 V		691

1992 SP8		1992 09 28.31011	22 55 23.26	-09 42 50.6			691
1992 SQ8	*	1992 09 27.20200	22 57 21.63	-10 18 52.6	20.7 V		691
1992 SQ8		1992 09 27.22028	22 57 20.84	-10 18 56.2			691
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1992 SQ8		1992 09 28.21675	22 56 43.43	-10 22 07.6			691
1992 SQ8		1992 09 28.23784	22 56 42.63	-10 22 12.0	20.6 V		691
1992 SQ8		1992 09 28.25889	22 56 41.80	-10 22 15.8			691
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1992 SR8		1992 09 27.22617	23 05 51.30	-10 18 25.1			691
1992 SR8		1992 09 27.24452	23 05 50.65	-10 18 35.2			691
1992 SR8		1992 09 28.22271	23 05 19.32	-10 27 04.2	18.3 V		691
1992 SR8		1992 09 28.24380	23 05 18.59	-10 27 15.4			691
1992 SR8		1992 09 28.26485	23 05 17.94	-10 27 26.0			691
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1992 SS8		1992 09 27.28064	22 58 57.98	-07 54 39.8			691
1992 SS8		1992 09 27.29867	22 58 57.28	-07 54 42.3			691
1992 SS8		1992 10 04.30976	22 55 03.90	-08 11 04.6	17.7 V		691
1992 SS8		1992 10 04.32856	22 55 03.32	-08 11 06.7			691
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1992 ST8		1992 09 27.28088	22 59 37.05	-08 17 01.8	19.4 V		691
1992 ST8		1992 09 27.29889	22 59 36.42	-08 17 05.8			691
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1992 ST8		1992 10 04.34754	22 55 47.42	-08 40 25.9			691
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1992 SU8		1992 09 28.15555	23 04 07.29	-08 14 12.0	20.5 V		691
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1992 SV8		1992 09 28.13592	23 04 17.41	-08 03 10.3			691
1992 SV8		1992 09 28.15566	23 04 16.54	-08 03 14.9			691
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1992 SW8		1992 09 27.30317	23 05 46.58	-07 59 51.1			691
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1992 SW8		1992 09 28.13661	23 05 16.81	-07 59 28.7			691
1992 SW8		1992 09 28.15635	23 05 16.06	-07 59 27.7			691
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1992 SX8		1992 09 27.30401	23 06 59.08	-08 04 23.8			691
1992 SX8		1992 09 28.11666	23 06 17.02	-08 04 55.0			691
1992 SX8		1992 09 28.13729	23 06 15.98	-08 04 55.4			691
1992 SX8		1992 09 28.15703	23 06 14.89	-08 04 55.9	18.7 V		691
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1992 SY8		1992 09 28.15757	23 07 02.12	-08 18 45.2	20.4 V		691
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1992 SZ8		1992 09 28.11775	23 07 51.80	-08 10 22.5			691

1992 SZ8		1992 09 28.13839	23 07 51.07	-08 10 27.8	20.1 V	691
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1992 SA9		1992 09 28.15827	23 08 03.12	-08 06 07.6	19.9 V	691
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1992 SB9		1992 09 27.30534	23 08 54.68	-08 06 42.8		691
1992 SB9		1992 09 28.11813	23 08 24.35	-08 09 55.4	18.8 V	691
1992 SB9		1992 09 28.13877	23 08 23.73	-08 10 02.6		691
1992 SB9		1992 09 28.15850	23 08 22.85	-08 10 04.6		691
1992 SC9	*	1992 09 27.26939	23 09 07.80	-08 03 52.5		691
1992 SC9		1992 09 27.28746	23 09 07.13	-08 03 59.3	19.4 V	691
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1992 SC9		1992 09 28.11829	23 08 37.94	-08 09 03.7	19.8 V	691
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1992 SD9		1992 09 27.30645	23 10 30.81	-07 56 51.5		691
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1992 SD9		1992 09 28.15957	23 09 55.10	-07 58 51.7		691
1992 SE9	*	1992 09 27.27144	23 12 05.24	-08 18 51.4	20.1 V	691
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1992 SE9		1992 09 28.12031	23 11 33.14	-08 22 14.7	20.4 V	691
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1992 SE9		1992 09 28.16068	23 11 31.57	-08 22 24.5		691
1992 SF9	*	1992 09 27.27169	23 12 27.40	-07 59 16.0	18.9 V	691
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1992 SG9		1992 09 28.12175	23 13 38.44	-08 18 40.3	19.4 V	691
1992 SG9		1992 09 28.14239	23 13 37.82	-08 18 48.8		691
1992 SG9		1992 09 28.16213	23 13 37.21	-08 18 56.6		691
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1992 SH9		1992 09 27.30958	23 15 01.60	-07 56 53.6		691
1992 SH9		1992 09 28.12231	23 14 26.61	-08 01 44.6		691
1992 SH9		1992 09 28.14295	23 14 25.64	-08 01 51.4		691
1992 SH9		1992 09 28.16268	23 14 24.76	-08 01 59.2	19.6 V	691
1992 SJ9	*	1992 09 27.27359	23 15 11.34	-07 50 34.2	18.9 V	691
1992 SJ9		1992 09 27.29166	23 15 10.47	-07 50 37.7		691
1992 SJ9		1992 09 27.30967	23 15 09.63	-07 50 41.4		691
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1992 SJ9		1992 09 28.16276	23 14 31.32	-07 53 35.4	19.3 V	691
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1992 SK9		1992 09 28.12451	23 17 36.78	-08 07 13.8	19.2 V	691
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1992 SK9		1992 09 28.16487	23 17 34.63	-08 07 12.6		691
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1992 SL9		1992 09 27.29425	23 18 54.95	-07 56 03.0		691
1992 SL9		1992 09 27.31226	23 18 54.16	-07 56 08.7	19.8 V	691
1992 SL9		1992 09 28.12503	23 18 22.33	-08 00 28.5		691
1992 SL9		1992 09 28.14567	23 18 21.43	-08 00 35.3		691
1992 SL9		1992 09 28.16540	23 18 20.64	-08 00 41.7	20.4 V	691
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1992 SM9		1992 09 27.29444	23 19 11.81	-08 16 10.8	19.3 V	691
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1992 SM9		1992 09 28.12516	23 18 33.77	-08 17 55.0		691
1992 SM9		1992 09 28.14580	23 18 32.74	-08 17 58.7	19.7 V	691
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1992 SP9		1992 09 28.16653	23 19 58.57	-08 23 14.1		691
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1992 SQ9		1992 09 27.34151	00 11 51.27	+01 38 07.8	19.4 V	691
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1992 SQ9		1992 10 02.30775	00 08 28.13	+01 09 25.4	19.4 V	691
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1992 SQ9		1992 10 04.27500	00 07 09.48	+00 58 15.5	19.4 V	691
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1992 SS9		1992 09 27.34334	00 14 30.32	+01 28 17.8	19.3 V	691
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1992 ST9		1992 09 27.34380	00 15 10.08	+01 33 40.8		691

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1992 ST9		1992 09 28.19743	00 14 32.88	+01 22 07.6		691
1992 SU9	*	1992 09 27.32617	00 15 34.02	+01 30 55.9	19.2 V	691
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1992 SV9		1992 09 29.37068	00 14 04.47	+01 26 32.0	18.3 V	691
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1992 SW9		1992 09 28.40816	00 15 34.69	+01 24 06.2	19.6 V	691
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1992 SY9		1992 09 29.36518	00 17 00.73	+01 17 54.9		691
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1992 SY9		1992 09 29.38013	00 16 59.71	+01 17 49.2	20.6 V	691
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1992 SZ9		1992 09 27.36656	00 20 21.18	+01 16 00.0		691
1992 SZ9		1992 10 04.27901	00 12 56.38	+00 56 35.4		691
1992 SZ9		1992 10 04.28921	00 12 55.69	+00 56 33.9	17.7 V	691
1992 SZ9		1992 10 04.29902	00 12 55.03	+00 56 32.4		691
1992 SA10	*	1992 09 27.32966	00 20 36.38	+01 25 41.7	20.0 V	691
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1992 SA10		1992 09 27.36671	00 20 34.67	+01 25 30.9		691
1992 SA10		1992 09 28.18580	00 19 55.29	+01 21 37.2		691



1992 SA10		1992 09 28.19375	00 19 54.82	+01 21 34.9	19.9 V	691
1992 SA10		1992 09 28.20113	00 19 54.43	+01 21 32.3		691
1992 SA10		1992 09 28.41082	00 19 43.90	+01 20 35.8		691
1992 SA10		1992 09 28.41842	00 19 43.60	+01 20 31.7		691
1992 SA10		1992 10 02.31339	00 16 36.26	+01 02 08.8	20.1 V	691
1992 SA10		1992 10 02.34218	00 16 34.84	+01 02 00.9		691
1992 SA10		1992 10 02.37093	00 16 33.40	+01 01 52.3		691
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1992 SB10		1992 09 27.34777	00 20 53.26	+01 29 02.1	18.9 V	691
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1992 SC10		1992 09 27.34823	00 21 33.29	+01 30 54.5		691
1992 SC10		1992 09 27.36738	00 21 32.59	+01 30 48.6		691
1992 SC10		1992 09 28.18649	00 20 55.60	+01 26 32.0		691
1992 SC10		1992 09 28.19444	00 20 55.15	+01 26 28.9	20.3 V	691
1992 SC10		1992 09 28.20183	00 20 54.76	+01 26 26.0		691
1992 SC10		1992 09 28.40409	00 20 45.18	+01 25 23.2	20.1 V	691
1992 SC10		1992 09 28.41152	00 20 44.89	+01 25 21.0		691
1992 SC10		1992 09 28.41913	00 20 44.60	+01 25 18.6		691
1992 SC10		1992 09 29.36727	00 20 01.63	+01 20 21.4		691
1992 SC10		1992 09 29.37453	00 20 01.32	+01 20 19.3	19.6 V	691
1992 SC10		1992 09 29.38222	00 20 00.93	+01 20 16.8		691
1992 SD10	*	1992 09 27.33058	00 21 56.55	+01 12 57.1		691
1992 SD10		1992 09 27.34848	00 21 55.52	+01 12 55.6		691
1992 SD10		1992 09 27.36764	00 21 54.67	+01 12 53.1	21.4 V	691
1992 SD10		1992 10 02.31400	00 17 29.55	+01 06 12.6		691
1992 SD10		1992 10 02.34280	00 17 28.00	+01 06 10.7	21.3 V	691
1992 SD10		1992 10 02.37154	00 17 26.38	+01 06 08.1		691
1992 SE10	*	1992 09 27.33185	00 23 45.87	+01 38 14.2		691
1992 SE10		1992 09 27.34975	00 23 44.72	+01 38 10.4	20.8 V	691
1992 SE10		1992 09 27.36889	00 23 43.34	+01 38 04.7		691
1992 SE10		1992 09 29.36841	00 21 40.58	+01 29 07.7	20.4 V	691
1992 SE10		1992 09 29.37567	00 21 40.09	+01 29 05.1		691
1992 SE10		1992 09 29.38336	00 21 39.65	+01 29 03.4		691
1992 SF10	*	1992 09 27.33193	00 23 53.02	+01 39 21.5	19.0 V	691
1992 SF10		1992 09 27.34983	00 23 52.03	+01 39 18.9		691
1992 SF10		1992 09 27.36898	00 23 50.79	+01 39 16.2		691
1992 SF10		1992 09 28.40559	00 22 54.68	+01 36 38.5		691
1992 SF10		1992 09 28.41302	00 22 54.26	+01 36 37.0		691
1992 SF10		1992 09 28.42062	00 22 53.82	+01 36 36.3	19.0 V	691
1992 SG10	*	1992 09 27.33321	00 25 43.81	+01 32 29.8	18.5 V	691
1992 SG10		1992 09 27.35111	00 25 42.96	+01 32 25.1		691
1992 SG10		1992 09 27.37026	00 25 41.84	+01 32 20.2		691
1992 SG10		1992 10 02.31695	00 21 44.98	+01 11 02.1	18.4 V	691
1992 SG10		1992 10 02.34575	00 21 43.55	+01 10 55.1		691
1992 SG10		1992 10 02.37449	00 21 42.13	+01 10 47.5		691
1992 SH10	*	1992 09 27.33358	00 26 15.91	+01 34 00.9	18.4 V	691
1992 SH10		1992 09 27.35148	00 26 14.96	+01 33 55.9		691
1992 SH10		1992 09 27.37063	00 26 13.81	+01 33 50.8		691
1992 SH10		1992 10 02.31708	00 21 56.47	+01 11 01.3	18.3 V	691

1992 SH10		1992 10 02.34588	00 21 54.93	+01 10 53.6		691
1992 SH10		1992 10 02.37462	00 21 53.37	+01 10 45.8		691
1992 SJ10	*	1992 09 27.33447	00 27 32.94	+01 38 53.7		691
1992 SJ10		1992 09 27.35237	00 27 32.09	+01 38 46.3		691
1992 SJ10		1992 09 27.37152	00 27 31.10	+01 38 39.3	20.2 V	691
1992 SJ10		1992 10 02.31836	00 23 47.31	+01 07 44.7		691
1992 SJ10		1992 10 02.34716	00 23 45.96	+01 07 34.2	20.2 V	691
1992 SJ10		1992 10 02.37591	00 23 44.56	+01 07 23.2		691
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1992 SK10		1992 09 27.35243	00 27 37.34	+01 12 06.6	18.3 V	691
1992 SK10		1992 09 27.37158	00 27 36.09	+01 12 04.9		691
1992 SK10		1992 10 02.31764	00 22 44.55	+01 04 21.0		691
1992 SK10		1992 10 02.34643	00 22 42.80	+01 04 18.3	18.3 V	691
1992 SK10		1992 10 02.37517	00 22 41.07	+01 04 16.0		691
1992 SL10	*	1992 09 27.33698	00 31 10.41	+01 18 16.1		691
1992 SL10		1992 09 27.35488	00 31 09.51	+01 18 13.9	20.7 V	691
1992 SL10		1992 09 27.37403	00 31 08.54	+01 18 11.3		691
1992 SL10		1992 10 02.32063	00 27 03.70	+01 08 02.4		691
1992 SL10		1992 10 02.34943	00 27 02.22	+01 07 59.4		691
1992 SL10		1992 10 02.37817	00 27 00.74	+01 07 55.9	20.6 V	691
1992 SM10	*	1992 09 27.33732	00 31 40.38	+01 08 31.9	17.5 V	691
1992 SM10		1992 09 27.35522	00 31 39.20	+01 08 32.6		691
1992 SM10		1992 09 27.37437	00 31 37.99	+01 08 33.1		691
1992 SM10		1992 10 02.32012	00 26 19.53	+01 11 05.7		691
1992 SM10		1992 10 02.34891	00 26 17.57	+01 11 06.6	17.4 V	691
1992 SM10		1992 10 02.37765	00 26 15.65	+01 11 07.6		691
1992 SN10	*	1992 09 27.33748	00 31 53.56	+01 25 16.7		691
1992 SN10		1992 09 27.35538	00 31 52.87	+01 25 11.8		691
1992 SN10		1992 09 27.37453	00 31 52.19	+01 25 06.7	19.6 V	691
1992 SN10		1992 10 02.32181	00 28 46.28	+01 02 48.8	19.5 V	691
1992 SN10		1992 10 02.35062	00 28 45.15	+01 02 40.5		691
1992 SN10		1992 10 02.37936	00 28 44.02	+01 02 33.1		691
1992 SO10	*	1992 09 27.33776	00 32 18.00	+01 33 41.2	20.6 V	691
1992 SO10		1992 09 27.35566	00 32 17.00	+01 33 36.0		691
1992 SO10		1992 09 27.37481	00 32 15.97	+01 33 31.4		691
1992 SO10		1992 10 02.32105	00 27 40.36	+01 10 48.0	20.5 V	691
1992 SO10		1992 10 02.34985	00 27 38.68	+01 10 40.2		691
1992 SO10		1992 10 02.37859	00 27 36.96	+01 10 32.3		691
1992 SP10	*	1992 09 27.37999	00 41 51.49	+01 18 08.2	20.6 V	691
1992 SP10		1992 09 27.39808	00 41 50.60	+01 18 04.5		691
1992 SP10		1992 09 27.41597	00 41 49.75	+01 18 01.0		691
1992 SP10		1992 10 02.32821	00 38 00.58	+01 00 49.0	20.3 V	691
1992 SP10		1992 10 02.35701	00 37 59.14	+01 00 42.7		691
1992 SP10		1992 10 02.38576	00 37 57.73	+01 00 36.4		691
1992 SQ10	*	1992 09 27.38111	00 43 28.18	+01 35 39.7	20.8 V	691
1992 SQ10		1992 09 27.39919	00 43 27.00	+01 35 34.1		691
1992 SQ10		1992 09 27.41708	00 43 25.84	+01 35 29.4		691
1992 SQ10		1992 10 02.32834	00 38 12.08	+01 11 44.8	20.3 V	691
1992 SQ10		1992 10 02.35714	00 38 10.14	+01 11 35.9		691
1992 SQ10		1992 10 02.38588	00 38 08.24	+01 11 27.8		691
1992 SR10	*	1992 09 27.38111	00 43 28.64	+01 38 27.6	19.3 V	691
1992 SR10		1992 09 27.39920	00 43 27.82	+01 38 22.8		691
1992 SR10		1992 09 27.41709	00 43 27.03	+01 38 18.2		691
1992 SR10		1992 10 02.32943	00 39 45.71	+01 17 11.1	19.1 V	691
1992 SR10		1992 10 02.35823	00 39 44.37	+01 17 03.2		691
1992 SR10		1992 10 02.38697	00 39 43.05	+01 16 55.9		691
1992 SS10	*	1992 09 27.38153	00 44 04.94	+01 35 12.8		691
1992 SS10		1992 09 27.39962	00 44 03.97	+01 35 10.3	20.9 V	691
1992 SS10		1992 09 27.41751	00 44 03.00	+01 35 07.8		691

1992	SS10		1992	10	02.32950	00	39	52.41	+01	23	38.2	20.6	V	691
1992	SS10		1992	10	02.35830	00	39	50.91	+01	23	34.1			691
1992	SS10		1992	10	02.38705	00	39	49.41	+01	23	30.1			691
1992	ST10	*	1992	09	27.38230	00	45	11.23	+01	33	12.1	17.4	V	691
1992	ST10		1992	09	27.40039	00	45	10.11	+01	33	11.2			691
1992	ST10		1992	09	27.41827	00	45	08.94	+01	33	10.0			691
1992	ST10		1992	10	02.32967	00	40	06.44	+01	28	35.8	17.3	V	691
1992	ST10		1992	10	02.35846	00	40	04.62	+01	28	33.7			691
1992	ST10		1992	10	02.38720	00	40	02.81	+01	28	32.3			691
1992	SU10	*	1992	09	27.38383	00	47	23.95	+01	27	16.5	19.7	V	691
1992	SU10		1992	09	27.40192	00	47	23.17	+01	27	13.3			691
1992	SU10		1992	09	27.41981	00	47	22.35	+01	27	09.4			691
1992	SU10		1992	10	02.33215	00	43	42.07	+01	11	09.0	19.5	V	691
1992	SU10		1992	10	02.36095	00	43	40.73	+01	11	02.9			691
1992	SU10		1992	10	02.38970	00	43	39.40	+01	10	57.3			691
1992	SV10	*	1992	09	27.38446	00	48	18.45	+01	32	20.8			691
1992	SV10		1992	09	27.40255	00	48	17.39	+01	32	16.3	20.3	V	691
1992	SV10		1992	09	27.42043	00	48	16.31	+01	32	11.7			691
1992	SV10		1992	10	02.33200	00	43	28.60	+01	12	14.1			691
1992	SV10		1992	10	02.36079	00	43	26.83	+01	12	06.7	20.1	V	691
1992	SV10		1992	10	02.38954	00	43	25.09	+01	12	00.0			691
1992	SW10	*	1992	09	27.38453	00	48	24.60	+01	19	01.4			691
1992	SW10		1992	09	27.40262	00	48	23.51	+01	18	59.9	16.6	V	691
1992	SW10		1992	09	27.42050	00	48	22.43	+01	18	58.1			691
1992	SW10		1992	10	02.33199	00	43	27.82	+01	11	31.1	16.1	V	691
1992	SW10		1992	10	02.36078	00	43	26.00	+01	11	28.0			691
1992	SW10		1992	10	02.38952	00	43	24.20	+01	11	25.6			691
1992	SX10	*	1992	09	27.38456	00	48	27.02	+01	32	20.5			691
1992	SX10		1992	09	27.40265	00	48	25.99	+01	32	15.0	20.9	V	691
1992	SX10		1992	09	27.42053	00	48	24.88	+01	32	09.4			691
1992	SX10		1992	10	02.33215	00	43	41.56	+01	06	20.8			691
1992	SX10		1992	10	02.36094	00	43	39.83	+01	06	11.6	21.0	V	691
1992	SX10		1992	10	02.38969	00	43	38.09	+01	06	02.6			691
1992	SY10	*	1992	09	28.18210	00	14	35.28	+01	46	12.0	19.6	V	691
1992	SY10		1992	09	28.19005	00	14	35.03	+01	46	06.7			691
1992	SY10		1992	09	28.19744	00	14	34.74	+01	46	02.1			691
1992	SY10		1992	09	29.36330	00	13	46.66	+01	33	37.8			691
1992	SY10		1992	09	29.37057	00	13	46.33	+01	33	32.9	19.7	V	691
1992	SY10		1992	09	29.37827	00	13	46.04	+01	33	27.8			691
1992	SY10		1992	10	02.31005	00	11	47.15	+01	02	26.6			691
1992	SY10		1992	10	02.33885	00	11	45.96	+01	02	09.1			691
1992	SY10		1992	10	02.36760	00	11	44.74	+01	01	51.2	19.8	V	691
1992	SZ10	*	1992	09	28.18229	00	14	51.64	+01	41	20.3			691
1992	SZ10		1992	09	28.19024	00	14	51.24	+01	41	18.0	20.5	V	691
1992	SZ10		1992	09	28.19762	00	14	50.79	+01	41	16.8			691
1992	SZ10		1992	10	02.30944	00	10	54.76	+01	19	56.7	20.6	V	691
1992	SZ10		1992	10	02.33824	00	10	53.07	+01	19	48.0			691
1992	SZ10		1992	10	02.36698	00	10	51.36	+01	19	39.2			691
1992	SZ10		1992	10	04.27634	00	09	05.73	+01	10	05.9			691
1992	SZ10		1992	10	04.28655	00	09	05.09	+01	10	02.8			691
1992	SZ10		1992	10	04.29636	00	09	04.53	+01	09	59.9	20.8	V	691
1992	SA11	*	1992	09	28.18243	00	15	03.83	+01	40	15.3	19.7	V	691
1992	SA11		1992	09	28.19038	00	15	03.45	+01	40	13.2			691
1992	SA11		1992	09	28.19777	00	15	03.07	+01	40	12.1			691
1992	SA11		1992	10	02.30986	00	11	30.49	+01	22	28.5	19.9	V	691
1992	SA11		1992	10	02.33865	00	11	29.00	+01	22	21.3			691
1992	SA11		1992	10	02.36740	00	11	27.46	+01	22	14.3			691
1992	SA11		1992	10	04.27687	00	09	51.41	+01	14	13.8			691
1992	SA11		1992	10	04.28708	00	09	50.86	+01	14	11.1	19.8	V	691

1992 SA11		1992 10	04.29689	00 09	50.37	+01 14	08.9		691
1992 SB11	*	1992 09	28.18307	00 15	59.12	+01 32	28.5	20.0 V	691
1992 SB11		1992 09	28.19102	00 15	58.77	+01 32	23.5		691
1992 SB11		1992 09	28.19840	00 15	58.41	+01 32	19.9		691
1992 SB11		1992 09	29.36384	00 15	04.62	+01 20	11.1	20.0 V	691
1992 SB11		1992 09	29.37110	00 15	04.25	+01 20	06.8		691
1992 SB11		1992 09	29.37880	00 15	03.89	+01 20	01.3		691
1992 SC11	*	1992 09	28.18334	00 16	22.01	+01 42	49.9	20.1 V	691
1992 SC11		1992 09	28.19128	00 16	21.62	+01 42	47.0		691
1992 SC11		1992 09	28.19867	00 16	21.25	+01 42	44.9		691
1992 SC11		1992 09	28.40095	00 16	11.08	+01 41	33.3	20.2 V	691
1992 SC11		1992 09	28.40837	00 16	10.75	+01 41	30.8		691
1992 SC11		1992 09	28.41599	00 16	10.33	+01 41	27.9		691
1992 SC11		1992 10	02.31093	00 13	03.47	+01 18	51.0	20.1 V	691
1992 SC11		1992 10	02.33973	00 13	02.06	+01 18	41.3		691
1992 SC11		1992 10	02.36847	00 13	00.64	+01 18	32.1		691
1992 SC11		1992 10	04.27802	00 11	30.82	+01 07	37.8		691
1992 SC11		1992 10	04.28822	00 11	30.30	+01 07	34.0		691
1992 SC11		1992 10	04.29804	00 11	29.85	+01 07	30.8	20.3 V	691
1992 SD11	*	1992 09	28.18477	00 18	26.09	+01 40	29.8		691
1992 SD11		1992 09	28.19272	00 18	25.55	+01 40	29.8		691
1992 SD11		1992 09	28.20010	00 18	25.10	+01 40	29.0	19.9 V	691
1992 SD11		1992 09	28.40235	00 18	13.73	+01 40	24.7	19.9 V	691
1992 SD11		1992 09	28.40977	00 18	13.36	+01 40	24.5		691
1992 SD11		1992 09	28.41738	00 18	12.90	+01 40	24.5		691
1992 SD11		1992 09	29.36541	00 17	21.15	+01 40	03.3		691
1992 SD11		1992 09	29.37268	00 17	20.72	+01 40	02.7	19.7 V	691
1992 SD11		1992 09	29.38037	00 17	20.23	+01 40	02.4		691
1992 SE11	*	1992 09	28.18493	00 18	40.10	+01 39	30.7	20.7 V	691
1992 SE11		1992 09	28.19288	00 18	39.57	+01 39	27.5		691
1992 SE11		1992 09	28.20026	00 18	39.17	+01 39	23.5		691
1992 SE11		1992 09	28.40251	00 18	27.91	+01 37	54.7		691
1992 SE11		1992 09	28.40994	00 18	27.53	+01 37	51.2		691
1992 SE11		1992 09	28.41754	00 18	27.12	+01 37	48.6	20.8 V	691
1992 SE11		1992 10	02.31229	00 15	01.56	+01 09	29.5		691
1992 SE11		1992 10	02.34109	00 15	00.05	+01 09	16.8	21.1 V	691
1992 SE11		1992 10	02.36983	00 14	58.29	+01 09	06.6		691
1992 SF11	*	1992 09	28.18531	00 19	13.19	+01 44	41.5		691
1992 SF11		1992 09	28.19326	00 19	12.78	+01 44	39.1	19.0 V	691
1992 SF11		1992 09	28.20064	00 19	12.41	+01 44	36.7		691
1992 SF11		1992 09	28.40292	00 19	03.51	+01 43	35.8		691
1992 SF11		1992 09	28.41035	00 19	03.19	+01 43	33.3		691
1992 SF11		1992 09	28.41795	00 19	02.85	+01 43	31.2	18.9 V	691
1992 SF11		1992 09	29.36612	00 18	22.03	+01 38	44.2	19.0 V	691
1992 SF11		1992 09	29.37338	00 18	21.71	+01 38	42.0		691
1992 SF11		1992 09	29.38108	00 18	21.36	+01 38	40.0		691
1992 SF11		1992 10	02.31315	00 16	15.52	+01 23	55.4		691
1992 SF11		1992 10	02.34195	00 16	14.29	+01 23	47.0	18.9 V	691
1992 SF11		1992 10	02.37069	00 16	13.03	+01 23	38.2		691
1992 SG11	*	1992 09	28.18573	00 19	49.46	+01 20	00.5		691
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1992 SG11		1992 09	29.36651	00 18	55.62	+01 14	50.2	19.7 V	691
1992 SG11		1992 09	29.37377	00 18	55.26	+01 14	48.3		691
1992 SG11		1992 09	29.38146	00 18	54.86	+01 14	46.5		691
1992 SG11		1992 10	02.31347	00 16	43.49	+01 02	04.8		691
1992 SG11		1992 10	02.34227	00 16	42.16	+01 01	57.4		691
1992 SG11		1992 10	02.37101	00 16	40.82	+01 01	50.0	19.5 V	691
1992 SH11	*	1992 09	28.18602	00 20	15.00	+01 41	55.0	19.1 V	691

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1992 SH11		1992 09 28.20136	00 20 14.04	+01 41 48.6		691
1992 SH11		1992 09 28.40360	00 20 02.22	+01 40 26.5	19.3 V	691
1992 SH11		1992 09 28.41103	00 20 01.79	+01 40 23.6		691
1992 SH11		1992 09 28.41863	00 20 01.38	+01 40 20.6		691
1992 SH11		1992 09 29.36666	00 19 08.80	+01 33 56.9	19.2 V	691
1992 SH11		1992 09 29.37392	00 19 08.38	+01 33 54.0		691
1992 SH11		1992 09 29.38161	00 19 07.93	+01 33 51.1		691
1992 SH11		1992 10 02.31328	00 16 27.22	+01 14 19.5		691
1992 SH11		1992 10 02.34208	00 16 25.61	+01 14 08.6	19.3 V	691
1992 SH11		1992 10 02.37082	00 16 23.94	+01 13 57.1		691
1992 SJ11	*	1992 09 28.18632	00 20 40.53	+01 40 31.9		691
1992 SJ11		1992 09 28.19427	00 20 40.02	+01 40 28.8	19.7 V	691
1992 SJ11		1992 09 28.20165	00 20 39.57	+01 40 26.1		691
1992 SJ11		1992 09 28.40389	00 20 27.78	+01 39 18.4		691
1992 SJ11		1992 09 28.41132	00 20 27.37	+01 39 16.0	19.7 V	691
1992 SJ11		1992 09 28.41892	00 20 26.96	+01 39 13.6		691
1992 SJ11		1992 10 02.31353	00 16 49.13	+01 17 32.8	19.5 V	691
1992 SJ11		1992 10 02.34233	00 16 47.47	+01 17 23.3		691
1992 SJ11		1992 10 02.37107	00 16 45.82	+01 17 13.8		691
1992 SK11	*	1992 09 28.32203	00 21 43.03	+01 58 33.3		691
1992 SK11		1992 09 28.35156	00 21 41.75	+01 58 19.0	20.8 V	691
1992 SK11		1992 09 28.37303	00 21 40.63	+01 58 09.0		691
1992 SK11		1992 10 02.31484	00 18 42.28	+01 26 18.8	20.6 V	691
1992 SK11		1992 10 02.34364	00 18 40.98	+01 26 05.1		691
1992 SK11		1992 10 02.37239	00 18 39.63	+01 25 50.7		691
1992 SL11	*	1992 09 28.32280	00 22 49.49	+01 58 46.0		691
1992 SL11		1992 09 28.35232	00 22 48.19	+01 58 29.5	19.5 V	691
1992 SL11		1992 09 28.37379	00 22 47.03	+01 58 17.7		691
1992 SL11		1992 10 02.31562	00 19 49.70	+01 21 26.8		691
1992 SL11		1992 10 02.34442	00 19 48.29	+01 21 11.3	19.6 V	691
1992 SL11		1992 10 02.37316	00 19 46.92	+01 20 55.0		691
1992 SM11	*	1992 09 28.32420	00 24 50.87	+01 49 57.6	20.4 V	691
1992 SM11		1992 09 28.35373	00 24 49.73	+01 49 43.5		691
1992 SM11		1992 09 28.37520	00 24 48.74	+01 49 32.3		691
1992 SM11		1992 10 02.31716	00 22 03.53	+01 18 57.4	20.5 V	691
1992 SM11		1992 10 02.34596	00 22 02.30	+01 18 44.0		691
1992 SM11		1992 10 02.37471	00 22 01.05	+01 18 30.8		691
1992 SN11	*	1992 09 28.32508	00 26 07.37	+02 14 51.3		691
1992 SN11		1992 09 28.35461	00 26 06.10	+02 14 26.5		691
1992 SN11		1992 09 28.37608	00 26 04.92	+02 14 07.5	19.0 V	691
1992 SN11		1992 10 02.34665	00 23 01.35	+01 16 53.1	18.9 V	691
1992 SN11		1992 10 02.37539	00 23 00.00	+01 16 28.7		691
1992 SO11	*	1992 09 28.32575	00 27 05.22	+01 51 27.4	19.7 V	691
1992 SO11		1992 09 28.35527	00 27 03.93	+01 51 14.7		691
1992 SO11		1992 09 28.37674	00 27 02.80	+01 51 05.6		691
1992 SO11		1992 10 02.31865	00 24 12.57	+01 23 35.5		691
1992 SO11		1992 10 02.34745	00 24 11.21	+01 23 24.3	19.7 V	691
1992 SO11		1992 10 02.37620	00 24 09.87	+01 23 12.5		691
1992 SP11	*	1992 09 28.32646	00 28 06.17	+01 48 52.3	17.4 V	691
1992 SP11		1992 09 28.35597	00 28 04.61	+01 48 37.5		691
1992 SP11		1992 09 28.37744	00 28 03.45	+01 48 26.2		691
1992 SP11		1992 10 02.31905	00 24 46.78	+01 14 57.3		691
1992 SP11		1992 10 02.34785	00 24 45.26	+01 14 42.7	17.3 V	691
1992 SP11		1992 10 02.37659	00 24 43.72	+01 14 28.2		691
1992 SQ11	*	1992 09 28.32975	00 32 51.88	+01 49 06.3		691
1992 SQ11		1992 09 28.35927	00 32 50.63	+01 48 54.5	19.3 V	691
1992 SQ11		1992 09 28.38075	00 32 49.58	+01 48 42.8		691
1992 SQ11		1992 10 02.32278	00 30 10.37	+01 18 25.4		691

1992 SQ11		1992 10 02.35159	00 30 09.18	+01 18 13.8		691
1992 SQ11		1992 10 02.38033	00 30 07.98	+01 18 00.4	19.6 V	691
1992 SR11	*	1992 09 28.33058	00 34 03.53	+01 55 20.9	20.4 V	691
1992 SR11		1992 09 28.36010	00 34 02.04	+01 55 06.3		691
1992 SR11		1992 09 28.38157	00 34 01.04	+01 54 55.3		691
1992 SR11		1992 10 02.32332	00 30 56.80	+01 22 14.3		691
1992 SR11		1992 10 02.35212	00 30 55.41	+01 22 00.5	20.1 V	691
1992 SR11		1992 10 02.38086	00 30 53.99	+01 21 46.3		691
1992 SS11	*	1992 09 28.33224	00 36 27.36	+02 06 09.4	18.9 V	691
1992 SS11		1992 09 28.36176	00 36 25.94	+02 05 50.0		691
1992 SS11		1992 09 28.38323	00 36 25.01	+02 05 36.3		691
1992 SS11		1992 10 02.32508	00 33 29.18	+01 22 30.3		691
1992 SS11		1992 10 02.35388	00 33 27.83	+01 22 14.1	18.7 V	691
1992 SS11		1992 10 02.38262	00 33 26.49	+01 21 55.5		691
1992 ST11	*	1992 09 28.33878	00 45 53.46	+01 55 28.9		691
1992 ST11		1992 09 28.36829	00 45 51.78	+01 55 16.4		691
1992 ST11		1992 09 28.38976	00 45 50.34	+01 55 08.6	19.4 V	691
1992 ST11		1992 10 02.33094	00 41 56.84	+01 29 28.3	19.0 V	691
1992 ST11		1992 10 02.35973	00 41 55.06	+01 29 17.7		691
1992 ST11		1992 10 02.38848	00 41 53.28	+01 29 07.0		691
1992 SU11	*	1992 09 28.40113	00 16 28.16	+01 32 48.3		691
1992 SU11		1992 09 28.40856	00 16 27.88	+01 32 45.8		691
1992 SU11		1992 09 28.41616	00 16 27.50	+01 32 41.7	20.8 V	691
1992 SU11		1992 09 29.36435	00 15 48.51	+01 25 40.0		691
1992 SU11		1992 09 29.37161	00 15 48.18	+01 25 36.6		691
1992 SU11		1992 09 29.37930	00 15 47.89	+01 25 32.2	20.8 V	691
1992 SV11	*	1992 09 28.40197	00 17 40.86	+01 37 32.8		691
1992 SV11		1992 09 28.40939	00 17 40.41	+01 37 31.7	17.8 V	691
1992 SV11		1992 09 28.41700	00 17 39.92	+01 37 30.8		691
1992 SV11		1992 09 29.36496	00 16 42.07	+01 35 11.9		691
1992 SV11		1992 09 29.37222	00 16 41.57	+01 35 10.8	17.8 V	691
1992 SV11		1992 09 29.37992	00 16 41.07	+01 35 09.3		691
1992 SV11		1992 10 02.31140	00 13 44.16	+01 28 08.8		691
1992 SV11		1992 10 02.34019	00 13 42.38	+01 28 05.2	17.7 V	691
1992 SV11		1992 10 02.36893	00 13 40.59	+01 28 01.0		691
1992 SW11	*	1992 09 28.40265	00 18 40.38	+01 30 23.4		691
1992 SW11		1992 09 28.41008	00 18 39.79	+01 30 25.9		691
1992 SW11		1992 09 28.41768	00 18 39.04	+01 30 27.3	21.2 V	691
1992 SW11		1992 09 29.36535	00 17 15.38	+01 34 21.8		691
1992 SW11		1992 09 29.37261	00 17 14.70	+01 34 23.9		691
1992 SW11		1992 09 29.38030	00 17 13.97	+01 34 25.6	20.5 V	691
1992 SX11	*	1992 09 28.40371	00 20 12.18	+01 38 59.4	20.8 V	691
1992 SX11		1992 09 28.41114	00 20 11.80	+01 38 57.2		691
1992 SX11		1992 09 28.41874	00 20 11.44	+01 38 54.7		691
1992 SX11		1992 09 29.36686	00 19 26.20	+01 34 42.5		691
1992 SX11		1992 09 29.37412	00 19 25.81	+01 34 40.5	20.5 V	691
1992 SX11		1992 09 29.38182	00 19 25.53	+01 34 39.2		691
1992 SY11	*	1992 09 28.40411	00 20 46.91	+01 32 13.6	20.0 V	691
1992 SY11		1992 09 28.41154	00 20 46.55	+01 32 10.8		691
1992 SY11		1992 09 28.41915	00 20 46.30	+01 32 07.5		691
1992 SY11		1992 09 29.36732	00 20 06.20	+01 25 19.4	19.6 V	691
1992 SY11		1992 09 29.37458	00 20 05.86	+01 25 16.3		691
1992 SY11		1992 09 29.38228	00 20 05.56	+01 25 12.8		691
1992 SY11		1992 10 02.31438	00 18 02.50	+01 04 21.5	19.6 V	691
1992 SY11		1992 10 02.34318	00 18 01.27	+01 04 09.4		691
1992 SY11		1992 10 02.37193	00 18 00.03	+01 03 57.6		691
1992 SZ11	*	1992 09 29.22432	00 14 14.12	+02 46 19.5	19.2 V	691
1992 SZ11		1992 09 29.24830	00 14 12.74	+02 46 08.5		691
1992 SZ11		1992 09 29.27120	00 14 11.47	+02 45 58.5		691

1992 SZ11		1992 09 30.29895	00 13 16.19	+02 38 04.3	19.9 V	691
1992 SZ11		1992 09 30.31005	00 13 15.56	+02 37 59.2		691
1992 SZ11		1992 09 30.32130	00 13 14.92	+02 37 54.1		691
1992 SA12	*	1992 09 29.22466	00 14 43.45	+02 46 22.9	19.1 V	691
1992 SA12		1992 09 29.24864	00 14 42.19	+02 46 15.4		691
1992 SA12		1992 09 29.27154	00 14 41.02	+02 46 08.2		691
1992 SA12		1992 09 30.29935	00 13 51.01	+02 40 36.5		691
1992 SA12		1992 09 30.31045	00 13 50.42	+02 40 32.8	19.5 V	691
1992 SA12		1992 09 30.32170	00 13 49.85	+02 40 29.1		691
1992 SB12	*	1992 09 29.22487	00 15 01.43	+02 50 00.1		691
1992 SB12		1992 09 29.24885	00 15 00.30	+02 49 50.7		691
1992 SB12		1992 09 29.27175	00 14 59.16	+02 49 41.5	20.2 V	691
1992 SB12		1992 09 30.29960	00 14 12.93	+02 42 45.1		691
1992 SB12		1992 09 30.31070	00 14 12.36	+02 42 40.7	20.3 V	691
1992 SB12		1992 09 30.32195	00 14 11.80	+02 42 35.7		691
1992 SC12	*	1992 09 29.22527	00 15 36.26	+02 40 47.6		691
1992 SC12		1992 09 29.24925	00 15 34.94	+02 40 45.7	18.3 V	691
1992 SC12		1992 09 29.27215	00 15 33.73	+02 40 43.7		691
1992 SC12		1992 09 30.29991	00 14 39.82	+02 39 14.6		691
1992 SC12		1992 09 30.31101	00 14 39.20	+02 39 13.5	19.1 V	691
1992 SC12		1992 09 30.32226	00 14 38.61	+02 39 12.5		691
1992 SD12	*	1992 09 29.22530	00 15 38.64	+02 40 44.4		691
1992 SD12		1992 09 29.24928	00 15 37.31	+02 40 41.4	18.5 V	691
1992 SD12		1992 09 29.27218	00 15 36.02	+02 40 38.4		691
1992 SD12		1992 09 30.29992	00 14 40.61	+02 38 18.0	19.1 V	691
1992 SD12		1992 09 30.31102	00 14 39.99	+02 38 16.5		691
1992 SD12		1992 09 30.32227	00 14 39.36	+02 38 14.9		691
1992 SE12	*	1992 09 29.22560	00 16 04.76	+02 44 11.0		691
1992 SE12		1992 09 29.24958	00 16 03.58	+02 44 04.3	17.9 V	691
1992 SE12		1992 09 29.27248	00 16 02.47	+02 43 58.2		691
1992 SE12		1992 09 30.30030	00 15 13.77	+02 39 06.1		691
1992 SE12		1992 09 30.31141	00 15 13.22	+02 39 03.3	18.2 V	691
1992 SE12		1992 09 30.32266	00 15 12.69	+02 38 59.8		691
1992 SF12	*	1992 09 29.22560	00 16 04.78	+02 51 54.5		691
1992 SF12		1992 09 29.24958	00 16 03.67	+02 51 42.3	18.1 V	691
1992 SF12		1992 09 29.27249	00 16 02.59	+02 51 30.8		691
1992 SF12		1992 09 30.30033	00 15 16.39	+02 42 47.6	18.6 V	691
1992 SF12		1992 09 30.31144	00 15 15.88	+02 42 42.0		691
1992 SF12		1992 09 30.32269	00 15 15.37	+02 42 36.2		691
1992 SG12	*	1992 09 29.22610	00 16 47.95	+02 52 06.1	19.6 V	691
1992 SG12		1992 09 29.25008	00 16 46.95	+02 51 55.0		691
1992 SG12		1992 09 29.27299	00 16 46.01	+02 51 44.3		691
1992 SG12		1992 09 30.30090	00 16 04.93	+02 43 45.1	19.7 V	691
1992 SG12		1992 09 30.31200	00 16 04.45	+02 43 40.2		691
1992 SG12		1992 09 30.32325	00 16 04.03	+02 43 34.7		691
1992 SH12	*	1992 09 29.22661	00 17 32.72	+02 39 11.2	18.3 V	691
1992 SH12		1992 09 29.25059	00 17 31.43	+02 38 58.5		691
1992 SH12		1992 09 29.27350	00 17 30.23	+02 38 46.4		691
1992 SH12		1992 09 30.30128	00 16 38.11	+02 29 36.4	18.7 V	691
1992 SH12		1992 09 30.31238	00 16 37.51	+02 29 30.5		691
1992 SH12		1992 09 30.32363	00 16 36.93	+02 29 24.5		691
1992 SJ12	*	1992 09 29.28150	22 52 48.95	-09 07 21.1	19.5 V	691
1992 SJ12		1992 09 29.28936	22 52 48.67	-09 07 24.9		691
1992 SJ12		1992 10 01.15448	22 51 55.79	-09 20 51.3	19.6 V	691
1992 SJ12		1992 10 01.16426	22 51 55.50	-09 20 55.5		691
1992 SJ12		1992 10 01.17534	22 51 55.18	-09 21 00.1		691
1992 SK12	*	1992 09 29.36613	00 18 23.26	+01 32 06.0	21.0 V	691
1992 SK12		1992 09 29.37340	00 18 22.93	+01 32 03.2		691
1992 SK12		1992 09 29.38109	00 18 22.50	+01 32 01.1		691

1992 SK12	1992 10 02.31311	00 16 12.82	+01 16 09.4	21.3 V	691
1992 SK12	1992 10 02.34191	00 16 11.52	+01 16 00.4		691
1992 SK12	1992 10 02.37066	00 16 10.19	+01 15 51.5		691
1992 SR12	1992 10 01.38514	01 08 34.08	+04 36 23.6	16.0 V	691
1992 SR12	1992 10 01.41393	01 08 32.62	+04 36 16.7		691
1992 SR12	1992 10 01.44237	01 08 31.22	+04 36 09.5		691
1992 SW12	1992 09 29.40306	00 59 29.47	+03 24 30.3		691
1992 SW12	1992 09 29.42789	00 59 28.10	+03 24 28.2		691
1992 SW12	1992 09 29.45325	00 59 26.53	+03 24 26.2	16.7 V	691
1992 SA13	1992 10 03.39324	01 26 16.25	+06 49 56.2	17.4 V	691
1992 SA13	1992 10 03.42292	01 26 14.56	+06 50 01.3		691
1992 SA13	1992 10 03.45215	01 26 12.93	+06 50 06.5		691
1992 SB13	1992 10 03.39846	01 33 48.84	+06 36 56.4	17.3 V	691
1992 SB13	1992 10 03.42814	01 33 47.11	+06 36 48.9		691
1992 SB13	1992 10 03.45738	01 33 45.50	+06 36 41.4		691
1992 SN13	* 1992 09 25.28336	22 55 16.47	-08 47 36.7		691
1992 SN13	1992 09 25.30488	22 55 15.72	-08 47 39.2	18.8 V	691
1992 SN13	1992 09 25.32734	22 55 14.70	-08 47 49.7		691
1992 SN13	1992 10 01.15443	22 51 51.34	-09 11 37.3		691
1992 SN13	1992 10 01.16421	22 51 51.00	-09 11 39.4	19.2 V	691
1992 SN13	1992 10 01.17529	22 51 50.65	-09 11 41.9		691
1992 SO13	* 1992 09 25.28529	22 58 04.34	-08 46 53.0	17.8 V	691
1992 SO13	1992 09 25.30681	22 58 03.41	-08 47 00.0		691
1992 SO13	1992 09 25.32928	22 58 02.20	-08 47 13.5		691
1992 SO13	1992 09 29.28311	22 55 07.72	-09 16 48.2	17.9 V	691
1992 SO13	1992 09 29.29097	22 55 07.41	-09 16 51.4		691
1992 SP13	* 1992 09 26.19529	23 07 25.31	-09 46 06.8		691
1992 SP13	1992 09 26.21372	23 07 24.32	-09 46 09.1		691
1992 SP13	1992 09 26.23215	23 07 23.41	-09 46 08.8	19.2 V	691
1992 SP13	1992 09 27.13914	23 06 43.83	-09 45 30.0		691
1992 SP13	1992 09 27.15731	23 06 42.99	-09 45 29.2		691
1992 SP13	1992 09 27.18468	23 06 41.75	-09 45 28.2	18.4 V	691
1992 SQ13	* 1992 09 27.32865	00 19 09.37	+01 28 50.0		691
1992 SQ13	1992 09 27.34656	00 19 08.40	+01 28 45.7		691
1992 SQ13	1992 09 27.36571	00 19 07.46	+01 28 41.2	20.9 V	691
1992 SQ13	1992 10 02.31211	00 14 45.39	+01 09 23.0	20.8 V	691
1992 SQ13	1992 10 02.34090	00 14 43.77	+01 09 17.5		691
1992 SQ13	1992 10 02.36965	00 14 42.23	+01 09 10.0		691
1992 SX14	1992 10 05.34729	23 11 40.86	-03 15 51.8	18.1 V	691
1992 SX14	1992 10 05.35526	23 11 40.57	-03 15 55.3		691
1992 SX14	1992 10 05.36333	23 11 40.26	-03 15 58.6		691
1992 TA	1992 10 04.12356	22 55 58.54	+01 52 19.8	17.8 V	691
1992 TA	1992 10 04.13333	22 55 57.16	+01 52 32.6	17.8 V	691
1992 TA	1992 10 04.14304	22 55 55.76	+01 52 45.5	17.8 V	691
1992 TA	1992 10 05.38024	22 53 05.44	+02 19 55.2	17.9 V	691
1992 TA	1992 10 05.38804	22 53 04.36	+02 20 05.8	18.1 V	691
1992 TA	1992 10 05.39577	22 53 03.31	+02 20 15.6	18.1 V	691
1992 TA	1992 10 19.15907	22 27 37.61	+07 12 12.6	18.2 V	691
1992 TA	1992 10 19.16675	22 27 36.96	+07 12 22.0	18.2 V	691
1992 TA	1992 10 19.17808	22 27 35.90	+07 12 35.8	18.2 V	691
1992 TB	1992 10 04.15548	23 21 55.62	+00 44 03.4	19.4 V	691
1992 TB	1992 10 04.16664	23 21 54.74	+00 43 46.7	19.5 V	691
1992 TB	1992 10 04.18692	23 21 53.07	+00 43 13.0	19.2 V	691
1992 TB	1992 10 04.35792	23 21 39.48	+00 38 41.4	19.3 V	691
1992 TB	1992 10 04.36770	23 21 38.74	+00 38 26.2	19.2 V	691
1992 TB	1992 10 04.37907	23 21 37.84	+00 38 08.2	19.4 V	691
1992 TB	1992 10 18.14389	23 07 57.82	-04 42 37.2	20.2 V	691
1992 TB	1992 10 18.15542	23 07 57.33	-04 42 50.8	20.0 V	691
1992 TB	1992 10 18.16317	23 07 56.99	-04 43 00.2	20.8 V	691



1992 TE	*	1992 10 02.12283	23 01 20.54	+01 39 08.6		691
1992 TE		1992 10 02.14450	23 01 19.50	+01 39 06.4	20.1 V	691
1992 TE		1992 10 02.16621	23 01 18.44	+01 39 04.2		691
1992 TE		1992 10 03.10416	23 00 36.77	+01 37 09.2		691
1992 TE		1992 10 03.11212	23 00 36.42	+01 37 08.4		691
1992 TE		1992 10 03.12017	23 00 36.05	+01 37 06.8	19.9 V	691
1992 TF	*	1992 10 02.13464	23 18 23.14	+01 17 50.0		691
1992 TF		1992 10 02.15631	23 18 22.55	+01 17 30.5		691
1992 TF		1992 10 02.17803	23 18 22.02	+01 17 11.2	18.5 V	691
1992 TF		1992 10 04.15271	23 17 37.75	+00 48 20.3		691
1992 TF		1992 10 04.16387	23 17 37.48	+00 48 10.7		691
1992 TF		1992 10 04.18418	23 17 37.00	+00 47 52.9	18.7 V	691
1992 TF		1992 10 04.35520	23 17 32.94	+00 45 25.2	18.8 V	691
1992 TF		1992 10 04.36499	23 17 32.70	+00 45 16.6		691
1992 TF		1992 10 04.37636	23 17 32.46	+00 45 07.2		691
1992 TG	*	1992 10 02.13626	23 20 43.61	+01 13 52.5	17.5 V	691
1992 TG		1992 10 02.15793	23 20 42.71	+01 13 43.2		691
1992 TG		1992 10 02.17964	23 20 41.81	+01 13 34.2		691
1992 TG		1992 10 04.15374	23 19 24.44	+00 59 59.5	17.3 V	691
1992 TG		1992 10 04.16490	23 19 24.01	+00 59 54.9		691
1992 TG		1992 10 04.18519	23 19 23.20	+00 59 46.6		691
1992 TH	*	1992 10 02.13686	23 21 35.82	+01 22 47.6	18.5 V	691
1992 TH		1992 10 02.15853	23 21 35.15	+01 22 32.5		691
1992 TH		1992 10 02.18025	23 21 34.38	+01 22 19.3		691
1992 TH		1992 10 03.13167	23 21 08.40	+01 10 47.4		691
1992 TH		1992 10 03.13978	23 21 08.12	+01 10 42.1	18.4 V	691
1992 TH		1992 10 03.15035	23 21 07.80	+01 10 34.5		691
1992 TH		1992 10 04.15463	23 20 41.13	+00 58 36.4	18.0 V	691
1992 TH		1992 10 04.16578	23 20 40.83	+00 58 28.3		691
1992 TH		1992 10 04.18608	23 20 40.25	+00 58 14.0		691
1992 TH		1992 10 04.35718	23 20 35.51	+00 56 13.1	18.3 V	691
1992 TH		1992 10 04.36697	23 20 35.24	+00 56 06.1		691
1992 TH		1992 10 04.37834	23 20 34.92	+00 55 58.6		691
1992 TJ	*	1992 10 02.13759	23 22 38.73	+01 09 16.6	19.2 V	691
1992 TJ		1992 10 02.15925	23 22 37.77	+01 09 10.2		691
1992 TJ		1992 10 02.18097	23 22 36.62	+01 09 04.3		691
1992 TJ		1992 10 03.13224	23 21 57.72	+01 04 22.6		691
1992 TJ		1992 10 03.14035	23 21 57.37	+01 04 20.0		691
1992 TJ		1992 10 03.15092	23 21 56.93	+01 04 17.1	19.5 V	691
1992 TJ		1992 10 04.15503	23 21 16.24	+00 59 23.9		691
1992 TJ		1992 10 04.16619	23 21 15.80	+00 59 20.4	19.2 V	691
1992 TJ		1992 10 04.18648	23 21 14.97	+00 59 14.7		691
1992 TK	*	1992 10 02.13894	23 24 35.66	+01 25 51.7	18.5 V	691
1992 TK		1992 10 02.16060	23 24 34.66	+01 25 45.7		691
1992 TK		1992 10 02.18232	23 24 33.63	+01 25 39.8		691
1992 TK		1992 10 03.13354	23 23 51.12	+01 21 21.8		691
1992 TK		1992 10 03.14166	23 23 50.63	+01 21 20.5		691
1992 TK		1992 10 03.15223	23 23 50.28	+01 21 17.0	18.4 V	691
1992 TL	*	1992 10 02.30703	00 07 05.87	+01 22 45.2		691
1992 TL		1992 10 02.33583	00 07 04.15	+01 22 31.5	19.4 V	691
1992 TL		1992 10 02.36458	00 07 02.81	+01 22 20.7		691
1992 TL		1992 10 04.27386	00 05 30.64	+01 08 54.7		691
1992 TL		1992 10 04.28407	00 05 30.14	+01 08 49.9		691
1992 TL		1992 10 04.29388	00 05 29.63	+01 08 45.9	20.0 V	691
1992 TM	*	1992 10 02.30760	00 08 15.52	+01 28 15.9		691
1992 TM		1992 10 02.33640	00 08 14.07	+01 27 59.0	19.2 V	691
1992 TM		1992 10 02.36515	00 08 12.66	+01 27 41.4		691
1992 TM		1992 10 04.27470	00 06 42.96	+01 08 04.6		691
1992 TM		1992 10 04.28490	00 06 42.44	+01 07 58.2		691

1992 TM		1992 10 04.29471	00 06 41.98	+01 07 52.2	19.3 V	691
1992 TN	*	1992 10 02.30772	00 08 25.57	+01 21 42.9	19.4 V	691
1992 TN		1992 10 02.33652	00 08 24.35	+01 21 28.4		691
1992 TN		1992 10 02.36527	00 08 23.14	+01 21 13.7		691
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1992 TN		1992 10 04.28518	00 07 06.30	+01 04 57.8	19.5 V	691
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GSC

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1943 DL	1992 10 24.40537	08 12 17.91	+34 32 13.8		801
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1974 QX1	1992 09	30.24549	01 05	57.88	+04 06	29.4	801
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1975 AN	1992 09	25.09698	22 10	51.82	+41 17	36.2	801
1975 AN	1992 09	29.13341	22 07	51.17	+41 04	07.8	801
1975 AN	1992 09	29.13992	22 07	50.90	+41 04	06.0	801
1975 SK	1992 09	30.32082	03 20	23.43	+16 20	43.4	801
1975 SK	1992 09	30.38442	03 20	22.61	+16 20	41.9	801
1975 SK	1992 10	29.25949	03 05	33.21	+15 37	21.8	801
1975 TM2	1992 10	29.17512	01 29	01.91	+06 24	31.9	801
1975 TM2	1992 10	29.19394	01 29	00.93	+06 24	25.5	801
1975 TQ3	1992 10	22.16349	02 10	59.89	+11 45	11.0	801
1975 TQ3	1992 10	22.17496	02 10	59.07	+11 45	12.2	801
1975 TQ3	1992 10	28.20686	02 04	08.87	+11 55	51.7	801
1975 TQ3	1992 10	28.21970	02 04	07.97	+11 55	53.0	801
1975 TS3	1992 10	23.31502	04 45	30.32	+26 34	38.2	801
1975 TS3	1992 10	23.34289	04 45	29.51	+26 34	44.0	801
1975 TS3	1992 10	29.30480	04 42	18.23	+26 53	42.1	801
1975 TS3	1992 10	29.32727	04 42	17.50	+26 53	45.0	801
1975 TH6	1992 10	29.20492	02 02	41.30	-02 55	00.7	801
1975 TH6	1992 10	29.21691	02 02	40.53	-02 55	01.8	801
1975 VS5	1992 10	23.35319	06 19	14.92	+13 55	01.4	801
1975 VS5	1992 10	23.36976	06 19	15.59	+13 54	56.8	801
1975 VS5	1992 10	29.32267	06 22	51.73	+13 24	15.3	801
1975 VS5	1992 10	29.34679	06 22	52.51	+13 24	07.9	801
1975 VD9	1992 09	25.25868	01 33	50.42	+09 33	37.4	801
1975 VD9	1992 09	25.27603	01 33	49.55	+09 33	38.7	801
1975 VD9	1992 09	30.23972	01 29	36.60	+09 39	38.8	801
1975 VD9	1992 09	30.25376	01 29	35.83	+09 39	39.5	801
1975 VD9	1992 10	01.23341	01 28	43.75	+09 40	40.3	801

1975 VD9	1992 10	01.24852	01 28	42.91	+09 40	41.2	801
1975 VD9	1992 10	29.13456	01 02	45.23	+09 56	49.1	801
1976 AH	1992 10	29.34003	07 32	35.81	+16 27	59.8	801
1976 AH	1992 10	29.35902	07 32	36.35	+16 27	51.5	801
1976 QN	1992 10	24.13061	00 24	38.77	+02 41	33.7	801
1976 QN	1992 10	24.14775	00 24	38.10	+02 41	29.4	801
1976 QN	1992 10	28.09273	00 22	18.02	+02 26	47.5	801
1976 QN	1992 10	28.11817	00 22	17.14	+02 26	42.5	801
1976 SA6	1992 06	03.14925	15 08	04.29	-20 04	23.5	801
1976 YP1	1992 10	22.16126	02 09	54.82	+14 07	55.2	801
1976 YP1	1992 10	22.17705	02 09	54.01	+14 07	52.1	801
1976 YP1	1992 10	28.20036	02 04	58.49	+13 46	37.5	801
1976 YP1	1992 10	28.21800	02 04	57.59	+13 46	33.6	801
1976 YC2	1992 10	01.29269	03 06	58.33	+10 18	32.7	801
1976 YC2	1992 10	01.34284	03 06	57.04	+10 18	26.5	801
1976 YC2	1992 10	29.23159	02 49	12.92	+09 07	08.3	801
1976 YC2	1992 10	29.24692	02 49	12.19	+09 07	06.0	801
1977 EC2	1992 10	29.33177	07 12	15.62	+22 46	44.7	801
1977 EC2	1992 10	29.36603	07 12	16.30	+22 46	43.5	801
1977 RD2	1992 09	25.14336	22 39	19.53	-13 30	17.6	801
1977 RD2	1992 10	01.07725	22 36	03.60	-13 38	43.9	801
1977 RD2	1992 10	01.10583	22 36	02.79	-13 38	44.1	801
1977 RR6	1992 09	24.08730	22 03	55.67	-13 46	34.8	801
1977 RR6	1992 09	24.11360	22 03	54.80	-13 46	31.7	801
1977 RW6	1992 10	29.25089	03 08	43.40	+18 51	19.0	801
1977 RW6	1992 10	29.27286	03 08	42.23	+18 51	15.5	801
1978 QA2	1992 09	30.20699	00 09	52.82	+01 30	52.8	801
1978 QA2	1992 09	30.21792	00 09	52.32	+01 30	46.5	801
1978 QA2	1992 10	24.06822	23 58	48.19	-01 11	03.8	801
1978 QA2	1992 10	24.10038	23 58	47.81	-01 11	11.4	801
1978 ST7	1992 10	24.15587	00 52	28.30	+15 21	32.5	801
1978 ST7	1992 10	24.18022	00 52	26.87	+15 21	25.1	801
1978 ST7	1992 10	28.13781	00 48	50.84	+15 00	17.3	801
1978 ST7	1992 10	28.15255	00 48	50.05	+15 00	12.4	801
1978 SV7	1992 09	24.12377	21 55	50.89	-13 27	51.4	801
1978 SV7	1992 10	02.05905	21 52	41.70	-13 22	38.6	801
1978 SV7	1992 10	02.08720	21 52	41.13	-13 22	36.2	801
1978 TB2	1992 10	22.34263	05 30	59.43	+18 14	23.0	801
1978 TB2	1992 10	22.37513	05 30	59.95	+18 14	15.5	801
1978 TB2	1992 10	24.33898	05 31	31.45	+18 06	53.2	801
1978 TB2	1992 10	24.37735	05 31	31.89	+18 06	44.4	801
1979 MB2	1992 09	25.29098	02 53	43.12	+07 17	15.7	801
1979 MB2	1992 09	25.33205	02 53	43.23	+07 17	03.1	801
1979 MB2	1992 10	01.26611	02 53	38.57	+06 44	24.4	801
1979 MB2	1992 10	01.29728	02 53	38.34	+06 44	12.5	801
1979 MB2	1992 10	28.23294	02 40	09.42	+03 47	44.9	801
1979 MB2	1992 10	28.25031	02 40	08.57	+03 47	36.7	801
1979 MB2	1992 10	29.22698	02 39	21.69	+03 41	40.1	801
1979 MB2	1992 10	29.24189	02 39	20.92	+03 41	34.5	801
1979 SN4	1992 09	25.11972	22 32	18.81	-05 54	03.9	801
1979 SN4	1992 09	25.13792	22 32	18.36	-05 54	15.9	801
1979 SN4	1992 10	01.07183	22 30	32.18	-06 55	51.8	801
1979 SN4	1992 10	01.09300	22 30	31.85	-06 56	04.2	801
1979 UQ	1992 09	25.01319	19 39	51.29	-17 33	09.1	801
1979 UQ	1992 09	25.02950	19 39	51.93	-17 33	07.9	801
1980 FH2	1992 10	01.20660	00 40	06.54	+09 02	19.5	801
1980 FH2	1992 10	01.21898	00 40	05.79	+09 02	16.3	801
1980 FH2	1992 10	24.12262	00 19	55.35	+07 14	05.3	801
1980 FH2	1992 10	24.14242	00 19	54.50	+07 13	59.9	801

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1980 FH2	1992 10 28.10714	00 17 26.49	+06 58 01.1	801
1980 FH2	1992 10 28.12383	00 17 25.88	+06 57 57.2	801
1980 FZ3	1992 10 23.31870	04 47 00.68	+34 34 55.1	801
1980 FZ3	1992 10 23.34762	04 47 00.57	+34 35 08.3	801
1980 FZ3	1992 10 28.31454	04 46 25.54	+35 12 00.7	w 801
1980 NB	1992 10 01.21659	00 49 27.32	+07 27 23.5	801
1980 NB	1992 10 01.23009	00 49 26.55	+07 27 18.5	801
1980 NB	1992 10 24.13527	00 29 58.82	+05 06 25.8	801
1980 NB	1992 10 24.15299	00 29 58.07	+05 06 19.9	801
1980 NB	1992 10 28.11016	00 27 26.28	+04 46 13.2	801
1980 NB	1992 10 28.12727	00 27 25.65	+04 46 08.3	801
1980 PB2	1992 10 22.26074	03 08 23.48	+09 25 44.2	801
1980 PB2	1992 10 22.27693	03 08 22.83	+09 25 38.4	801
1980 PB2	1992 10 29.24870	03 03 31.57	+08 43 46.3	801
1980 PB2	1992 10 29.27081	03 03 30.54	+08 43 38.6	801
1980 RC1	1992 09 25.34060	03 59 58.60	+24 54 07.0	801
1980 RC1	1992 09 25.38377	03 59 59.68	+24 54 11.9	801
1980 RC1	1992 09 30.33234	04 01 38.15	+25 03 02.1	801
1980 RC1	1992 09 30.38078	04 01 38.72	+25 03 06.5	801
1980 RC1	1992 10 24.30078	03 56 23.81	+24 59 04.9	801
1980 RC1	1992 10 24.31977	03 56 23.00	+24 59 02.6	801
1980 RC1	1992 10 28.27358	03 53 31.87	+24 50 03.1	801
1980 RC1	1992 10 28.29681	03 53 30.72	+24 49 59.4	801
1980 RL7	1992 09 25.04200	20 18 17.67	-07 26 42.5	801
1980 RL7	1992 09 25.08620	20 18 18.09	-07 26 49.5	801
1980 RL7	1992 10 01.03045	20 19 58.09	-07 42 39.2	801
1980 RL7	1992 10 01.05428	20 19 58.59	-07 42 42.8	801
1981 ET	1992 10 22.33816	04 53 02.23	+34 28 31.2	801
1981 ET	1992 10 22.36914	04 53 01.30	+34 28 38.7	801
1981 ET	1992 10 24.32412	04 52 02.45	+34 36 20.9	801
1981 ET	1992 10 24.34635	04 52 01.70	+34 36 25.8	801
1981 ED1	1992 09 25.22310	00 42 47.34	+08 11 38.6	801
1981 ED1	1992 09 25.23692	00 42 46.47	+08 11 38.9	801
1981 ED1	1992 10 01.20170	00 36 39.62	+08 12 31.9	801
1981 ED1	1992 10 01.21414	00 36 38.80	+08 12 31.9	801
1981 ED1	1992 10 24.10782	00 14 25.58	+08 03 14.3	I 801
1981 ED1	1992 10 24.12650	00 14 24.69	+08 03 12.9	801
1981 ED1	1992 10 28.07811	00 11 27.23	+08 02 24.5	801
1981 ED1	1992 10 28.09936	00 11 26.27	+08 02 24.5	801
1981 EY30	1992 09 25.18966	23 40 30.63	-05 25 20.6	801
1981 EY30	1992 09 25.20149	23 40 30.10	-05 25 26.3	801
1981 EY30	1992 10 01.17909	23 36 40.74	-06 10 03.9	801
1981 EY30	1992 10 01.19865	23 36 40.01	-06 10 11.8	801
1981 OH	1992 10 01.36339	04 35 35.57	-01 13 36.6	801
1981 OH	1992 10 01.39264	04 35 36.15	-01 13 53.1	801
1981 OH	1992 10 28.31164	04 31 19.08	-05 07 40.6	801
1981 OH	1992 10 28.32661	04 31 18.46	-05 07 47.1	801
1981 QG1	1992 10 23.41184	08 11 59.29	+00 49 37.8	801
1981 QG1	1992 10 23.42512	08 12 00.30	+00 49 30.2	801
1981 QG1	1992 10 28.40091	08 17 47.39	+00 03 34.7	801
1981 QG1	1992 10 28.41487	08 17 48.31	+00 03 27.6	801
1981 SW7	1992 10 28.27225	03 52 18.93	+27 38 24.1	801
1981 SW7	1992 10 28.29495	03 52 17.78	+27 38 23.1	801
1981 TJ3	1992 10 01.11145	22 58 11.84	-10 43 41.4	801
1981 TJ3	1992 10 01.13613	22 58 11.01	-10 43 45.9	801
1981 TJ4	1992 10 22.35339	06 07 09.89	+33 31 07.6	801
1981 TJ4	1992 10 22.38497	06 07 09.96	+33 31 16.7	801
1981 TJ4	1992 10 24.36072	06 07 14.59	+33 40 28.7	801
1981 TJ4	1992 10 24.39741	06 07 14.55	+33 40 39.1	801



1981 UM22	1992 10 29.17133	01 21 32.80	+04 15 23.4	801
1981 UM22	1992 10 29.19120	01 21 32.01	+04 15 18.3	801
1981 YO1	1992 10 28.39436	08 17 22.43	+21 21 12.8	801
1981 YO1	1992 10 28.40340	08 17 23.29	+21 21 17.4	801
1981 YO1	1992 10 29.41775	08 18 59.44	+21 29 50.5	801
1981 YO1	1992 10 29.42230	08 18 59.86	+21 29 52.9	801
1981 YS1	1992 09 25.38781	04 52 42.45	+16 07 00.1	r 801
1981 YS1	1992 09 25.40233	04 52 43.75	+16 06 58.6	r 801
1981 YS1	1992 09 30.37573	05 00 06.19	+15 57 28.0	801
1981 YS1	1992 09 30.38608	05 00 07.08	+15 57 26.4	801
1981 YS1	1992 10 22.34030	05 25 11.57	+14 46 17.5	801
1981 YS1	1992 10 22.35597	05 25 12.27	+14 46 13.7	801
1981 YS1	1992 10 24.33652	05 26 43.62	+14 38 08.4	801
1981 YS1	1992 10 24.35653	05 26 44.41	+14 38 03.3	801
1982 JR1	1992 10 28.33709	05 08 59.57	+17 27 35.8	801
1982 JR1	1992 10 28.36459	05 08 58.81	+17 27 37.7	801
1982 RW	1992 09 25.15229	23 19 03.11	-01 58 43.3	801
1982 RW	1992 09 25.16840	23 19 02.30	-01 58 46.8	801
1982 RW	1992 09 30.12898	23 15 26.16	-02 15 42.4	801
1982 RW	1992 09 30.14937	23 15 25.27	-02 15 46.5	801
1982 RM1	1992 10 22.18086	02 19 11.35	+23 06 27.2	801
1982 RM1	1992 10 22.19502	02 19 10.38	+23 06 23.3	801
1982 RM1	1992 10 28.19627	02 12 26.55	+22 38 17.9	801
1982 RM1	1992 10 28.20918	02 12 25.67	+22 38 14.1	801
1982 SL1	1992 09 25.34348	03 52 25.92	+17 32 00.3	801
1982 SL1	1992 09 25.37863	03 52 27.02	+17 31 54.2	801
1982 SL1	1992 09 30.32910	03 54 47.34	+17 15 52.3	801
1982 SL1	1992 09 30.35347	03 54 47.79	+17 15 46.5	801
1982 SL1	1992 10 01.30611	03 55 08.23	+17 12 14.2	801
1982 SL1	1992 10 01.35280	03 55 09.05	+17 12 03.6	801
1982 SL1	1992 10 22.28699	03 53 13.09	+15 21 14.4	801
1982 SL1	1992 10 22.30880	03 53 12.36	+15 21 05.7	801
1982 SL1	1992 10 28.26787	03 49 32.40	+14 40 32.0	801
1982 SL1	1992 10 28.29049	03 49 31.36	+14 40 22.5	801
1982 TT	1992 09 24.06759	21 48 12.38	+03 40 24.6	801
1982 TT	1992 09 24.09022	21 48 11.82	+03 40 16.7	801
1982 TT	1992 09 30.07352	21 46 11.28	+03 06 03.2	801
1982 TT	1992 09 30.09986	21 46 10.82	+03 05 54.2	801
1982 TB2	1992 09 25.05469	21 45 18.85	-05 46 33.7	801
1982 TB2	1992 09 25.08000	21 45 18.14	-05 46 40.0	801
1982 TB2	1992 10 02.05323	21 43 03.58	-06 12 24.6	801
1982 TB2	1992 10 02.08207	21 43 03.14	-06 12 30.2	801
1982 UE	1992 09 25.01584	19 54 19.13	-26 32 48.4	801
1982 UE	1992 09 25.03296	19 54 19.98	-26 32 45.0	801
1982 UE	1992 10 02.02057	20 00 48.01	-26 07 47.1	801
1982 UE	1992 10 02.03742	20 00 49.01	-26 07 42.6	801
1982 UT5	1992 10 01.26985	02 54 19.35	+18 15 41.7	801
1982 UT5	1992 10 01.30226	02 54 18.66	+18 15 35.8	801
1982 UT5	1992 10 22.20828	02 41 08.77	+16 36 04.6	801
1982 UT5	1992 10 22.22797	02 41 07.67	+16 35 56.8	801
1982 UT5	1992 10 28.23093	02 35 29.39	+15 55 24.4	801
1982 UT5	1992 10 28.24428	02 35 28.62	+15 55 18.2	801
1982 VA1	1992 10 29.27738	03 37 08.94	+16 11 36.5	801
1982 VA1	1992 10 29.29331	03 37 07.89	+16 11 36.8	801
1983 BH	1992 09 25.14610	22 56 20.03	+04 58 54.1	801
1983 BH	1992 09 25.16247	22 56 19.15	+04 58 47.9	801
1983 BH	1992 10 01.09058	22 51 25.86	+04 21 39.5	801
1983 BH	1992 10 01.10853	22 51 24.92	+04 21 32.4	801
1983 BH	1992 10 02.06303	22 50 41.60	+04 15 34.9	801

1983 BH	1992 10	02.07583	22 50	40.99	+04 15	30.3	801
1983 BH	1992 10	24.02897	22 40	14.96	+02 15	25.5	801
1983 BH	1992 10	24.06186	22 40	14.55	+02 15	17.1	801
1983 RT4	1992 09	30.28231	02 41	43.55	+13 50	02.3	801
1983 RT4	1992 09	30.30508	02 41	43.02	+13 49	51.8	801
1983 RT4	1992 10	22.20367	02 28	19.80	+10 38	01.5	801
1983 RT4	1992 10	22.21508	02 28	19.25	+10 37	55.2	801
1983 RT4	1992 10	28.22524	02 23	29.23	+09 40	56.0	801
1983 RT4	1992 10	28.23968	02 23	28.49	+09 40	47.7	801
1983 RY4	1992 10	24.01340	21 50	51.33	+00 37	50.4	801
1983 RY4	1992 10	24.03135	21 50	51.99	+00 37	48.1	801
1983 RY4	1992 10	28.01053	21 53	40.69	+00 30	43.1	801
1983 XH1	1992 09	30.20963	00 19	24.23	-00 35	00.9	801
1983 XH1	1992 09	30.22661	00 19	23.43	-00 35	09.6	801
1984 SA1	1992 10	22.33572	04 49	47.23	+31 11	58.1	801
1984 SA1	1992 10	22.37238	04 49	46.64	+31 12	07.7	801
1984 SA1	1992 10	24.31745	04 49	15.25	+31 20	31.8	801
1984 SA1	1992 10	24.34367	04 49	14.70	+31 20	38.4	801
1984 SW5	1992 09	25.18657	00 29	56.29	-00 38	13.0	801
1984 SW5	1992 09	25.20756	00 29	55.55	-00 38	18.9	801
1984 SW5	1992 10	01.19109	00 26	29.40	-01 06	01.3	801
1984 SW5	1992 10	01.20964	00 26	28.74	-01 06	06.2	801
1984 SW5	1992 10	24.07350	00 14	25.16	-02 37	28.4	801
1984 SW5	1992 10	24.09668	00 14	24.59	-02 37	33.2	P 801
1984 SW5	1992 10	28.07461	00 12	44.12	-02 49	28.6	801
1984 SW5	1992 10	28.10422	00 12	43.40	-02 49	34.0	801
1984 UX	1992 09	30.27284	02 04	26.53	+15 03	26.1	801
1984 UX	1992 09	30.28949	02 04	26.01	+15 03	32.5	801
1985 RP	1992 08	25.32247	01 14	50.25	+05 30	26.6	801
1985 RP	1992 08	25.35964	01 14	51.26	+05 30	15.1	801
1985 RP	1992 08	30.32544	01 16	55.70	+05 00	33.3	801
1985 RP	1992 08	30.35616	01 16	56.23	+05 00	21.1	801
1985 RE2	1992 10	22.19344	02 24	11.80	+18 46	11.1	801
1985 RE2	1992 10	28.21613	02 17	28.42	+18 18	54.9	801
1985 RE2	1992 10	28.22689	02 17	27.68	+18 18	51.7	801
1985 RU2	1992 09	30.31863	03 11	31.95	+18 54	48.2	801
1985 RU2	1992 09	30.38258	03 11	31.38	+18 54	56.3	801
1985 RU2	1992 10	22.25189	03 00	14.32	+19 07	52.9	801
1985 RU2	1992 10	22.26767	03 00	13.44	+19 07	52.0	801
1985 SE1	1992 10	01.36053	04 56	51.23	+16 46	58.9	801
1985 SE1	1992 10	01.39012	04 56	52.29	+16 46	53.7	801
1985 SE1	1992 10	24.32817	05 01	18.98	+15 24	39.8	801
1985 SE1	1992 10	24.36306	05 01	18.32	+15 24	31.3	801
1985 SE1	1992 10	28.31731	04 59	53.62	+15 08	13.8	801
1985 SE1	1992 10	28.34844	04 59	52.76	+15 08	05.7	801
1985 TW1	1992 10	23.35839	06 31	06.42	+33 49	57.0	801
1985 TW1	1992 10	23.37551	06 31	07.23	+33 49	58.7	801
1985 TW1	1992 10	29.33438	06 35	16.79	+34 00	29.7	801
1985 TW1	1992 10	29.35637	06 35	17.48	+34 00	32.0	801
1985 TP3	1992 10	28.26993	03 52	00.14	+27 20	43.3	801
1985 TP3	1992 10	28.29300	03 51	59.02	+27 20	39.4	801
1985 UJ3	1992 10	24.11683	00 36	33.63	+01 08	24.4	801
1985 UJ3	1992 10	24.13981	00 36	32.79	+01 08	20.8	801
1985 UJ3	1992 10	28.13000	00 34	36.23	+01 00	02.8	801
1985 UJ3	1992 10	28.15910	00 34	35.40	+00 59	59.5	801
1986 AK	1992 10	22.31328	04 28	35.51	+18 35	27.1	801
1986 AK	1992 10	22.32844	04 28	34.97	+18 35	34.7	801
1986 AK	1992 10	26.33015	04 26	02.46	+19 09	08.7	801
1986 AK	1992 10	26.34273	04 26	01.95	+19 09	15.0	801

1986 CB	1992 09	30.35828	05 43	57.78	-12 09	07.2	801
1986 CB	1992 09	30.36667	05 43	58.82	-12 09	11.7	801
1986 CB	1992 10	24.36616	06 24	13.41	-16 13	30.9	801
1986 CB	1992 10	24.38009	06 24	14.46	-16 13	38.5	801
1986 CB	1992 10	27.37694	06 27	58.34	-16 39	09.7	801
1986 CB	1992 10	27.39358	06 27	59.48	-16 39	17.8	801
1986 ET	1992 10	29.38304	08 59	05.57	+22 40	48.0	801
1986 ET	1992 10	29.40037	08 59	07.21	+22 40	42.4	801
1986 EZ	1992 10	01.15880	23 23	22.32	-03 02	11.4	801
1986 EZ	1992 10	01.17448	23 23	21.52	-03 02	12.6	801
1986 EZ1	1992 10	01.37134	06 30	44.46	+24 42	22.5	801
1986 EZ1	1992 10	01.38722	06 30	45.86	+24 42	22.0	801
1986 EZ1	1992 10	22.39306	06 58	15.27	+24 13	38.7	801
1986 EZ1	1992 10	22.40836	06 58	16.20	+24 13	37.1	801
1986 EZ1	1992 10	24.37149	07 00	20.66	+24 10	36.8	801
1986 EZ1	1992 10	24.38830	07 00	21.65	+24 10	35.0	801
1986 JQ	1992 10	22.22164	02 54	48.57	+18 19	15.9	801
1986 JQ	1992 10	22.22990	02 54	48.07	+18 19	06.2	801
1986 JQ	1992 10	28.23674	02 48	37.41	+16 19	31.7	801
1986 JQ	1992 10	28.24811	02 48	36.65	+16 19	17.9	801
1986 TL	1992 09	25.35559	04 34	53.06	+32 35	26.6	801
1986 TL	1992 09	25.38977	04 34	53.62	+32 35	32.9	801
1986 TL	1992 10	22.31692	04 32	42.03	+33 30	21.3	801
1986 TL	1992 10	22.34994	04 32	41.04	+33 30	22.7	I 801
1986 TL	1992 10	24.31299	04 31	41.95	+33 31	35.0	801
1986 TL	1992 10	24.34150	04 31	41.00	+33 31	35.7	801
1986 UQ	1992 10	24.05083	23 33	15.14	+00 13	41.2	801
1986 UQ	1992 10	24.08630	23 33	14.75	+00 13	33.7	801
1986 UQ	1992 10	28.03288	23 32	58.25	+00 01	25.8	801
1986 UQ	1992 10	28.08539	23 32	58.12	+00 01	17.5	801
1986 WM5	1992 10	01.25130	02 31	12.99	+32 09	53.6	801
1986 WM5	1992 10	01.27606	02 31	12.07	+32 09	53.4	801
1986 WM5	1992 10	22.19725	02 14	53.83	+31 32	50.2	801
1986 WM5	1992 10	22.21029	02 14	53.05	+31 32	47.4	801
1986 WM5	1992 10	28.19425	02 09	32.75	+31 06	44.1	801
1986 WM5	1992 10	28.21127	02 09	31.79	+31 06	39.1	801
1987 DM6	1992 10	24.04824	23 17	48.20	-03 44	08.8	801
1987 DM6	1992 10	24.07720	23 17	47.57	-03 44	14.2	801
1987 MM1	1992 09	24.07654	21 39	26.28	-05 23	17.1	801
1987 MM1	1992 09	24.10293	21 39	25.99	-05 23	28.2	801
1987 SQ1	1992 09	30.27029	02 02	01.11	+12 19	31.2	801
1987 SQ1	1992 09	30.28816	02 02	00.43	+12 19	27.0	801
1987 SQ1	1992 10	29.17984	01 39	42.70	+09 58	28.4	801
1987 SQ1	1992 10	29.21179	01 39	41.15	+09 58	18.5	801
1987 UF5	1992 10	22.38765	06 50	19.15	+25 50	04.9	801
1987 UF5	1992 10	22.41057	06 50	19.83	+25 50	07.6	801
1987 WS	1992 09	30.24262	00 51	17.64	+02 19	34.6	801
1987 WS	1992 09	30.25556	00 51	16.95	+02 19	33.4	801
1988 PK	1992 10	22.20090	02 22	52.33	+07 42	52.6	801
1988 PK	1992 10	22.21241	02 22	51.70	+07 42	47.4	801
1988 PK	1992 10	29.21389	02 16	30.28	+06 57	24.6	801
1988 PK	1992 10	29.22461	02 16	29.66	+06 57	20.6	801
1988 RD	1992 10	28.17730	07 20	54.86	+54 49	07.8	801
1988 RD	1992 10	28.18163	07 20	55.16	+54 49	11.1	801
1988 SH1	1992 09	30.31597	03 07	51.07	+16 50	01.1	801
1988 SH1	1992 09	30.36152	03 07	50.81	+16 49	51.4	801
1988 SH1	1992 10	22.23775	02 58	55.49	+14 51	12.0	801
1988 SH1	1992 10	22.25610	02 58	54.64	+14 51	04.3	801
1988 SH1	1992 10	28.24198	02 54	14.80	+14 07	44.4	801

1988 SH1	1992 10	28.25688	02 54	14.03	+14 07	37.9	801
1988 VL	1992 09	29.21144	00 31	24.28	+05 00	53.4	801
1988 VL	1992 09	29.23113	00 31	23.44	+05 00	38.8	801
1988 VL	1992 09	30.21627	00 30	43.16	+04 48	34.6	801
1988 VL	1992 09	30.22969	00 30	42.58	+04 48	24.6	801
1988 VN	1992 10	28.08779	00 16	11.91	-03 47	54.3	801
1988 VN	1992 10	28.11321	00 16	11.14	-03 47	56.0	801
1988 VP	1992 09	30.32736	03 44	19.32	+13 27	36.8	801
1988 VP	1992 09	30.36392	03 44	18.86	+13 27	44.3	801
1988 VP	1992 10	22.27978	03 32	37.88	+14 35	32.4	801
1988 VP	1992 10	28.26030	03 27	01.15	+14 52	44.5	801
1988 VP	1992 10	28.27919	03 26	59.98	+14 52	48.0	801
1988 VB1	1992 10	22.15657	01 58	26.23	+25 51	23.2	801
1988 VB1	1992 10	22.16722	01 58	25.41	+25 51	24.2	801
1988 VB1	1992 10	28.19214	01 51	09.97	+26 01	29.0	801
1988 VB1	1992 10	28.20444	01 51	09.07	+26 01	29.5	801
1988 VH1	1992 09	25.25086	01 29	45.76	+16 10	20.0	801
1988 VH1	1992 09	25.27788	01 29	44.97	+16 10	14.8	801
1988 VH1	1992 09	30.25001	01 27	14.42	+15 50	32.4	801
1988 VH1	1992 09	30.26683	01 27	13.84	+15 50	27.5	801
1988 VZ2	1992 09	30.31209	03 00	01.17	+28 47	25.9	801
1988 VZ2	1992 09	30.39015	03 00	00.78	+28 47	33.1	801
1988 VV3	1992 10	01.22685	01 18	31.62	+06 47	09.2	801
1988 VV3	1992 10	01.24302	01 18	30.77	+06 47	05.6	801
1988 VV3	1992 10	29.12882	00 55	13.17	+04 55	27.7	801
1988 VV3	1992 10	29.14537	00 55	12.45	+04 55	24.8	801
1988 VB5	1992 09	30.31405	03 06	14.50	+20 22	54.0	801
1988 VB5	1992 09	30.33983	03 06	14.19	+20 22	42.5	801
1988 VB5	1992 10	22.23572	02 55	40.93	+16 51	37.2	801
1988 VB5	1992 10	22.25409	02 55	40.05	+16 51	24.4	801
1988 VB5	1992 10	28.23803	02 50	55.94	+15 40	46.8	801
1988 VB5	1992 10	28.25495	02 50	55.06	+15 40	34.0	801
1988 VR5	1992 10	22.17309	01 10	45.34	+14 31	30.7	801
1988 VR5	1992 10	22.19184	01 10	44.52	+14 31	16.1	801
1988 VR5	1992 10	29.14061	01 06	15.37	+13 01	32.9	801
1988 VR5	1992 10	29.15796	01 06	14.72	+13 01	20.5	801
1988 VM9	1992 09	30.37354	04 33	10.30	+25 05	32.8	801
1988 VM9	1992 10	23.31089	04 38	02.20	+27 20	40.9	801
1988 VM9	1992 10	23.33553	04 38	01.84	+27 20	49.1	801
1988 VM9	1992 10	28.30515	04 36	27.52	+27 47	50.4	801
1988 VM9	1992 10	28.32941	04 36	26.87	+27 47	57.8	801
1988 XO	1992 10	29.30161	04 35	57.99	+06 16	38.9	801
1988 XO	1992 10	29.31462	04 35	57.44	+06 16	40.0	801
1989 AD	1992 10	28.40571	08 32	29.26	+26 19	48.8	801
1989 AD	1992 10	28.41760	08 32	30.38	+26 19	46.8	801
1989 AK1	1992 09	30.19059	00 01	53.90	+13 43	26.6	801
1989 AK1	1992 09	30.20428	00 01	53.21	+13 43	23.3	801
1989 AK1	1992 10	24.05876	23 45	33.55	+11 56	22.6	801
1989 AK1	1992 10	24.08023	23 45	32.89	+11 56	16.6	801
1989 AK1	1992 10	28.02259	23 43	47.05	+11 38	41.8	801
1989 AK1	1992 10	28.06072	23 43	46.07	+11 38	31.7	801
1989 AM1	1992 10	01.14348	23 22	02.64	+12 03	10.0	801
1989 AM1	1992 10	01.16517	23 22	01.75	+12 03	04.4	801
1989 AM1	1992 10	02.07333	23 21	24.58	+11 59	07.4	801
1989 AM1	1992 10	02.08475	23 21	24.11	+11 59	04.4	801
1989 AL5	1992 10	01.22395	01 06	36.97	+06 37	25.4	801
1989 AL5	1992 10	01.24056	01 06	36.21	+06 37	20.9	801
1989 BD	1992 10	23.31301	04 43	29.59	+28 18	22.1	801
1989 BD	1992 10	23.34521	04 43	28.88	+28 18	29.6	801

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1989 BT	1992 10	22.15315	01 36	24.01	+15 59	19.7	801
1989 BT	1992 10	22.16542	01 36	23.32	+15 59	16.0	801
1989 BT	1992 10	29.17697	01 30	29.31	+15 18	12.1	801
1989 BT	1992 10	29.19693	01 30	28.28	+15 18	04.9	801
1989 BR1	1992 10	22.20601	02 37	59.84	+15 41	16.2	801
1989 BR1	1992 10	22.22375	02 37	59.04	+15 41	12.9	801
1989 BR1	1992 10	28.22905	02 33	21.86	+15 20	08.4	801
1989 BR1	1992 10	28.24602	02 33	21.06	+15 20	04.9	801
1989 CC1	1992 09	24.08411	22 09	14.27	-19 11	12.7	801
1989 CC1	1992 09	24.09608	22 09	13.86	-19 11	26.5	801
1989 CC1	1992 09	30.08082	22 06	10.83	-20 52	25.8	801
1989 CC1	1992 09	30.09162	22 06	10.51	-20 52	36.2	801
1989 CL3	1992 10	01.27314	03 26	00.94	+23 49	42.7	801
1989 CL3	1992 10	01.35736	03 26	00.97	+23 49	31.7	801
1989 EV	1992 10	01.38012	06 59	06.82	+28 19	44.2	801
1989 EV	1992 10	01.39929	06 59	08.41	+28 19	47.8	801
1989 EV	1992 10	22.40243	07 23	45.89	+29 25	07.8	801
1989 EV	1992 10	22.42122	07 23	46.94	+29 25	11.9	801
1989 EV	1992 10	24.39981	07 25	37.42	+29 32	39.9	801
1989 EV	1992 10	24.41690	07 25	38.32	+29 32	43.6	801
1989 GB1	1992 10	28.26190	03 38	42.22	+18 30	18.5	801
1989 GB1	1992 10	28.28579	03 38	41.23	+18 30	12.6	801
1989 SF	1992 10	01.08330	22 35	53.85	-05 33	55.8	801
1989 SF	1992 10	01.10270	22 35	53.05	-05 33	58.6	801
1989 SL	1992 09	25.02674	20 11	41.27	-09 38	30.8	801
1989 SL	1992 09	25.05166	20 11	41.91	-09 38	34.5	801
1989 SL	1992 09	30.03030	20 14	29.92	-09 49	19.3	801
1989 SL	1992 09	30.04772	20 14	30.56	-09 49	21.1	801
1989 TB1	1992 10	01.12486	23 00	17.88	-07 58	14.9	801
1989 TB1	1992 10	01.14824	23 00	16.71	-07 58	18.4	801
1989 US	1992 09	25.05808	21 51	06.50	-20 34	26.6	801
1989 US	1992 09	25.08863	21 51	05.87	-20 34	21.1	801
1989 US	1992 09	30.07613	21 50	04.61	-20 16	23.1	801
1989 US	1992 09	30.11109	21 50	04.33	-20 16	14.1	801
1989 UO1	1992 09	24.06366	21 44	33.97	-09 03	38.6	801
1989 UO1	1992 09	24.09885	21 44	34.09	-09 03	50.1	801
1989 UO1	1992 09	30.06119	21 45	56.96	-09 31	56.1	801
1989 UO1	1992 09	30.08919	21 45	57.44	-09 32	03.1	801
1989 UU1	1992 10	01.14054	23 18	35.03	+08 12	38.6	801
1989 UU1	1992 10	01.15631	23 18	34.17	+08 12	32.4	801
1989 UH2	1992 10	22.40012	07 16	56.36	+36 12	29.2	801
1989 UH2	1992 10	22.41310	07 16	57.29	+36 12	41.0	801
1989 UH2	1992 10	24.38365	07 19	24.88	+36 41	08.4	801
1989 UH2	1992 10	24.39315	07 19	25.45	+36 41	15.8	801
1989 UK2	1992 10	01.31344	04 30	48.78	+29 50	31.1	801
1989 UK2	1992 10	01.34744	04 30	50.04	+29 50	17.3	801
1989 UK2	1992 10	22.31955	04 35	16.97	+26 25	34.4	801
1989 UK2	1992 10	22.33316	04 35	16.70	+26 25	23.9	801
1989 UK2	1992 10	28.30925	04 32	48.19	+25 03	35.0	801
1989 UK2	1992 10	28.32417	04 32	47.65	+25 03	21.9	801
1989 YF5	1992 09	25.00404	18 49	58.91	-14 44	36.4	801
1989 YF5	1992 09	25.01829	18 49	59.62	-14 44	33.7	801
1989 YF5	1992 10	01.00144	18 55	54.33	-14 27	31.5	801
1989 YF5	1992 10	01.01123	18 55	54.94	-14 27	29.7	801
1989 YS6	1992 09	25.26670	01 54	45.04	+01 08	21.4	801
1989 YS6	1992 09	25.28491	01 54	44.39	+01 08	14.9	801
1989 YS6	1992 09	30.26848	01 51	36.48	+00 38	44.5	801
1989 YS6	1992 09	30.28648	01 51	35.66	+00 38	38.1	801
1989 YS6	1992 10	29.17311	01 26	01.61	-01 33	01.6	801

1989 YS6	1992 10	29.18902	01 26	00.76	-01 33	03.1	801
1990 BF	1992 10	29.12641	00 58	13.70	+13 29	00.9	801
1990 BF	1992 10	29.13765	00 58	13.09	+13 28	57.2	801
1990 BF2	1992 10	23.32983	05 40	28.34	+21 41	54.9	801
1990 BF2	1992 10	23.38608	05 40	28.77	+21 41	59.9	801
1990 DD	1992 09	30.18841	00 05	22.43	+15 02	56.5	801
1990 DD	1992 09	30.20234	00 05	21.44	+15 02	56.1	801
1990 DM	1992 09	25.06676	21 53	45.72	-20 31	35.1	r 801
1990 DM	1992 09	25.09331	21 53	45.06	-20 31	39.3	801
1990 DM	1992 09	30.07853	21 52	01.50	-20 41	56.9	801
1990 DM	1992 09	30.11337	21 52	00.82	-20 42	00.6	801
1990 DM2	1992 10	24.05639	23 34	36.36	+01 18	18.3	801
1990 DM2	1992 10	24.08382	23 34	35.67	+01 18	12.1	801
1990 DM2	1992 10	28.02757	23 33	14.16	+01 06	04.4	w 801
1990 DM2	1992 10	28.06671	23 33	13.36	+01 05	58.5	801
1990 FP	1992 10	01.30868	04 07	07.11	+04 02	36.7	801
1990 FP	1992 10	01.35516	04 07	06.68	+04 02	29.8	801
1990 FP	1992 10	23.32208	03 57	23.06	+03 06	07.8	801
1990 FP	1992 10	23.33786	03 57	22.38	+03 06	06.1	801
1990 FP	1992 10	29.28635	03 52	46.57	+02 54	08.6	801
1990 FP	1992 10	29.29872	03 52	45.91	+02 54	07.4	801
1990 FT1	1992 09	30.27758	02 39	50.98	-09 19	39.1	801
1990 FT1	1992 09	30.30278	02 39	50.27	-09 19	47.8	801
1991 CZ	1992 09	25.28809	02 57	26.47	-16 35	58.6	801
1991 CZ	1992 09	30.28508	02 56	28.09	-18 33	53.2	801
1991 CZ	1992 09	30.29774	02 56	27.81	-18 34	11.5	801
1991 EE1	1992 09	25.10756	22 23	11.97	-19 32	22.4	801
1991 EE1	1992 09	25.12587	22 23	11.14	-19 32	17.7	801
1991 EE1	1992 09	30.09723	22 20	03.38	-19 06	46.8	801
1991 EE1	1992 09	30.11843	22 20	02.63	-19 06	39.0	801
1991 EE1	1992 10	24.01944	22 16	58.00	-16 09	07.3	801
1991 EE1	1992 10	24.03638	22 16	58.21	-16 08	58.9	801
1991 EE1	1992 10	28.01212	22 18	17.84	-15 32	45.5	801
1991 EE1	1992 10	28.03890	22 18	18.42	-15 32	30.6	801
1991 FM	1992 09	25.15522	23 06	06.16	-04 15	59.8	801
1991 FM	1992 09	25.17046	23 06	05.31	-04 16	03.9	801
1991 FM	1992 10	01.11443	23 01	04.16	-04 40	16.6	801
1991 FM	1992 10	01.13295	23 01	03.23	-04 40	20.4	801
1991 GA	1992 10	01.09698	22 38	41.41	-19 35	29.0	801
1991 GA	1992 10	01.11710	22 38	40.67	-19 35	26.8	801
1991 GY	1992 10	01.22154	01 01	41.04	+06 02	50.4	801
1991 GY	1992 10	01.23565	01 01	40.18	+06 02	48.4	801
1991 GY	1992 10	28.13552	00 37	02.12	+05 01	54.7	801
1991 GY	1992 10	28.15453	00 37	01.26	+05 01	52.8	801
1991 GZ	1992 09	25.22039	00 40	50.93	+09 28	03.4	I 801
1991 GZ	1992 09	25.23280	00 40	50.19	+09 27	58.6	801
1991 GZ	1992 09	30.23626	00 36	10.09	+08 51	51.2	801
1991 GZ	1992 09	30.25186	00 36	09.20	+08 51	44.6	801
1991 GB1	1992 09	30.32360	03 43	35.38	+27 42	54.8	801
1991 GB1	1992 09	30.33793	03 43	35.08	+27 43	06.8	801
1991 GB1	1992 10	22.27171	03 24	35.44	+32 32	12.1	801
1991 GB1	1992 10	22.28178	03 24	34.59	+32 32	18.8	801
1991 GB1	1992 10	29.28110	03 13	54.73	+33 48	14.6	801
1991 GB1	1992 10	29.29120	03 13	53.69	+33 48	20.4	801
1991 GP1	1992 08	30.27206	23 47	55.98	-14 11	28.8	801
1991 GP1	1992 09	25.17811	23 28	06.97	-17 47	27.6	801
1991 GP1	1992 09	25.19448	23 28	06.26	-17 47	32.9	801
1991 HD	1992 10	23.32453	03 48	29.82	+12 54	00.2	801
1991 HD	1992 10	23.34032	03 48	29.02	+12 53	56.7	801

1991 HG	1992 09	25.19214	23 51	51.73	-04 58	11.0	801
1991 HG	1992 09	25.20427	23 51	51.01	-04 58	14.0	801
1991 JT	1992 09	25.15910	23 23	21.63	+10 29	40.5	801
1991 JT	1992 09	25.17348	23 23	20.93	+10 29	33.4	801
1991 JT	1992 10	02.06653	23 18	12.42	+09 33	39.5	801
1991 JT	1992 10	02.07903	23 18	11.90	+09 33	33.3	801
1991 JZ1	1992 09	25.06076	21 52	56.79	-19 46	40.7	801
1991 JZ1	1992 09	25.09078	21 52	56.15	-19 46	45.9	801
1991 JZ1	1992 10	02.05603	21 51	11.50	-20 03	37.4	801
1991 JZ1	1992 10	02.08958	21 51	11.12	-20 03	41.2	801
1991 JR2	1992 09	25.11350	22 27	04.98	-08 00	56.7	801
1991 JR2	1992 09	25.13304	22 27	04.34	-08 01	05.3	801
1991 NH1	1992 10	28.33456	04 51	54.99	+24 27	12.8	801
1991 NH1	1992 10	28.36148	04 51	54.16	+24 27	12.7	801
1991 NK1	1992 10	01.28767	03 00	17.55	+02 35	29.3	801
1991 NK1	1992 10	01.31127	03 00	16.96	+02 35	22.4	801
1991 NK1	1992 10	28.23514	02 43	50.38	+00 29	25.9	801
1991 NK1	1992 10	28.25312	02 43	49.55	+00 29	21.6	801
1991 NX1	1992 10	28.14788	01 27	38.33	+26 18	35.4	801
1991 NX1	1992 10	28.16418	01 27	37.39	+26 18	31.5	801
1991 PJ	1992 10	29.34240	07 46	54.47	+13 55	29.1	801
1991 PJ	1992 10	29.36328	07 46	55.35	+13 55	26.8	801
1991 PM8	1992 10	23.35601	06 17	34.57	+22 20	16.2	801
1991 PM8	1992 10	23.37296	06 17	35.23	+22 20	15.5	801
1991 PM8	1992 10	28.37005	06 20	30.46	+22 17	14.4	801
1991 PM8	1992 10	28.39733	06 20	31.23	+22 17	13.2	801
1991 PH11	1992 10	23.32728	05 41	07.61	+21 28	05.5	801
1991 PH11	1992 10	28.33946	05 40	22.71	+21 17	05.7	801
1991 PH11	1992 10	28.38516	05 40	22.00	+21 16	59.2	801
1991 PA12	1992 10	22.31103	04 12	40.28	+24 47	59.8	801
1991 PA12	1992 10	22.33105	04 12	39.49	+24 47	57.2	801
1991 PA12	1992 10	24.30384	04 11	24.20	+24 43	52.5	801
1991 PA12	1992 10	24.32159	04 11	23.46	+24 43	50.1	801
1991 PH12	1992 10	23.36069	06 37	43.34	+31 18	17.7	801
1991 PH12	1992 10	23.39193	06 37	44.16	+31 18	17.3	801
1991 PH12	1992 10	28.37227	06 39	28.75	+31 15	22.0	801
1991 PH12	1992 10	28.42332	06 39	29.49	+31 15	18.5	801
1991 PO14	1992 10	01.29487	03 12	55.64	+29 28	03.4	801
1991 PO14	1992 10	01.34505	03 12	54.56	+29 28	14.3	801
1991 PO14	1992 10	22.25830	03 00	00.44	+30 13	51.4	801
1991 PO14	1992 10	22.27426	02 59	59.61	+30 13	52.0	801
1991 PO14	1992 10	29.23618	02 53	45.24	+30 13	09.3	801
1991 PO14	1992 10	29.25399	02 53	44.17	+30 13	08.1	801
1992 HE	1992 09	25.29547	03 28	00.47	+08 05	36.7	801
1992 HE	1992 09	25.29795	03 28	00.03	+08 05	41.1	801
1992 HE	1992 09	30.29292	03 13	09.25	+10 41	00.5	801
1992 HE	1992 09	30.29486	03 13	08.88	+10 41	04.2	801
1992 HE	1992 10	22.14880	01 58	33.00	+19 51	57.4	801
1992 HE	1992 10	22.15491	01 58	31.77	+19 52	03.9	801
1992 HE	1992 10	28.19019	01 39	52.00	+21 25	18.5	801
1992 HE	1992 10	28.19855	01 39	50.53	+21 25	25.1	801
1992 JE	1992 10	01.99453	19 37	13.13	-14 49	45.2	801
1992 JE	1992 10	02.00443	19 37	15.78	-14 49	48.1	801
1992 JE	1992 10	27.98519	21 20	55.46	-13 16	40.7	801
1992 LR	1992 09	24.11056	22 52	07.52	+01 35	59.3	801
1992 LR	1992 09	24.12050	22 52	08.26	+01 35	55.6	801
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1992 NA	1992 09	25.31402	04 32	16.23	+46 29	41.8	801

1992 NA	1992 09	25.31582	04 32	16.56	+46	29	47.3	801
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1992 NA	1992 10	28.17410	05 05	18.28	+57	41	48.5	801
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1992 OE	1992 09	24.12681	22 25	54.95	+09	23	47.8	801
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1992 SR2	1992 09	30.23972	01 29	24.03	+09	35	09.8	801
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1992 SR2	1992 10	01.24852	01 28	27.46	+09	34	07.6	801
1992 SR2	1992 10	22.17013	01 07	56.29	+09	03	12.8	801
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18.5



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2141 T-3		1992 10 01.29966	02 40 33.35	+21 57 49.2		801
2141 T-3		1992 10 28.20259	02 22 43.95	+20 05 17.9		801
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 PPM

1980 FH1	1992 09 02.14306	23 03 52.32	-07 08 44.9	19.0	809
1980 FH1	1992 09 02.15347	23 03 51.78	-07 08 46.5		809
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1981 EV27	1992 09 03.23403	23 06 59.84	-03 31 45.5		809
1981 EA42	1992 09 02.14306	22 53 38.35	-03 38 46.5	18.5	809
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1981 EA42	1992 09 03.23403	22 52 43.82	-03 50 30.8		809
1981 SY1	1991 08 04.09444	21 15 43.35	-16 45 52.4		809
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1991 PB4	1991 08 04.09444	21 10 26.10	-14 29 58.7		809
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1991 PK4	1991 08 04.09444	21 11 48.64	-13 54 56.5		809
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1992 RH2	*	1992 09 02.14306	22 56 01.97	-03 30 01.5	18.5	809
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1992 RL2	*	1992 09 02.14306	22 56 42.53	-03 26 22.7	18.4	809
1992 RL2		1992 09 02.15347	22 56 41.99	-03 26 26.9		809
1992 RL2		1992 09 02.16389	22 56 41.35	-03 26 29.5		809
1992 RL2		1992 09 03.23403	22 55 50.08	-03 32 49.0		809
1992 RM2	*	1992 09 02.14306	22 56 48.22	-06 20 48.8	18.2	809
1992 RM2		1992 09 02.15347	22 56 47.39	-06 20 47.4		809
1992 RM2		1992 09 02.16389	22 56 46.63	-06 20 45.5		809
1992 RM2		1992 09 03.23403	22 55 34.09	-06 17 35.5		809
1992 RN2	*	1992 09 02.14306	22 56 56.88	-06 06 37.4	18.2	809
1992 RN2		1992 09 02.15347	22 56 56.34	-06 06 43.8		809
1992 RN2		1992 09 02.16389	22 56 55.71	-06 06 50.3		809
1992 RN2		1992 09 03.23403	22 56 01.14	-06 17 34.6		809
1992 RO2	*	1992 09 02.14306	22 57 19.12	-02 55 48.7	18.7	809
1992 RO2		1992 09 02.15347	22 57 18.75	-02 55 54.3		809
1992 RO2		1992 09 02.16389	22 57 18.37	-02 55 59.4		809
1992 RO2		1992 09 03.23403	22 56 30.60	-03 07 31.8		809
1992 RP2	*	1992 09 02.14306	22 58 12.02	-07 17 43.9	18.5	809
1992 RP2		1992 09 02.15347	22 58 11.37	-07 17 48.5		809
1992 RP2		1992 09 02.16389	22 58 10.65	-07 17 53.5		809
1992 RP2		1992 09 03.23403	22 57 10.84	-07 23 55.3		809
1992 RQ2	*	1992 09 02.14306	22 58 27.49	-06 42 32.6	18.6	809
1992 RQ2		1992 09 02.15347	22 58 26.86	-06 42 36.1		809
1992 RQ2		1992 09 02.16389	22 58 26.28	-06 42 38.8		809

1992 RQ2		1992 09 03.23403	22 57 35.18	-06 47 21.9		809
1992 RR2	*	1992 09 02.14306	22 58 31.58	-07 21 02.1	18.6	809
1992 RR2		1992 09 02.15347	22 58 31.16	-07 21 09.3		809
1992 RR2		1992 09 02.16389	22 58 30.67	-07 21 16.0		809
1992 RR2		1992 09 03.23403	22 57 49.43	-07 32 59.5		809
1992 RT2	*	1992 09 02.14306	22 58 50.95	-06 52 04.3	18.2	809
1992 RT2		1992 09 02.15347	22 58 50.45	-06 52 10.4		809
1992 RT2		1992 09 02.16389	22 58 49.87	-06 52 17.3		809
1992 RT2		1992 09 03.23403	22 58 01.64	-07 02 44.0		809
1992 RU2	*	1992 09 02.14306	22 58 50.97	-03 07 47.3	18.6	809
1992 RU2		1992 09 02.15347	22 58 50.46	-03 07 52.2		809
1992 RU2		1992 09 02.16389	22 58 49.86	-03 07 56.7		809
1992 RU2		1992 09 03.23403	22 58 01.64	-03 15 31.0		809
1992 RV2	*	1992 09 02.14306	22 58 59.50	-04 51 08.4	18.5	809
1992 RV2		1992 09 02.15347	22 58 59.06	-04 51 12.9		809
1992 RV2		1992 09 02.16389	22 58 58.56	-04 51 18.7		809
1992 RV2		1992 09 03.23403	22 58 11.39	-04 59 52.9		809
1992 RW2	*	1992 09 02.14306	22 59 15.00	-03 18 09.3	18.3	809
1992 RW2		1992 09 02.15347	22 59 14.33	-03 18 10.0		809
1992 RW2		1992 09 02.16389	22 59 13.62	-03 18 11.0		809
1992 RW2		1992 09 03.23403	22 58 07.99	-03 19 16.3		809
1992 RX2	*	1992 09 02.14306	22 59 15.18	-05 25 18.2	18.5	809
1992 RX2		1992 09 02.15347	22 59 14.45	-05 25 20.0		809
1992 RX2		1992 09 02.16389	22 59 13.71	-05 25 22.6		809
1992 RX2		1992 09 03.23403	22 58 05.34	-05 28 46.5		809
1992 RY2	*	1992 09 02.14306	22 59 25.64	-05 50 33.5	19.2	809
1992 RY2		1992 09 02.15347	22 59 24.81	-05 50 34.0		809
1992 RY2		1992 09 02.16389	22 59 24.15	-05 50 35.1		809
1992 RY2		1992 09 03.23403	22 58 16.92	-05 51 19.8		809
1992 RZ2	*	1992 09 02.14306	22 59 28.74	-05 57 14.0	18.4	809
1992 RZ2		1992 09 02.15347	22 59 27.96	-05 57 11.3		809
1992 RZ2		1992 09 02.16389	22 59 27.13	-05 57 08.6		809
1992 RZ2		1992 09 03.23403	22 58 09.28	-05 52 00.4		809
1992 RA3	*	1992 09 02.14306	22 59 32.59	-04 07 59.6	19.5	809
1992 RA3		1992 09 02.15347	22 59 32.02	-04 08 03.4		809
1992 RA3		1992 09 02.16389	22 59 31.51	-04 08 06.4		809
1992 RA3		1992 09 03.23403	22 58 38.11	-04 12 48.3		809
1992 RB3	*	1992 09 02.14306	22 59 52.39	-05 28 14.9	18.2	809
1992 RB3		1992 09 02.15347	22 59 51.84	-05 28 17.6		809
1992 RB3		1992 09 02.16389	22 59 51.30	-05 28 21.2		809
1992 RB3		1992 09 03.23403	22 59 01.94	-05 33 27.0		809
1992 RC3	*	1992 09 02.14306	23 00 02.37	-05 15 01.6	19.2	809
1992 RC3		1992 09 02.15347	23 00 01.87	-05 15 05.4		809
1992 RC3		1992 09 02.16389	23 00 01.33	-05 15 09.6		809
1992 RC3		1992 09 03.23403	22 59 04.01	-05 21 58.7		809
1992 RD3	*	1992 09 02.14306	23 00 04.16	-03 21 50.8	18.4	809
1992 RD3		1992 09 02.15347	23 00 03.39	-03 21 52.7		809
1992 RD3		1992 09 02.16389	23 00 02.73	-03 21 54.2		809
1992 RD3		1992 09 03.23403	22 58 57.15	-03 24 24.8		809
1992 RE3	*	1992 09 02.14306	23 00 37.69	-04 02 57.7	18.2	809
1992 RE3		1992 09 02.15347	23 00 37.26	-04 03 07.4		809
1992 RE3		1992 09 02.16389	23 00 36.83	-04 03 19.1		809
1992 RE3		1992 09 03.23403	22 59 56.17	-04 21 04.9		809
1992 RF3	*	1992 09 02.14306	23 00 57.09	-03 06 34.4	18.8	809
1992 RF3		1992 09 02.15347	23 00 56.51	-03 06 37.0		809
1992 RF3		1992 09 02.16389	23 00 55.88	-03 06 39.9		809
1992 RF3		1992 09 03.23403	23 00 01.28	-03 11 13.6		809
1992 RG3	*	1992 09 02.14306	23 01 22.69	-02 37 19.4	18.5	809
1992 RG3		1992 09 02.15347	23 01 22.28	-02 37 28.8		809

1992 RG3		1992 09 02.16389	23 01 21.85	-02 37 40.2		809
1992 RG3		1992 09 03.23403	23 00 43.24	-02 54 25.4		809
1992 RH3	*	1992 09 02.14306	23 01 28.31	-04 08 58.0	18.5	809
1992 RH3		1992 09 02.15347	23 01 27.76	-04 09 00.9		809
1992 RH3		1992 09 02.16389	23 01 27.15	-04 09 05.8		809
1992 RH3		1992 09 03.23403	23 00 30.26	-04 15 38.1		809
1992 RJ3	*	1992 09 02.14306	23 01 39.55	-06 45 35.1	18.5	809
1992 RJ3		1992 09 02.15347	23 01 38.88	-06 45 36.8		809
1992 RJ3		1992 09 02.16389	23 01 38.16	-06 45 39.5		809
1992 RJ3		1992 09 03.23403	23 00 31.23	-06 48 17.4		809
1992 RK3	*	1992 09 02.14306	23 02 07.71	-05 57 54.4	18.6	809
1992 RK3		1992 09 02.15347	23 02 07.17	-05 57 56.7		809
1992 RK3		1992 09 02.16389	23 02 06.69	-05 57 58.8		809
1992 RK3		1992 09 03.23403	23 01 18.80	-06 01 35.4		809
1992 RL3	*	1992 09 02.14306	23 02 07.81	-04 37 12.8	18.4	809
1992 RL3		1992 09 02.15347	23 02 07.33	-04 37 18.8		809
1992 RL3		1992 09 02.16389	23 02 06.69	-04 37 25.9		809
1992 RL3		1992 09 03.23403	23 01 18.60	-04 48 17.0		809
1992 RM3	*	1992 09 02.14306	23 02 24.21	-05 08 10.5	18.8	809
1992 RM3		1992 09 02.15347	23 02 23.60	-05 08 13.4		809
1992 RM3		1992 09 02.16389	23 02 22.94	-05 08 17.4		809
1992 RM3		1992 09 03.23403	23 01 22.73	-05 13 55.7		809
1992 RN3	*	1992 09 02.14306	23 02 33.19	-06 10 17.7	18.6	809
1992 RN3		1992 09 02.15347	23 02 32.49	-06 10 24.0		809
1992 RN3		1992 09 02.16389	23 02 31.86	-06 10 29.9		809
1992 RN3		1992 09 03.23403	23 01 32.07	-06 19 45.4		809
1992 RO3	*	1992 09 02.14306	23 02 40.08	-05 41 21.6	19.2	809
1992 RO3		1992 09 02.15347	23 02 39.39	-05 41 25.2		809
1992 RO3		1992 09 02.16389	23 02 38.99	-05 41 28.2		809
1992 RO3		1992 09 03.23403	23 01 49.72	-05 46 41.0		809
1992 RP3	*	1992 09 02.14306	23 02 48.62	-05 25 32.3	18.6	809
1992 RP3		1992 09 02.15347	23 02 48.10	-05 25 38.8		809
1992 RP3		1992 09 02.16389	23 02 47.52	-05 25 45.7		809
1992 RP3		1992 09 03.23403	23 01 55.60	-05 36 31.6		809
1992 RQ3	*	1992 09 02.14306	23 02 52.01	-04 25 59.5	18.3	809
1992 RQ3		1992 09 02.15347	23 02 51.25	-04 25 56.4		809
1992 RQ3		1992 09 02.16389	23 02 50.41	-04 25 53.3		809
1992 RQ3		1992 09 03.23403	23 01 31.97	-04 20 00.1		809
1992 RR3	*	1992 09 02.14306	23 03 24.05	-04 18 54.6	18.6	809
1992 RR3		1992 09 02.15347	23 03 23.34	-04 18 55.7		809
1992 RR3		1992 09 02.16389	23 03 22.61	-04 18 57.2		809
1992 RR3		1992 09 03.23403	23 02 13.79	-04 20 43.3		809
1992 RS3	*	1992 09 02.14306	23 03 26.13	-02 34 59.5	18.2	809
1992 RS3		1992 09 02.15347	23 03 25.56	-02 35 03.4		809
1992 RS3		1992 09 02.16389	23 03 24.94	-02 35 08.0		809
1992 RS3		1992 09 03.23403	23 02 29.08	-02 42 28.2		809
1992 RT3	*	1992 09 02.14306	23 03 26.85	-05 51 18.5	19.2	809
1992 RT3		1992 09 02.15347	23 03 26.01	-05 51 19.4		809
1992 RT3		1992 09 02.16389	23 03 25.38	-05 51 20.6		809
1992 RT3		1992 09 03.23403	23 02 23.22	-05 52 58.4		809
1992 RU3	*	1992 09 02.14306	23 03 31.57	-04 24 52.8	18.5	809
1992 RU3		1992 09 02.15347	23 03 30.91	-04 24 55.4		809
1992 RU3		1992 09 02.16389	23 03 30.23	-04 24 58.4		809
1992 RU3		1992 09 03.23403	23 02 24.95	-04 29 19.7		809
1992 RV3	*	1992 09 02.14306	23 03 34.64	-03 03 52.2	18.5	809
1992 RV3		1992 09 02.15347	23 03 33.99	-03 03 53.1		809
1992 RV3		1992 09 02.16389	23 03 33.35	-03 03 54.7		809
1992 RV3		1992 09 03.23403	23 02 35.33	-03 06 16.7		809
1992 RW3	*	1992 09 02.14306	23 03 43.58	-04 48 53.3	19.0	809

1992 RW3		1992 09 02.15347	23 03 43.06	-04 48 56.4		809
1992 RW3		1992 09 02.16389	23 03 42.42	-04 49 00.5		809
1992 RW3		1992 09 03.23403	23 02 52.40	-04 54 01.1		809
1992 RX3	*	1992 09 02.14306	23 03 51.74	-06 00 18.7	18.5	809
1992 RX3		1992 09 02.15347	23 03 51.13	-06 00 22.2		809
1992 RX3		1992 09 02.16389	23 03 50.52	-06 00 25.1		809
1992 RX3		1992 09 03.23403	23 02 51.66	-06 05 47.1		809
1992 RY3	*	1992 09 02.14306	23 03 55.67	-03 45 32.0	18.4	809
1992 RY3		1992 09 02.15347	23 03 54.94	-03 45 33.0		809
1992 RY3		1992 09 02.16389	23 03 54.27	-03 45 33.8		809
1992 RY3		1992 09 03.23403	23 02 48.18	-03 46 48.7		809
1992 RZ3	*	1992 09 02.14306	23 04 06.54	-05 06 07.8	18.6	809
1992 RZ3		1992 09 02.15347	23 04 05.87	-05 06 11.5		809
1992 RZ3		1992 09 02.16389	23 04 05.24	-05 06 16.0		809
1992 RZ3		1992 09 03.23403	23 03 03.89	-05 12 56.2		809
1992 RA4	*	1992 09 02.14306	23 04 12.56	-05 26 20.6	18.5	809
1992 RA4		1992 09 02.15347	23 04 11.89	-05 26 24.7		809
1992 RA4		1992 09 02.16389	23 04 11.25	-05 26 28.5		809
1992 RA4		1992 09 03.23403	23 03 09.56	-05 31 59.4		809
1992 RB4	*	1992 09 02.14306	23 04 20.30	-05 31 26.2	18.6	809
1992 RB4		1992 09 02.15347	23 04 19.80	-05 31 30.8		809
1992 RB4		1992 09 02.16389	23 04 19.15	-05 31 35.0		809
1992 RB4		1992 09 03.23403	23 03 26.88	-05 39 24.3		809
1992 RC4	*	1992 09 02.14306	23 04 27.81	-03 09 24.5	18.6	809
1992 RC4		1992 09 02.15347	23 04 27.19	-03 09 28.8		809
1992 RC4		1992 09 02.16389	23 04 26.64	-03 09 32.3		809
1992 RC4		1992 09 03.23403	23 03 34.64	-03 15 09.2		809
1992 RD4	*	1992 09 02.14306	23 04 32.69	-04 16 00.0	18.6	809
1992 RD4		1992 09 02.15347	23 04 32.06	-04 16 01.7		809
1992 RD4		1992 09 02.16389	23 04 31.53	-04 16 03.0		809
1992 RD4		1992 09 03.23403	23 03 37.07	-04 18 26.5		809
1992 RE4	*	1992 09 02.14306	23 04 49.26	-05 14 40.7	18.5	809
1992 RE4		1992 09 02.15347	23 04 49.02	-05 15 04.9		809
1992 RE4		1992 09 02.16389	23 04 48.78	-05 15 27.8		809
1992 RE4		1992 09 03.23403	23 04 26.41	-05 56 55.5		809
1992 RF4	*	1992 09 02.14306	23 05 00.50	-03 17 36.9	18.6	809
1992 RF4		1992 09 02.15347	23 04 59.93	-03 17 39.8		809
1992 RF4		1992 09 02.16389	23 04 59.33	-03 17 42.5		809
1992 RF4		1992 09 03.23403	23 04 04.28	-03 22 07.6		809
1992 RG4	*	1992 09 02.14306	23 05 10.97	-05 09 52.6	18.5	809
1992 RG4		1992 09 02.15347	23 05 10.47	-05 09 59.6		809
1992 RG4		1992 09 02.16389	23 05 10.00	-05 10 06.7		809
1992 RG4		1992 09 03.23403	23 04 26.24	-05 21 45.5		809
1992 RH4	*	1992 09 02.14306	23 05 15.00	-06 57 22.1	18.3	809
1992 RH4		1992 09 02.15347	23 05 14.42	-06 57 25.6		809
1992 RH4		1992 09 02.16389	23 05 13.92	-06 57 28.3		809
1992 RH4		1992 09 03.23403	23 04 25.44	-07 01 57.8		809
1992 RJ4	*	1992 09 02.14306	23 05 25.40	-06 07 19.4	18.4	809
1992 RJ4		1992 09 02.15347	23 05 24.82	-06 07 23.1		809
1992 RJ4		1992 09 02.16389	23 05 24.25	-06 07 27.4		809
1992 RJ4		1992 09 03.23403	23 04 30.52	-06 13 44.3		809
1992 RK4	*	1992 09 02.14306	23 05 32.82	-05 02 19.1	18.6	809
1992 RK4		1992 09 02.15347	23 05 32.43	-05 02 30.4		809
1992 RK4		1992 09 02.16389	23 05 31.87	-05 02 45.3		809
1992 RK4		1992 09 03.23403	23 04 46.69	-05 25 07.7		809
1992 RL4	*	1992 09 02.14306	23 05 48.63	-02 50 40.2	18.6	809
1992 RL4		1992 09 02.15347	23 05 48.07	-02 50 43.2		809
1992 RL4		1992 09 02.16389	23 05 47.46	-02 50 46.5		809
1992 RL4		1992 09 03.23403	23 04 55.68	-02 56 10.9		809

1992 RM4	*	1992 09 02.14306	23 05 56.55	-05 10 01.0	19.0	809
1992 RM4		1992 09 02.15347	23 05 56.27	-05 10 06.1		809
1992 RM4		1992 09 02.16389	23 05 55.78	-05 10 11.9		809
1992 RM4		1992 09 03.23403	23 05 05.39	-05 20 53.2		809
1992 RN4	*	1992 09 02.14306	23 05 58.35	-05 07 42.8	18.4	809
1992 RN4		1992 09 02.15347	23 05 57.86	-05 07 46.7		809
1992 RN4		1992 09 02.16389	23 05 57.37	-05 07 50.1		809
1992 RN4		1992 09 03.23403	23 05 08.81	-05 13 34.9		809
1992 RO4	*	1992 09 02.14306	23 06 16.07	-03 51 33.0	19.0	809
1992 RO4		1992 09 02.15347	23 06 15.39	-03 51 34.6		809
1992 RO4		1992 09 02.16389	23 06 14.82	-03 51 35.9		809
1992 RO4		1992 09 03.23403	23 05 11.64	-03 53 53.4		809
1992 RP4	*	1992 09 02.14306	23 06 19.68	-04 40 45.3	18.6	809
1992 RP4		1992 09 02.15347	23 06 19.27	-04 40 47.7		809
1992 RP4		1992 09 02.16389	23 06 18.83	-04 40 50.0		809
1992 RP4		1992 09 03.23403	23 05 38.59	-04 44 24.0		809
1992 RQ4	*	1992 09 02.14306	23 06 26.65	-06 43 39.8	19.2	809
1992 RQ4		1992 09 02.15347	23 06 26.02	-06 43 43.1		809
1992 RQ4		1992 09 02.16389	23 06 25.37	-06 43 46.9		809
1992 RQ4		1992 09 03.23403	23 05 20.54	-06 48 40.6		809
1992 RR4	*	1992 09 02.14306	23 06 31.66	-03 29 01.5	18.3	809
1992 RR4		1992 09 02.15347	23 06 31.08	-03 29 08.0		809
1992 RR4		1992 09 02.16389	23 06 30.57	-03 29 13.1		809
1992 RR4		1992 09 03.23403	23 05 38.60	-03 38 46.2		809
1992 RS4	*	1992 09 02.14306	23 06 58.03	-04 45 54.4	18.6	809
1992 RS4		1992 09 02.15347	23 06 57.43	-04 45 57.9		809
1992 RS4		1992 09 02.16389	23 06 56.79	-04 46 01.6		809
1992 RS4		1992 09 03.23403	23 05 59.73	-04 50 57.8		809
1992 RT4	*	1992 09 02.14306	23 07 08.61	-06 36 06.7	18.7	809
1992 RT4		1992 09 02.15347	23 07 08.03	-06 36 11.9		809
1992 RT4		1992 09 02.16389	23 07 07.38	-06 36 16.5		809
1992 RT4		1992 09 03.23403	23 06 10.64	-06 44 13.3		809
1992 RU4	*	1992 09 02.14306	23 07 19.75	-06 33 46.2	18.7	809
1992 RU4		1992 09 02.15347	23 07 19.09	-06 33 48.3		809
1992 RU4		1992 09 02.16389	23 07 18.55	-06 33 50.9		809
1992 RU4		1992 09 03.23403	23 06 24.08	-06 37 17.5		809
1992 RV4	*	1992 09 02.14306	23 07 34.40	-03 01 23.1	18.6	809
1992 RV4		1992 09 02.15347	23 07 34.00	-03 01 32.1		809
1992 RV4		1992 09 02.16389	23 07 33.62	-03 01 42.1		809
1992 RV4		1992 09 03.23403	23 06 54.87	-03 17 46.8		809
1992 RW4	*	1992 09 02.14306	23 07 43.56	-03 51 42.1	18.5	809
1992 RW4		1992 09 02.15347	23 07 43.00	-03 51 45.1		809
1992 RW4		1992 09 02.16389	23 07 42.47	-03 51 48.0		809
1992 RW4		1992 09 03.23403	23 06 51.64	-03 56 36.3		809
1992 RX4	*	1992 09 02.14306	23 07 56.70	-07 11 53.9	18.3	809
1992 RX4		1992 09 02.15347	23 07 56.17	-07 11 59.7		809
1992 RX4		1992 09 02.16389	23 07 55.67	-07 12 05.3		809
1992 RX4		1992 09 03.23403	23 07 11.01	-07 20 58.5		809
1992 RY4	*	1992 09 02.14306	23 07 57.27	-05 04 20.8	18.6	809
1992 RY4		1992 09 02.15347	23 07 56.66	-05 04 24.4		809
1992 RY4		1992 09 02.16389	23 07 56.02	-05 04 26.6		809
1992 RY4		1992 09 03.23403	23 06 59.55	-05 09 29.1		809
1992 RZ4	*	1992 09 02.14306	23 08 24.20	-02 40 46.0	18.5	809
1992 RZ4		1992 09 02.15347	23 08 23.78	-02 40 54.7		809
1992 RZ4		1992 09 02.16389	23 08 23.35	-02 41 02.9		809
1992 RZ4		1992 09 03.23403	23 07 41.42	-02 54 58.5		809
1992 RA5	*	1992 09 02.14306	23 08 30.56	-03 35 03.1	18.0	809
1992 RA5		1992 09 02.15347	23 08 30.08	-03 35 07.0		809
1992 RA5		1992 09 02.16389	23 08 29.56	-03 35 11.8		809



1992 RA5		1992 09 03.23403	23 07 43.55	-03 42 13.5		809
1992 RB5	*	1992 09 02.14306	23 08 48.33	-06 00 23.8	18.3	809
1992 RB5		1992 09 02.15347	23 08 47.81	-06 00 27.0		809
1992 RB5		1992 09 02.16389	23 08 47.31	-06 00 30.3		809
1992 RB5		1992 09 03.23403	23 07 59.57	-06 05 46.6		809
1992 RC5	*	1992 09 02.14306	23 09 09.22	-06 27 34.6	18.6	809
1992 RC5		1992 09 02.15347	23 09 08.64	-06 27 38.7		809
1992 RC5		1992 09 02.16389	23 09 07.95	-06 27 42.1		809
1992 RC5		1992 09 03.23403	23 08 06.13	-06 33 08.9		809
1992 RD5	*	1992 09 02.14306	23 09 36.80	-02 51 25.6	19.0	809
1992 RD5		1992 09 02.15347	23 09 36.20	-02 51 25.6		809
1992 RD5		1992 09 02.16389	23 09 35.62	-02 51 25.9		809
1992 RD5		1992 09 03.23403	23 08 34.08	-02 52 11.8		809
1992 RE5	*	1992 09 02.14306	23 10 02.90	-06 11 11.7	18.5	809
1992 RE5		1992 09 02.15347	23 10 02.23	-06 11 15.3		809
1992 RE5		1992 09 02.16389	23 10 01.52	-06 11 19.5		809
1992 RE5		1992 09 03.23403	23 08 59.36	-06 16 54.7		809
1992 RF5	*	1992 09 02.14306	23 10 26.67	-04 44 30.6	18.5	809
1992 RF5		1992 09 02.15347	23 10 26.15	-04 44 34.3		809
1992 RF5		1992 09 02.16389	23 10 25.62	-04 44 38.1		809
1992 RF5		1992 09 03.23403	23 09 36.07	-04 50 42.6		809
1992 RG5	*	1992 09 02.18403	00 00 09.90	-03 28 32.5	19.0	809
1992 RG5		1992 09 02.19444	00 00 09.40	-03 28 35.1		809
1992 RG5		1992 09 02.20486	00 00 08.91	-03 28 39.1		809
1992 RG5		1992 09 03.27222	23 59 26.60	-03 33 54.3		809
1992 RH5	*	1992 09 02.18403	00 00 19.78	-05 30 41.1	18.6	809
1992 RH5		1992 09 02.19444	00 00 19.32	-05 30 43.9		809
1992 RH5		1992 09 02.20486	00 00 18.84	-05 30 47.3		809
1992 RH5		1992 09 03.27222	23 59 36.33	-05 35 44.0		809
1992 RJ5	*	1992 09 02.18403	00 00 48.55	-05 55 17.3	18.4	809
1992 RJ5		1992 09 02.19444	00 00 48.14	-05 55 19.9		809
1992 RJ5		1992 09 02.20486	00 00 47.72	-05 55 23.1		809
1992 RJ5		1992 09 03.27222	00 00 07.85	-06 00 33.6		809
1992 RK5	*	1992 09 02.18403	00 00 53.14	-06 51 13.5	19.2	809
1992 RK5		1992 09 02.19444	00 00 52.64	-06 51 18.0		809
1992 RK5		1992 09 02.20486	00 00 52.31	-06 51 20.0		809
1992 RK5		1992 09 03.27222	00 00 17.71	-06 56 22.6		809
1992 RL5	*	1992 09 02.18403	00 01 18.73	-04 08 53.1	18.5	809
1992 RL5		1992 09 02.19444	00 01 18.25	-04 08 53.4		809
1992 RL5		1992 09 02.20486	00 01 17.79	-04 08 52.7		809
1992 RL5		1992 09 03.27222	00 00 30.35	-04 08 42.9		809
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1992 RM5		1992 09 02.19444	00 01 36.75	-04 00 23.3		809
1992 RM5		1992 09 02.20486	00 01 36.35	-04 00 26.2		809
1992 RM5		1992 09 03.27222	00 00 51.21	-04 04 25.7		809
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1992 RN5		1992 09 02.19444	00 01 44.81	-05 15 48.3		809
1992 RN5		1992 09 02.20486	00 01 44.34	-05 15 49.3		809
1992 RN5		1992 09 03.27222	00 00 59.63	-05 17 08.5		809
1992 RO5	*	1992 09 02.18403	00 02 19.57	-06 28 35.4	18.2	809
1992 RO5		1992 09 02.19444	00 02 19.11	-06 28 39.5		809
1992 RO5		1992 09 02.20486	00 02 18.62	-06 28 43.1		809
1992 RO5		1992 09 03.27222	00 01 32.46	-06 35 19.5		809
1992 RP5	*	1992 09 02.18403	00 02 21.17	-06 56 49.1	18.4	809
1992 RP5		1992 09 02.19444	00 02 20.75	-06 56 52.9		809
1992 RP5		1992 09 02.20486	00 02 20.37	-06 56 56.2		809
1992 RP5		1992 09 03.27222	00 01 44.85	-07 02 18.1		809
1992 RQ5	*	1992 09 02.18403	00 02 27.66	-02 19 21.2	18.6	809
1992 RQ5		1992 09 02.19444	00 02 27.14	-02 19 22.4		809

1992 RQ5		1992 09 02.20486	00 02 26.61	-02 19 23.6		809
1992 RQ5		1992 09 03.27222	00 01 32.58	-02 21 32.2		809
1992 RR5	*	1992 09 02.18403	00 02 32.25	-06 32 53.3	18.6	809
1992 RR5		1992 09 02.19444	00 02 31.65	-06 32 57.4		809
1992 RR5		1992 09 02.20486	00 02 31.13	-06 33 01.8		809
1992 RR5		1992 09 03.27222	00 01 42.30	-06 39 34.2		809
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1992 RS5		1992 09 02.19444	00 02 41.88	-04 46 45.8		809
1992 RS5		1992 09 02.20486	00 02 41.40	-04 46 47.4		809
1992 RS5		1992 09 03.27222	00 01 49.61	-04 51 06.8		809
1992 RT5	*	1992 09 02.18403	00 03 02.21	-05 03 02.7	19.5	809
1992 RT5		1992 09 02.19444	00 03 01.61	-05 03 03.3		809
1992 RT5		1992 09 02.20486	00 03 00.93	-05 03 04.1		809
1992 RT5		1992 09 03.27222	00 01 57.42	-05 04 46.5		809
1992 RU5	*	1992 09 02.18403	00 03 07.44	-04 44 44.8	19.2	809
1992 RU5		1992 09 02.19444	00 03 06.88	-04 44 46.7		809
1992 RU5		1992 09 02.20486	00 03 06.47	-04 44 49.5		809
1992 RU5		1992 09 03.27222	00 02 24.48	-04 48 29.0		809
1992 RV5	*	1992 09 02.18403	00 03 32.51	-06 42 25.7	18.6	809
1992 RV5		1992 09 02.19444	00 03 31.98	-06 42 30.2		809
1992 RV5		1992 09 02.20486	00 03 31.45	-06 42 34.2		809
1992 RV5		1992 09 03.27222	00 02 43.05	-06 48 50.3		809
1992 RW5	*	1992 09 02.18403	00 03 32.64	-02 37 09.6	19.0	809
1992 RW5		1992 09 02.19444	00 03 32.31	-02 37 12.1		809
1992 RW5		1992 09 02.20486	00 03 31.90	-02 37 14.4		809
1992 RW5		1992 09 03.27222	00 02 52.65	-02 42 05.9		809
1992 RX5	*	1992 09 02.18403	00 04 05.12	-03 45 27.0	18.6	809
1992 RX5		1992 09 02.19444	00 04 04.76	-03 45 30.6		809
1992 RX5		1992 09 02.20486	00 04 04.35	-03 45 32.7		809
1992 RX5		1992 09 03.27222	00 03 27.79	-03 50 30.1		809
1992 RY5	*	1992 09 02.18403	00 04 14.61	-02 49 27.1	18.7	809
1992 RY5		1992 09 02.19444	00 04 14.28	-02 49 34.6		809
1992 RY5		1992 09 02.20486	00 04 13.99	-02 49 41.9		809
1992 RY5		1992 09 03.27222	00 03 45.20	-03 01 30.5		809
1992 RZ5	*	1992 09 02.18403	00 04 16.66	-04 39 26.8	19.2	809
1992 RZ5		1992 09 02.19444	00 04 16.05	-04 39 31.2		809
1992 RZ5		1992 09 02.20486	00 04 15.57	-04 39 35.4		809
1992 RZ5		1992 09 03.27222	00 03 25.69	-04 45 45.0		809
1992 RA6	*	1992 09 02.18403	00 04 38.55	-05 32 58.1	19.0	809
1992 RA6		1992 09 02.19444	00 04 37.97	-05 33 02.9		809
1992 RA6		1992 09 02.20486	00 04 37.51	-05 33 06.2		809
1992 RA6		1992 09 03.27222	00 03 50.75	-05 38 54.3		809
1992 RB6	*	1992 09 02.18403	00 05 05.13	-06 36 30.4	19.1	809
1992 RB6		1992 09 02.19444	00 05 04.66	-06 36 36.4		809
1992 RB6		1992 09 02.20486	00 05 04.26	-06 36 42.2		809
1992 RB6		1992 09 03.27222	00 04 23.01	-06 46 41.7		809
1992 RC6	*	1992 09 02.18403	00 05 42.41	-02 34 55.4	18.5	809
1992 RC6		1992 09 02.19444	00 05 41.95	-02 34 59.3		809
1992 RC6		1992 09 02.20486	00 05 41.46	-02 35 02.4		809
1992 RC6		1992 09 03.27222	00 04 56.46	-02 41 17.7		809
1992 RD6	*	1992 09 02.18403	00 05 43.64	-03 16 05.9	18.5	809
1992 RD6		1992 09 02.19444	00 05 43.17	-03 16 14.4		809
1992 RD6		1992 09 02.20486	00 05 42.74	-03 16 22.4		809
1992 RD6		1992 09 03.27222	00 05 01.71	-03 29 15.3		809
1992 RE6	*	1992 09 02.18403	00 06 04.85	-04 38 45.2	19.0	809
1992 RE6		1992 09 02.19444	00 06 04.42	-04 38 48.6		809
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1992 RE6		1992 09 03.27222	00 05 21.69	-04 44 02.4		809
1992 RF6	*	1992 09 02.18403	00 06 13.61	-02 53 19.2	18.4	809

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1992 RF6		1992 09 02.20486	00 06 12.94	-02 53 29.0		809
1992 RF6		1992 09 03.27222	00 05 41.30	-03 01 32.6		809
1992 RG6	*	1992 09 02.18403	00 06 17.89	-02 24 18.8	18.6	809
1992 RG6		1992 09 02.19444	00 06 17.43	-02 24 19.2		809
1992 RG6		1992 09 02.20486	00 06 16.98	-02 24 18.9		809
1992 RG6		1992 09 03.27222	00 05 35.22	-02 24 25.0		809
1992 RH6	*	1992 09 02.18403	00 06 24.39	-02 52 14.4	19.2	809
1992 RH6		1992 09 02.19444	00 06 23.98	-02 52 17.7		809
1992 RH6		1992 09 02.20486	00 06 23.62	-02 52 20.1		809
1992 RH6		1992 09 03.27222	00 05 46.89	-02 57 31.2		809
1992 RJ6	*	1992 09 02.18403	00 06 45.03	-06 58 10.8	18.5	809
1992 RJ6		1992 09 02.19444	00 06 44.71	-06 58 17.7		809
1992 RJ6		1992 09 02.20486	00 06 44.29	-06 58 23.2		809
1992 RJ6		1992 09 03.27222	00 06 07.50	-07 09 09.4		809
1992 RK6	*	1992 09 02.18403	00 07 01.30	-02 27 39.0	19.0	809
1992 RK6		1992 09 02.19444	00 07 00.66	-02 27 39.6		809
1992 RK6		1992 09 02.20486	00 07 00.10	-02 27 42.3		809
1992 RK6		1992 09 03.27222	00 06 03.31	-02 29 18.9		809
1992 RL6	*	1992 09 02.18403	00 07 27.41	-05 04 02.4	18.1	809
1992 RL6		1992 09 02.19444	00 07 26.91	-05 04 01.6		809
1992 RL6		1992 09 02.20486	00 07 26.45	-05 04 00.6		809
1992 RL6		1992 09 03.27222	00 06 42.83	-05 02 20.7		809
1992 RM6	*	1992 09 02.18403	00 07 39.06	-05 43 03.1	18.5	809
1992 RM6		1992 09 02.19444	00 07 38.65	-05 43 06.9		809
1992 RM6		1992 09 02.20486	00 07 38.27	-05 43 11.5		809
1992 RM6		1992 09 03.27222	00 07 00.55	-05 49 46.2		809
1992 RN6	*	1992 09 02.18403	00 07 54.10	-05 59 47.5	18.5	809
1992 RN6		1992 09 02.19444	00 07 53.56	-05 59 47.5		809
1992 RN6		1992 09 02.20486	00 07 53.05	-05 59 48.3		809
1992 RN6		1992 09 03.27222	00 07 04.65	-06 01 31.6		809
1992 RO6	*	1992 09 02.18403	00 08 02.22	-03 01 11.3	18.8	809
1992 RO6		1992 09 02.19444	00 08 01.83	-03 01 13.6		809
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1992 RO6		1992 09 03.27222	00 07 23.14	-03 06 04.9		809
1992 RP6	*	1992 09 02.18403	00 09 10.41	-03 27 35.6	19.2	809
1992 RP6		1992 09 02.19444	00 09 09.95	-03 27 37.3		809
1992 RP6		1992 09 02.20486	00 09 09.60	-03 27 40.1		809
1992 RP6		1992 09 03.27222	00 08 30.54	-03 31 26.8		809
1992 RQ6	*	1992 09 02.18403	00 09 48.99	-02 59 47.7	18.7	809
1992 RQ6		1992 09 02.19444	00 09 48.62	-02 59 50.0		809
1992 RQ6		1992 09 02.20486	00 09 48.24	-02 59 53.5		809
1992 RQ6		1992 09 03.27222	00 09 11.72	-03 04 27.2		809
1992 RR6	*	1992 09 02.18403	00 10 00.53	-03 24 06.6	18.5	809
1992 RR6		1992 09 02.19444	00 10 00.55	-03 24 28.6		809
1992 RR6		1992 09 02.20486	00 10 00.51	-03 24 50.8		809
1992 RR6		1992 09 03.27222	00 10 00.96	-04 02 35.7		809
1992 RS6	*	1992 09 02.18403	00 10 29.23	-05 16 17.6	18.6	809
1992 RS6		1992 09 02.19444	00 10 28.72	-05 16 19.6		809
1992 RS6		1992 09 02.20486	00 10 28.27	-05 16 23.0		809
1992 RS6		1992 09 03.27222	00 09 45.18	-05 21 04.7		809
1992 RT6	*	1992 09 02.18403	00 11 05.51	-03 14 01.3	18.5	809
1992 RT6		1992 09 02.19444	00 11 04.85	-03 14 02.0		809
1992 RT6		1992 09 02.20486	00 11 04.29	-03 14 03.9		809
1992 RT6		1992 09 03.27222	00 10 07.10	-03 16 34.2		809
1992 RU6	*	1992 09 02.18403	00 11 08.63	-04 55 55.6	18.4	809
1992 RU6		1992 09 02.19444	00 11 08.18	-04 56 01.1		809
1992 RU6		1992 09 02.20486	00 11 07.75	-04 56 06.6		809
1992 RU6		1992 09 03.27222	00 10 28.49	-05 04 32.7		809

1992 RV6	*	1992 09 02.18403	23 52 08.40	-04 47 56.3	18.5	809
1992 RV6		1992 09 02.19444	23 52 07.91	-04 47 59.6		809
1992 RV6		1992 09 02.20486	23 52 07.45	-04 48 02.8		809
1992 RV6		1992 09 03.27222	23 51 25.31	-04 53 05.3		809
1992 RW6	*	1992 09 02.18403	23 53 28.26	-06 34 10.8	18.7	809
1992 RW6		1992 09 02.19444	23 53 27.76	-06 34 14.2		809
1992 RW6		1992 09 02.20486	23 53 27.22	-06 34 18.4		809
1992 RW6		1992 09 03.27222	23 52 42.46	-06 40 08.0		809
1992 RX6	*	1992 09 02.18403	23 53 32.91	-05 42 29.5	18.5	809
1992 RX6		1992 09 02.19444	23 53 32.35	-05 42 31.1		809
1992 RX6		1992 09 02.20486	23 53 31.83	-05 42 32.8		809
1992 RX6		1992 09 03.27222	23 52 42.83	-05 44 46.7		809
1992 RY6	*	1992 09 02.18403	23 53 52.63	-03 57 23.0	18.7	809
1992 RY6		1992 09 02.19444	23 53 52.25	-03 57 28.3		809
1992 RY6		1992 09 02.20486	23 53 51.79	-03 57 35.2		809
1992 RY6		1992 09 03.27222	23 53 10.80	-04 07 08.4		809
1992 RZ6	*	1992 09 02.18403	23 54 17.13	-04 33 40.2	18.8	809
1992 RZ6		1992 09 02.19444	23 54 16.63	-04 33 42.0		809
1992 RZ6		1992 09 02.20486	23 54 15.98	-04 33 44.8		809
1992 RZ6		1992 09 03.27222	23 53 25.16	-04 37 18.4		809
1992 RA7	*	1992 09 02.18403	23 54 24.62	-04 53 24.7	18.5	809
1992 RA7		1992 09 02.19444	23 54 23.97	-04 53 26.8		809
1992 RA7		1992 09 02.20486	23 54 23.37	-04 53 28.9		809
1992 RA7		1992 09 03.27222	23 53 25.29	-04 57 53.1		809
1992 RB7	*	1992 09 02.18403	23 54 35.86	-06 28 20.0	18.8	809
1992 RB7		1992 09 02.19444	23 54 35.35	-06 28 23.8		809
1992 RB7		1992 09 02.20486	23 54 34.93	-06 28 28.8		809
1992 RB7		1992 09 03.27222	23 53 42.77	-06 35 19.3		809
1992 RC7	*	1992 09 02.18403	23 54 57.51	-03 33 43.4	18.5	809
1992 RC7		1992 09 02.19444	23 54 57.11	-03 33 47.2		809
1992 RC7		1992 09 02.20486	23 54 56.66	-03 33 51.0		809
1992 RC7		1992 09 03.27222	23 54 15.60	-03 39 45.7		809
1992 RD7	*	1992 09 02.18403	23 55 12.99	-04 29 50.3	18.6	809
1992 RD7		1992 09 02.19444	23 55 12.56	-04 29 53.8		809
1992 RD7		1992 09 02.20486	23 55 12.12	-04 29 56.8		809
1992 RD7		1992 09 03.27222	23 54 29.48	-04 35 45.6		809
1992 RE7	*	1992 09 02.18403	23 55 48.70	-06 08 28.8	18.6	809
1992 RE7		1992 09 02.19444	23 55 48.09	-06 08 30.7		809
1992 RE7		1992 09 02.20486	23 55 47.51	-06 08 32.4		809
1992 RE7		1992 09 03.27222	23 54 54.56	-06 10 40.9		809
1992 RF7	*	1992 09 02.18403	23 55 59.71	-06 40 00.6	18.6	809
1992 RF7		1992 09 02.19444	23 55 59.20	-06 40 03.2		809
1992 RF7		1992 09 02.20486	23 55 58.67	-06 40 06.0		809
1992 RF7		1992 09 03.27222	23 55 15.27	-06 44 23.7		809
1992 RG7	*	1992 09 02.18403	23 56 32.29	-05 27 50.8	18.5	809
1992 RG7		1992 09 02.19444	23 56 31.69	-05 27 51.4		809
1992 RG7		1992 09 02.20486	23 56 31.12	-05 27 52.3		809
1992 RG7		1992 09 03.27222	23 55 41.71	-05 29 26.3		809
1992 RH7	*	1992 09 02.18403	23 56 32.86	-06 50 57.2	18.5	809
1992 RH7		1992 09 02.19444	23 56 32.22	-06 51 01.0		809
1992 RH7		1992 09 02.20486	23 56 31.66	-06 51 03.3		809
1992 RH7		1992 09 03.27222	23 55 35.22	-06 56 19.5		809
1992 RJ7	*	1992 09 02.18403	23 57 17.96	-02 37 44.2	18.8	809
1992 RJ7		1992 09 02.19444	23 57 17.51	-02 37 48.2		809
1992 RJ7		1992 09 02.20486	23 57 17.15	-02 37 52.6		809
1992 RJ7		1992 09 03.27222	23 56 37.35	-02 44 24.9		809
1992 RK7	*	1992 09 02.18403	23 57 32.48	-07 01 34.9	18.6	809
1992 RK7		1992 09 02.19444	23 57 31.97	-07 01 38.9		809
1992 RK7		1992 09 02.20486	23 57 31.44	-07 01 42.8		809

1992 RK7		1992 09 03.27222	23 56 45.07	-07 08 35.7		809
1992 RL7	*	1992 09 02.18403	23 57 32.93	-04 51 16.8	18.6	809
1992 RL7		1992 09 02.19444	23 57 32.36	-04 51 20.9		809
1992 RL7		1992 09 02.20486	23 57 31.90	-04 51 25.6		809
1992 RL7		1992 09 03.27222	23 56 45.96	-04 58 23.3		809
1992 RM7	*	1992 09 02.18403	23 58 24.31	-03 50 46.4	18.7	809
1992 RM7		1992 09 02.19444	23 58 23.90	-03 50 49.7		809
1992 RM7		1992 09 02.20486	23 58 23.38	-03 50 52.8		809
1992 RM7		1992 09 03.27222	23 57 42.38	-03 55 34.5		809
1992 RN7	*	1992 09 02.18403	23 58 37.38	-04 41 54.2	18.6	809
1992 RN7		1992 09 02.19444	23 58 36.84	-04 41 56.6		809
1992 RN7		1992 09 02.20486	23 58 36.37	-04 41 58.2		809
1992 RN7		1992 09 03.27222	23 57 51.44	-04 44 34.6		809
1992 RO7	*	1992 09 02.18403	23 59 02.83	-07 21 51.5	19.4	809
1992 RO7		1992 09 02.19444	23 59 02.27	-07 21 55.3		809
1992 RO7		1992 09 02.20486	23 59 01.54	-07 21 57.3		809
1992 RO7		1992 09 03.27222	23 58 01.26	-07 26 14.7		809
1992 RP7	*	1992 09 02.18403	23 59 13.12	-06 16 03.9	19.1	809
1992 RP7		1992 09 02.19444	23 59 12.68	-06 16 08.8		809
1992 RP7		1992 09 02.20486	23 59 12.20	-06 16 13.0		809
1992 RP7		1992 09 03.27222	23 58 30.45	-06 23 18.0		809
1992 RQ7	*	1992 09 02.18403	23 59 16.80	-04 38 42.1	18.7	809
1992 RQ7		1992 09 02.19444	23 59 16.28	-04 38 46.6		809
1992 RQ7		1992 09 02.20486	23 59 15.87	-04 38 50.6		809
1992 RQ7		1992 09 03.27222	23 58 31.11	-04 45 46.4		809
1992 RR7	*	1992 09 02.18403	23 59 31.44	-06 25 56.1	19.0	809
1992 RR7		1992 09 02.19444	23 59 31.01	-06 25 59.4		809
1992 RR7		1992 09 02.20486	23 59 30.57	-06 26 02.6		809
1992 RR7		1992 09 03.27222	23 58 47.03	-06 32 05.3		809
1992 RS7	*	1992 09 02.18403	23 59 35.87	-05 48 03.1	18.5	809
1992 RS7		1992 09 02.19444	23 59 35.65	-05 48 09.0		809
1992 RS7		1992 09 02.20486	23 59 35.38	-05 48 13.5		809
1992 RS7		1992 09 03.27222	23 59 11.22	-05 56 39.4		809
1992 SP1		1992 09 02.14306	23 02 11.14	-04 09 53.9	18.1	809
1992 SP1		1992 09 02.15347	23 02 10.45	-04 09 51.9		809
1992 SP1		1992 09 02.16389	23 02 09.67	-04 09 49.8		809
1992 SP1		1992 09 03.23403	23 01 02.94	-04 06 26.4		809
1992 SH3		1992 09 02.14306	23 09 06.11	-06 34 43.2	18.6	809
1992 SH3		1992 09 02.15347	23 09 05.62	-06 34 48.3		809
1992 SH3		1992 09 02.16389	23 09 05.12	-06 34 53.0		809
1992 SH3		1992 09 03.23403	23 08 18.78	-06 42 59.6		809
1992 SJ7		1992 09 03.23403	23 09 23.42	-06 49 29.2	18.6	809
3060 T-2		1992 09 02.18403	23 51 48.26	-05 52 15.7	18.7	809
3060 T-2		1992 09 02.19444	23 51 47.67	-05 52 18.4		809
3060 T-2		1992 09 02.20486	23 51 47.17	-05 52 22.2		809
3060 T-2		1992 09 03.27222	23 50 55.41	-05 58 25.3		809
3201 T-2		1991 08 04.09444	21 11 31.91	-16 37 02.4		809
2192 T-3		1991 08 04.09444	21 14 52.75	-14 14 30.7		809
(52)		1991 08 04.09444	21 13 38.39	-17 02 52.2		809
(129)		1991 08 04.09444	21 10 13.68	-15 16 11.7		809
(325)		1992 09 02.14306	23 01 59.06	-06 54 21.8	15.0	809
(325)		1992 09 02.15347	23 01 58.38	-06 54 24.0		809
(325)		1992 09 02.16389	23 01 57.81	-06 54 25.1		809
(325)		1992 09 03.23403	23 01 04.92	-06 56 44.0		809
(373)		1992 09 02.18403	00 09 43.78	-04 16 48.3	14.0	809
(373)		1992 09 02.19444	00 09 43.17	-04 16 48.3		809
(373)		1992 09 02.20486	00 09 42.65	-04 16 47.4		809
(373)		1992 09 03.27222	00 08 50.75	-04 16 09.8		809
(633)		1992 09 02.18403	23 57 05.39	-07 31 49.1	15.0	809

(633)	1992 09 02.19444	23 57 04.89	-07 31 56.9		809
(633)	1992 09 02.20486	23 57 04.46	-07 32 01.6		809
(642)	1992 09 02.18403	00 00 15.23	-03 02 20.1	17.7	809
(642)	1992 09 02.19444	00 00 14.72	-03 02 22.0		809
(642)	1992 09 02.20486	00 00 14.26	-03 02 23.8		809
(642)	1992 09 03.27222	23 59 30.78	-03 05 23.6		809
(878)	1992 09 02.14306	22 51 37.69	-06 13 44.7	18.0	809
(878)	1992 09 02.15347	22 51 37.12	-06 13 48.5		809
(878)	1992 09 02.16389	22 51 36.60	-06 13 53.0		809
(878)	1992 09 03.23403	22 50 48.70	-06 21 01.7		809
(1076)	1992 09 02.18403	23 51 15.22	-03 34 04.5	18.0	809
(1076)	1992 09 02.19444	23 51 14.68	-03 34 09.0		809
(1076)	1992 09 02.20486	23 51 14.22	-03 34 13.3		809
(1076)	1992 09 03.27222	23 50 26.69	-03 41 18.1		809
(1345)	1991 08 04.09444	21 27 17.92	-14 59 33.1		809
(1642)	1992 09 02.14306	23 02 12.70	-05 03 12.4	16.5	809
(1642)	1992 09 02.15347	23 02 12.06	-05 03 14.1		809
(1642)	1992 09 02.16389	23 02 11.45	-05 03 15.7		809
(1642)	1992 09 03.23403	23 01 12.49	-05 05 26.9		809
(1779)	1992 09 02.14306	23 00 34.09	-04 26 08.8	18.0	809
(1779)	1992 09 02.15347	23 00 33.40	-04 26 12.9		809
(1779)	1992 09 02.16389	23 00 32.70	-04 26 17.2		809
(1779)	1992 09 03.23403	22 59 28.67	-04 32 54.3		809
(2273)	1992 09 02.14306	23 09 20.63	-06 07 13.8	18.2	809
(2273)	1992 09 02.15347	23 09 20.00	-06 07 17.0		809
(2273)	1992 09 02.16389	23 09 19.40	-06 07 20.6		809
(2273)	1992 09 03.23403	23 08 21.67	-06 13 24.8		809
(2396)	1992 09 02.14306	23 02 06.92	-07 31 24.0	17.8	809
(2396)	1992 09 02.15347	23 02 06.43	-07 31 30.3		809
(2396)	1992 09 02.16389	23 02 05.93	-07 31 36.3		809
(2496)	1991 08 04.09444	21 16 31.29	-14 59 15.3		809
(2524)	1992 09 02.14306	23 00 39.57	-05 53 26.3	17.7	809
(2524)	1992 09 02.15347	23 00 39.02	-05 53 29.5		809
(2524)	1992 09 02.16389	23 00 38.45	-05 53 33.2		809
(2524)	1992 09 03.23403	22 59 50.08	-05 58 29.6		809
(3027)	1991 08 04.09444	21 12 21.90	-12 46 08.3		809
(3378)	1992 09 02.14306	23 00 57.88	-04 33 02.6	18.0	809
(3378)	1992 09 02.15347	23 00 57.17	-04 33 03.6		809
(3378)	1992 09 02.16389	23 00 56.44	-04 33 04.8		809
(3378)	1992 09 03.23403	22 59 48.06	-04 35 02.6		809
(3424)	1992 09 02.18403	23 57 59.01	-04 30 05.2	18.1	809
(3424)	1992 09 02.19444	23 57 58.56	-04 30 10.9		809
(3424)	1992 09 02.20486	23 57 58.09	-04 30 16.0		809
(3424)	1992 09 03.27222	23 57 16.05	-04 39 03.2		809
(3437)	1992 09 02.18403	00 05 53.52	-04 24 55.2	18.0	809
(3437)	1992 09 02.19444	00 05 52.96	-04 24 57.9		809
(3437)	1992 09 02.20486	00 05 52.39	-04 25 01.0		809
(3437)	1992 09 03.27222	00 04 59.80	-04 30 02.9		809
(3656)	1991 08 04.09444	21 19 48.94	-15 36 33.7		809
(3701)	1992 09 02.18403	23 59 44.48	-06 57 47.4	18.1	809
(3701)	1992 09 02.19444	23 59 43.98	-06 57 51.5		809
(3701)	1992 09 02.20486	23 59 43.54	-06 57 55.9		809
(3701)	1992 09 03.27222	23 59 01.30	-07 04 43.7		809
(3750)	1992 09 02.18403	00 06 03.01	-03 34 28.5	18.2	809
(3750)	1992 09 02.19444	00 06 02.47	-03 34 30.6		809
(3750)	1992 09 02.20486	00 06 02.01	-03 34 31.8		809
(3750)	1992 09 03.27222	00 05 15.22	-03 37 00.3		809
(3898)	1992 09 02.14306	23 10 56.37	-04 52 45.0	18.0	809
(3898)	1992 09 02.15347	23 10 55.82	-04 52 48.7		809

(3898)	1992 09 02.16389	23 10 55.36	-04 52 51.5		809
(3898)	1992 09 03.23403	23 10 08.27	-04 58 02.0		809
(4268)	1992 04 04.23125	14 00 56.82	-15 19 43.2	19.5	809
(4268)	1992 04 04.24444	14 00 56.15	-15 19 39.9		809
(4268)	1992 04 04.25764	14 00 55.46	-15 19 37.9		809
(4494)	1991 08 04.09444	21 22 32.55	-13 51 20.2		809
(4506)	1992 09 02.18403	00 07 45.79	-03 48 42.7	18.5	809
(4506)	1992 09 02.19444	00 07 45.28	-03 48 45.8		809
(4506)	1992 09 02.20486	00 07 44.85	-03 48 48.2		809
(4506)	1992 09 03.27222	00 07 02.06	-03 53 43.4		809
(4864)	1992 09 02.18403	00 01 18.41	-07 11 40.6	17.9	809
(4864)	1992 09 02.19444	00 01 17.87	-07 11 44.4		809
(4864)	1992 09 02.20486	00 01 17.42	-07 11 49.1		809
(4864)	1992 09 03.27222	00 00 34.42	-07 18 25.1		809
(4960)	1991 08 04.09444	21 20 24.17	-15 55 55.8		809
(5005)	1991 08 04.09444	21 20 04.13	-15 49 50.5		809
(5097)	1991 08 04.09444	21 23 03.65	-16 48 32.4		809
(5358)	1992 09 02.14306	22 58 47.74	-04 17 27.0	17.5	809
(5358)	1992 09 02.15347	22 58 47.09	-04 17 28.4		809
(5358)	1992 09 02.16389	22 58 46.46	-04 17 28.6		809
(5358)	1992 09 03.23403	22 57 45.66	-04 18 35.7		809

877 Okutama

S. Hayakawa, 1-31-33, Nagano, Gyoda-Shi, Saitama-Ken, 361 Japan

Observer T. Hioki

Measurers S. Hayakawa, T. Hioki

0.30-m f/3.8 hyperboloid astrocamera

GSC

1981 UB10	1992 10 27.73472	03 52 53.66	+20 48 18.8	16.0	877
1981 UB10	1992 10 27.75521	03 52 52.54	+20 48 23.1		877
1981 UB10	1992 10 28.58854	03 52 07.99	+20 50 35.6		877
1981 UB10	1992 10 28.63750	03 52 05.27	+20 50 42.7		877
1992 UA3	* 1992 10 25.62604	03 13 30.18	+17 47 44.5	16.5	877
1992 UA3	1992 10 25.64340	03 13 29.13	+17 47 45.0		877
1992 UA3	1992 10 27.60521	03 11 46.99	+17 44 58.3		877
1992 UA3	1992 10 27.62604	03 11 46.00	+17 44 55.6		877
1992 UB3	* 1992 10 25.65937	03 24 55.16	+19 10 00.2	16.5	877
1992 UB3	1992 10 25.68368	03 24 53.49	+19 10 04.1		877
1992 UB3	1992 10 27.64271	03 22 58.03	+19 15 39.5		877
1992 UB3	1992 10 27.66354	03 22 56.86	+19 15 43.9		877
(960)	1992 10 25.76267	04 24 31.14	+23 12 53.2	15.0	877
(960)	1992 10 25.79965	04 24 29.71	+23 12 46.3		877
(960)	1992 10 27.77083	04 23 11.88	+23 07 12.0		877
(960)	1992 10 27.80625	04 23 10.30	+23 07 05.9		877
(2533)	1992 09 27.75787	02 12 14.84	+13 13 15.3	16.0	877
(2533)	1992 09 27.78333	02 12 14.05	+13 13 10.5		877
(2533)	1992 09 27.80012	02 12 13.64	+13 13 08.1		877
(2533)	1992 10 02.68472	02 09 43.34	+12 56 49.8		877
(2533)	1992 10 02.70703	02 09 42.59	+12 56 45.6		877

881 Toyota

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

Observers K. Suzuki, T. Urata

Measurer T. Urata

0.31-m f/5.7 reflector

GSC

1985 BA	1985 01 26.68264	08 07 20.91	+21 08 18.0	17	881
1985 BA	1985 01 26.70347	08 07 19.82	+21 08 17.8		881

## 885 JCPM Yakiimo Station

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

Observers A. Natori, T. Urata

Measurer T. Urata

1992 SR	1992 10	26.59931	02 44	56.43	+25 57	20.3	15.8	885
1992 SR	1992 10	26.60556	02 44	55.72	+25 57	25.7		885
1992 SR	1992 10	27.67778	02 42	55.43	+26 11	50.6	15.8	885
1992 SR	1992 10	27.70764	02 42	52.11	+26 12	12.5		885
1992 SJ13	1992 09	04.66493	00 21	27.87	-11 48	07.9	16	885
1992 SJ13	1992 09	04.67882	00 21	27.56	-11 48	20.0		885
1992 UR	1992 10	26.48299	01 51	48.05	+06 51	01.7	16	885
1992 UR	1992 10	26.49688	01 51	47.01	+06 51	04.1		885
1992 UX	1992 10	31.61597	02 28	11.13	+07 02	23.6	16.5	885
1992 UX	1992 10	31.62639	02 28	10.37	+07 02	23.9		885
1992 UY	1992 10	30.66944	02 35	48.53	+06 20	11.1	16.5	885
1992 UY	1992 10	30.67917	02 35	48.08	+06 20	06.0		885
1992 UZ	1992 10	27.65590	02 39	11.12	+04 30	02.8	16	885
1992 UZ	1992 10	27.66285	02 39	10.61	+04 30	05.5		885
1992 UZ	1992 10	30.66944	02 35	39.40	+04 43	19.0	16	885
1992 UZ	1992 10	30.67917	02 35	38.86	+04 43	21.5		885
1992 UB2	1992 10	26.50486	01 55	03.72	+04 45	24.7	16	885
1992 UB2	1992 10	26.51736	01 55	02.93	+04 45	22.5		885
1992 UC2	* 1992 10	25.55243	02 10	43.91	+01 45	47.6	16.5	885
1992 UC2	1992 10	25.56632	02 10	43.08	+01 45	46.9		885
1992 UC2	1992 10	26.53264	02 09	50.0	+01 45	50	16.5	F 885
1992 UC2	1992 10	26.53889	02 09	49.8	+01 45	53		F 885
1992 UC2	1992 10	31.60000	02 05	16.49	+01 48	52.9	17	885
1992 UD2	* 1992 10	25.57569	02 45	29.81	+04 08	02.8	16	885
1992 UD2	1992 10	25.58194	02 45	29.21	+04 08	10.5		885
1992 UD2	1992 10	25.58819	02 45	28.60	+04 08	18.4		885
1992 UD2	1992 10	26.57292	02 43	43.85	+04 28	45.9	16	885
1992 UD2	1992 10	26.57917	02 43	43.10	+04 28	54.2		885
1992 UD2	1992 10	26.58542	02 43	42.43	+04 29	02.2		885
1992 UD2	1992 10	27.65590	02 41	47.08	+04 51	30.9	16	885
1992 UD2	1992 10	27.66285	02 41	46.29	+04 51	39.6		885
1992 UD2	1992 10	30.66944	02 36	18.53	+05 55	45.9	16.3	885
1992 UD2	1992 10	30.67917	02 36	17.50	+05 55	58.0		885
1992 UO2	* 1992 10	26.59931	02 45	11.11	+25 52	08.3	15.5	885
1992 UO2	1992 10	26.60556	02 45	10.65	+25 52	09.9		885
1992 UO2	1992 10	27.67778	02 43	51.25	+25 55	59.0	15.5	885
1992 UO2	1992 10	27.70764	02 43	49.07	+25 56	04.9		885
1992 UO2	1992 10	31.63854	02 38	54.17	+26 08	09.4	15.5	885
1992 UO2	1992 10	31.64410	02 38	53.72	+26 08	10.1		885
1992 UT3	1992 10	30.69375	03 32	26.97	+16 32	12.4	16.8	885
1992 UT3	1992 10	30.70000	03 32	26.51	+16 32	11.7		885
1992 UU4	* 1992 10	30.70833	03 48	23.03	+23 14	54.0	16.5	885
1992 UU4	1992 10	30.71458	03 48	22.78	+23 14	50.1		885
1992 UU4	1992 10	30.72083	03 48	22.57	+23 14	46.6		885
1992 UU4	1992 10	31.67465	03 47	43.76	+23 05	11.3	16.3	885
1992 UU4	1992 10	31.68403	03 47	43.39	+23 05	04.8		885
1992 UV4	* 1992 10	30.71458	03 49	04.56	+21 35	42.2	16.5	885
1992 UV4	1992 10	30.72083	03 49	04.29	+21 35	42.6		885
1992 UV4	1992 10	31.68403	03 48	14.7	+21 39	20	17	F 885
(1546)	1992 10	25.57569	02 43	52.75	+04 34	35.8		885
(1546)	1992 10	25.58819	02 43	52.24	+04 34	28.2		885

## 894 Otomo

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



## 0.25-m f/3.4 reflector

PPM

1975 TQ3		1992 10 21.71285	02 11 30.13	+11 44 21.1	16.0	894
1975 TQ3		1992 10 21.72604	02 11 29.18	+11 44 21.8		894
1975 VD9		1992 10 06.59757	01 23 48.81	+09 45 24.3	16.5	894
1975 VD9		1992 10 06.61285	01 23 48.01	+09 45 24.7		894
1984 SH6		1992 10 21.57749	01 56 08.50	+05 11 26.6	16.7	894
1984 SH6		1992 10 21.59063	01 56 07.82	+05 11 22.5		894
1984 UX		1992 10 21.62966	01 48 26.35	+16 51 07.7	15.0	894
1984 UX		1992 10 21.64271	01 48 25.53	+16 51 09.6		894
1992 RM		1992 10 06.67014	23 36 39.96	-02 35 52.3	16.7	894
1992 RM		1992 10 06.67917	23 36 39.63	-02 35 55.2		894
1992 RN		1992 10 06.68999	23 13 42.74	+01 05 43.2	17.0	894
1992 RN		1992 10 06.69913	23 13 42.49	+01 05 41.3		894
1992 TD1		1992 10 21.57749	01 57 56.64	+06 37 37.4	16.5	894
1992 TD1		1992 10 21.59063	01 57 56.00	+06 37 24.6		894
1992 UQ		1992 10 27.55313	01 47 49.54	+06 28 11.8	17.0	894
1992 UQ		1992 10 27.56632	01 47 49.08	+06 28 09.0		894
1992 UR	*	1992 10 21.57749	01 57 58.52	+06 24 10.1	16.3	894
1992 UR		1992 10 21.59063	01 57 57.41	+06 24 14.4		894
1992 UR		1992 10 24.71129	01 54 00.64	+06 41 11.3	16.5	894
1992 UR		1992 10 24.72292	01 53 59.66	+06 41 14.2		894
1992 UR		1992 10 25.56852	01 52 56.39	+06 45 55.3	16.7	894
1992 UR		1992 10 25.58160	01 52 55.36	+06 45 58.4		894
1992 UR		1992 10 27.55313	01 50 28.24	+06 57 01.0	16.7	894
1992 UR		1992 10 27.56632	01 50 27.31	+06 57 03.8		894
1992 US		1992 10 21.71285	02 20 16.03	+10 57 46.4	16.3	894
1992 US		1992 10 21.72604	02 20 15.21	+10 57 48.4		894
1992 US		1992 10 24.75938	02 17 06.35	+11 08 19.6	16.0	894
1992 US		1992 10 24.77049	02 17 05.66	+11 08 21.8		894
1992 UU	*	1992 10 21.76759	02 11 49.79	+15 54 34.9	16.6	894
1992 UU		1992 10 21.77986	02 11 48.83	+15 54 35.5		894
1992 UU		1992 10 24.73553	02 08 34.07	+15 55 20.7	16.3	894
1992 UU		1992 10 24.74722	02 08 33.31	+15 55 23.4		894
1992 UV	*	1992 10 21.76759	02 12 07.76	+17 38 02.0	16.5	894
1992 UV		1992 10 21.77986	02 12 07.14	+17 37 57.7		894
1992 UV		1992 10 24.73553	02 09 49.54	+17 17 32.2	16.5	894
1992 UV		1992 10 24.74722	02 09 48.87	+17 17 27.6		894
1992 UW	*	1992 10 21.76759	02 14 25.42	+16 37 34.8	16.5	894
1992 UW		1992 10 21.77986	02 14 24.72	+16 37 33.4		894
1992 UW		1992 10 24.73553	02 11 45.40	+16 31 03.3	16.0	894
1992 UW		1992 10 24.74722	02 11 44.71	+16 31 02.3		894
1992 UG1		1992 10 24.78333	02 25 38.32	+14 34 37.2	16.5	894
1992 UG1		1992 10 24.79583	02 25 37.58	+14 34 31.1		894
1992 UG1		1992 10 25.66082	02 24 48.11	+14 29 27.9		894
1992 UG1		1992 10 25.67396	02 24 47.29	+14 29 22.1		894
1992 US1	*	1992 10 21.57749	01 54 16.05	+06 29 04.6	17.0	894
1992 US1		1992 10 21.59063	01 54 15.14	+06 29 04.4		894
1992 US1		1992 10 25.56852	01 49 52.15	+06 29 55.1	16.7	894
1992 US1		1992 10 25.58160	01 49 51.22	+06 29 55.0		894
1992 UB2		1992 10 21.57749	01 59 24.66	+05 17 43.3	16.5	894
1992 UB2		1992 10 21.59063	01 59 23.92	+05 17 40.9		894
1992 UB2		1992 10 27.57951	01 54 07.39	+04 38 50.1		894
1992 UB2		1992 10 27.59271	01 54 06.59	+04 38 47.4		894
1992 UV2	*	1992 10 21.65729	02 04 36.63	+05 19 37.7	16.5	894
1992 UV2		1992 10 21.67049	02 04 35.93	+05 19 33.6		894
1992 UV2		1992 10 27.57951	01 59 07.27	+04 58 00.8		894
1992 UV2		1992 10 27.59271	01 59 06.47	+04 57 59.3		894
1992 UW2		1992 10 21.57749	01 59 22.93	+06 37 36.6	16.5	894

1992 UW2	*	1992 10	25.56852	01 55	04.91	+06 35	39.2	17.0	894
1992 UW2		1992 10	25.58160	01 55	04.01	+06 35	37.6		894
1992 UW2		1992 10	27.55313	01 52	59.07	+06 35	10.0	17.0	894
1992 UW2		1992 10	27.56632	01 52	58.01	+06 35	09.6		894
1992 UC3	*	1992 10	26.56944	02 01	55.32	+15 45	15.2	17.2	894
1992 UC3		1992 10	26.58194	02 01	54.44	+15 45	14.6		894
1992 UC3		1992 10	27.63368	02 00	54.48	+15 44	18.4	17.0	894
1992 UC3		1992 10	27.64688	02 00	53.72	+15 44	17.6		894
1992 UD3	*	1992 10	26.66771	02 37	59.80	+18 56	43.9	16.5	894
1992 UD3		1992 10	26.68090	02 37	59.19	+18 56	38.6		894
1992 UD3		1992 10	27.66091	02 37	10.06	+18 46	52.8		894
1992 UD3		1992 10	27.67396	02 37	09.32	+18 46	46.3		894
(124)		1992 10	21.71285	02 13	11.18	+11 23	32.0		894
(124)		1992 10	21.72604	02 13	10.49	+11 23	27.4		894
(2354)		1992 10	21.71285	02 13	54.49	+10 03	43.5		894
(2354)		1992 10	21.72604	02 13	53.85	+10 03	38.9		894
(2587)		1992 10	21.71285	02 21	04.07	+10 52	02.8		894
(2587)		1992 10	21.72604	02 21	03.63	+10 52	00.7		894
(2992)		1992 10	25.56852	01 55	02.71	+06 24	46.3	17.0	894
(2992)		1992 10	25.58160	01 55	01.99	+06 24	40.7		894
(3033)		1992 10	21.57749	01 56	34.83	+06 11	42.5	16.3	894
(3033)		1992 10	21.59063	01 56	34.00	+06 11	35.1		894
(4905)		1992 10	06.59757	01 24	40.44	+08 59	24.6	15.0	894
(4905)		1992 10	06.61285	01 24	39.84	+08 59	14.2		894

## 896 Yatsugatake South Base Observatory

O. Muramatsu, 119-1, 2-8 Sakurazutsumi, Musashino, Tokyo 180, Japan

Observers Y. Kushida, O. Muramatsu

Measurer O. Muramatsu

0.25-m f/3.4 reflector

PPM

1992 SU14		1992 10	21.69028	02 20	03.32	+31 45	02.0	16.5	896
1992 SU14		1992 10	21.71267	02 20	01.84	+31 45	06.9		896
1992 UZ1	*	1992 10	21.63993	02 18	08.1	+24 49	51	16.5	W 896
1992 UZ1		1992 10	21.67014	02 18	06.3	+24 49	45		W 896
1992 UZ1		1992 10	24.64167	02 15	13.9	+24 39	20		W 896
1992 UA2	*	1992 10	21.68021	02 23	10.3	+26 55	03	16.5	W 896
1992 UA2		1992 10	21.70208	02 23	09.1	+26 55	04		W 896
1992 UA2		1992 10	24.64167	02 20	28.20	+26 59	55.0		896
1992 UA2		1992 10	24.67083	02 20	26.49	+26 59	57.4		896

## 905 Nachi-Katsuura Observatory

T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan

Observer Y. Shimizu

Measurer T. Urata

0.30-m f/3.8 hyperboloid astrocamera

Long. and Parallax 135.9246, 0.83368, +0.55040 (see MPC 19348)

1991 DM1		1992 10	20.52986	22 18	59.32	-13 27	42.6	16.8	905
1991 DM1		1992 10	21.49028	22 19	21.01	-13 30	26.0	16.8	905
1991 DM1		1992 10	21.49769	22 19	21.20	-13 30	26.7		905

\* \* \* \* \*

## ORBITAL ELEMENTS.

Orbital elements have been computed by the following contributors:

C. M. Bardwell, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. (B)

- K. Ichikawa, 45 Shiromae Kamiwada-cho, Okazaki-shi, Aichi, 444-02 Japan  
 T. Kobayashi, 1717-2 Shimo-Koizumi, Oizumi-machi, Ora-gun, Gunma-ken, 370-05 Japan  
 B. G. Marsden, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. (M)  
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 T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan (U)  
 G. V. Williams, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. (W)  
 D. K. Yeomans, Jet Propulsion Laboratory, MS 301-150G, Pasadena, CA 91109, U.S.A.

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 Brewington (1992p)

T 1992 June 7.85862 TT				Nakano
q 1.6016478	(2000.0)		P	Q
n 0.09155115	Peri. 47.87887	+0.84124362		-0.53365287
a 4.8755864	Node 343.74958	+0.35750409		+0.66941273
e 0.6714964	Incl. 18.05720	+0.40558598		+0.51681836
P 10.77				

From 50 observations 1992 Aug. 28-Oct. 29.

Periodic Comet Swift-Tuttle (1992t)

Epoch 1992 Dec. 4.0 TT = JDT 2448960.5				Yeomans
T 1992 Dec. 12.32973 TT				
q 0.9582214	(2000.0)		P	Q
n 0.00730052	Peri. 153.00427	+0.79433034		+0.11456703
a 26.3168166	Node 139.44526	-0.57140714		-0.19249115
e 0.9635890	Incl. 113.42559	+0.20623577		-0.97458789
P 135.01				

From 237 observations 1737-1992, weighted rms residual 3".6. Observations in 1862 October omitted.

Comet Shoemaker (1992y)

T 1993 Mar. 26.41769 TT

q 2.3003128

(2000.0)

P

Nakano

Q

Peri. 55.39990

+0.04759820

-0.65906151

Node 55.28287

+0.30458100

-0.70607023

e 1.0

Incl. 65.94366

+0.95129639

+0.25904200

From 14 observations 1992 Oct. 25-30.

## One-opposition minor planets

Planet	H	Epoch	M	Peri.	Node	Incl.	e	a	Arc	O	N	C
1991 BC1	14.5	910104	356.49	3.04	114.57	2.87	0.1354	2.5825	3 6	E	W	
1991 BE1	15.5	910104	45.63	98.89	296.88	16.46	0.2960	2.2161	3 6	E	W	
1991 BF1	15.0	910104	32.75	299.00	116.24	8.05	0.2803	2.2880	3 9	E	W	
1991 BG1	15.0	910104	25.17	179.04	247.89	1.74	0.2931	2.6661	3 7	E	W	
1991 BH1	15.5	910104	7.72	325.35	131.62	0.16	0.2912	2.5746	3 6	E	W	
1991 BJ1	14.0	910104	101.64	239.32	115.69	7.67	0.1672	2.2626	3 7	E	W	
1991 BL1	16.0	910104	351.76	351.68	132.08	1.83	0.1259	2.2694	3 4	E	W	
1991 BM1	12.5	910104	150.22	153.88	166.23	2.25	0.1246	2.8201	3 6	E	W	
1991 BN1	15.0	910104	36.31	133.99	278.17	1.98	0.2834	2.7663	3 6	E	W	
1991 BO1	14.5	910104	351.78	184.25	299.92	9.62	0.0987	2.4783	3 6	E	W	
1991 BP1	15.0	910104	136.45	49.46	280.60	2.45	0.1244	2.1640	3 6	E	W	
1991 BQ1	17.0	910104	16.63	321.51	119.69	4.41	0.2820	2.2689	3 6	E	W	
1991 BS1	14.5	910104	0.63	23.85	89.09	0.91	0.2991	3.1834	3 7	E	W	
1991 PA4	14.5	910723	354.48	131.04	186.76	1.57	0.1217	2.8616	2 7	E	W	
1991 PK4	16.0	910723	358.79	54.97	255.87	1.28	0.0828	2.1951	2 7	E	W	
1991 PW4	13.5	910723	176.16	355.66	140.30	13.88	0.1281	2.6700	2 7	E	W	
1991 PA5	15.0	910723	353.22	9.43	310.01	4.94	0.1103	2.5433	2 7	E	W	
1991 PJ8	13.5	910723	358.01	181.59	133.03	29.22	0.1327	3.1867	3 5	E	W	
1991 RX14	13.2	910921	22.31	176.43	152.60	2.32	0.1531	2.9175	8 6		N	
1991 RR30	12.2	910921	301.92	16.49	24.87	6.70	0.0897	3.0896	9 6		N	
1991 ST1	12.5	910901	217.81	256.15	245.19	1.67	0.1097	2.7860	6 8		W	
1992 AO2	14.0	911230	294.03	78.19	118.23	8.95	0.1567	2.4607	10 8		W	
1992 AM3	13.5	911230	27.45	135.85	294.21	14.48	0.2242	2.8200	10 5		W	
1992 AN3	15.0	920119	358.81	67.99	52.41	0.38	0.1535	2.2813	24 4	D	N	
1992 AP3	14.7	920119	29.68	112.43	313.74	2.31	0.2933	2.5095	4 4		N	
1992 AT3	14.0	920119	41.29	192.67	240.77	0.95	0.0699	2.9012	29 4		W	
1992 BJ	14.5	920119	14.13	336.18	124.82	2.75	0.1418	2.3371	21 9		W	
1992 OB	14.0	920826	23.40	232.76	49.58	17.67	0.2016	3.0992	72 0		W	
1992 OC	15.5	920826	13.34	292.12	3.02	15.87	0.3007	2.5836	72 0		W	
1992 ON	16.5	920826	43.16	288.52	341.88	25.83	0.2031	1.9347	70 0		W	
1992 OO	13.5	920826	9.19	195.12	122.92	25.77	0.1797	2.3425	71 0		W	
1992 OW	15.0	920826	338.74	309.84	47.40	13.66	0.2755	2.6427	72 0		W	
1992 PC	15.5	920826	338.08	158.09	196.86	4.78	0.2169	2.1996	64 0		B	
1992 PT2	14.0	920717	308.92	146.69	240.25	4.01	0.1510	2.3406	5 7		W	
1992 PC3	12.5	920806	319.53	121.99	267.25	10.60	0.2370	2.9109	2 6		W	
1992 PZ4	14.0	920806	343.76	158.36	184.70	12.75	0.1918	2.5364	3 6		W	
1992 QA	14.5	920826	93.98	148.74	54.03	26.23	0.1123	1.8692	48 0		W	
1992 QB	14.0	920826	7.16	243.44	55.80	24.12	0.2240	2.3701	48 0		W	
1992 QC	14.5	920826	359.98	305.13	29.63	22.65	0.3364	2.3731	46 0		W	
1992 QK	14.0	920806	347.36	61.17	284.82	6.01	0.1564	2.3643	29 0		W	
1992 QM	12.5	920915	25.05	333.80	322.96	4.82	0.2877	2.8670	64 0		W	
1992 QP	13.5	920826	2.79	171.09	156.77	10.91	0.2614	2.4023	28 8		W	
1992 QS	14.0	920826	347.14	7.26	353.48	15.08	0.2329	2.4703	27 8		W	
1992 QT	13.0	920826	42.33	303.96	338.33	26.78	0.1907	2.3296	25 6		W	
1992 QW	14.0	920826	347.98	342.34	6.12	5.83	0.2088	2.2342	22 5		W	
1992 QX	13.5	920826	348.11	206.11	154.85	10.49	0.2389	2.5681	28 8		W	
1992 RN	13.6	921005	57.33	299.61	338.21	8.13	0.2287	2.3375	32 8		N	
1992 RS	15.5	920915	2.74	298.69	54.70	1.35	0.2309	2.3877	27 9		M	
1992 RU	15.5	920915	349.06	226.47	150.94	3.92	0.2567	2.3189	27 0		M	

1992 RV	13.5	920915	348.11	359.83	16.40	8.61	0.1697	2.7356	27 0	M
1992 RW	15.0	920915	334.49	7.55	30.17	2.92	0.2051	2.4170	27 0	M
1992 RX	14.5	920915	104.15	217.04	22.83	4.17	0.1525	2.2006	25 0	M
1992 RD1	13.0	920915	21.40	334.63	359.56	13.37	0.1106	2.9891	25 7	W
1992 RO1	13.5	920826	5.28	182.67	136.05	12.75	0.2576	2.4103	24 5	W
1992 RW2	15.3	920826	357.09	15.65	327.60	5.37	0.1442	2.1891	26 6	N
1992 RW3	14.5	920915	49.69	8.25	282.15	0.81	0.0651	2.9303	32 7	W
1992 RG4	16.0	920826	345.59	196.12	165.08	6.93	0.1928	2.3535	22 7	W
1992 RT4	15.5	920826	48.29	125.00	153.56	2.89	0.1427	2.3486	23 7	W
1992 RX4	15.5	920826	336.23	227.23	152.29	4.01	0.2530	2.4645	24 7	W
1992 RY4	15.0	920915	47.03	309.23	332.86	1.43	0.1846	2.6059	32 0	W
1992 RF5	14.0	920915	90.14	75.06	172.58	2.40	0.0808	2.8472	32 7	W
1992 SE	14.5	920915	335.46	218.28	185.00	12.21	0.2733	2.4965	11 0	W
1992 SF	14.2	921005	352.48	16.97	3.23	5.80	0.1880	2.2558	27 0	N
1992 SH	11.4	921005	118.54	40.52	188.04	24.26	0.2403	2.7798	10 9	N
1992 SJ	13.1	921005	27.15	318.00	3.05	8.79	0.2826	2.7268	27 0	N
1992 SO	13.6	921005	39.20	76.59	246.20	5.47	0.2001	2.3378	6 6	N
1992 SP	11.8	921005	248.91	193.45	322.36	4.98	0.2513	2.2452	6 6	N
1992 SQ	14.7	921005	21.91	71.35	275.09	2.86	0.2086	2.2504	6 6	N
1992 SR	13.5	921005	32.43	323.76	26.74	18.51	0.1012	1.8499	34 8	U
1992 SW	19.5	921005	37.89	307.73	359.67	18.18	0.1823	1.7304	25 0	W
1992 SX	20.0	920915	350.49	4.43	3.84	8.56	0.3178	2.2083	7 0	W
1992 SB1	11.0	921005	17.90	346.87	2.03	17.02	0.1683	3.1688	26 0	M
1992 SC1	13.4	921005	13.03	210.10	145.23	5.10	0.2082	2.5208	26 0	N
1992 SD1	12.9	921005	27.83	293.39	48.48	9.65	0.1022	2.5378	26 6	N
1992 SE1	12.3	921005	78.00	233.90	46.44	13.68	0.1517	2.6776	26 6	N
1992 SF1	14.0	920915	341.10	325.74	61.40	3.95	0.1509	2.1958	8 0	M
1992 SH1	14.3	921005	358.20	319.27	53.88	7.24	0.2850	2.5158	8 6	N
1992 SJ1	14.3	921005	356.16	288.92	87.26	5.37	0.1983	2.3049	8 6	N
1992 SQ1	13.6	921005	340.78	206.21	192.12	8.92	0.1156	2.5442	6 6	E N
1992 SR1	13.7	921005	324.41	138.09	290.82	5.93	0.1310	2.2732	26 6	N
1992 SW1	16.0	920915	27.03	159.71	161.72	3.13	0.1658	2.4135	7 9	M
1992 SX1	15.5	920915	307.66	4.65	58.65	1.22	0.1170	2.3011	7 7	M
1992 SY1	15.5	920915	355.16	349.90	15.65	6.41	0.1278	2.5543	7 0	M
1992 SZ1	15.5	920915	345.31	344.91	33.60	3.46	0.1588	2.1778	7 0	M
1992 SB2	15.0	920915	0.14	345.09	14.31	9.20	0.1584	2.7638	7 7	M
1992 SC2	14.5	920915	329.84	261.92	135.01	2.74	0.0968	2.8666	7 7	M
1992 SD2	14.0	920915	80.42	222.94	42.60	2.32	0.1306	2.6344	7 7	M
1992 SE2	15.5	920915	298.79	33.30	38.88	4.20	0.1062	2.3312	7 7	M
1992 SF2	13.5	920915	163.37	21.59	172.94	15.47	0.1276	2.5391	7 7	M
1992 SG2	14.0	920915	55.41	116.98	170.79	13.37	0.1656	2.6124	7 7	M
1992 SH2	15.0	920915	19.63	302.57	32.60	4.82	0.1107	2.4125	7 7	M
1992 SJ2	13.0	920915	226.93	331.89	169.24	11.53	0.0762	2.9941	7 7	M
1992 SK2	15.0	920915	355.94	207.80	157.48	3.19	0.1356	2.2888	7 7	M
1992 SM2	13.5	920915	127.65	204.98	13.81	15.62	0.1907	2.5473	7 0	W
1992 SN2	15.0	920915	308.91	304.03	127.76	3.08	0.1980	2.4369	7 7	M
1992 SO2	14.5	920915	62.85	236.79	44.28	3.14	0.1533	2.3531	3 4	E M
1992 SQ2	12.5	920915	22.80	124.70	229.55	3.14	0.1892	2.6769	9 9	M
1992 SE3	15.0	920915	50.93	277.30	356.03	7.48	0.2183	2.4921	7 0	W
1992 SH3	16.0	920915	350.77	208.89	153.64	3.11	0.2135	2.4088	25 0	M
1992 SK3	14.0	920915	97.59	64.95	160.70	13.26	0.2199	3.0252	4 9	E W
1992 SM3	16.0	920915	310.00	310.00	112.35	1.55	0.2335	2.5216	5 0	W
1992 SN3	16.0	920915	303.04	287.79	146.63	4.04	0.2695	2.9941	5 0	E W
1992 SV3	15.5	920915	267.31	316.61	136.96	2.83	0.1121	2.3705	5 0	W
1992 SW3	15.5	920915	308.37	11.90	44.79	1.90	0.1629	2.3764	5 9	W
1992 SA4	14.5	920915	246.03	316.90	153.68	6.22	0.0794	2.3439	5 0	E W
1992 SC4	17.0	920915	309.26	14.02	46.24	2.17	0.1983	2.4267	3 0	W
1992 SN5	15.0	920915	90.14	237.04	359.61	9.08	0.1936	2.4153	9 9	W
1992 SA6	17.0	920915	356.88	341.18	11.77	3.31	0.2465	2.5932	2 9	E W

1992 SB6	14.5	920915	299.59	65.19	10.65	3.59	0.2500	2.5520	3 8	E W
1992 SH6	16.5	920915	337.04	11.90	8.01	5.15	0.1519	2.2291	5 0	W
1992 SA7	17.0	920915	311.84	284.87	130.02	2.33	0.2005	2.5846	2 9	E W
1992 SE7	18.0	920915	20.10	169.21	149.07	3.15	0.1865	2.3343	2 8	E W
1992 SJ7	16.0	920915	359.37	193.36	155.51	4.60	0.1783	2.3737	24 7	W
1992 SQ9	14.5	920915	113.02	44.47	185.86	6.15	0.1973	3.1822	7 9	E W
1992 SR9	16.0	920915	43.75	313.40	2.79	8.27	0.0105	2.4731	7 9	E W
1992 SV9	16.0	920915	336.85	209.77	182.87	0.98	0.1686	2.4729	7 0	W
1992 SW9	16.5	920915	308.46	57.27	5.94	7.34	0.1076	2.6100	7 0	W
1992 SY9	18.0	920915	358.13	202.28	160.97	0.68	0.0617	2.4330	2 8	W
1992 SA10	16.0	920915	353.61	341.96	27.28	1.23	0.0405	2.8610	5 0	W
1992 SB10	15.0	920915	121.58	42.69	182.00	8.76	0.1975	2.7322	2 0	E W
1992 SC10	15.5	920915	101.12	94.26	160.66	1.21	0.0626	2.9896	2 0	E W
1992 SY10	15.5	920915	98.95	70.05	184.83	19.69	0.0735	2.9376	4 9	W
1992 SZ10	18.0	920915	51.77	290.29	3.17	1.49	0.1508	2.2940	6 9	W
1992 SA11	16.0	920915	70.21	270.05	4.17	3.11	0.1513	2.7262	6 9	W
1992 SC11	15.5	920915	113.06	42.96	183.87	2.35	0.2485	2.7420	6 0	E W
1992 SF11	14.5	920915	202.35	344.76	176.82	1.45	0.0202	3.1585	4 0	E W
1992 SG11	17.5	920915	350.30	340.20	37.41	0.74	0.2613	2.8613	4 9	W
1992 SH11	17.5	920915	37.11	140.83	172.37	1.01	0.1310	2.2323	4 0	W
1992 SV11	15.0	920915	40.84	301.12	6.45	6.12	0.1441	2.3858	4 9	W
1992 SY11	16.0	920915	40.76	124.44	181.87	6.60	0.1741	3.1024	4 9	E W
1992 SM12	13.0	921005	60.55	150.99	149.92	6.22	0.1380	2.3846	26 6	N
1992 SN12	12.9	921005	288.91	338.27	129.40	0.70	0.1701	2.8171	9 4	E N
1992 SW12	14.0	920915	9.60	327.91	23.80	5.90	0.1602	2.3208	2 6	E W
1992 SX12	13.4	921005	11.89	193.17	164.00	3.19	0.1685	2.1675	5 8	N
1992 SY12	13.2	921005	346.73	29.55	6.32	11.63	0.2204	2.4892	4 6	N
1992 SA13	14.7	921005	4.49	345.54	22.81	8.64	0.2902	2.6840	19 9	N
1992 SB13	13.4	921005	257.81	82.93	47.45	3.52	0.0866	2.2814	19 8	N
1992 SC13	14.0	921025	27.34	320.76	19.60	6.24	0.2608	2.6030	21 8	N
1992 SD13	12.6	921005	26.41	129.91	206.38	10.63	0.1730	3.1275	23 6	N
1992 SE13	14.6	921005	324.71	64.76	355.31	1.80	0.1921	2.2631	11 8	E N
1992 SF13	14.6	921005	9.17	157.64	199.06	1.96	0.1475	2.3384	2 6	E N
1992 SG13	13.9	921005	9.21	354.76	18.55	5.66	0.2568	2.3386	33 6	N
1992 SK13	14.5	920915	3.54	51.60	308.53	4.52	0.1908	2.2653	4 6	W
1992 ST13	13.5	920915	92.27	93.31	163.65	7.86	0.0825	2.9526	2 4	M
1992 SU13	15.5	920915	340.96	307.21	81.08	2.15	0.2316	2.8646	2 4	E M
1992 SV13	15.5	920915	352.00	231.10	137.75	2.45	0.2099	2.1892	2 4	E M
1992 SW13	16.0	920915	315.23	279.51	141.05	2.98	0.1934	2.1552	2 4	M
1992 SX13	16.5	920915	312.93	5.52	61.16	1.68	0.2190	2.1660	2 4	M
1992 SY13	15.5	920915	13.73	321.16	9.94	12.13	0.2930	2.5580	2 4	M
1992 SZ13	15.0	920915	345.18	267.30	113.49	2.08	0.1944	2.9234	2 4	M
1992 SA14	14.0	920915	57.93	102.44	172.23	10.44	0.2429	3.0311	2 4	E M
1992 SB14	14.0	920915	195.14	158.85	9.45	11.62	0.1330	2.4607	2 4	M
1992 SC14	15.5	920915	82.11	214.38	54.70	2.75	0.0693	2.3641	2 4	E M
1992 SD14	14.5	920915	297.00	264.34	166.67	7.40	0.0762	2.7987	2 4	E M
1992 SE14	14.0	920915	68.84	119.36	168.12	11.08	0.0335	2.5497	2 4	E M
1992 SF14	14.5	920915	355.71	148.43	228.01	18.15	0.2937	2.4969	4 5	E W
1992 SG14	13.0	920915	39.53	2.07	307.93	13.05	0.2823	2.8555	4 6	E W
1992 ST14	12.0	920915	356.08	324.86	59.20	16.70	0.1435	3.1388	4 6	E W
1992 SU14	12.4	921005	329.28	79.71	354.78	14.67	0.1492	2.7374	21 6	N
1992 SW14	14.5	920915	355.43	30.83	345.07	25.39	0.2482	2.3260	4 6	W
1992 TA	17.0	921005	316.48	80.46	355.45	26.01	0.2892	1.8508	17 0	M
1992 TH	15.0	920915	32.75	110.06	190.32	14.99	0.2508	2.8769	2 0	E W
1992 TJ	14.0	920915	185.71	257.07	273.98	3.46	0.2504	2.7793	2 8	E W
1992 TV	12.0	921005	99.05	64.73	196.52	2.36	0.0936	2.8810	18 9	N
1992 TW	13.0	920915	1.53	175.31	188.51	9.37	0.1526	2.9507	2 7	E W
1992 TX	12.3	921005	345.97	12.21	18.01	1.62	0.1398	2.8629	28 8	N
1992 TB1	14.4	921005	7.56	176.58	193.10	6.19	0.2365	2.4820	18 6	N

1992 TE1	14.6	921005	24.00	155.29	188.76	4.30	0.1457	2.1925	5 6	N
1992 TF1	15.0	921005	13.53	356.20	354.89	3.62	0.2899	2.4418	4 5	N
1992 TG1	13.8	921005	46.35	326.49	346.61	6.12	0.2149	2.3156	6 6	N
1992 TJ1	13.0	921005	33.85	178.46	150.25	14.49	0.1851	2.6547	23 9	W
1992 UG	12.8	921025	11.53	290.38	85.97	6.00	0.3078	2.5794	6 6	N
1992 UR	13.7	921025	26.12	311.97	39.00	15.26	0.2010	2.4344	6 0	N
1992 UQ	12.8	921025	81.93	119.00	173.54	4.42	0.1319	2.5179	8 6	N
1992 US	14.1	921025	357.20	357.09	41.15	8.24	0.2381	2.3757	9 0	N
1992 UX	13.5	921025	16.18	307.95	66.59	7.78	0.1209	2.3453	10 8	U
1992 UY	14.1	921025	6.14	207.08	179.84	6.52	0.1817	2.3099	9 8	U
1992 UZ	13.0	921025	30.48	281.38	59.88	13.58	0.2886	2.6036	9 8	U
1992 UG1	12.6	921025	320.88	219.18	217.92	2.10	0.0289	2.3528	6 8	E N
1992 UT1	13.2	921025	65.98	225.45	85.73	4.29	0.1499	2.5172	6 0	N
1992 UW1	13.2	921025	68.49	226.46	81.68	4.07	0.1467	2.3707	7 6	N
1992 UY1	12.0	921025	203.39	17.14	183.03	8.04	0.2696	2.3332	5 8	E N
1992 UC2	13.9	921025	19.12	275.21	81.22	7.05	0.2857	2.6559	6 5	U
1992 UD2	14.5	921025	9.08	332.95	46.39	23.85	0.2368	2.1953	5 0	W
1992 UM2	13.9	921025	19.87	293.76	71.40	4.54	0.1785	2.3044	7 8	N
1992 UO2	11.9	921025	41.45	323.79	20.56	15.14	0.1723	2.5597	5 6	U
1992 UQ2	13.0	921005	11.28	311.63	43.59	25.73	0.2330	2.5305	5 5	W
1992 UW2	14.5	921025	33.65	286.15	53.98	5.97	0.2097	2.2772	6 5	N
1992 UY2	13.4	921025	303.77	256.84	207.30	5.73	0.0673	2.3361	6 6	N
1992 UZ2	13.0	921025	22.42	292.00	75.36	2.46	0.2079	2.9525	6 6	E W
1992 UB3	12.0	921025	284.33	86.76	44.52	15.14	0.0890	2.5772	3 6	E N
1992 UD3	11.9	921025	295.45	263.90	226.72	16.21	0.2391	2.7744	4 6	N
1992 UE3	13.3	921025	7.36	289.63	93.85	2.70	0.1520	2.8228	6 8	N
1992 UF3	13.5	921025	71.09	112.29	195.60	8.43	0.1406	2.3271	6 6	N
1992 UG3	12.7	921025	1.60	240.85	151.71	2.53	0.0823	2.8985	6 0	N

1992 AN3 = 1992 CE4 (G. V. Williams)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams  
 (4179) Toutatis Obs. 153 M 15.05350 Peri. 276.27727  
 H 14.0 G 0.15 Opp. 4 n 0.24852601 Node 126.48585  
 rms res. 0".84 (M-N) 1934-1992 e 0.6398548 Incl. 0.46674

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams  
 (4268) Grebenikov Obs. 11 M 260.66138 Peri. 18.74703  
 H 13.4 G 0.15 Opp. 4 n 0.23012488 Node 359.87625  
 rms res. 0".83 (M-C) 1942-1992 e 0.2605319 Incl. 4.26177

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Marsden  
 (4407) Taihaku Obs. 31 M 19.99345 Peri. 89.03947  
 H 12.0 G 0.15 Opp. 4 n 0.22061160 Node 257.56665  
 rms res. 0".95 (M-C) 1970-1992 e 0.0608479 Incl. 4.71277

(5359)\* 1974 QX1 = 1931 RT = 1942 VR = 1983 CH5 = 1985 VA = 1989 YF3

Discovered 1974 Aug. 24 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. H. Kaneda (MPC 17011)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams  
 M 27.41804 (2000.0) P Q  
 n 0.27529253 Peri. 310.17585 +0.97021036 -0.24096709  
 a 2.3403084 Node 63.78108 +0.22989162 +0.88313260  
 e 0.1994922 Incl. 1.59907 +0.07643098 +0.40250674  
 P 3.58 H 13.8 G 0.15

Residuals in seconds of arc

310915	024(12.1+ 72.5-)	X	740824	095	2.7-	0.9+	740914	095	0.7+	1.7-	
421105	062	0.4+	0.6+	740911	095	(1.2+	6.1-)	800408	675	0.1-	0.4-
421105	062	(3.6-	0.1-)	740914	095	0.2+	0.8+	800409	675	0.4-	0.2-

830214	381	2.7+	1.3-	900201	372	0.5-	1.1-	920930	801	0.3+	0.3-
851112	881	0.7-	1.3- Y	900201	372	1.2-	1.6+	920930	691	1.3-	0.1+
851112	881	0.4-	1.5+ Y	920825	801	0.3+	0.3-	920930	691	1.3-	0.1+
891230	413	0.1+	0.4-	920825	801	0.4+	0.2-	920930	691	0.8-	0.1+
891230	413	0.1-	0.7+	920928	400	2.1+	0.4-	920930	400	0.1-	0.7+
891231	413	1.7-	0.9-	920928	400	0.8+	1.1-	920930	400	1.6+	0.4+
891231	413	0.6+	0.5+	920930	801	0.6+	0.1-				

(5360)\* 1975 VD9 = 1954 ET = 1980 TN2 = 1986 RL13 = 1986 TL15 = 1990 HK1  
 Discovered 1975 Nov. 8 by N. S. Chernykh at the Crimean Astrophysical  
 Observatory.

Id. R. H. McNaught (k, MPC 16694), G. V. Williams (ibid.), N. S. Chernykh  
 (d, ibid.)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	359.15214		(2000.0)			P			Q
n	0.16886782	Peri.	20.20006	+0.78771158					-0.60470645
a	3.2416898	Node	18.54644	+0.50212717					+0.51959657
e	0.0310548	Incl.	21.70765	+0.35690163					+0.60361371
P	5.84	H	11.5	G	0.15				

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

540308	210(86.8+ 1.9-)X	860914	095	1.3+	0.5-	920930	801	0.1-	0.6+
540309	210(58.9+ 27.8-)X	861006	095	(1.2- 5.2+)		920930	801	0.2-	0.4+
751108	095 0.1+ 0.9+	900428	413	0.2-	0.7-	921001	801	0.2-	0.2+
751112	095 1.5+ 0.2+	900428	413	0.1-	0.4+	921001	801	0.4-	0.2+
751127	095 0.3- 1.1-	900429	413	0.3-	0.2+	921006	894	1.1-	0.0
751127	095 1.6- 0.3+	900429	413	0.3+	0.6+	921006	894	0.1+	0.3-
751128	095 (3.2+ 4.2+)	900519	413	0.8+	0.2+	921029	801	0.5+	0.4+
801005	809 0.4- 0.2+	920925	801	0.2+	0.3-				
860910	095(0.03- 0.00+)	920925	801	0.2+	0.4-				

(5361)\* 1976 YC2 = 1975 WC2 = 1978 EU5 = 1981 UK23 = 1982 YD5 = 1987 XE  
 = 1991 RE30

Discovered 1976 Dec. 16 by L. I. Chernykh at the Crimean Astrophysical  
 Observatory.

Id. G. V. Williams (MPC 20805)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	196.80220		(2000.0)			P			Q
n	0.17771705	Peri.	135.08199	-0.78581260					+0.60571513
a	3.1331654	Node	82.60228	-0.59691403					-0.68993584
e	0.0824869	Incl.	7.23733	-0.16184004					-0.39635554
P	5.55	H	11.5	G	0.15				

Residuals in seconds of arc

751124	033 0.4+ 0.4-	871214	400	(3.3+ 3.3-)		910916	675	0.8+	0.9-
751125	033 0.3+ 0.0	871214	400	2.0-	0.5+	920927	589	1.1-	0.8+
761216	095 0.1- 2.7-	910914	675	0.6+	0.0	920927	589	0.6-	0.9+
761218	095 1.0+ 2.0-	910914	675	0.2+	0.3+	920927	589	0.9-	0.9+
761220	095 0.0 0.2-	910915	675	0.3-	2.9-	920927	589	0.6-	1.0+
780306	095 1.2- 1.1-	910915	675	(4.3+ 0.9-)		921001	801	2.0+	0.0
811024	675 0.5- 0.2+	910915	675	0.5+	0.7-	921001	801	2.3+	0.3+
811025	675 0.5- 0.2+	910915	675	0.4-	0.0	921029	801	1.0-	0.1+
821224	095 2.0+ 0.5-	910916	675	0.3+	0.6-	921029	801	0.9-	0.2+

(5362)\* 1978 CH = 1978 EV = 1976 YS4 = 1989 YR8 = 1991 DL1

Discovered 1978 Feb. 2 by J. Gibson at Palomar.

Id. J. G. Williams (d, MPC 5892), H. Kaneda (MPC 18104)



Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	230.27179		(2000.0)		P		Q
n	0.15821651	Peri.	268.47229	+0.70521967		-0.70513493	
a	3.3855939	Node	136.35963	+0.68557882		+0.65169105	
e	0.0082608	Incl.	6.14072	+0.18068453		+0.27943426	
P	6.23	H	11.4	G	0.15		

Residuals in seconds of arc

761218	095	(0.5- 6.4-)	910220	400	(0.1- 3.6+)	920529	801	0.1- 0.8+
780202	675	0.3+ 0.1+	910220	400	(1.2+ 3.3+)	920603	675	0.5- 0.7-
780203	675	0.2- 0.1+	910305	400	(2.3- 4.9+)	920603	675	0.2+ 0.6-
780208	675	0.1+ 1.2-	910305	400	0.8+ 0.4+	920605	675	0.0 1.1-
780305	095	0.6- 0.9+	910309	402	0.3- 0.8-	920605	675	(1.4+ 4.0-)
810903	675	0.3+ 0.0	910309	402	0.7+ 0.2+	920606	675	0.1- 0.3-
810904	675	0.2+ 0.2-	920506	801	0.6- 0.1-	920606	675	0.5- 1.7+
891225	033	0.4- 0.4-	920506	801	0.5+ 1.8-			
891226	033	0.1- 0.0	920529	801	0.2+ 1.6+			

(5363)\* 1979 UQ = 1949 YE = 1978 JS3

Discovered 1979 Oct. 19 by A. Mrkos at Klet.

Id. S. J. Bus (MPC 13165), S. Nakano (MPC 15552)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	349.63471		(2000.0)		P		Q
n	0.29376072	Peri.	135.67031	+0.93581599		-0.34977900	
a	2.2411636	Node	244.84951	+0.30852702		+0.87265764	
e	0.1758467	Incl.	2.76234	+0.17046849		+0.34076868	
P	3.36	H	13.6	G	0.15		

Residuals in seconds of arc

491223	020	(0.3- 16.2+)X	791023	046	1.0+ 0.9+	891009	400	(5.2+ 0.8-)
710514	675	0.1- 0.5-	791025	046	0.3+ 1.6+	891021	095	1.4- 1.3+
710514	675	1.2- 0.8-	791025	046	(4.1- 1.3-)	891024	400	(3.7- 1.2+)
710516	675	0.3- 0.7-	791027	330	0.0 1.7-	891024	400	(5.9- 1.8+)
780509	675	0.1- 0.1-	791117	095	0.2- 0.7-	891024	400	(4.7- 0.8+)
780510	675	1.2+ 0.4+	890903	675	0.2- 1.4-	891025	095	0.8+ 0.7+
791017	095	1.8- 0.2-	890903	675	0.4+ 1.2-	891025	095	0.1- 1.5+
791019	046	1.1- 1.3-	890927	675	0.2- 0.1-	920708	894	1.4- 0.8+
791019	046	1.2- 1.5-	890928	675	0.0 1.0-	920709	894	0.1+ 0.3-
791020	046	1.3+ 0.1+	890929	675	0.5+ 0.6-	920709	894	0.4- 0.4+
791020	046	1.5+ 0.8-	890929	675	0.3+ 0.2+	920925	801	1.4+ 0.5-
791021	330	0.2- 1.0+	891009	400	(3.9+ 2.8+)	920925	801	0.3+ 0.1+
791023	046	0.5+ 1.7+	891009	400	(4.5+ 2.9+)			

(5364)\* 1980 RC1 = 1986 CA2

Discovered 1980 Sept. 2 by Z. Vavrova at Klet.

Id. C. M. Bardwell (MPC 10952)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Bardwell

M	53.84662		(2000.0)		P		Q
n	0.25588473	Peri.	76.90895	+0.99836544		+0.02149638	
a	2.4571960	Node	281.84070	-0.04125243		+0.91232627	
e	0.2032494	Incl.	3.10164	+0.03955602		+0.40889936	
P	3.85	H	12.9	G	0.15		

Residuals in seconds of arc

800804	675	0.5- 0.3-	820130	675	0.3+ 0.5+	860214	809	0.3- 0.7-
800805	675	0.4- 0.1-	820131	675	0.8+ 0.4+	860214	809	0.3- 0.7-
800902	046	0.4+ 0.9-	860212	809	1.0- 0.4-	860214	809	0.1- 0.4-
800902	046	0.8+ 0.1-	860212	809	0.9- 0.2-	860215	809	0.3- 0.5-
800903	046	0.6- 0.4-	860212	809	1.1- 0.1-	860215	809	0.1- 0.6-
800903	046	0.5- 0.4+	860213	809	0.7- 0.2-	860215	809	0.1+ 0.6-
800916	046	0.8+ 0.1-	860213	809	0.6- 0.2-	860216	809	0.3+ 0.2+
800916	046	1.3+ 0.4+	860213	809	0.4- 0.0	860216	809	0.5+ 0.1+

860216	809	0.4+	0.1+	881012	801	0.9-	1.1+	921024	801	0.3+	0.1+
860217	809	0.7+	0.5+	881108	801	0.9-	0.1-	921024	801	0.2+	0.1+
860217	809	0.9+	0.5+	920925	801	0.0	0.1-	921028	801	0.2+	0.2+
860217	809	0.7+	0.5+	920925	801	1.1+	0.6-	921028	801	0.1+	0.2+
880915	095	0.5-	0.1+	920930	801	0.1+	0.0				
880915	095	0.4+	1.9-	920930	801	0.0	0.1+				

(5365)\* 1981 EN1 = 1978 GP4 = 1978 JT3 = 1991 FQ3 = 1992 RR

Discovered 1981 Mar. 7 by H. Debehogne and G. DeSanctis at the European Southern Observatory.

Id. K. Ichikawa

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Marsden

M	123.22271		(2000.0)			P			Q
n	0.29801087	Peri.	179.04131			-0.17752673			+0.98372782
a	2.2198041	Node	80.73258			-0.90309503			-0.15168808
e	0.0951147	Incl.	1.60468			-0.39102894			-0.09628245
P	3.31	H	14.2			G	0.15		

Residuals in seconds of arc

780411	095	0.5-	0.1-	810310	809	0.0	0.1+	910325	809	0.2-	1.2-
780505	095	0.6+	0.3+	810310	809	0.1-	0.2+	910325	809	0.2-	0.9-
810307	809	0.3+	0.1+	810310	809	0.5+	0.1-	910325	809	0.6-	0.5-
810307	809	0.0	0.0	810310	809	0.7+	0.2-	920902	033	0.8-	0.6+
810307	809	0.2-	0.3+	910322	809	0.8-	0.2+	920904	033	0.0	0.1-
810309	809	1.4-	0.3+	910322	809	0.3-	0.1-	920904	033	0.9-	0.0
810309	809	0.9-	0.4+	910322	809	0.3+	0.1-	920906	033	1.0+	1.5-
810309	809	0.9-	0.3+	910323	809	0.1+	1.4+	920907	033	0.6+	0.0
810309	809	0.0	0.0	910323	809	0.5+	1.1+	920926	033	0.2+	0.1-
810309	809	0.4+	0.0	910323	809	1.0+	1.2+	920926	033	0.1+	0.1+
810309	809	0.7+	0.1+	910324	809	0.3-	1.2-	920927	033	0.1+	0.1+
810310	809	0.4+	0.5-	910324	809	0.1-	0.9-	920928	033	0.1+	0.0
810310	809	0.7+	0.2-	910324	809	0.1-	0.8-				

(5366)\* 1981 EY30 = 1972 TH8 = 1982 SX6 = 1989 WD2

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

Id. S. Nakano (MPC 15704), T. Kobayashi (ibid.)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	51.01695		(2000.0)			P			Q
n	0.29371117	Peri.	171.11069			+0.86334502			+0.50395639
a	2.2414157	Node	158.56763			-0.46719900			+0.81757657
e	0.2065849	Incl.	4.04183			-0.19068423			+0.27856150
P	3.36	H	14.1			G	0.15		

Residuals in seconds of arc

710324	675	0.6-	0.8-	810212	413	0.3-	0.3-	891201	875	0.9+	0.2-
710326	675	0.5-	0.9-	810213	413	0.5+	2.3-	891201	875	1.2+	0.3-
710326	675	1.4-	0.2-	810302	413	2.5-	0.8+	920827	801	0.8+	1.1-
710327	675	0.2-	0.5+	810302	413	0.3+	1.3-	920827	801	0.8+	1.2-
710402	675	1.5+	0.4+	810306	413	1.8-	0.2-	920830	801	0.3+	1.4-
710402	675	0.6-	0.0	810306	413	0.4+	0.5-	920830	801	0.3+	1.4-
710416	675	(3.4+	1.4-)	810311	413	1.7-	0.6-	920904	894	1.2-	1.5-
710416	675	1.5+	1.7-	810311	413	0.0	1.5-	920904	894	1.1+	2.3-
710513	675	0.2-	1.3-	810426	413	(5.5+	2.2-)	920925	801	0.1+	0.4+
710514	675	0.0	2.0-	810502	413	0.9+	0.3+	920925	801	0.1+	0.4+
710516	675	0.3+	0.9-	820916	095	0.7-	0.1+	921001	801	0.5+	0.1-
721006	095	(1.2+	6.8-)	891130	875	(1.1+	3.8-)	921001	801	0.8+	0.0
810209	413	0.2+	0.6-	891130	875	1.3-	2.7-				

(5367)\* 1982 TT = 1961 XP = 1987 SV1

Discovered 1982 Oct. 13 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. E. Bowell (k, MPC 12445), B. G. Marsden (ibid.)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

				Marsden			
M 342.21825 (2000.0)				P Q			
n	0.18594595	Peri.	138.05620	+0.85389864	-0.48927752		
a	3.0400325	Node	252.05543	+0.41402842	+0.84514567		
e	0.1264129	Incl.	10.74584	+0.31533723	+0.21525869		
P	5.30	H	12.1	G	0.15		

Residuals in seconds of arc

611207	760	0.2+	1.4-	870921	010	0.9-	0.6+	920805	675	0.7+	0.2-
611207	760	(1.9+	4.3+)	870922	010	1.6-	0.2-	920824	801	0.8+	0.5-
821013	688	0.8+	0.9-	870929	688	0.9-	0.0	920824	801	0.8+	0.5-
821013	688	0.3+	0.9-	870929	688	1.8-	2.0+	920826	801	0.4+	0.7-
821015	095	1.1+	1.6+	871016	688	0.3+	2.4+	920826	801	0.7+	0.7-
821021	095	0.1-	0.6+	871016	688	(0.8+	3.0-)	920924	801	0.4+	0.4-
821022	095	0.9-	0.6-	910606	809	(3.0-	1.2+)	920924	801	0.7+	0.4-
821111	095	(1.8-	6.4+)	910606	809	2.0-	1.6+	920930	801	0.3+	0.1-
870921	688	0.3-	0.5-	910606	809	1.1+	0.8+	920930	801	0.3+	0.2-
870921	688	0.8-	1.4+	920805	675	0.3+	1.2-				

(5368)\* 1984 SW5 = 1980 CE = 1985 VQ4 = 1988 DC1 = 1991 NF1

Discovered 1984 Sept. 21 by H. Debehogne at the European Southern Observatory.

Id. E. Bowell (k, MPC 18625), G. V. Williams (ibid.)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

				Williams			
M 237.70295 (2000.0)				P Q			
n	0.12490227	Peri.	347.97815	-0.84783108	-0.52895742		
a	3.9635940	Node	159.95277	+0.49506648	-0.81475471		
e	0.0832671	Incl.	6.23601	+0.18997799	-0.23744222		
P	7.89	H	10.9	G	0.15		

Residuals in seconds of arc

800211	688	0.1-	1.3-	840927	809	0.2-	1.1+	910714	675	(2.6-	0.8+)
800211	688	(0.2-	2.6-)	840927	809	0.3-	0.5+	910717	675	0.5-	0.1+
840921	809	0.9+	0.6-	840928	809	(2.7-	1.5+)	910717	675	0.1+	0.6+
840921	809	0.9+	0.7-	840928	809	(2.5-	1.3+)	910805	675	1.0-	0.8+
840921	809	1.0+	0.6-	840928	809	2.0-	0.9+	910805	675	1.4+	0.0
840922	809	1.2+	1.0+	840929	809	0.6+	0.7-	910805	675	0.9-	1.3-
840922	809	1.0+	0.8+	840929	809	0.6+	0.8-	910805	675	0.1+	0.8-
840922	809	1.3+	0.8+	840929	809	0.9+	0.8-	910808	675	1.0-	0.4+
840923	809	0.1-	0.2+	840930	809	1.0-	0.3-	910808	675	1.2+	1.3-
840923	809	0.2-	0.0	840930	809	0.9-	0.3-	910808	675	0.3-	0.7+
840923	809	0.3+	0.5-	840930	809	1.0-	0.3-	910808	675	0.1+	1.1-
840924	809	0.1+	0.5-	841001	809	0.4-	0.1+	920925	801	0.3+	0.2+
840924	809	0.1+	0.4-	841001	809	0.4-	0.4+	920925	801	0.3+	0.1+
840924	809	0.2-	0.3-	841001	809	0.4-	0.5+	921001	801	0.3-	0.1+
840926	809	0.2-	0.5-	851111	095	1.0-	0.9-	921001	801	0.3-	0.3+
840926	809	0.1-	0.1-	880217	809	0.2-	0.7-	921024	801	0.0	0.5+
840926	809	0.3-	0.1+	880217	809	0.2-	0.3-	921024	801	1.0+	0.1+
840927	809	0.0	0.1-	880217	809	0.1-	1.0-	921028	801	0.1+	0.5-
840927	809	0.3-	0.4-	910712	675	1.0+	0.1-	921028	801	0.3+	0.9-
840927	809	0.0	0.2-	910712	675	0.2-	0.6-				
840927	809	0.2-	1.6+	910714	675	0.4-	0.1-				

(5369)\* 1985 SE1 = 1934 RC = 1975 VD5 = 1978 NO1

Discovered 1985 Sept. 22 by P. Wild at Zimmerwald.

Id. C. M. Bardwell (MPC 10390)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Bardwell

M	68.04616		(2000.0)		P		Q
n	0.29058086	Peri.	180.84977	+0.97756466		+0.20988546	
a	2.2574842	Node	166.99347	-0.19278581		+0.92550617	
e	0.2293603	Incl.	4.52603	-0.08485845		+0.31525613	
P	3.39	H	13.8	G	0.15		

Residuals in seconds of arc

340902	012	0.5-	0.2-	850925	026	0.1+	0.7-	921001	801	0.3-	0.0
340905	012	0.8+	0.1-	851012	026	1.1-	0.6-	921001	801	0.5-	0.1-
340912	012	(4.6+	70.6+)	851013	026	0.9-	0.6-	921024	801	0.5+	0.1-
751102	095	1.1-	2.1+	851016	026	0.8-	1.4-	921024	801	0.5+	0.1+
780704	095	1.6+	0.3-	851106	026	0.6-	0.2+	921028	801	0.0	0.1+
780708	095	1.7-	1.0+	851107	026	0.8+	1.1-	921028	801	0.5+	0.2-
850922	026	1.5+	2.0+	851107	026	1.5+	1.2+				
850922	095	(3.0+	5.6-)	880614	801	0.0	0.5+				

(5370)\* 1986 RA

Discovered 1986 Sept. 2 by A. Maury at Palomar.

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	13.79817		(2000.0)		P		Q
n	0.16078665	Peri.	161.15366	+0.93460157		+0.35549761	
a	3.3494183	Node	177.90694	-0.35358675		+0.93217442	
e	0.6316155	Incl.	18.99808	-0.03868225		+0.06835422	
P	6.13	H	15.6	G	0.15		

Residuals in seconds of arc

860811	675	(7.4-	0.0 )	860926	046	2.0-	0.2+	861010	323	(3.1-	2.8+)
860811	675	(9.8-	2.8+)	860927	691	1.2+	0.4-	861026	707	0.8-	0.7-
860902	675	0.5-	0.2+	860927	691	1.2+	0.3-	861027	323	1.5+	0.6+
860902	675	0.7-	0.9+	860927	691	1.2+	0.1-	861028	474	1.0-	0.3+
860902	010	1.9+	0.1+	860929	046	0.1-	0.7-	861028	474	(0.9-	3.7+)
860902	010	1.3+	1.9+	860929	046	0.2-	1.2-	861028	323	(4.4+	0.6+)
860902	010	(5.4+	0.7+)	860930	323	0.0	0.8-	861029	801	(3.0+	0.5+)
860902	010	(2.1+	3.2+)	860930	046	0.6+	0.0	861030	691	0.2+	0.7-
860903	010	(2.8+	2.3-)	860930	046	1.0-	1.3+	861030	691	0.2+	0.5-
860903	010	(0.5-	2.6+)	860930	010	(4.9-	2.0-)	861031	323	(4.3-	2.2-)
860903	010	(4.3+	2.9-)	860930	010	(5.8-	2.4+)	861106	323	(5.8-	0.9-)
860903	010	0.4+	1.5+	860930	010	0.3-	1.8-	861107	323	0.5-	0.1+
860905	688	0.4-	0.4-	860930	010	0.2+	0.4+	861130	691	0.5-	0.2+
860905	688	0.3-	0.3+	861001	323	(4.3+	3.4+)	861130	691	0.1-	0.0
860905	688	0.7+	1.2-	861001	046	0.7+	1.3+	861204	691	0.4-	0.2-
860906	657	1.1-	1.0-	861001	046	0.0	0.6+	861204	691	0.2-	0.4-
860908	323	(3.7+	1.5+)	861002	657	(1.8+	2.9-)	861204	691	0.1-	0.3+
860909	474	0.7+	1.0+	861002	046	0.2-	1.4+	861205	801	0.7-	0.2-
860909	474	0.4+	1.0+	861002	046	0.3-	0.2-	861230	691	1.2+	0.4+
860911	688	0.8+	0.2+	861003	323	0.8+	0.1+	861230	691	1.3+	0.7+
860911	688	2.0-	1.3+	861003	046	1.1+	0.7+	861230	691	1.4+	0.7+
860911	323	1.2+	1.1+	861003	046	0.4+	0.6+	861231	688	0.4-	0.6+
860922	323	0.2+	0.3-	861004	688	1.4+	0.8+	861231	688	0.6-	0.6+
860923	046	1.6-	0.1+	861004	688	(0.1+	3.9+)	870125	691	0.2+	1.1-
860923	046	0.8-	0.9-	861004	046	0.5-	0.6-	870125	691	0.5+	0.7-
860924	372	0.0	0.2+	861004	046	0.4-	0.3+	870125	691	0.4+	1.0-
860924	372	(2.0-	3.7+)	861006	801	0.5-	0.1-	870129	691	1.1-	1.0+
860925	691	(4.6-	0.7-)	861007	323	0.6+	0.1-	870129	691	1.0-	1.1+
860925	691	0.1+	0.5-	861008	695	(2.0+	5.2-)	870201	688	0.5-	1.8+
860925	691	0.2+	0.3-	861008	695	1.5-	2.1-	870201	688	0.2-	2.3+
860925	046	0.3-	1.5-	861008	695	(5.6+	2.6-)	870301	691	0.0	0.0
860925	046	0.1+	1.1-	861008	695	(0.1-	5.1+)	870301	691	0.8-	0.3-
860926	323	1.7-	0.7-	861008	323	1.4-	0.1-	870301	691	0.0	0.5+
860926	046	0.3-	1.0-	861009	323	(2.8-	2.8-)	920504	658	0.5-	0.0

920504 658 0.2+ 0.5-	920726 658 0.2+ 1.5-	920820 413 0.8+ 0.2+
920504 658 0.2- 0.2+	920726 658 0.9- 0.3-	920820 413 0.8+ 0.3+
920619 413 0.7+ 0.7+	920727 658 0.2- 0.8-	920831 801 0.2- 0.6+
920619 413 0.5+ 0.7+	920727 658 0.0 0.8-	920831 801 2.0- 0.7+
920726 801 0.2+ 0.0	920727 658 0.1- 0.8-	920905 413 0.5+ 0.1+
920726 801 1.1+ 0.1+	920802 801 0.1+ 0.1+	920905 413 0.8+ 0.0
920726 658 1.0- 1.1-	920802 801 0.0 0.2+	

(5371)\* 1987 VG1 = 1976 YA5 = 1980 NF = 1981 UE13

Discovered 1987 Nov. 15 by S. Ueda and H. Kaneda at Kushiro.

Id. H. Kaneda (MPC 17019)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M 25.31103	(2000.0)	P	Q
n 0.17516556	Peri. 80.92184	+0.94653629	+0.27682197
a 3.1635174	Node 262.87651	-0.31998936	+0.87081958
e 0.1046904	Incl. 9.60964	+0.04093728	+0.40625468
P 5.63	H 11.8	G 0.15	

Residuals in seconds of arc

761218 095 1.0- 0.4-	871122 399 0.6- 1.4+	920818 589 0.7+ 0.2-
761220 095 1.1+ 0.4-	871128 399 0.4+ 1.0+	920818 589 0.8+ 0.9-
800711 805 1.6- 0.4+	871128 399 0.6+ 0.1+	920825 801 0.0 1.0+
800712 805 0.5+ 0.1+	871212 399 0.8- 0.6+	920825 801 0.7+ 1.2+
800712 805 1.0+ 0.0	871212 399 0.6+ 0.8+	920828 657 0.1+ 0.4-
800713 805 0.7+ 0.1-	871212 399 0.0 0.7-	920828 657 0.3+ 0.2-
800713 805 1.1- 1.5+	920729 801 0.1- 0.0	920828 399 0.3+ 0.0
811023 095 (2.9- 5.7+)	920729 801 0.0 0.1+	920828 399 0.4- 1.8-
871115 399 0.4+ 0.3+	920802 801 0.2- 0.1+	920920 399 0.9- 0.0
871115 399 1.4- 1.1-	920802 801 0.1+ 0.1+	920920 399 1.5- 0.9-
871122 399 0.4+ 0.5+	920818 589 0.9+ 0.2+	

(5372)\* 1987 WS = 1987 UP1 = 1976 SY5 = 1976 UM1

Discovered 1987 Nov. 29 by K. Endate and K. Watanabe at Kitami.

Id. S. Nakano (MPC 12800), T. Kobayashi (ibid.), H. Kaneda (d, ibid.)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M 65.68018	(2000.0)	P	Q
n 0.18260699	Peri. 296.86806	+0.72034880	+0.68989442
a 3.0769784	Node 19.78444	-0.53711260	+0.62024909
e 0.0837635	Incl. 12.23239	-0.43887089	+0.37327839
P 5.40	H 11.3	G 0.15	

Residuals in seconds of arc

760924 095 1.8+ 0.4+	871211 400 1.2+ 0.7+	900327 675 0.9- 1.5-
761026 095 2.6- 1.0+	900227 801 1.0- 0.4+	900327 675 0.8- 2.0-
871028 399 0.2- 1.6-	900227 801 0.1+ 0.1-	900329 400 1.6+ 2.0+
871028 399 0.8- 1.5-	900318 400 1.5+ 0.4+	900329 400 0.7+ 1.9+
871028 399 0.4- 0.3+	900318 400 (6.0+ 0.5-)	920826 801 0.0 0.0
871128 399 0.9- 0.6- Y	900320 095 (4.0- 1.2+)	920831 801 0.4- 0.3-
871128 399 0.6- 0.4+ Y	900320 095 (5.4- 3.5-)	920831 801 0.1- 0.4-
871129 400 (3.2- 3.2+)	900321 400 2.1+ 0.1+	920930 801 0.1- 0.0
871129 400 (0.9- 5.3+)	900321 400 (1.2+ 3.0+)	920930 801 0.0 0.1-
871210 400 0.1- 0.5+	900322 801 0.4- 0.2+	920930 400 0.9- 0.2+
871210 400 0.2+ 0.5-	900322 801 1.2- 0.0	920930 400 1.3+ 0.8-
871211 400 1.1+ 0.2-	900327 801 0.3- 0.1+	921019 400 1.4- 2.3+
871211 400 1.2+ 1.3+	900327 801 0.8- 0.6-	921019 400 1.3+ 0.5-

(5373)\* 1988 VV3 = 1975 VC10 = 1977 DY1 = 1979 RT = 1990 EJ6

Discovered 1988 Nov. 14 by S. Ueda and H. Kaneda at Kushiro.

Id. H. Kaneda (MPC 17442)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	46.13758		(2000.0)						Williams				
n	0.22903505	Peri.	310.52835			P		Q					
a	2.6456644	Node	37.93956				+0.97948015					+0.20020119	
e	0.0971623	Incl.	2.16226				-0.17162110					+0.88887344	
P	4.30	H	13.1			G	0.15					+0.41209646	

Residuals in seconds of arc

751106	095	0.5-	0.6-	881202	399	1.7+	0.7+	921001	801	0.8+	0.6+
770218	381	0.9+	0.5+	881202	399	0.5-	0.3+	921002	400	1.7+	1.6+
770218	381	1.4+	0.0	900302	809	0.3-	0.3+	921002	400	0.3-	2.6+
770219	381	0.3+	1.1+	900302	809	0.1-	0.3+	921003	691	0.9-	0.4+
770219	381	1.4+	0.5+	900302	809	0.2+	0.0	921003	691	0.9-	0.2+
790902	095	0.8-	0.9-	900303	809	0.1-	1.2+	921003	691	1.0-	0.4+
881114	399	0.9+	1.4-	900303	809	0.3+	1.5+	921005	372	1.0-	1.4+
881114	399	0.4+	0.6-	900303	809	0.4+	1.6+	921005	372	1.9-	2.4+
881114	399	1.4+	1.7-	900304	809	0.4-	0.5+	921006	372	2.0-	0.8-
881117	399	(3.6+	0.4-)	900304	809	0.3-	0.3+	921006	372	1.4-	0.7+
881117	399	0.5-	1.4-	900304	809	0.1-	0.4+	921029	801	0.2+	0.0
881117	399	0.2+	1.7-	920928	400	1.8+	2.4+	921029	801	0.1+	0.1+
881202	399	0.8-	0.0	920928	400	(3.6+	0.7+)				
881202	399	0.8-	2.3-	921001	801	1.0+	0.2+				

(5374)\* 1989 AM1 = 1980 PF4 = 1981 UY12

Discovered 1989 Jan. 4 by M. Yanai and K. Watanabe at Kitami.

Id. H. Kaneda (MPC 18291)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	190.91958		(2000.0)						Williams				
n	0.17342209	Peri.	245.78430			P		Q					
a	3.1846847	Node	300.57385				-0.97576830					+0.11887474	
e	0.0814139	Incl.	12.31938				-0.01440216					-0.87261961	
P	5.68	H	10.9			G	0.15					-0.47371279	

Residuals in seconds of arc

800804	675	0.4+	1.1-	890130	400	1.9-	1.0+	910713	809	0.1+	0.7-
800805	675	0.9+	1.2-	890130	400	0.8-	1.4+	910714	809	0.6+	0.4+
811023	095	(1.2+	4.4-)	890207	400	1.4-	0.2-	910714	809	0.9+	0.5+
890104	400	(10.3+	6.8+)	890207	400	0.1-	1.8-	910714	809	0.7+	0.5+
890104	400	(11.5+	8.0+)	890207	400	2.0-	0.1-	920826	801	0.1-	0.2-
890104	400	(12.9+	7.5+)	910712	809	0.7-	0.9-	920826	801	0.0	0.1-
890115	400	1.8+	1.2-	910712	809	0.5-	0.9-	921001	801	0.2-	0.2+
890115	400	1.5+	2.2-	910712	809	0.3-	0.6-	921001	801	0.2+	0.2+
890115	400	0.9+	1.1-	910713	809	0.0	0.5-	921002	801	0.1-	0.1+
890130	400	0.0	0.7-	910713	809	0.1+	0.5-	921002	801	0.0	0.1+

(5375)\* 1989 AN6 = 1981 UR16 = 1991 LX1

Discovered 1989 Jan. 11 by F. Borngen at Tautenburg.

Id. K. Ichikawa (MPC 18816)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	38.99015		(2000.0)						Schmadel				
n	0.17469651	Peri.	243.82653			P		Q					
a	3.1691775	Node	89.93567				+0.89615145					+0.44169694	
e	0.1754558	Incl.	2.44263				-0.39040130					+0.83042921	
P	5.64	H	13.2			G	0.15					+0.33954549	

Residuals in seconds of arc

811024	095	0.6-	1.7+	910606	809	1.8+	0.9+	920727	033	(0.4-	2.8-)
890111	033	0.3-	0.2+	910606	809	0.4+	0.8+	920728	033	0.3-	0.1-
890111	033	0.2-	0.1+	910606	809	0.2+	0.6+	920729	033	0.7-	0.1-
890114	033	0.8+	0.3+	910608	809	0.3-	0.6-	920730	033	0.8-	0.2-
890202	033	0.5-	0.4-	910608	809	1.2-	0.7-	920806	033	0.5-	0.2+
890203	033	0.0	0.5-	910608	809	0.9-	0.3-	920902	033	0.0	0.1-

920904 033	0.9-	0.4-	920922 033	0.1+	0.2-	920926 033	0.3+	0.1-
920904 033	0.3-	0.1+	920923 033	0.3-	0.4-	920927 033	0.7+	0.0
920906 033	0.6-	0.0	920924 033	1.1+	1.4-	920927 033	0.7+	0.8+
920907 033	0.2+	0.1-	920926 033	0.6+	0.4+	920928 033	0.6-	0.7-
920921 033	0.8+	0.3-	920926 033	0.6+	0.1-	920928 033	0.0	1.3+

(5376)\* 1990 DD = 1971 BB = 1975 FZ = 1988 QX

Discovered 1990 Feb. 16 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (MPC 16241); also see note on MPC 20961

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 341.36683		(2000.0)		P		Nakano		Q
n 0.26278124	Peri.	98.15661		+0.31743454		-0.94307808		
a 2.4140142	Node	332.68542		+0.76247638		+0.31602755		
e 0.1740258	Incl.	12.48377		+0.56379524		+0.10358728		
P 3.75	H 12.4			G 0.15				

Residuals in seconds of arc

710120 095	0.2+	0.1-	900218 399	0.8+	2.0-	900227 809	1.1-	0.7-
750317 095	0.8+	2.1+	900218 399	(4.0-	1.3-)	900302 552	1.2-	0.3-
880817 046	2.1+	1.7-	900220 374	0.6-	0.6+	900302 552	1.2-	0.5-
880817 046	0.2+	1.7-	900224 552	0.4+	0.6+	900303 552	1.5-	0.4+
880818 046	2.6+	1.2-	900224 552	0.8+	0.5+	900303 552	2.4-	0.2+
880818 046	1.5+	2.3-	900225 809	0.7+	0.3-	900317 095	0.2-	2.3-
880824 046	0.1+	0.8-	900225 809	1.3+	0.4-	900317 095	0.3-	1.9-
880824 046	0.3+	2.4-	900225 809	1.8+	0.5-	920826 801	0.3+	0.5-
900216 399	2.0+	2.0-	900226 809	0.6-	0.1+	920826 801	0.4+	0.3-
900216 399	1.3-	1.0-	900226 809	0.3-	0.1+	920928 399	1.2-	0.4-
900216 399	(3.3-	0.7-)	900226 809	0.1-	0.1+	920928 399	0.0	0.2-
900217 374	0.8-	1.6-	900227 809	1.5-	0.9-	920930 801	0.8+	0.2-
900218 399	2.2-	1.3-	900227 809	1.2-	0.7-	920930 801	0.8+	0.4-

(5377)\* 1991 FM = 1952 DS1 = 1978 EX9 = 1981 CQ = 1989 SF8

Discovered 1991 Mar. 17 by S. Otomo and O. Muramatsu at Kiyosato.

Id. S. Nakano (MPC 18301), K. Ichikawa (ibid.)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 208.90332		(2000.0)		P		Nakano		Q
n 0.30466122	Peri.	199.38763		-0.99849475		-0.05103037		
a 2.1873818	Node	337.65849		+0.05465730		-0.89529912		
e 0.0617975	Incl.	3.03152		+0.00456220		-0.44253291		
P 3.24	H 13.5			G 0.15				

Residuals in seconds of arc

520219 711	(3.8+	7.1+)	Y	910314 809	1.4-	0.4-	920830 801	1.0+	0.1-	
780315 675	1.0-	0.4-		910314 809	0.8-	0.7-	920830 801	0.8+	0.1-	
780316 675	0.4-	0.9-		910314 809	0.2-	1.3-	920831 801	0.6+	0.5+	
810208 688	1.5+	0.9-		910316 809	1.6-	0.9-	920831 801	0.5+	0.6+	
810208 688	0.2-	0.0		910316 809	0.8-	1.0-	920903 894	0.6-	0.7+	
890927 675	0.4-	0.2+		910316 809	0.4-	1.1-	920903 894	1.9-	0.6-	
890928 675	0.7+	0.9-		910317 894	1.6+	0.1+	920904 894	0.2-	1.9-	
890928 675	0.6-	0.0		910317 894	1.7+	1.0-	920905 894	0.0	2.0-	
890929 675	0.4+	2.6-		910319 894	0.5+	2.5+	920905 894	1.5+	0.6-	
890929 675	1.1-	0.2+		910319 894	0.1-	2.3+	920925 801	0.4+	0.1-	
910312 809	1.6-	0.0		910320 894	1.6+	0.3-	920925 801	0.5+	0.2-	
910312 809	1.2-	0.2-		910323 894	1.8+	0.5+	Y	921001 801	0.8+	0.1-
910312 809	0.8-	0.6-		910415 894	0.7-	1.8-		921001 801	0.4+	0.3+

(5378)\* 1991 GD

Discovered 1991 Apr. 9 by R. H. McNaught at Siding Spring.

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M 323.31531	(2000.0)		P	Q
n 0.36640408	Peri. 206.32126		-0.08733417	-0.94746367
a 1.9341754	Node 250.01163		+0.96196896	+0.00004315
e 0.0823249	Incl. 19.11309		+0.25882131	-0.31986341
P 2.69	H 13.8	G 0.15		

Residuals in seconds of arc

750407 413	1.5-	0.3-	910518 413	0.2-	0.2+	920826 801	0.0	0.1+
750407 413	1.4+	1.4-	920802 801	0.0	0.0	920826 801	0.0	0.1+
880209 413	0.1-	0.0	920802 801	0.0	0.0	920922 596	1.4+	0.8+
880209 413	0.5+	0.3-	920803 801	0.1-	0.1+	920922 596	1.3-	0.1+
910409 413	(1.1-	3.3+)	920803 801	0.1-	0.1+	920922 596	1.2-	1.2+
910409 413	(0.0	3.8-)	920820 413	0.3-	0.5-	921002 675	0.0	0.7-
910410 413	0.2-	0.2-	920820 413	0.2+	0.2+	921002 675	1.3+	1.2-
910411 413	0.2+	0.1+	920821 413	0.1+	0.4+	921004 675	0.0	1.5-
910415 413	0.0	0.0	920821 413	0.1+	0.0	921004 675	0.3+	1.4-
910420 413	0.5-	0.2-	920824 801	0.1+	0.2+			
910515 413	0.4+	0.2-	920824 801	0.1+	0.2+			

(5379)\* 1991 HG = 1981 RW3 = 1981 TR3 = 1981 UE16 = 1983 CF8 = 1983 EU2

Discovered 1991 Apr. 16 by S. Otomo and O. Muramatsu at Kiyosato.

Id. H. Kaneda (MPC 18440), N. S. Chernykh (d, ibid.)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M 135.67693	(2000.0)		P	Q
n 0.26571049	Peri. 212.12034		-0.40204140	+0.91485758
a 2.3962396	Node 34.21521		-0.82537463	-0.34443218
e 0.0544040	Incl. 3.81310		-0.39638295	-0.21071804
P 3.71	H 12.8	G 0.15		

Residuals in seconds of arc

810903 095	0.5-	0.9-	910421 894	0.6-	0.5-	920831 894	0.9+	0.3-
811007 095	(8.9-	1.9-)	910421 894	1.7-	0.5+	920925 801	0.3-	0.1+
811024 095	0.9+	0.1+	910502 894	1.8+	2.2+	920925 801	0.5-	0.2+
830210 095	0.7-	0.5+	910505 894	(6.4+	1.5-)	920927 894	1.0-	1.7+
830305 095	0.9+	0.2+	920830 801	0.4+	0.2+	920927 894	1.1-	0.4-
910416 894	0.4+	1.0- Y	920830 801	0.3+	0.1+			
910416 894	0.2+	0.8- Y	920831 894	0.7+	0.0			

(5380)\* 1991 JT = 1983 JN = 1983 LA1

Discovered 1991 May 7 by R. H. McNaught at Siding Spring.

Id. G. V. Williams (MPC 18303)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M 118.68940	(2000.0)		P	Q
n 0.23824309	Peri. 359.29589		-0.47047405	+0.87060276
a 2.5770480	Node 242.62967		-0.80880477	-0.49065779
e 0.2140113	Incl. 9.32481		-0.35283002	-0.03613540
P 4.14	H 13.0	G 0.15		

Residuals in seconds of arc

801014 675	0.0	0.7-	910510 413	0.3+	0.4-	920830 801	0.1-	0.0
830506 688	0.3+	0.7-	910513 413	0.8+	1.5+	920830 801	0.2+	0.4+
830506 688	0.2-	1.4-	920820 413	0.4-	0.1+	920905 413	0.1+	0.3+
830605 095	0.1-	0.9+	920820 413	0.2-	0.2+	920905 413	0.1+	0.3+
910210 413	0.5+	0.0	920821 413	0.3-	0.3-	920925 801	0.0	0.8+
910413 413	0.2-	1.4+	920821 413	0.4+	0.4-	920925 801	0.1+	0.6+
910413 413	0.3-	0.5+	920825 801	0.3+	0.1-	921002 801	0.5-	0.1+
910507 413	0.0	0.6-	920825 801	0.3-	0.1+	921002 801	0.2-	0.0

(5381)\* 1991 JY

Discovered 1991 May 14 by C. S. Shoemaker at Palomar.



Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	42.11939		(2000.0)		P		Williams	Q
n	1.06868631	Peri.	37.42665		+0.07349149		-0.76164486	
a	0.9474782	Node	58.58399		+0.63019936		-0.46486990	
e	0.2958940	Incl.	48.97346		+0.77294745		+0.45143447	
P	0.92	H	16.5		G	0.15		

Residuals in seconds of arc

910514	675	1.4+	1.4-	910517	413	0.6+	1.3+	910530	413	0.6+	0.5-
910514	675	0.6-	0.8-	910517	413	0.2+	1.0+	910530	413	0.6+	0.6-
910515	675	0.4+	0.9-	910517	413	0.2-	0.4+	910531	413	0.1-	1.0-
910515	675	1.0+	0.1+	910517	568	1.8+	1.0-	910531	413	0.3+	0.8-
910516	675	(0.7-	3.4-)	910518	675	0.3-	1.0-	910601	413	0.1+	0.2-
910516	675	0.8+	1.8-	910518	688	0.6+	0.0	910603	413	1.2-	0.4-
910516	413	0.6+	0.2+	910518	688	1.1+	0.6+	910616	413	0.1-	0.1+
910516	413	0.3+	0.5+	910518	675	(4.7-	4.6-)	910711	474	0.3-	0.9-
910516	413	0.6+	0.1+	910518	568	0.4-	1.1+	910711	474	0.3+	1.0-
910516	413	0.2-	0.5+	910518	413	0.3+	0.7+	920430	474	(3.6-	0.1+)
910516	413	0.0	0.8+	910518	413	0.0	0.5+	920430	474	(4.0-	0.9-)
910516	413	0.4-	0.6+	910518	413	0.4-	0.5+	920502	474	2.7-	1.2-
910516	413	1.2-	0.3+	910519	674	(7.1-	3.2-)	920502	474	1.9-	1.2-
910516	413	1.2-	0.9+	910519	674	1.5-	0.5+	920503	413	(1.2-	3.6-)
910517	801	0.7-	0.3-	910519	675	2.0-	0.5-	920530	474	1.5+	1.0+
910517	801	0.9-	0.3-	910519	688	0.6+	1.1+	920530	474	0.4+	0.4-
910517	801	0.8-	0.4-	910519	091	(0.2-	4.2+)	920609	413	0.7-	0.1-
910517	801	0.7-	0.4-	910519	091	(4.2+	2.0+)	920610	413	0.1-	0.5-
910517	675	(3.0-	1.4+)	910519	091	(4.1-	3.5-)	920610	413	0.0	0.7-
910517	568	0.2-	0.3-	910520	688	(2.9+	0.5+)	920619	413	0.4+	0.2-
910517	675	0.6+	0.7-	910520	688	(3.2+	0.0 )	920619	413	0.0	0.5-

(5382)\* 1991 JR2 = 1952 DK1 = 1971 TK2

Discovered 1991 May 8 by R. H. McNaught at Siding Spring.

Id. S. Nakano (MPC 18640)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	186.30774		(2000.0)		P		Nakano	Q
n	0.23101202	Peri.	11.23921		-0.99905752		+0.01492559	
a	2.6305486	Node	169.35999		-0.02237394		-0.98173939	
e	0.0896687	Incl.	12.75319		+0.03719519		-0.18964442	
P	4.27	H	12.7		G	0.15		

Residuals in seconds of arc

520218	711	0.1-	1.2-	Y	910511	413	(4.7+	0.7-)	920824	801	0.0	0.2-
520219	711	(3.6+	5.6+)	Y	910518	413	0.0	0.1-	920824	801	0.1-	0.5-
520219	711	0.1-	1.0-	Y	910518	413	1.0+	0.1-	920830	801	0.6-	0.3-
711013	095	(4.2+	4.1-)		910518	413	1.0+	0.2+	920830	801	0.3-	0.2-
711014	095	0.0	0.5-		910518	376	2.5-	1.3-	920905	413	0.1+	0.1+
910505	413	1.1+	0.2-		910518	376	2.3-	0.5+	920905	413	0.1+	0.0
910505	413	0.9+	0.0		920820	413	0.2-	0.4-	920925	801	1.0+	0.1-
910508	413	0.7+	0.4+		920820	413	0.2-	0.4-	920925	801	1.3+	0.3+
910508	413	(3.7+	1.4-)		920821	413	0.3-	0.0				
910511	413	(3.1-	1.0+)		920821	413	0.3-	0.3-				

(5383)\* 4293 T-2 = 1978 VE13

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

Id. G. V. Williams (MPC 20038)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	0.07257		(2000.0)		P		Williams		Q
n	0.20406905	Peri.	271.54664	+0.99581257					-0.07128740
a	2.8572701	Node	92.54384	+0.08815820					+0.91453166
e	0.0928264	Incl.	3.28415	-0.02419633					+0.39818331
P	4.83	H	13.2	G	0.15				

Residuals in seconds of arc

710324	675	1.5-	1.5-	730930	675	0.4+	0.5-	920802	675	1.6-	0.4+
710325	675	0.2-	1.6-	731004	675	1.0+	0.3-	920802	675	2.5-	2.2+
710325	675	0.1-	1.4-	731004	675	0.9+	0.7-	920806	675	0.3+	1.5+
730919	675	1.7+	0.9-	731005	675	0.9-	0.6+	920806	675	1.6+	0.3-
730919	675	2.2+	0.5-	731005	675	0.2-	0.2-	920824	801	0.6+	0.8-
730920	675	0.4+	0.6-	781102	095	0.9-	1.3+	920824	801	0.4-	0.3+
730925	675	0.1-	0.6-	920728	801	0.2+	0.4-	920901	801	0.1+	0.2-
730925	675	0.3-	0.6+	920728	801	0.0	0.4-	920901	801	1.3+	1.8-
730929	675	1.4-	1.0-	920731	801	0.1+	0.3-				
730929	675	1.4-	0.8-	920731	801	0.3+	0.3-				

1965 UA1 = 1984 UY4 = 1988 XQ3 = 1991 NS3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	31.13574		(2000.0)		P		Kobayashi		Q
n	0.25916993	Peri.	120.83855	+0.54030004					-0.84099070
a	2.4363872	Node	296.43091	+0.76077111					+0.50266084
e	0.1545806	Incl.	1.82190	+0.35958752					+0.20016673
P	3.80	H	12.6	G	0.15				

Residuals in seconds of arc

651016	330	1.5-	1.4-	881201	054	0.3-	1.0+	910707	809	0.1-	1.1+
651020	330	0.4-	1.2-	910706	809	0.1+	0.8+	910708	809	0.1-	1.7-
651024	330	1.9+	2.9+	910706	809	0.1+	0.6+	910708	809	0.3-	1.8-
841016	413	0.3-	0.2-	910706	809	0.1+	0.6+				
841016	413	0.8+	0.7-	910707	809	0.0	1.3+				

1969 TM1 = 1991 RS27

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	112.56309		(2000.0)		P		Kobayashi		Q
n	0.26882125	Peri.	357.94997	+0.78371647					-0.61544670
a	2.3777178	Node	40.42998	+0.57168710					+0.66204436
e	0.1329592	Incl.	7.41982	+0.24282165					+0.42769454
P	3.67	H	14.3	G	0.15				

Residuals in seconds of arc

691008	095	0.5-	3.7+	910912	675	0.8+	0.6-	910914	675	0.6-	0.6+
691016	095	0.6+	4.5-	910912	675	0.2+	0.4-				
691111	095	0.1-	1.0+	910914	675	0.3-	0.3+				

1972 RY3 = 1976 GP2

Id. A. Lowe (MPC 17623)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	104.24093		(2000.0)		P		Bardwell		Q
n	0.15593627	Peri.	300.87126	+0.89798462					+0.43090851
a	3.4185187	Node	33.83710	-0.32890040					+0.79183214
e	0.0460686	Incl.	9.20915	-0.29231515					+0.43280449
P	6.32	H	11.5	G	0.15				

Residuals in seconds of arc

720906	095	0.3+	0.4-	910913	675	0.2+	0.0	911002	691	0.8-	0.9+
721007	095	0.6+	1.0-	910913	675	0.2+	0.2-	911009	801	0.4+	0.6+
760401	095	0.2+	0.2-	910916	675	0.1+	1.1-	911009	801	0.2+	0.5+
760404	095	0.2+	0.7+	910916	675	0.4-	1.2-	911105	801	0.0	0.1-
910912	801	0.1-	0.3+	911002	691	0.8-	0.7+	911105	801	0.6+	0.1+
910912	801	0.0	0.6+	911002	691	0.8-	0.9+				

1974 RY1 = 1949 WH1 = 1985 SL6 = 1992 QL

Id. T. Kobayashi (k), G. V. Williams

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	47.65188		(2000.0)			P		Q	
n	0.27288253	Peri.	135.01861			+0.75167385		+0.65952774	
a	2.3540674	Node	183.72151			-0.61773103		+0.70237751	
e	0.2281130	Incl.	2.73370			-0.23107315		+0.26774801	
P	3.61	H	14.5		G	0.15			

Residuals in seconds of arc

491121	675	0.1-	1.7-	741019	808	0.4-	0.2+	920901	894	0.8-	1.2-
491121	675	0.4+	0.2+	741019	808	0.1-	1.5+	920901	894	1.0-	1.4-
740914	095	1.5+	1.5-	850921	095	0.2-	1.3+	920903	894	0.3-	0.4-
740919	095	0.6-	1.9+	920825	894	1.1+	1.2+	920903	894	1.1-	0.7-
740921	808	0.9-	0.6-	920825	894	2.0+	0.9+	920904	372	1.3-	1.4-
740921	808	0.4-	1.6-	920831	894	1.0+	0.8-	920905	372	0.0	0.0
740921	095	0.9+	0.8+	920831	894	1.0+	1.2+	920905	372	0.5-	1.7+

1975 SJ1 = 1981 UW26

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	128.97389		(2000.0)			P		Q	
n	0.17405728	Peri.	56.69248			-0.21864395		+0.97231822	
a	3.1769321	Node	201.14585			-0.95392582		-0.23076229	
e	0.0908218	Incl.	13.20624			-0.20547591		+0.03668855	
P	5.66	H	11.6		G	0.15			

Residuals in seconds of arc

750930	675	0.7+	0.1-	751015	675	0.5+	0.9+	811026	675	1.5+	0.8+
751001	675	0.3-	0.0	751016	675	0.2-	0.9-				
751002	675	0.3-	0.2+	811025	675	1.3-	0.8-				

1977 EG7 = 1982 VN1 = 1985 PQ1 = 1991 HJ2

Id. T. Kobayashi (MPC 12581), G. V. Williams

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	49.26680		(2000.0)			P		Q	
n	0.28607163	Peri.	163.29461			+0.96140841		+0.27512206	
a	2.2811448	Node	180.73990			-0.26259638		+0.91619697	
e	0.1524543	Incl.	5.82002			-0.08207926		+0.29136055	
P	3.45	H	14.5		G	0.15			

Residuals in seconds of arc

770312	381	1.8-	0.7+	770315	381	1.2-	1.0-	910419	809	0.4+	1.5+
770312	381	0.7-	0.2+	821114	801	2.1+	0.7-	910419	809	1.4+	0.1-
770314	381	1.0-	0.5-	850814	010	0.0	3.3-	920929	691	1.2-	1.3-
770314	381	0.2-	2.2-	850816	010	2.5+	0.8-	920929	691	0.2-	0.8+
770315	381	0.4-	3.2-	910419	809	1.3+	0.7+	920929	691	0.8-	0.5+

1977 QH3 = 1992 SJ13

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	3.65112		(2000.0)			P		Q	
n	0.26343086	Peri.	277.52720			+0.69225380		-0.71071719	
a	2.4100439	Node	127.87274			+0.70873420		+0.63688477	
e	0.2886966	Incl.	9.12328			+0.13594305		+0.29876222	
P	3.74	H	13.5		G	0.15			

Residuals in seconds of arc

770822	095	0.0	0.2+	920904	885	0.0	0.4-	920925	675	0.2-	1.4-
770824	095	1.7+	0.3-	920922	675	0.1-	1.8-	921002	385	0.5-	0.4+
770907	095	1.5-	0.1+	920922	675	0.2-	0.3+	921002	385	0.8+	0.7+
920904	885	0.5-	1.3+	920925	675	(1.5+	4.4-)	921002	385	0.7+	0.9+

1977 VL1 = 1970 AN = 4318 T-1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	223.92557		(2000.0)			P		Q	
n	0.23389355	Peri.	328.02868	+0.94755028				-0.31003545	
a	2.6088987	Node	50.23372	+0.31037125				+0.83464461	
e	0.2301747	Incl.	5.79644	+0.07627678				+0.45524322	
P	4.21	H	13.5	G	0.15				

Residuals in seconds of arc

700104	095	0.0	1.2+	771016	675	0.6+	1.6+	771021	675	1.1-	0.1-
710324	675	1.0+	1.4-	771016	675	1.2-	1.9+	771021	675	(3.4+	0.5+)
710326	675	0.2-	0.4+	771016	675	1.0+	0.0	771022	675	1.3-	0.3-
710326	675	0.5+	0.3-	771016	675	1.4-	1.2+	771022	675	0.2-	0.1+
710327	675	2.2-	0.4-	771017	675	0.5-	2.1+	771022	675	1.7+	1.6-
771007	675	0.0	1.4-	771017	675	1.4-	0.1+	771022	675	0.6-	0.3-
771011	675	0.7+	0.5-	771017	675	(0.3+	3.3+)	771103	330	0.9-	0.9-
771011	675	1.0+	0.5+	771017	675	0.6-	0.2+	771104	330	1.6+	0.5-
771012	675	0.6-	0.5-	771021	675	0.6+	1.0-	771108	330	0.5-	2.4-
771012	675	1.2-	0.6-	771021	675	3.1+	1.2+	771111	330	1.9+	0.3-

1978 GA = 1989 AA8 = 4152 T-1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	64.07517		(2000.0)			P		Q	
n	0.27104249	Peri.	307.19812	-0.26152488				-0.96377961	
a	2.3647095	Node	157.79071	+0.92358882				-0.26561671	
e	0.1436325	Incl.	7.95066	+0.28033627				-0.02401302	
P	3.64	H	14.2	G	0.15				

Residuals in seconds of arc

710324	675	2.6+	1.9-	780407	801	0.3-	0.6-	780512	801	0.1+	0.7-
710326	675	0.2-	1.2+	780409	801	0.7-	0.5+	890111	033	0.1-	0.1-
710326	675	0.2-	1.8+	780410	801	0.0	0.2-	890111	033	0.1+	0.6+
710327	675	2.4-	0.6-	780508	801	(2.3+	3.3+)				

1978 NK = 1987 SB30 = 1991 NC7

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	82.10930		(2000.0)			P		Q	
n	0.22651198	Peri.	101.81630	+0.99826302				+0.02613196	
a	2.6652744	Node	256.70310	-0.04452677				+0.92153156	
e	0.2335399	Incl.	3.11021	+0.03857864				+0.38742317	
P	4.35	H	14.1	G	0.15				

Residuals in seconds of arc

780710	675	0.3-	0.6+	910712	809	1.1+	1.3-	910715	809	0.1+	0.2+
780711	675	0.7-	0.5+	910712	809	1.1+	1.4-	910715	809	0.2+	0.2+
780712	675	0.1-	0.7+	910712	809	1.6+	1.4-	910715	809	0.5+	0.1+
780713	675	0.3+	0.6+	910714	809	0.5-	0.4+	910716	809	1.6-	0.5-
780714	675	0.1-	1.0+	910714	809	0.1-	0.5+	910716	809	1.1-	0.3-
870926	095	0.2+	0.4-	910714	809	0.3+	0.7+	910716	809	0.8-	0.2-

1978 ON = 1977 HT = 1988 VB4

Id. S. J. Bus (MPC 10951), S. Nakano (MPC 14013)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	11.64348		(2000.0)			P		Q	
n	0.21648350	Peri.	341.97281	+0.99053694				-0.13485337	
a	2.7469632	Node	25.81847	+0.13202983				+0.88550126	
e	0.1058144	Incl.	3.35891	+0.03747925				+0.44463702	
P	4.55	H	12.0	G	0.15				

Residuals in seconds of arc

770424	675	0.5-	0.5-	780711	675	(1.2+	4.7-)Y	780728	323	0.9-	0.1-
770425	675	0.1+	0.4-	780713	675	(7.5-	0.7+)Y	780731	323	0.7+	0.6-
780710	675	(5.8-	4.4-)Y	780728	323	0.5-	2.3-	780731	323	0.2+	0.6-

780803	323	1.2-	0.1+	881115	400	0.7-	1.9-	920927	691	0.7-	1.0+
780803	323	1.5-	0.5+	881116	400	0.1-	0.8+	920928	691	0.4-	1.0+
780811	323	2.2+	1.5-	881116	400	0.3-	0.6+	920928	691	0.0	0.6+
780811	323	2.3+	0.3-	881116	400	0.2-	1.0+	920928	691	0.5-	1.2+
881115	400	0.9+	2.2-	920927	691	0.6+	0.6-				
881115	400	1.6+	2.6-	920927	691	0.9-	1.0+				

1978 RB10 = 1991 RY13

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	160.93533		(2000.0)			P		Q	
n	0.30492403	Peri.	356.57472	+0.93033609				+0.36583483	
a	2.1861248	Node	341.90292	-0.33448341				+0.81829088	
e	0.1827291	Incl.	4.67017	-0.15031838				+0.44335642	
P	3.23	H	16.1	G	0.15				

Residuals in seconds of arc

780902	809	0.5+	0.0	780906	809	0.4-	0.2+	910913	675	0.2-	0.3+
780902	809	0.3+	0.0	780910	809	0.2-	1.1+	910913	675	0.6-	0.4+
780902	809	0.3-	0.2+	780910	809	0.0	0.8-	910915	675	0.7+	0.5-
780902	809	0.5+	0.3-	780910	809	0.1-	0.7+	910915	675	0.1+	0.2-
780902	809	0.5-	0.3-	780910	809	0.1+	0.7-				

1978 SA5 = 1991 RZ12

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	108.72473		(2000.0)			P		Q	
n	0.30123981	Peri.	215.46762	+0.61498178				-0.78853099	
a	2.2039131	Node	196.58299	+0.72669683				+0.56872866	
e	0.2003148	Incl.	0.81015	+0.30611947				+0.23402260	
P	3.27	H	15.4	G	0.15				

Residuals in seconds of arc

780927	095	0.5-	1.1+	910910	675	1.7+	1.4+	910911	675	1.6-	2.6-
781003	095	0.5+	0.5-	910910	675	1.5-	1.4+	910915	675	0.1-	0.0
781007	095	0.1-	0.4-	910911	675	1.1+	0.4-	910915	675	0.4+	0.0

1978 SA7 = 1964 UR = 1992 SA1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	14.24352		(2000.0)			P		Q	
n	0.21121267	Peri.	37.15623	+0.90446501				-0.42572085	
a	2.7924757	Node	347.95454	+0.35438465				+0.78462980	
e	0.2373581	Incl.	7.30863	+0.23739116				+0.45068595	
P	4.67	H	13.0	G	0.15				

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

641030	760	(0.06-	0.04-)X	920923	400	0.0	0.3+	921001	400	0.6-	0.7+
780926	095	0.2+	0.1-	920923	400	0.1-	0.3-	921001	400	2.3+	1.0+
781002	095	0.3+	0.5+	920928	400	0.7-	0.0	921002	400	0.1-	0.3-
781008	095	0.5-	0.4-	920928	400	0.4-	0.8-	921002	400	0.4-	0.6-

1978 VU7 = 1976 JH4 = 1992 UD1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	21.20993		(2000.0)			P		Q	
n	0.20638173	Peri.	53.39566	+0.88932707				-0.45716885	
a	2.8358846	Node	333.80482	+0.41221305				+0.81069215	
e	0.0959905	Incl.	1.25852	+0.19793372				+0.36575249	
P	4.78	H	12.5	G	0.15				

Residuals in seconds of arc

760503	809	0.1-	0.2-	781108	675	0.6-	0.0	921019	400	1.3+	0.0
781105	675	0.1+	0.0	781129	675	0.9+	0.4+	921022	400	1.0-	1.0-
781106	675	0.2+	0.2-	781130	675	0.1-	0.1-	921022	400	1.4-	0.6+
781107	675	0.5-	0.3-	921019	400	1.1+	0.4+				

1979 ME7 = 1992 SH14

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	1.47187		(2000.0)		P		Q
n	0.23939682	Peri.	139.44567	+0.59103615			-0.77782419
a	2.5687616	Node	273.24776	+0.67363036			+0.62167088
e	0.1606033	Incl.	12.35917	+0.44373236			+0.09227597
P	4.12	H	14.0	G	0.15		

Residuals in seconds of arc

790623	413	0.2+	0.3-	790724	413	1.9-	0.1+	920930	675	1.9-	1.9-
790624	413	1.9+	0.4-	790726	675	0.5+	0.3-	921002	675	1.0+	1.6+
790625	413	1.0+	0.4-	920928	675	1.0+	1.1+	921002	675	1.3+	0.5+
790629	413	1.5-	1.4+	920930	675	1.4-	1.5-				

1979 QK6 = 1985 JQ

Id. C. M. Bardwell (MPC 10037)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	68.16356		(2000.0)		P		Q
n	0.30653834	Peri.	200.43917	+0.77323269			+0.63121756
a	2.1784429	Node	120.27318	-0.57160963			+0.73520641
e	0.1968232	Incl.	4.02546	-0.27454260			+0.24705450
P	3.22	H	14.3	G	0.15		

Residuals in seconds of arc

790819	095	0.7-	1.3+	850513	675	0.1+	1.1+	921001	400	1.3-	0.4-
790826	095	0.2-	0.2-	850515	675	0.2+	0.2-	921001	400	0.4+	0.9+
790827	095	0.4-	0.9-	920923	400	0.6+	1.1+				
790924	095	2.0+	1.9-	920923	400	0.6-	0.9+				

1979 TS2 = 1979 WJ1 = 1949 WN = 1988 XS5 = 1992 UT

Id. S. Nakano (d, MPC 10610; unpublished)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	357.19182		(2000.0)		P		Q
n	0.22788127	Peri.	230.61058	+0.48402673			-0.87493071
a	2.6545870	Node	190.47059	+0.82557884			+0.46214303
e	0.1146937	Incl.	4.62121	+0.29006501			+0.14463773
P	4.33	H	12.9	G	0.15		

Residuals in seconds of arc

491118	012	0.3+	1.3-	881207	808	0.1+	0.1-	921022	399	0.5-	0.0
791014	095	2.3+	2.3-	881207	808	0.2-	0.8+	921022	399	2.8-	2.2-
791116	095	0.4-	0.3-	921021	402	0.1-	0.2-	921024	402	2.1+	1.6+
791122	095	1.7-	0.6-	921021	402	1.4-	2.3+	921024	402	2.2+	2.1+

1981 EF13 = 1992 RD5

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Marsden

M	332.10962		(2000.0)		P		Q
n	0.21594456	Peri.	74.99284	+0.59908190			-0.79682543
a	2.7515318	Node	337.63439	+0.63216156			+0.53091545
e	0.1109184	Incl.	11.91326	+0.49139866			+0.28844066
P	4.56	H	14.5	G	0.15		

Residuals in seconds of arc

810212	413	1.3-	0.4-	810308	413	1.8-	0.6+	920902	809	0.4-	0.1-
810212	413	1.1+	0.5-	810308	413	0.7+	0.0	920902	809	0.2-	0.3+
810301	413	0.4-	0.6-	810312	413	0.0	0.8+	920902	809	0.3+	0.4+
810301	413	1.2+	0.8-	810409	413	0.9-	0.8+	920903	809	0.4+	0.7-
810306	413	2.2-	1.9+	810409	413	0.3+	0.0				
810306	413	2.2+	0.8-	810503	413	1.0+	1.2-				

1981 EV27

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Marsden

M	14.05542		(2000.0)			P			Q
n	0.21119497	Peri.	181.26154			+0.99999817			-0.00053992
a	2.7926317	Node	178.76491			+0.00109611			+0.94802497
e	0.0651784	Incl.	4.88665			-0.00156890			+0.31819547
P	4.67	H	14.5		G	0.15			

Residuals in seconds of arc

780901	675	0.0	0.4+	810306	413	0.6-	0.4-	810410	413	(3.5+	1.7-)
780902	675	0.0	0.3-	810311	413	1.5-	0.2+	810501	413	0.2-	0.2+
810212	413	0.8-	0.9+	810311	413	0.6+	0.7-	920902	809	0.5+	0.2-
810212	413	1.4+	0.7+	810315	413	0.0	0.6-	920902	809	0.6-	0.2-
810213	413	0.1-	0.6-	810315	413	1.7+	0.7-	920902	809	0.2-	0.3-
810302	413	0.7-	0.3+	810410	413	0.2+	0.9+	920903	809	0.4+	0.5+

1981 QJ3 = 1992 SO3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	25.71105		(2000.0)			P			Q
n	0.17924215	Peri.	201.14412			+0.94636422			+0.32176012
a	3.1153675	Node	140.04844			-0.28947972			+0.88480077
e	0.1881999	Incl.	2.62543			-0.14351397			+0.33704306
P	5.50	H	13.5		G	0.15			

Residuals in seconds of arc

810825	809	0.1+	1.9+	810831	809	1.4+	0.1+	810905	809	0.5-	0.2-
810825	809	0.1-	1.1+	810901	809	0.3+	0.4+	810905	809	0.1-	0.6-
810825	809	0.3-	0.8+	810901	809	0.8+	0.2+	810906	809	0.7+	0.4+
810826	809	0.2-	1.1-	810901	809	0.5+	0.0	810906	809	0.0	0.4-
810826	809	0.2+	1.0-	810902	809	1.3+	0.5+	810906	809	0.3-	1.0-
810826	809	0.1+	0.7-	810902	809	0.5+	0.2+	810907	809	0.8-	0.2+
810826	809	0.2-	0.6+	810902	809	1.1+	0.6+	810907	809	0.0	0.3+
810826	809	0.2+	0.7+	810902	809	0.1-	0.0	810907	809	0.6+	0.9+
810826	809	0.5+	0.9+	810902	809	0.3-	0.2-	920924	691	0.0	0.0
810827	809	1.0-	0.9-	810902	809	0.1-	0.4-	920924	691	0.1-	0.1+
810827	809	1.0-	0.3-	810903	809	1.2-	0.1-	920924	691	0.0	0.1+
810827	809	0.9-	0.0	810903	809	0.6-	0.1-	920925	691	0.6+	0.0
810828	809	0.1-	0.9-	810903	809	0.4-	0.2-	920925	691	0.1+	0.1-
810828	809	0.1-	0.7-	810904	809	0.5-	0.0	920925	691	0.2-	0.4-
810828	809	0.3+	0.7-	810904	809	0.3+	0.3-	921001	691	0.2-	0.1+
810831	809	0.2-	0.4+	810904	809	0.1-	0.4-	921001	691	0.2-	0.4+
810831	809	0.6+	0.2+	810905	809	0.3-	0.5-	921001	691	0.2-	0.2+

1981 SL = 1992 UX3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	55.40876		(2000.0)			P			Q
n	0.27099681	Peri.	140.56236			+0.91774539			+0.39573194
a	2.3649752	Node	196.22460			-0.38805687			+0.87534164
e	0.2571503	Incl.	6.93961			-0.08458878			+0.27780073
P	3.64	H	14.5		G	0.15			

Residuals in seconds of arc

810922	046	1.6+	0.1+	Y	810925	046	0.2+	0.6+	921028	402	0.7+	0.1-
810922	046	2.0-	0.3-	Y	811024	095	0.0	0.0	921030	402	0.6-	0.6-
810925	046	0.2+	0.3-		921028	402	(0.9-	3.9-)	921030	402	0.2-	0.6+

1981 TW1 = 1981 UA1 = 1981 UG10 = 1991 XP

Id. T. Furuta (d, JAM 2059), B. G. Marsden (d), T. Kobayashi

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	186.42125		(2000.0)			P		Q	
n	0.29867817	Peri.	89.15417	+0.83870705				+0.53719726	
a	2.2164966	Node	238.34806	-0.53203480				+0.77323845	
e	0.2437434	Incl.	6.02737	-0.11623019				+0.33692936	
P	3.30	H	13.8	G	0.15				

Residuals in seconds of arc

811003	095	0.0	1.0-	811031	704	1.1+	1.7-	911207	399	0.2-	0.5+
811023	330	0.8+	4.4+	911205	399	0.5-	1.0-	911209	399	1.1+	0.0
811030	704	(0.1-	41.3-)	911205	399	0.4+	1.8+	911209	399	1.4-	1.6-
811030	704	1.8-	1.9-	911207	399	0.6+	0.4+				

1981 UQ11 = 1990 DP1

Id. H. Kaneda (MPC 17199)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	341.61919		(2000.0)			P		Q	
n	0.26678151	Peri.	356.69067	+0.26192390				-0.96298628	
a	2.3898220	Node	78.11798	+0.88693863				+0.21418470	
e	0.1245593	Incl.	3.73027	+0.38044151				+0.16365312	
P	3.69	H	13.7	G	0.15				

Residuals in seconds of arc

811022	095	2.1-	1.7+	900221	046	1.4+	0.1-	920930	691	0.4+	0.0
811024	095	2.0+	0.5+	900222	046	0.8-	0.5+	920930	691	0.2-	0.3+
811028	095	0.6-	0.4-	900222	046	1.0+	0.7-	921024	372	(0.4-	5.1-)
900221	046	1.7-	0.1+	920930	691	0.0	0.0	921030	372	0.6+	2.1-

1981 VF = 1959 TM = 1992 US3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	53.52280		(2000.0)			P		Q	
n	0.27026446	Peri.	320.59208	+0.99113552				+0.12482769	
a	2.3692456	Node	32.32356	-0.08989101				+0.88216538	
e	0.2500645	Incl.	4.87929	-0.09782626				+0.45409503	
P	3.65	H	13.8	G	0.15				

Residuals in seconds of arc

591006	024	2.4-	1.1+	811105	688	0.1+	0.3-	811202	688	2.7+	0.9+
811023	095	1.5+	3.0-	811124	688	1.1+	1.1+	921027	385	0.4-	1.6+
811102	688	1.5+	2.3-	811124	688	0.2-	1.0+	921027	385	0.3-	1.1+
811102	688	0.5+	1.8-	811124	095	0.9-	0.8-	921030	385	3.8-	0.7+
811105	688	0.3+	0.8-	811202	688	2.7+	0.7+	921030	385	1.8-	2.2+

1981 VK = 1986 QV5

Id. S. Nakano (MPC 14783)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	46.14318		(2000.0)			P		Q	
n	0.17872757	Peri.	327.29853	+0.98772606				+0.15610891	
a	3.1213443	Node	23.72201	-0.14037527				+0.90183646	
e	0.1914002	Incl.	0.74321	-0.06849821				+0.40289082	
P	5.51	H	12.7	G	0.15				

Residuals in seconds of arc

811023	095	1.0-	0.5-	811124	688	0.8+	2.3-	921019	400	0.3-	0.7+
811102	688	0.7-	0.3+	811124	688	1.3+	3.2-	921019	400	1.4-	1.5+
811105	688	0.4-	0.2+	860831	095	0.1+	0.6-	921026	400	1.6+	2.4+
811105	688	2.1+	0.2-	860908	095	0.3+	0.3-	921026	400	1.9-	1.3+



1982 RK = 1992 TK1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	14.07343		(2000.0)		P				Nakano	Q
n	0.29953355	Peri.	289.79495			+0.78221287				-0.61780109
a	2.2122748	Node	108.44507			+0.59862199				+0.70954915
e	0.1408881	Incl.	4.86214			+0.17261155				+0.33891270
P	3.29	H	13.6		G	0.15				

Residuals in seconds of arc

820915	688	0.1+	0.7+	821009	688	1.7+	1.0-	921001	400	0.4+	0.5+
820915	688	0.2-	1.6+	821009	688	0.7-	1.7-	921001	400	0.8-	0.8+
820922	688	(3.8-	1.4-)	821017	688	0.5-	1.3-	921019	400	0.4-	0.3+
820922	688	0.9-	0.4+	821017	688	1.0+	0.7-	921019	400	0.2+	0.0

1982 SL1 = 1940 XB = 1940 YP

Id. S. Nakano (MPC 13685), L. D. Schmadel (ibid.)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	45.37813		(2000.0)		P				Williams	Q
n	0.30290445	Peri.	181.95045			+0.96581951				-0.25855884
a	2.1958312	Node	193.07872			+0.23891513				+0.91552225
e	0.1713911	Incl.	4.67388			+0.10055961				+0.30816607
P	3.25	H	13.0		G	0.15				

Residuals in seconds of arc

401202	053	(7.0-	35.2+)X	820918	046	0.3+	0.1+	921001	801	0.1+	0.1+
401203	053	(39.8+	19.0+)X	820918	046	0.5+	0.3-	921001	801	0.2+	0.1+
401220	053	(9.4-	20.6-)X	820919	095	0.6+	0.0	921022	801	0.2+	0.4-
820823	095	0.6+	1.3+	820921	095	0.4+	0.1-	921022	801	0.2+	0.5-
820916	046	2.2-	1.2-	920925	801	0.0	0.6+	921028	801	0.1-	0.1-
820916	046	0.2-	0.0	920925	801	0.1-	0.5+	921028	801	0.2-	0.1-
820917	046	0.7+	0.1-	920930	801	0.1+	0.5+				
820917	046	0.5-	0.1-	920930	801	0.4-	0.0				

1982 UU8 = 1982 VG10 = 1986 WW = 1988 DV1

Id. T. Furuta (d, JAM 1953), T. Kobayashi

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	267.93188		(2000.0)		P				Kobayashi	Q
n	0.25556847	Peri.	93.83047			+0.92351373				+0.36081822
a	2.4592227	Node	245.05759			-0.38343053				+0.85944528
e	0.2650217	Incl.	8.25102			-0.01016944				+0.36216573
P	3.86	H	14.1		G	0.15				

Residuals in seconds of arc

821021	095	(1.0-	7.5+)X	861126	046	(3.8-	1.8-)	880216	809	1.1+	0.2-
821022	095	0.4-	0.0	861126	046	2.0-	0.3+	880216	809	0.9+	0.1+
821112	095	0.4+	0.0	861128	046	2.2+	1.2+	880223	809	1.4-	0.6+
861125	046	1.5-	0.8-	861128	046	2.0+	0.2+	880223	809	0.6-	0.1-
861125	046	0.8-	0.8-	880216	809	1.1+	0.5-	880223	809	1.1-	0.2+

1982 VB4 = 1978 WR18

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	121.77643		(2000.0)		P				Kobayashi	Q
n	0.24430492	Peri.	75.83087			-0.68808437				-0.72336694
a	2.5342409	Node	57.79653			+0.63692014				-0.63989628
e	0.1432793	Incl.	3.88106			+0.34766742				-0.25937044
P	4.03	H	14.1		G	0.15				

Residuals in seconds of arc

781130	675	0.3+	0.1+	821114	381	0.2-	0.3+	821214	381	0.6-	1.4-
781201	675	0.3-	0.2-	821213	381	0.3+	0.8+	821214	381	0.1+	0.7+
821114	381	0.2+	0.3-	821213	381	0.3+	0.0				

1984 HO1 = 1987 FV = 1991 RH17

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	239.65924		(2000.0)			P				Q	
n	0.31299574	Peri.	232.92416			-0.24358159				+0.96960327	
a	2.1483767	Node	23.01025			-0.86996545				-0.20785877	
e	0.1021082	Incl.	3.40020			-0.42875182				-0.12908998	
P	3.15	H	14.8			G	0.15				

Kobayashi

Residuals in seconds of arc

840428	809	0.5+	0.4+	840506	809	0.1+	0.1+	910911	675	1.2-	0.6-
840428	809	0.0	0.5+	840507	809	0.2-	0.3-	910914	675	0.4+	0.6+
840430	809	1.6+	0.6-	840507	809	1.2-	0.4+	910914	675	0.4-	0.5+
840430	809	0.7+	0.4+	840507	809	0.5-	0.1-	910916	675	0.7-	0.7-
840505	809	0.1+	1.6-	870321	046	0.1+	1.0-	910916	675	0.4+	0.4-
840505	809	0.2-	0.1-	870321	046	0.1+	1.5+				
840506	809	0.8-	1.0+	910911	675	1.3+	1.1+				

1984 UX = 1969 AF = 1988 UN

Id. S. Nakano (MPC 13857)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	19.19473		(2000.0)			P				Q	
n	0.24410852	Peri.	21.60951			+0.84699923				-0.53114274	
a	2.5356001	Node	10.55583			+0.46853831				+0.72643439	
e	0.3179075	Incl.	6.86642			+0.25112576				+0.43609685	
P	4.04	H	13.5			G	0.15				

Williams

Residuals in seconds of arc

690115	095	0.1-	3.5+	881102	897	0.7+	0.4+	920803	801	0.8-	0.2+
841026	688	1.8-	0.9-	881108	391	(7.7-	4.3-)	920826	801	0.7+	0.5+
841026	688	1.2+	1.9-	881108	391	(6.8-	4.5-)	920826	801	0.3+	0.3+
841120	675	0.5-	0.8+	881109	391	0.5-	0.1+	920828	596	0.5-	0.2+
841120	688	1.0-	1.9-	881109	391	1.0-	0.6+	920828	596	(4.1+	0.3+)
841120	688	1.2+	1.7-	881109	391	(2.7-	2.7-)	920829	596	1.5+	0.1+
841121	675	0.3-	1.0+	881109	391	(1.8-	2.8-)	920829	596	1.8-	0.2+
841122	330	(5.6+	1.6+)	881110	391	1.6+	0.0	920930	801	0.9-	0.5+
841127	688	2.1+	1.1-	881111	391	1.8-	0.6+	920930	801	0.9-	0.5+
881030	897	0.4+	1.2+	920731	801	0.1-	0.4+	921021	894	0.6+	0.7-
881030	897	0.9+	1.0+	920731	801	0.2-	0.3+	921021	894	0.0	1.6-
881102	897	0.6+	0.4+	920803	801	0.7-	0.2+				

1985 GK = 1991 TG6

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	313.48244		(2000.0)			P				Q	
n	0.22479010	Peri.	318.72769			-0.94623207				-0.31183403	
a	2.6788677	Node	203.52734			+0.32314620				-0.92341147	
e	0.1127970	Incl.	12.44841			-0.01487964				-0.22376504	
P	4.38	H	13.1			G	0.15				

Kobayashi

Residuals in seconds of arc

850414	688	0.5+	0.2-	850515	688	0.4+	1.6-	911008	033	0.2+	0.2+
850414	688	0.9-	0.2+	911002	033	0.4-	0.6+	911008	033	0.4+	0.4-
850423	688	0.5+	0.4-	911002	033	0.0	0.4+	911009	033	0.2-	0.9-
850515	688	0.5-	2.0+	911003	033	0.1+	0.0				

1986 EQ5 = 1951 GU = 1992 UR1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	178.03801		(2000.0)			P				Q	
n	0.22630461	Peri.	213.92818			-0.60790102				+0.79101981	
a	2.6669024	Node	18.93121			-0.67319975				-0.46746686	
e	0.1313667	Incl.	12.25712			-0.42102072				-0.39466745	
P	4.36	H	11.6			G	0.15				

Nakano

## Residuals in seconds of arc

510402	711	0.2-	0.2-	Y	860313	809	0.6+	0.1+	921021	403	1.5+	0.3-	Y
860307	809	0.3+	0.1+		860313	809	0.0	0.6+	921026	403	1.3-	1.0+	
860307	809	0.0	0.0		860318	809	0.0	0.4-	921026	403	0.5-	0.3+	
860311	809	0.4-	0.6-		860318	809	0.0	0.3+					
860311	809	0.2-	0.2+		921021	403	0.4+	0.9-	Y				

1986 QO2 = 1992 UO1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	62.85851		(2000.0)		P		Q
n	0.17872079	Peri.	201.98611	+0.79727973		+0.60296669	
a	3.1214233	Node	120.90109	-0.54885369		+0.74339114	
e	0.1757504	Incl.	1.86068	-0.25120641		+0.28948365	
P	5.51	H	12.5	G	0.15		

## Residuals in seconds of arc

860828	809	0.3-	0.5-	860902	809	0.7+	0.7+	860909	809	0.2+	0.2+
860828	809	0.2-	0.6-	860904	809	0.3-	0.2+	860909	809	0.3+	0.2+
860828	809	0.1+	0.6-	860904	809	0.2-	0.2+	860911	809	0.4-	0.9+
860830	809	0.3-	0.3-	860904	809	0.1+	0.2+	860911	809	0.2-	0.1+
860830	809	0.3-	0.3-	860905	809	0.1+	0.5+	860911	809	0.1-	0.0
860830	809	0.4-	0.5-	860905	809	0.1+	0.4+	921019	399	0.2+	1.0+
860901	809	0.1-	0.3-	860905	809	0.3+	0.5+	921019	399	1.6-	1.2+
860901	809	0.1-	0.5-	860907	809	0.3-	0.4-	921022	399	2.0+	0.3-
860901	809	0.0	0.6-	860907	809	0.2-	0.4-	921022	399	0.6-	2.0-
860902	809	0.7+	0.6+	860907	809	0.1+	0.5-				
860902	809	0.7+	0.4+	860909	809	0.1-	0.5+				

1986 RD5 = 1982 YY

Id. H. Kaneda (MPC 16872)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	56.94692		(2000.0)		P		Q
n	0.18354304	Peri.	359.07681	+0.97873363		+0.20478556	
a	3.0665080	Node	349.08406	-0.18780039		+0.87101623	
e	0.1319936	Incl.	3.62499	-0.08253175		+0.44653510	
P	5.37	H	12.2	G	0.15		

## Residuals in seconds of arc

821222	511	0.2+	0.8-	860905	809	1.0-	0.7-	921026	400	1.7+	1.7+
821223	511	0.3-	0.1+	860905	809	0.9-	0.8-	921026	400	1.9-	0.0
860903	809	1.8+	1.2+	860906	809	0.6-	0.2+	921028	400	0.3-	1.4-
860903	809	1.8+	1.2+	860906	809	0.6-	0.0	921028	400	0.3+	0.2+
860903	809	2.0+	1.2+	860906	809	0.4-	0.4-				
860905	809	1.2-	0.8-	860908	095	0.7-	1.8-				

1988 PK = 1991 FB5

Id. R. H. McNaught

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	55.24188		(2000.0)		P		Q
n	0.26227397	Peri.	175.48893	+0.93585991		+0.35181018	
a	2.4171258	Node	163.86946	-0.32549437		+0.88472447	
e	0.2400200	Incl.	4.10653	-0.13498017		+0.30576496	
P	3.76	H	14.5	G	0.15		

## Residuals in seconds of arc

880811	413	0.7-	0.0	880818	046	1.7-	0.3+	880824	046	(0.2+	6.4+)
880811	413	0.4+	1.1+	880818	046	1.0+	0.9+	880824	046	(2.9+	7.5+)
880813	413	0.4+	0.0	880818	046	(0.3-	2.6-)	881103	807	0.8-	1.2-
880814	413	1.1+	0.2+	880819	413	1.1-	0.6+	881105	807	1.0+	0.3+
880816	413	0.8+	0.3-	880819	413	0.2-	1.6-	910321	413	0.5+	0.4-
880818	046	0.2-	0.8-	880820	413	(3.6-	3.1-)	910321	413	0.4-	0.6+

921007 413	0.1-	0.1+	921022 801	0.0	0.3-	921029 801	0.1+	0.2+
921007 413	0.1+	0.3+	921024 402	0.2+	0.2-	921029 801	0.1-	0.2+
921022 801	0.3-	0.3+	921024 402	(0.6-	3.2+)			

1988 RA2 = 1992 SS12

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	39.81899		(2000.0)		P		Nakano	Q
n	0.25635432	Peri.	182.16724		+0.99521965		+0.09748229	
a	2.4541944	Node	172.23109		-0.08893130		+0.92964000	
e	0.1910743	Incl.	2.51051		-0.04036188		+0.35534022	
P	3.84	H	13.7		G	0.15		

Residuals in seconds of arc

880908 046	2.6+	2.1-	880916 807	1.3-	2.9+	920927 374	(0.2+	4.6+)
880908 046	(5.1+	0.1-)	881004 807	1.0-	1.3+	920927 374	0.8+	1.3+
880909 046	2.1+	2.1-	881005 807	1.5-	0.9+	920927 374	0.1-	0.8+
880909 046	0.4+	2.7-	881008 807	0.3-	0.7+	921005 374	2.2-	0.3-
880910 046	(2.8+	24.6-)	881104 807	1.1+	0.2-	921005 374	1.0+	1.5-
880914 807	2.3-	2.5+	881106 807	0.0	0.2+	921005 374	0.9+	1.4-

1988 RX4 = 1992 UV2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	49.11396		(2000.0)		P		Nakano	Q
n	0.26265532	Peri.	243.95195		+0.97650989		+0.20682521	
a	2.4147856	Node	104.06322		-0.16864325		+0.90817488	
e	0.2136448	Incl.	3.57167		-0.13411895		+0.36392543	
P	3.75	H	13.7		G	0.15		

Residuals in seconds of arc

880902 809	0.1-	0.8-	880909 809	0.3+	1.1-	880917 809	0.3-	1.1+
880902 809	0.1-	0.9-	880911 809	0.7-	0.0	880917 809	0.3+	1.1+
880902 809	0.3+	0.8-	880911 809	0.5-	0.2-	880918 809	0.1-	0.9+
880904 809	1.8+	0.2-	880911 809	0.3-	0.1-	880918 809	0.1+	1.0+
880904 809	1.8+	0.2-	880913 809	0.7-	0.0	880918 809	0.2+	1.1+
880904 809	1.9+	0.1-	880913 809	0.5-	0.0	880919 809	0.0	1.2+
880905 809	0.7-	0.8-	880913 809	0.4-	0.0	880919 809	0.4+	1.3+
880905 809	0.4-	0.9-	880914 809	0.7-	0.5+	880919 809	0.7+	1.3+
880905 809	0.1-	0.8-	880914 809	0.4-	0.5+	921021 894	0.4-	0.9-
880907 809	0.3-	0.9-	880914 809	0.2-	0.3+	921021 894	0.8+	1.8-
880907 809	0.3-	1.0-	880916 809	0.3-	0.8+	921027 894	0.3+	0.2+
880907 809	0.0	0.8-	880916 809	0.2-	0.7+	921027 894	0.2-	1.3+
880909 809	0.1-	0.9-	880916 809	0.2-	0.5+			
880909 809	0.2+	0.9-	880917 809	0.5-	0.8+			

1988 UA = 1992 UL3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	54.66933		(2000.0)		P		Nakano	Q
n	0.25327499	Peri.	92.74516		+0.98339325		+0.18055331	
a	2.4740464	Node	256.85333		-0.17311329		+0.90276284	
e	0.1890554	Incl.	1.08213		-0.05449317		+0.39040973	
P	3.89	H	13.5		G	0.15		

Residuals in seconds of arc

881005 399	1.2-	1.0+	881019 399	1.0+	1.3-	881106 399	0.2+	0.2+
881005 399	2.9-	1.3+	881019 399	2.3+	0.1+	921026 400	1.4+	0.3+
881005 399	2.1+	1.8+	881019 399	2.6+	0.3+	921026 400	0.2-	0.1-
881016 399	0.4-	0.1-	881031 399	0.1+	1.2-	921028 400	0.3-	0.8+
881016 399	0.3+	0.2-	881031 399	0.9+	0.1-	921028 400	1.1-	0.1-
881016 399	0.2+	0.5-	881031 399	2.5-	1.8-			
881016 399	2.1-	2.8-	881106 399	0.5-	2.4+			

1988 VS2 = 1992 SH13

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	41.89451		(2000.0)		P		Williams	Q
n	0.23859130	Peri.	153.99867	+0.98902053				-0.08694456
a	2.5745400	Node	211.70122	+0.06043341				+0.97586383
e	0.1917372	Incl.	13.14389	+0.13485621				+0.20032582
P	4.13	H	13.0	G	0.15			

Residuals in seconds of arc

881112	675	0.4+	0.5-	881207	675	1.1+	0.0	920925	675	0.2+	1.6-
881113	675	1.4-	0.3-	920923	675	0.1-	0.9+	920925	675	0.0	0.6+
881206	675	0.1-	0.8+	920923	675	0.1-	0.2+				

1988 VO3 = 1992 UC3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	29.54767		(2000.0)		P		Nakano	Q
n	0.24020609	Peri.	359.97946	+0.96389694				-0.26529247
a	2.5629888	Node	15.46323	+0.24431530				+0.84699627
e	0.2494201	Incl.	4.91864	+0.10589014				+0.46067042
P	4.10	H	14.5	G	0.15			

Residuals in seconds of arc

881103	054	0.4-	0.8+	881114	888	1.5-	1.5-	881211	888	1.6+	1.3+
881103	054	0.6-	1.2+	881130	888	0.9-	0.0	881211	888	0.4-	0.2-
881104	054	1.5-	0.7+	881130	888	1.7-	0.1-	921026	894	1.2+	0.3+
881111	888	2.3+	0.3+	881205	888	0.0	0.2+	921026	894	0.6-	0.3+
881111	888	2.8+	0.4+	881206	888	0.3-	0.6+	921027	894	0.4-	0.5-
881112	888	0.1+	0.2+	881206	888	0.8-	0.8+	921027	894	0.0	0.5-
881112	888	0.0	0.5-	881207	888	0.9+	1.6-				
881114	888	0.2-	1.6-	881207	888	0.6+	0.5-				

1989 EE = 1992 SG8

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	271.81327		(2000.0)		P		Williams	Q
n	0.17565153	Peri.	319.80759	-0.57921422				-0.80414884
a	3.1576798	Node	164.03163	+0.81509097				-0.57367907
e	0.2743181	Incl.	29.05962	+0.01173026				+0.15568229
P	5.61	H	13.0	G	0.15			

Residuals in seconds of arc

890304	675	2.4+	0.5-	890405	675	0.2+	1.3-	920926	691	0.1+	0.2+
890305	675	(0.7-	5.3+)	890407	675	1.7-	1.0-	920926	691	0.1-	0.3+
890312	399	0.6+	0.2+	890407	675	2.0-	1.1+	920927	691	0.1+	0.6+
890312	399	1.0-	1.2+	890509	801	0.8+	0.1-	920927	691	0.1-	0.4+
890405	675	0.4+	1.1+	920926	691	0.1+	0.9-	920927	691	0.0	0.3+

1989 EQ = 1981 QX3

Id. S. J. Bus (MPC 20635)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	328.27871		(2000.0)		P		Williams	Q
n	0.18482333	Peri.	119.64018	+0.26517437				-0.95878677
a	3.0523303	Node	314.60262	+0.82768055				+0.28063227
e	0.1902533	Incl.	8.23909	+0.49459828				+0.04442353
P	5.33	H	12.0	G	0.15			

Residuals in seconds of arc

740428	413	0.1+	0.5-	890304	413	1.1-	1.0+	890328	046	1.2-	0.2-
740428	413	0.5-	0.5+	890305	413	0.6+	0.4+	890328	046	0.3-	0.0
810830	675	1.0+	0.1-	890326	046	0.3-	1.7-	890429	413	1.2+	1.0+
810831	675	0.1-	0.6-	890326	046	0.7-	0.9-	920827	675	2.2+	0.8+
890302	413	1.5-	0.4+	890327	046	1.7+	1.7-	921013	413	0.9-	0.8-
890302	413	0.1+	0.4+	890327	046	1.0+	0.4-	921013	413	0.9-	1.0-

1989 TF4 = 1992 RN3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 152.31749

(2000.0)

P

Marsden

Q

n	0.29717510	Peri.	55.23014	-0.79154294	+0.61042104
a	2.2239641	Node	162.33221	-0.58732796	-0.74672376
e	0.1225648	Incl.	5.49923	-0.16883616	-0.26417756
P	3.32	H	15.0	G	0.15

Residuals in seconds of arc

890928	809	0.0	1.0+	891007	809	0.6-	0.2+	920902	809	0.1-	0.3+
890928	809	0.2+	0.3-	891008	809	1.2+	0.2-	920902	809	0.5-	0.2-
890928	809	0.4-	0.8-	891008	809	0.1+	0.1+	920903	809	0.9-	1.4-
891007	809	0.4+	0.4+	891008	809	0.4-	0.2-				
891007	809	0.5-	0.2-	920902	809	1.4+	1.2+				

1989 UO1 = 1992 PD3

ID. H. E. Holt (MPC 20818)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 37.15277

(2000.0)

P

Bardwell

Q

n	0.30387518	Peri.	145.60585	+0.93878684	+0.34404109
a	2.1911523	Node	194.30302	-0.33001291	+0.88333574
e	0.2178700	Incl.	4.11968	-0.09884707	+0.31836097
P	3.24	H	14.0	G	0.15

Residuals in seconds of arc

891028	403	0.4+	0.3+	891120	399	1.0+	0.4-	920807	675	0.1-	1.5-
891028	403	0.1+	0.4+	891125	399	(0.6+	4.0-)	920807	675	0.9-	0.0
891029	403	0.0	2.3+	891125	399	0.0	2.9-	920807	675	0.1+	1.5-
891029	403	1.8+	1.0+	891125	399	0.5-	1.0-	920807	675	0.6-	0.6+
891102	403	(2.2-	3.5-)	920806	675	0.4+	1.2-	920924	801	0.0	0.7+
891102	403	0.2+	0.4+	920806	675	0.2+	1.7-	920924	801	0.1-	0.6+
891120	399	0.7-	0.5-	920806	675	0.1+	1.1+	920930	801	0.2+	1.0+
891120	399	2.1-	0.9-	920806	675	0.9+	1.1+	920930	801	0.0	0.8+

1990 BZ = 1982 BS13

Id. E. Bowell (MPC 20018)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 324.63788

(2000.0)

P

Williams

Q

n	0.24415211	Peri.	105.43344	+0.53594611	-0.82311514
a	2.5352983	Node	310.60258	+0.64826862	+0.54367935
e	0.0839696	Incl.	14.31556	+0.54084153	+0.16399460
P	4.04	H	13.5	G	0.15

Residuals in seconds of arc

820130	675	0.3-	0.8-	900124	372	1.5+	0.8-	920805	675	0.2-	0.5+
820131	675	0.3-	0.3-	900124	372	0.5-	0.5-	920805	675	0.2-	0.1+
900121	372	0.7+	0.2-	900129	372	(4.3+	1.2+)	920807	675	1.0+	0.4-
900121	372	(4.7+	0.3+)	900129	372	1.4-	2.3+	920807	675	0.4-	0.4-

1990 SF11 = 1986 OO = 1992 BR1

Id. K. Ichikawa (MPC 17826), G. V. Williams

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 99.07977

(2000.0)

P

Williams

Q

n	0.25613438	Peri.	162.44788	-0.37047803	-0.92849297
a	2.4555991	Node	309.28944	+0.84820472	-0.32702943
e	0.0270281	Incl.	1.88312	+0.37854298	-0.17593338
P	3.85	H	13.5	G	0.15

Residuals in seconds of arc

860727	413	1.3-	0.8+	860801	413	0.8-	1.6-	900914	675	0.4-	0.0
860727	413	0.1+	1.2+	860801	413	2.0+	0.5-	900914	675	0.4-	0.4+

900916	675	0.4-	0.3+	900919	675	0.6+	0.8+	920127	372	0.4+	0.0
900916	675	0.8+	0.3+	920111	303	0.6+	0.5+				
900919	675	0.3-	1.7-	920112	303	1.0-	0.5-				

## 1991 CZ

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 138.43053

(2000.0)

P

Bardwell

Q

n	0.39697186	Peri.	129.56065	+0.26477896	+0.94892989
a	1.8335647	Node	154.18629	-0.96051821	+0.27528935
e	0.0139747	Incl.	23.19915	-0.08542170	-0.15410330
P	2.48	H	13.5	G	0.15

Residuals in seconds of arc

910207	675	1.1-	0.4-	910220	675	0.0	0.8-	910319	675	0.2+	1.1-
910208	675	0.2-	0.6-	910220	675	1.0-	1.3-	910512	801	0.2-	0.1+
910209	402	1.5+	1.2+	910220	391	0.8-	0.7-	910512	801	0.1-	0.0
910209	402	0.6+	2.1+	910306	402	0.7+	0.0	910517	801	0.4-	0.2+
910213	391	(6.1+	2.0+)	910306	402	1.0+	0.5+	910517	801	0.4-	0.2-
910213	391	(7.7+	0.2+)	910309	402	0.1+	1.1+	920825	801	0.4-	0.1+
910217	391	(0.8+	5.8+)	910309	402	1.6+	0.5+	920825	801	0.1-	0.4+
910217	391	1.0+	1.9-	910317	675	1.4+	0.1+	920924	675	1.2+	1.5-
910218	675	0.1-	0.1+	910317	675	0.1-	1.3-	920924	675	1.2+	0.3-
910218	675	1.7-	1.6-	910317	402	0.4+	1.6+	920925	801	0.1-	0.2+
910219	691	0.1-	0.6+	910317	402	0.6+	0.5+	920926	675	0.6+	0.6+
910219	691	0.1-	0.4+	910318	402	0.9-	0.9+	920926	675	0.4-	0.4-
910219	691	0.0	0.6+	910318	402	0.6-	0.6+	920930	801	0.9-	1.0+
910219	675	1.6-	0.0	910319	675	0.2+	1.0-	920930	801	1.2-	0.4+

## 1991 FC

Id. E. F. Helin (1989, 1992 observations)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 258.03390

(2000.0)

P

Williams

Q

n	0.37380052	Peri.	334.75342	-0.95455125	-0.29128301
a	1.9085760	Node	189.02879	+0.29184235	-0.95646636
e	0.0254059	Incl.	23.72304	-0.06049762	-0.01806402
P	2.64	H	13.5	G	0.15

Residuals in seconds of arc

890905	675	0.4-	2.2-	910411	033	0.9+	1.2-	910415	675	0.3-	0.4-
890905	675	0.6+	0.6+	910411	033	0.7-	1.2+	910416	675	0.5+	0.6-
910317	675	(1.5+	4.7-)	910411	033	0.3-	1.4-	910508	675	1.1+	0.1-
910318	675	(4.6+	3.8-)	910412	675	0.5+	1.2+	910508	675	0.6-	1.5-
910318	675	0.4-	1.7-	910412	675	0.8+	0.1+	920923	675	0.5+	2.5-
910409	675	1.4+	0.4-	910413	675	0.6-	0.3+	920923	675	0.1+	0.6-
910409	675	1.1+	0.0	910413	675	1.1-	0.9-	920925	675	0.8-	0.9-
910411	033	0.2-	1.3+	910415	675	2.2-	0.2-	920925	675	0.2+	0.7+

## 1991 FO = 1992 SX14

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 178.51000

(2000.0)

P

Williams

Q

n	0.27892153	Peri.	15.15543	-0.92393420	+0.38229360
a	2.3199646	Node	187.36657	-0.36138907	-0.88427450
e	0.0788099	Incl.	6.28768	-0.12547322	-0.26816079
P	3.53	H	13.5	G	0.15

Residuals in seconds of arc

910317	675	0.2-	0.0	910408	675	0.6-	2.5-	910412	033	1.0-	1.4+
910317	675	1.3-	0.6+	910410	675	0.7+	2.0-	910414	400	2.1+	0.9+
910318	675	0.1-	0.7+	910410	675	0.6-	1.3-	910414	400	1.5+	0.7+
910318	675	1.6+	0.6+	910411	033	0.1+	0.8+	910418	399	0.3+	1.2+
910408	675	0.1+	1.5-	910411	033	1.0-	0.2+	910418	399	1.0-	1.5+

910509 675 0.2+ 0.4-	910512 675 0.0 0.1+	921005 691 1.0- 0.3+
910509 675 1.4- 0.0	920925 801 1.0+ 0.2-	921005 691 0.7- 0.2+
910512 675 0.6+ 0.5-	920925 801 1.1+ 0.1-	921005 691 0.6- 0.3+

1991 FT = 1985 UG = 1992 SL12

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 89.45903	(2000.0)	P	Nakano	Q
n 0.27833794	Peri. 291.29446	+0.44231275	+0.89678938	
a 2.3232063	Node 5.00106	-0.76718031	+0.38486700	
e 0.1238520	Incl. 7.46415	-0.46453611	+0.21828010	
P 3.54	H 13.5	G 0.15		

Residuals in seconds of arc

851020 688 0.6+ 0.1+	910320 372 1.2+ 0.4-	920921 400 0.4+ 0.0
851020 688 0.7- 0.0	910320 372 (9.3+ 1.3-)	920921 400 0.2- 0.2-
910317 372 (5.9+ 0.7-)	910320 372 (5.7+ 1.8+)	921001 400 0.6- 0.6-
910317 372 0.1+ 0.8+	910403 372 1.5- 1.0-	921001 400 1.4+ 0.2+
910319 372(75.7- 11.5+)	910403 372 0.2- 0.4-	921002 400 0.7+ 0.5+
910319 372 1.4- 0.5-	910409 372 2.0+ 0.5+	921002 400 1.3- 0.6-
910319 372 0.7- 0.2+	910409 372 (4.1+ 0.7+)	

1991 FS1 = 1992 RP2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 129.34118	(2000.0)	P	Marsden	Q
n 0.26137054	Peri. 178.68348	-0.63955095	+0.76872762	
a 2.4226925	Node 51.55814	-0.70537958	-0.58387056	
e 0.1526397	Incl. 0.41658	-0.30563740	-0.26106134	
P 3.77	H 14.5	G 0.15		

Residuals in seconds of arc

910317 809 0.2- 0.1+	910319 809 0.2- 0.1+	920902 809 0.3+ 0.0
910317 809 0.1+ 0.1-	910320 809 0.4- 0.4-	920902 809 1.4- 1.5-
910317 809 0.5+ 0.1-	910320 809 0.2+ 0.1-	920903 809 0.0 0.5+
910319 809 0.4- 0.1+	910320 809 0.5+ 0.1+	
910319 809 0.2- 0.3+	920902 809 1.0+ 1.0+	

1991 GP1 = 1987 QV8

Id. G. V. Williams, C. M. Bardwell

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 111.37863	(2000.0)	P	Bardwell	Q
n 0.21467249	Peri. 104.60365	-0.48769260	+0.85490129	
a 2.7623908	Node 134.77461	-0.86573854	-0.44748211	
e 0.2245218	Incl. 14.43138	-0.11248423	-0.26249484	
P 4.59	H 11.5	G 0.15		

Residuals in seconds of arc

870820 010 0.7- 1.7+	910507 675 0.2+ 0.5+	910812 801 0.4+ 0.3+
870820 010 0.8+ 0.3+	910510 675 0.2- 0.2+	910812 801 0.1+ 0.0
910409 675 0.1+ 0.5-	910510 675 0.7- 0.4+	920830 801 0.3- 0.8-
910409 675 0.1- 1.0-	910614 675 0.0 0.7-	920925 801 0.3+ 1.8-
910412 675 0.4- 0.3-	910614 675 1.0+ 0.5-	920925 801 0.8+ 1.1-
910412 675 0.0 0.1-	910616 675 0.3+ 0.5-	
910507 675 1.3- 0.7+	910616 675 0.6+ 0.9-	

1991 GQ1 = 1992 QL1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 41.21536	(2000.0)	P	Williams	Q
n 0.18866392	Peri. 232.87783	+0.75677140	+0.61545420	
a 3.0107647	Node 88.05107	-0.50776390	+0.76567010	
e 0.1617408	Incl. 12.73162	-0.41167083	+0.18699042	
P 5.22	H 11.5	G 0.15		



Residuals in seconds of arc

910410 675	0.2+	0.1-	910508 675	0.3+	1.0-	920825 675	0.5+	0.0
910410 675	0.6+	0.2-	910508 675	0.1+	0.3+	920825 675	1.0-	0.1-
910412 675	0.3-	0.6+	910510 675	0.3-	0.5+	920827 675	0.4+	0.7+
910412 675	0.6-	0.3-	910510 675	0.1-	0.0	920827 675	0.1+	0.7-

1991 GP7 = 1992 RQ1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Marsden

M 340.19253		(2000.0)		P	Q
n 0.29560567	Peri.	81.02864	+0.64702002		-0.76216333
a 2.2318288	Node	328.62039	+0.68213612		+0.59134541
e 0.0929566	Incl.	2.39165	+0.34066907		+0.26347231
P 3.33	H 15.0		G 0.15		

Residuals in seconds of arc

910408 809	0.5+	0.3+	910410 809	0.2+	0.0	920902 809	0.2-	0.1-
910408 809	0.2-	0.5+	910419 809	0.1+	0.4-	920902 809	1.2-	0.4-
910408 809	1.3-	0.1-	910419 809	0.3-	0.4-	920903 809	0.6+	0.5+
910410 809	0.1+	0.8+	910419 809	0.5-	0.2-			
910410 809	1.3+	0.5-	920902 809	0.8+	0.0			

1991 PQ = 1972 TN2 = 1978 PO1

Id. H. E. Holt (1992 observations), G. V. Williams

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams

M 319.94151		(2000.0)		P	Q
n 0.15126385	Peri.	132.79242	+0.13674983		-0.95479623
a 3.4885580	Node	307.42686	+0.78387020		+0.26720758
e 0.0400169	Incl.	19.41221	+0.60567895		-0.13024695
P 6.52	H 10.5		G 0.15		

Residuals in seconds of arc

721005 095	1.1-	1.4+	910808 675	0.6+	1.4+	910913 675	0.6-	0.3-
780808 095	(2.5-	2.9+)	910811 809	0.9+	1.3-	910913 675	0.2-	0.2+
910805 675	0.6+	0.5+	910811 809	0.1-	1.3-	910914 675	0.5-	1.2+
910805 675	0.3+	0.4+	910811 809	0.7+	2.0-	910914 675	0.8-	1.0+
910806 809	0.7+	0.4+	910818 808	(3.2-	0.8+)	920928 675	0.6+	0.2+
910806 809	0.0	0.4+	910818 808	1.2-	0.9-	920930 675	0.1+	1.1-
910806 809	0.2+	0.5+	910913 675	1.5-	0.2-	920930 675	0.1-	0.4-
910808 675	0.6+	1.4+	910913 675	0.5+	1.7-			

1992 GA

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams

M 69.67611		(2000.0)		P	Q
n 0.23028444	Peri.	246.76961	-0.94250563		+0.29608716
a 2.6360865	Node	310.07832	-0.18063615		-0.84149670
e 0.1172928	Incl.	11.68499	-0.28116495		-0.45190231
P 4.28	H 14.0		G 0.15		

From 15 observations 1992 Apr. 4-Oct. 14, mean residual 0".78.

1992 HE

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams

M 60.47268		(2000.0)		P	Q
n 0.29381786	Peri.	262.59553	+0.24721032		+0.92805319
a 2.2408730	Node	27.32019	-0.45725538		+0.36520762
e 0.5717834	Incl.	37.37057	-0.85428600		+0.07307994
P 3.35	H 14.0		G 0.15		

From 73 observations 1992 Apr. 25-Oct. 28, mean residual 0".62.

1992 JE

Id. R. H. McNaught (1979 observations)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	44.99772		(2000.0)			P		Nakano		Q
n	0.30410495	Peri.	109.46583			+0.54989217		+0.83487122		
a	2.1900485	Node	193.97553			-0.79951345		+0.51759818		
e	0.4629698	Incl.	5.86320			-0.24165438		+0.18730236		
P	3.24	H	16.0			G	0.15			

Residuals in seconds of arc

790624	413	1.0+	0.9+	920530	675	1.4+	0.4-	920728	658	0.8+	1.3+
790624	413	1.0-	1.6-	920603	801	1.0-	0.9-	920728	658	0.6+	1.2+
920502	675	1.2+	1.2-	920603	801	0.1-	0.0	920731	801	0.7+	0.2-
920502	675	1.5+	0.4-	920603	675	1.1+	0.0	920731	801	1.0+	0.1+
920502	372	(0.7-	2.9+)	920603	675	0.1+	2.0-	920805	413	1.5+	0.3-
920502	372	0.7-	1.7+	920605	675	0.6-	1.7-	920805	413	1.6+	0.0
920503	372	1.5-	0.6+	920605	675	0.4+	1.8-	920821	413	0.4-	0.4+
920503	372	0.9-	1.3+	920605	372	0.7+	0.1+	920821	413	0.4-	0.4+
920504	372	2.0-	0.9+	920625	675	0.3+	0.6-	920822	413	0.5-	0.5+
920506	402	1.7+	1.8-	920625	675	0.4-	1.6-	920822	413	0.5-	0.4+
920506	402	0.1+	1.3+	920626	675	1.0+	1.3-	920825	801	0.2+	0.2-
920510	372	(2.8-	2.4+)	920628	801	0.2-	0.1+	920825	801	0.4-	0.0
920510	372	(1.0+	3.8+)	920628	801	0.3-	0.0	920901	801	0.1+	0.3+
920522	372	0.3-	0.9+	920630	801	0.4-	0.9+	920901	801	0.0	0.5+
920524	413	0.4-	1.3+	920630	801	0.3-	0.5+	920906	413	1.7-	0.3-
920524	413	0.3-	1.3+	920704	413	0.6-	1.0+	920906	413	0.5-	0.2-
920526	372	0.1-	1.0+	920704	413	0.5-	1.0+	921001	801	0.3+	0.1-
920526	372	(0.6-	3.7+)	920726	801	0.3-	0.2-	921002	801	1.4+	2.1-
920527	675	(1.3+	3.0-)	920726	801	0.3-	0.4-	921019	372	1.3+	1.3+
920527	675	(0.6+	3.0-)	920726	658	0.1+	0.2-	921027	372	0.7-	0.0
920529	801	0.6-	0.5+	920726	658	0.7-	0.3-	921027	801	0.6-	1.7-
920529	801	0.6-	0.1-	920726	658	0.0	0.7-				
920530	675	0.8+	2.1-	920728	658	0.2+	1.3+				

1992 LR

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	68.24856		(2000.0)			P		Williams		Q
n	0.39776445	Peri.	67.73881			+0.51428010		+0.85715574		
a	1.8311282	Node	233.24142			-0.79927839		+0.46707651		
e	0.4090967	Incl.	2.02321			-0.31091806		+0.21707963		
P	2.48	H	18.0			G	0.15			

From 132 observations 1992 May 21-Sept. 30, mean residual 0".66.

1992 ME

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	56.09241		(2000.0)			P		Williams		Q
n	0.28265452	Peri.	134.12392			-0.20915434		+0.91200091		
a	2.2994930	Node	120.60064			-0.97265742		-0.15676835		
e	0.2521810	Incl.	24.20163			-0.10095547		-0.37904885		
P	3.49	H	14.0			G	0.15			

From 29 observations 1992 June 21-Oct. 15, mean residual 0".70.

1992 NA

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	32.18106		(2000.0)			P		Williams		Q
n	0.26677065	Peri.	7.86521			+0.99868445		+0.04116944		
a	2.3898869	Node	349.62680			-0.05118176		+0.83672960		
e	0.5611957	Incl.	9.77453			+0.00313153		+0.54606654		
P	3.69	H	16.5			G	0.15			

From 72 observations 1992 July 1-Oct. 28, mean residual 0".69.

1992 NJ

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams  
 M 290.58432 (2000.0) P Q  
 n 0.17253963 Peri. 24.68360 +0.63449875 -0.75257836  
 a 3.1955342 Node 27.02540 +0.62900391 +0.37030009  
 e 0.0708387 Incl. 22.81261 +0.44918305 +0.54452150  
 P 5.71 H 12.5 G 0.15  
 From 18 observations 1992 July 1-Oct. 6, mean residual 0".48.

1992 OE

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams  
 M 34.09570 (2000.0) P Q  
 n 0.21702765 Peri. 7.04155 +0.91803694 +0.32704883  
 a 2.7423697 Node 330.57739 -0.38238931 +0.58084782  
 e 0.2043322 Incl. 27.14897 -0.10481693 +0.74542261  
 P 4.54 H 13.5 G 0.15  
 From 24 observations 1992 July 27-Oct. 28, mean residual 0".48.

1992 OK

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams  
 M 18.96325 (2000.0) P Q  
 n 0.21552463 Peri. 103.38034 +0.98227741 +0.14361626  
 a 2.7551047 Node 248.46739 -0.17744951 +0.91947302  
 e 0.3545294 Incl. 7.43925 +0.06035530 +0.36598324  
 P 4.57 H 14.5 G 0.15  
 From 32 observations 1992 July 29-Oct. 27, mean residual 0".73.

1992 OM

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams  
 M 55.80373 (2000.0) P Q  
 n 0.30329394 Peri. 346.81272 +0.51234988 +0.85258367  
 a 2.1939508 Node 313.89532 -0.77438009 +0.40684137  
 e 0.4084108 Incl. 8.21369 -0.37125877 +0.32799571  
 P 3.25 H 16.0 G 0.15  
 From 56 observations 1992 July 27-Oct. 28, mean residual 0".69.

1992 QG = 1950 HM1 = 1977 RA9 = 1985 VF4

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Nakano  
 M 97.08920 (2000.0) P Q  
 n 0.26325584 Peri. 108.88965 +0.05076696 +0.99807883  
 a 2.4111119 Node 163.89641 -0.95772178 +0.05873595  
 e 0.0683374 Incl. 7.35645 -0.28318139 -0.01971624  
 P 3.74 H 12.8 G 0.15  
 Residuals in seconds of arc  
 500420 760 0.2- 1.5- 920826 399 2.1- 2.3- 920920 399 0.5+ 1.0+  
 500420 760 0.1+ 1.3+ 920826 399 0.4- 2.7- 920920 399 0.7- 1.8+  
 770908 675 0.6- 1.7+ 920826 399 0.1- 0.8- 920928 399 0.4+ 0.9+  
 770909 675 0.3- 2.1+ 920828 399 2.0+ 0.6- 920928 399 0.5+ 0.3+  
 851111 095 0.3+ 0.8- 920828 399 0.9+ 1.1-

1992 QN

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5 Williams  
 M 206.26062 (2000.0) P Q  
 n 0.75838064 Peri. 202.09528 -0.94959048 +0.31328914  
 a 1.1909071 Node 356.10926 -0.25688567 -0.79828902  
 e 0.3593683 Incl. 9.59185 -0.17968771 -0.51437783  
 P 1.30 H 16.0 G 0.15  
 From 28 observations 1992 Aug. 29-Oct. 14, mean residual 0".53.

1992 RJ = 1990 EA6

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Ichikawa

M	348.13209		(2000.0)		P		Q		
n	0.21264482	Peri.	222.98841	+0.85745240			-0.51336843		
a	2.7799235	Node	167.75774	+0.50546838			+0.82759220		
e	0.1662642	Incl.	9.51331	+0.09631772			+0.22703302		
P	4.63	H	12.8	G	0.15				

Residuals in seconds of arc

900301	809	0.4-	0.7-	900302	809	0.5+	0.6+	920904	372	1.9+	2.3-
900301	809	0.4-	0.7-	920901	894	0.4+	0.3-	920905	372	1.3-	0.2+
900301	809	0.1-	0.7-	920901	894	1.3-	1.4+	920905	372	0.5+	1.6+
900302	809	0.2+	0.7+	920903	894	0.3-	0.6-				
900302	809	0.2+	0.7+	920903	894	0.2+	0.0				

1992 RM = 1979 SE1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	33.54257		(2000.0)		P		Q		
n	0.30191965	Peri.	353.48111	+0.99983037			+0.01792370		
a	2.2006035	Node	5.49722	-0.01425930			+0.89896000		
e	0.1948427	Incl.	2.53611	-0.01165762			+0.43766386		
P	3.26	H	14.4	G	0.15				

Residuals in seconds of arc

790923	095	0.2+	0.6-	920905	894	1.3-	0.7+	920926	894	0.6-	0.3+
790928	330	0.1+	0.1-	920923	691	0.1+	0.3+	921002	894	0.0	0.3-
920904	894	0.2-	0.5-	920923	691	0.1-	0.3+	921006	894	0.4-	1.1+
920904	894	2.6+	0.9-	920923	691	0.1-	0.4+	921006	894	0.2+	1.2-
920905	894	0.8-	0.0	920926	894	0.2+	0.5+				

1992 RQ = 1975 RE1 = 1981 UZ16

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Marsden

M	21.38067		(2000.0)		P		Q		
n	0.17573077	Peri.	240.70300	+0.99861271			+0.03493489		
a	3.1567305	Node	117.27046	-0.01742846			+0.92533371		
e	0.2613789	Incl.	2.54045	-0.04968809			+0.37754083		
P	5.61	H	13.5	G	0.15				

Residuals in seconds of arc

750903	095	1.4+	1.6-	920904	033	1.5-	0.2-	920926	033	0.3-	0.1+
750906	095	0.8-	0.5-	920904	033	0.2+	0.3+	920926	033	0.6-	0.1+
811024	095	0.6+	1.5-	920906	033	1.3+	0.7+	920927	033	0.1-	0.2+
920902	033	0.1-	0.1-	920907	033	1.6+	2.1+	920928	033	1.7-	0.2-

1992 RT = 1982 QN = 1987 SL22

Id. B. G. Marsden, K. Ichikawa

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Marsden

M	5.83247		(2000.0)		P		Q		
n	0.20149456	Peri.	254.57304	+0.93085146			-0.36308253		
a	2.8815566	Node	126.69937	+0.35181177			+0.86019882		
e	0.0744682	Incl.	2.93608	+0.09871193			+0.35809087		
P	4.89	H	13.0	G	0.15				

Residuals in seconds of arc

820816	801	0.0	0.0	920907	033	1.1-	0.3-	920926	033	0.1+	0.1+
820817	801	0.2-	0.1-	920921	033	0.7+	0.1+	920927	033	1.0+	0.5+
870920	095	0.3-	1.7+	920922	033	0.3+	0.2-	920927	033	0.0	1.0+
920902	033	1.3-	1.0-	920923	033	0.2-	0.0	920928	033	0.6-	0.1-
920904	033	1.5-	1.0-	920924	033	0.7+	0.1-	920928	033	0.6-	0.9+
920904	033	1.3+	1.6-	920926	033	0.9+	0.6+				
920906	033	0.0	0.8-	920926	033	0.7+	0.2+				

1992 RN1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	22.81452		(2000.0)		P		Q
n	0.17348631	Peri.	211.16436	+0.98225636		+0.17414375	
a	3.1838987	Node	138.62372	-0.14296160		+0.93551938	
e	0.5121022	Incl.	6.04555	-0.12138542		+0.30737183	
P	5.68	H	15.0	G	0.15		

From 8 observations 1992 Sept. 1-Oct. 24, mean residual 0".71.

1992 SG = 1970 FD = 1984 SJ5 = 1986 EA1

Id. S. Nakano, A. Lowe

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	320.21475		(2000.0)		P		Q
n	0.24184228	Peri.	84.29593	+0.10837637		-0.99410700	
a	2.5514158	Node	359.46411	+0.77871818		+0.08640605	
e	0.0919992	Incl.	14.97956	+0.61794219		+0.06546203	
P	4.08	H	12.5	G	0.15		

Residuals in seconds of arc

700331	095	0.7-	1.0-	860305	688	0.0	0.7+	920923	400	0.3-	0.4+
840927	675	0.1+	0.8+	860312	809	0.4+	0.8-	920923	400	1.6+	0.9-
840927	675	1.0+	2.3-	920921	400	1.2+	0.0	920930	400	0.3+	0.7-
860305	688	0.1-	0.4+	920921	400	2.9-	0.1+	920930	400	0.6-	1.8+

1992 SK = 1985 SD = 1985 TO2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	169.76165		(2000.0)		P		Q
n	0.70642826	Peri.	233.47871	-0.46553645		+0.88404869	
a	1.2486019	Node	9.06731	-0.70382435		-0.34128733	
e	0.3248399	Incl.	15.31996	-0.53656974		-0.31934443	
P	1.40	H	17.5	G	0.15		

Residuals in seconds of arc

850922	675	1.6-	1.2+	920926	675	1.8+	0.9-	921013	413	1.1+	0.3-
850922	675	2.2+	0.6+	921005	413	1.7-	1.4+	921013	413	0.8+	0.2-
851012	010	2.4-	0.7-	921005	413	1.4+	0.4-	921027	657	1.2-	0.4+
851012	010	0.3-	0.5+	921006	413	0.5+	0.2+	921027	657	0.4-	0.2-
920924	675	(5.4+	2.5-)	921006	413	0.5+	0.2+	921027	657	0.0	0.6-
920924	675	1.3-	2.2-	921010	413	0.3+	0.1-	921028	801	0.1-	0.1+
920926	675	0.3+	0.3+	921010	413	0.3-	0.2-	921028	801	0.3-	0.3+

1992 SL

Epoch 1992 Oct. 5.0 TT = JDT 2448900.5

Williams

M	13.94671		(2000.0)		P		Q
n	0.46884925	Peri.	344.47296	+0.96852251		+0.24890862	
a	1.6410201	Node	1.12670	-0.20948963		+0.82140683	
e	0.3342218	Incl.	8.60013	-0.13445534		+0.51316208	
P	2.10	H	18.0	G	0.15		

From 36 observations 1992 Sept. 24-Oct. 28.

1992 SN = 1985 BA

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	19.23920		(2000.0)		P		Q
n	0.22790480	Peri.	77.50027	+0.89909052		-0.43110872	
a	2.6544042	Node	307.98715	+0.35476716		+0.81931660	
e	0.1772608	Incl.	5.53619	+0.25646930		+0.37797563	
P	4.32	H	12.7	G	0.15		

Residuals in seconds of arc

850117	881	(0.3-	4.7-)	850123	881	0.6-	1.3+	850126	881	1.4-	0.7+
850117	881	0.0	2.0-	850123	881	0.1+	0.2+	850126	881	1.8+	0.4-

920926 402 0.1- 0.8-	920927 402 0.4- 0.7+	921020 372 1.2- 0.0
920926 402 0.5- 0.2-	921002 402 1.2+ 0.5+	921021 372 0.5- 1.0+
920927 402 0.5+ 0.2-	921002 402 1.0+ 1.0-	

## 1992 ST

Epoch 1992 Oct. 5.0 TT = JDT 2448900.5

Williams

M 347.36406	(2000.0)	P	Q
n 0.24239614	Peri. 15.12861	+0.69177736	-0.71831319
a 2.5475277	Node 31.21019	+0.64682389	+0.57085892
e 0.3933542	Incl. 8.20601	+0.32103418	+0.39767607
P 4.07	H 14.5	G 0.15	

From 8 observations 1992 Sept. 23-Oct. 28.

## 1992 SY

Epoch 1992 Oct. 5.0 TT = JDT 2448900.5

Marsden

M 311.37859	(2000.0)	P	Q
n 0.29863481	Peri. 115.50373	-0.52611985	-0.85026725
a 2.2167111	Node 6.30768	+0.72033026	-0.45532188
e 0.5538518	Incl. 8.16528	+0.45202015	-0.26405980
P 3.30	H 18.0	G 0.15	

From 21 observations 1992 Sept. 27-Oct. 18.

## 1992 SZ

Epoch 1992 Oct. 5.0 TT = JDT 2448900.5

Marsden

M 16.66427	(2000.0)	P	Q
n 0.30683733	Peri. 314.65672	+0.75505635	+0.65554122
a 2.1770275	Node 4.43655	-0.54664917	+0.63991110
e 0.4599295	Incl. 9.28011	-0.36202844	+0.40097318
P 3.21	H 19.5	G 0.15	

From 22 observations 1992 Sept. 28-Oct. 18.

## 1992 SG1 = 1990 ET7

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M 16.57853	(2000.0)	P	Q
n 0.24013586	Peri. 217.99164	+0.92986594	-0.35996620
a 2.5634885	Node 162.63135	+0.36772357	+0.91575312
e 0.1747822	Incl. 14.74627	-0.01134469	+0.17838317
P 4.10	H 13.4	G 0.15	

Residuals in seconds of arc

900303 809 0.3+ 0.2-	900305 809 0.7- 0.2+	920928 400 0.5+ 1.0+
900303 809 0.6+ 0.3-	900305 809 0.4- 0.0	920928 400 1.8+ 0.9+
900303 809 1.0+ 0.2-	920923 400 0.5+ 0.9+	921001 400 0.5- 0.7-
900305 809 1.0- 0.5+	920923 400 2.2- 2.2-	921001 400 0.2- 0.2+

## 1992 SN1 = 1990 FL2 = 1990 FK3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M 8.04290	(2000.0)	P	Q
n 0.23893560	Peri. 26.70837	+0.78681852	-0.61490936
a 2.5720662	Node 11.69508	+0.50922238	+0.59832011
e 0.2096316	Incl. 15.14072	+0.34872508	+0.51371151
P 4.12	H 13.0	G 0.15	

Residuals in seconds of arc

900317 046 1.9- 0.1+	920924 675 2.3+ 0.4-	921003 691 (5.2- 0.2+)
900317 046 0.6- 0.5-	920924 675 0.5+ 1.4-	921003 691 1.3- 0.7-
900319 046 0.8- 0.5+	920926 372 1.6- 1.1+	921003 691 2.3- 0.9-
900319 046 3.1+ 0.2-	920926 372 0.8+ 1.1+	921005 372 0.7- 0.8+
920923 675 0.1+ 2.1+	921001 372 1.5+ 0.5+	
920923 675 0.9- 1.1-	921001 372 1.8+ 1.1-	

1992 ST1 = 1959 SC = 1973 TE = 1987 SU19

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	94.04447		(2000.0)		P				Nakano	Q
n	0.21142231	Peri.	334.14777		+0.33872027				+0.93637272	
a	2.7906295	Node	315.49004		-0.83886965				+0.25623455	
e	0.2084436	Incl.	7.54576		-0.42610597				+0.23989580	
P	4.66	H	12.0		G	0.15				

Residuals in seconds of arc

590928	024	1.5-	1.3-	920926	402	0.4-	1.1-	921019	399	0.4+	0.7+
731001	095	4.1+	0.6+	920926	402	0.8+	1.1+	921019	399	0.8-	0.2+
870917	095	1.0-	0.5+	920927	402	0.9+	1.0-				
870923	095	1.6-	0.1+	920927	402	0.9-	0.3+				

1992 SR2 = 1942 EG1 = 1979 SW10 = 1986 GS1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	134.51240		(2000.0)		P				Williams	Q
n	0.22441366	Peri.	235.56531		-0.29256149				+0.95361962	
a	2.6818626	Node	17.83326		-0.78382175				-0.19671871	
e	0.1408438	Incl.	13.37332		-0.54775107				-0.22784067	
P	4.39	H	12.0		G	0.15				

Residuals in seconds of arc

420314	062	0.5-	0.9+	920925	801	0.1+	0.2-	921001	801	0.6+	0.1-
420314	062	2.0+	1.2-	920925	801	0.3+	0.1-	921022	801	0.2+	0.5+
420317	062	1.2-	0.8+	920930	801	0.2-	0.2-	921022	801	0.3-	0.4+
790929	095	(5.8+	6.9-)	920930	801	0.0	0.2-	921028	801	0.4-	0.3-
860408	054	0.6-	0.9-	921001	801	0.4+	0.0	921028	801	0.3-	0.3-

1992 SW10 = 1974 OG2 = 1974 QN3 = 1977 EW4 = 1988 XC1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	326.60763		(2000.0)		P				Williams	Q
n	0.23008069	Peri.	66.95764		+0.04873115				-0.99684670	
a	2.6376425	Node	20.54645		+0.83860902				+0.00677628	
e	0.1908049	Incl.	10.27871		+0.54254972				+0.07906157	
P	4.28	H	13.0		G	0.15				

Residuals in seconds of arc

740724	413	(6.9-	0.7+)	881207	675	0.3+	3.1-	920927	691	0.6-	0.5+
740818	809	0.1-	2.3-	920825	675	1.6+	0.7-	921002	691	0.9-	1.1+
770315	381	0.4-	0.1-	920825	675	2.6+	1.3-	921002	691	1.0-	0.5+
770315	381	0.6+	0.1+	920927	691	0.8-	0.5+	921002	691	0.9-	0.7+
881206	675	1.0+	0.5+	920927	691	0.7-	0.7+				

1992 SR12 = 1968 UN2 = 1978 WQ6 = 1982 PK = 1987 RE3 = 1987 SR22

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	10.85160		(2000.0)		P				Nakano	Q
n	0.20460818	Peri.	337.51641		+0.89574164				-0.44316134	
a	2.8522487	Node	48.83861		+0.41471309				+0.80420704	
e	0.0830286	Incl.	2.69700		+0.16018730				+0.39605436	
P	4.82	H	12.3		G	0.15				

Residuals in seconds of arc

681023	095	0.1+	0.4-	920927	374	0.8+	0.3-	921001	691	1.3-	0.1+
781129	675	0.5-	0.5+	920928	400	1.3-	1.3+	921002	374	0.9+	0.3-
781130	675	0.3+	0.7+	920928	400	1.1+	2.6-	921002	374	0.3-	0.6+
820814	095	0.8-	1.0+	920930	400	0.2+	0.4+	921002	374	2.0+	0.2+
870902	095	0.4-	0.1+	920930	400	1.2+	0.2+	921017	410	0.6-	1.5-
870920	095	1.1+	0.0	921001	691	1.1-	0.0	921017	410	0.2-	0.4-
920927	374	0.0	0.8+	921001	691	1.5-	0.2+	921017	410	0.2+	0.1+

1992 SV12 = 1975 TV1 = 1991 FC2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	90.45746		(2000.0)		P		Nakano	Q
n	0.29013518	Peri.	285.38407			+0.37236499		+0.92796979
a	2.2597954	Node	6.53432			-0.79421386		+0.32681332
e	0.1828039	Incl.	7.42707			-0.48017565		+0.17906736
P	3.40	H	13.7		G	0.15		

Residuals in seconds of arc

751003	095	0.9+	1.5-	910324	809	(8.4-	19.6+)	920928	400	0.5-	0.8+
910320	809	0.8-	0.5-	910324	809	(7.8-	19.8+)	920930	400	0.1+	0.4+
910320	809	0.2-	0.4-	910324	809	(7.3-	20.3+)	920930	400	0.4-	1.3-
910320	809	0.2+	0.4-	910324	809	(8.0-	21.1+)	921020	372	0.9+	1.1-
910321	809	0.1-	0.2+	910324	809	(7.9-	21.3+)	921021	372	1.3-	1.4+
910321	809	0.3+	0.5+	910324	809	(7.6-	21.9+)				
910321	809	0.5+	0.5+	920928	400	0.4+	1.2+				

1992 SY14 = 1982 WJ = 1982 XG4

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	358.25368		(2000.0)		P		Nakano	Q
n	0.28743676	Peri.	163.64452			+0.72670246		-0.67716738
a	2.2739165	Node	239.56188			+0.61430506		+0.71586882
e	0.1087623	Incl.	7.70089			+0.30746192		+0.17022389
P	3.43	H	13.6		G	0.15		

Residuals in seconds of arc

821120	046	1.5-	0.2-	821214	381	0.4-	1.7-	921019	399	0.9-	0.0
821120	046	2.7+	1.7+	920928	399	0.8-	0.7-	921022	399	0.8+	0.4-
821213	381	0.1-	0.6+	920928	399	0.2-	0.9-	921022	399	0.6-	0.9+
821214	381	0.8-	0.6-	921019	399	1.8+	1.0+				

1992 SZ14 = 1972 RM3 = 1976 JU8 = 1987 SV20 = 1991 JG3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	80.91898		(2000.0)		P		Nakano	Q
n	0.20026938	Peri.	62.86111			+0.37544997		+0.91660562
a	2.8932970	Node	229.87710			-0.90120920		+0.32641711
e	0.1002154	Incl.	10.34949			-0.21647011		+0.23083764
P	4.92	H	11.9		G	0.15		

Residuals in seconds of arc

720905	095	0.0	0.3+	910512	809	0.7-	0.7-	921019	399	0.1-	1.0-
760502	809	0.1-	0.0	910517	809	1.6+	0.2-	921019	399	0.2-	0.2-
870918	095	0.3-	0.4+	910517	809	0.3+	0.3+	921022	399	1.1+	0.6-
870923	095	0.4-	1.2+	910517	809	0.7-	0.6+	921022	399	1.0+	2.0-
910512	809	0.3+	0.4-	920928	399	0.1-	0.6+				
910512	809	0.7-	0.4-	920928	399	0.8-	0.8+				

1992 TB

Epoch 1992 Oct. 5.0 TT = JDT 2448900.5

M	156.18900		(2000.0)		P		Marsden	Q
n	0.63489552	Peri.	5.54434			-0.98169502		+0.18447134
a	1.3407090	Node	185.77467			-0.18778246		-0.97903066
e	0.4594377	Incl.	28.09485			-0.03182176		+0.08642507
P	1.55	H	17.0		G	0.15		

From 15 observations 1992 Oct. 2-18.



1992 TC

Epoch 1992 Oct. 5.0 TT = JDT 2448900.5

Williams

M	3.45388		(2000.0)		P		Q
n	0.50565691	Peri.	275.26002	+0.98990517			-0.07105135
a	1.5603861	Node	88.85411	+0.11454721			+0.91063213
e	0.2905896	Incl.	7.04565	-0.08346674			+0.40706367
P	1.95	H	17.5	G	0.15		

From 23 observations 1992 Oct. 1-15.

1992 TY = 1962 PB = 1982 TB3 = 1991 FR4

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	87.22824		(2000.0)		P		Q
n	0.29883362	Peri.	166.57160	+0.50798577			+0.85896455
a	2.2157278	Node	133.91380	-0.79829989			+0.49750464
e	0.1796751	Incl.	5.11836	-0.32352395			+0.12111580
P	3.30	H	13.5	G	0.15		

Residuals in seconds of arc

620801	760	0.8-	0.3-	920928	400	2.5-	2.9+	921001	400	1.1+	0.1+
821014	095	1.2+	3.8+	920928	400	2.3+	2.3-	921019	400	1.7-	0.3-
821015	095	1.2+	0.4-	921001	675	1.0-	0.9-	921019	400	0.1+	0.9-
910316	046	0.4-	0.9+	921001	675	1.1-	1.2-				
910316	046	0.9+	0.5-	921001	400	0.9+	0.0				

1992 TD1 = 1988 VM

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	50.91454		(2000.0)		P		Q
n	0.24166116	Peri.	150.05890	+0.97476515			+0.20786389
a	2.5526904	Node	198.48281	-0.21867742			+0.96241975
e	0.1485029	Incl.	14.87773	+0.04486736			+0.17475934
P	4.08	H	13.1	G	0.15		

Residuals in seconds of arc

881103	897	0.3+	0.3-	921002	372	0.1+	1.6+	921006	372	0.0	1.2-
881103	897	0.2-	0.1-	921002	372	1.1-	1.5+	921006	372	0.6+	0.2-
881107	897	0.3-	0.2-	921005	372	0.1-	2.0-	921021	894	0.0	1.7+
881107	897	0.2+	0.5+	921005	372	0.5+	0.5-	921021	894	0.0	0.8-

1992 UA

Epoch 1992 Oct. 5.0 TT = JDT 2448900.5

(E-P)

Marsden

M	321.06126		(2000.0)		P		Q
n	0.52814855	Peri.	31.84932	+0.45300066			-0.89129222
a	1.5157684	Node	31.22703	+0.80975626			+0.40210895
e	0.0839697	Incl.	2.17910	+0.37294129			+0.20953894
P	1.87	H	22.0	G	0.15		

From 9 observations 1992 Oct. 18-22. Eccentricity assumed.

1992 UB2 = 1977 EJ4 = 1985 QR5 = 1989 YA6

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	43.63955		(2000.0)		P		Q
n	0.28684424	Peri.	204.50162	+0.99936891			-0.02295150
a	2.2770468	Node	156.76488	+0.03078912			+0.94031866
e	0.1698157	Incl.	3.94058	-0.01771488			+0.33952032
P	3.44	H	13.7	G	0.15		

Residuals in seconds of arc

770315	381	0.3-	2.5-	891231	511	0.4-	1.5-	921025	385	(1.4+	3.6+)Y	
770315	381	0.6-	0.0	891231	511	0.5+	1.0+	921026	885	1.0+	1.2-	
850823	095	0.7+	2.0-	921021	894	0.1+	2.7-	921026	885	0.5-	1.2+	
891229	511	0.8+	0.7+	921021	894	0.1+	0.3+	921027	894	0.2+	0.3-	
891229	511	0.9-	0.9-	921025	385	0.0	0.8+	Y	921027	894	0.8-	1.8+

2140 P-L = 1983 SU = 1992 SX2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	18.84370		(2000.0)		P		Williams	Q
n	0.21461906	Peri.	2.69004	+0.99916191			+0.03790676	
a	2.7628493	Node	355.05760	-0.04009995			+0.83074625	
e	0.2200601	Incl.	10.32769	-0.00821470			+0.55535911	
P	4.59	H	13.0	G	0.15			

Residuals in seconds of arc

600924	675	0.7+	0.5-	600929	675	0.1+	0.1-	920924	691	0.0	0.1+
600924	675	0.0	1.3-	600929	675	0.6+	0.6+	920924	691	0.2+	0.0
600926	675	0.2+	0.2-	601022	675	0.0	0.2+	920924	691	0.0	0.1+
600926	675	0.5+	0.5-	601024	675	1.3-	0.1+	920925	691	0.2+	0.1-
600928	675	0.3+	0.5-	601026	675	0.0	0.4-	920925	691	0.1-	0.1+
600928	675	0.1-	0.7+	830917	095	1.0-	1.8+	920925	691	0.4-	0.1+

2508 P-L = 1992 RL6

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	29.41929		(2000.0)		P		Williams	Q
n	0.27691007	Peri.	350.80935	+0.99964644			-0.01772102	
a	2.3311858	Node	10.26859	+0.02521951			+0.86812598	
e	0.2511195	Incl.	6.38468	-0.00842485			+0.49602747	
P	3.56	H	15.5	G	0.15			

Residuals in seconds of arc

600924	675	0.5-	0.3-	601017	675	0.1-	0.8+	920902	809	0.8+	0.1-
600926	675	0.0	0.4-	601022	675	0.4+	0.5-	920902	809	0.1+	0.2-
600928	675	0.4-	0.3+	601025	675	0.1+	0.1-	920902	809	0.0	0.2-
600929	675	0.9+	0.5+	601026	675	0.4-	0.2-	920903	809	0.9-	0.5+

4186 P-L = 1992 RL2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	43.59650		(2000.0)		P		Marsden	Q
n	0.24572193	Peri.	112.41606	+0.83042796			+0.55678516	
a	2.5244887	Node	213.75917	-0.52318130			+0.76733253	
e	0.1793349	Incl.	2.00949	-0.19149602			+0.31810546	
P	4.01	H	16.0	G	0.15			

Residuals in seconds of arc

600924	675	0.8-	0.3+	600927	675	0.3+	0.3-	601026	675	0.1+	0.0
600924	675	0.1-	0.4-	600928	675	0.4+	0.3-	920902	809	0.5+	0.2+
600925	675	1.0-	0.0	600928	675	1.0+	0.3-	920902	809	0.3+	0.4-
600926	675	0.7+	0.4+	601017	675	0.3-	0.8+	920902	809	1.4-	0.7+
600926	675	0.2+	0.9-	601022	675	0.2-	0.5+	920903	809	0.4+	0.2-

4631 P-L = 1985 SS6 = 1992 SA2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	197.34077		(2000.0)		P		Marsden	Q
n	0.27718875	Peri.	180.81664	-0.96708037			+0.25266520	
a	2.3296230	Node	13.93174	-0.23275432			-0.83019821	
e	0.0473285	Incl.	7.22093	-0.10286395			-0.49692174	
P	3.56	H	14.0	G	0.15			

Residuals in seconds of arc

600924	675	0.6+	0.4+	601022	675	0.1+	0.4-	920923	033	0.3-	0.6+
600926	675	0.7-	0.1-	601024	675	0.0	1.5+	920924	033	0.4-	0.1+
600927	675	0.3-	0.1+	601025	675	0.0	0.9-	920926	033	0.1+	1.2+
600927	675	0.9+	0.5-	601026	675	0.1+	0.6+	920927	033	0.1+	0.1+
600928	675	0.0	0.4-	850922	095	0.2+	0.4-	920928	033	0.2-	0.3+
601017	675	0.6-	1.3-	920921	033	0.3+	0.0				
601022	675	0.2+	0.7+	920922	033	0.0	1.6-				

4820 P-L = 1992 SW4

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 291.04486

(2000.0)

P

Williams

Q

n	0.18456810	Peri.	73.82118	-0.10369114	-0.99265519
a	3.0551436	Node	22.41432	+0.83866210	-0.12094562
e	0.0251461	Incl.	9.40669	+0.53469058	-0.00279983
P	5.34	H	14.0	G	0.15

Residuals in seconds of arc

600924	675	0.1-	0.7-	601025	675	0.9-	0.2+	920925	691	0.3-	0.3+
600926	675	0.1+	0.9-	601026	675	1.1-	1.1-	920925	691	0.1-	0.3+
600927	675	0.8+	0.2-	920924	691	0.3-	0.3+	920925	691	0.2-	0.5+
600928	675	1.1+	0.2-	920924	691	0.2-	0.3+				
601022	675	1.2+	1.0+	920924	691	0.1-	0.1+				

6074 P-L = 1992 RX3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 54.92519

(2000.0)

P

Marsden

Q

n	0.30735472	Peri.	340.71682	+0.79934929	+0.60085625
a	2.1745837	Node	342.35054	-0.54974256	+0.72895187
e	0.1485737	Incl.	0.66757	-0.24253624	+0.32802582
P	3.21	H	16.5	G	0.15

Residuals in seconds of arc

600924	675	0.0	0.5-	601017	675	0.5+	0.0	920902	809	0.3+	0.3+
600925	675	0.5-	1.0+	601022	675	0.2-	0.2-	920902	809	0.2+	0.1-
600926	675	0.1+	0.2+	601024	675	0.6+	0.3-	920902	809	0.2+	0.2+
600928	675	0.0	0.1-	601026	675	0.5-	0.1+	920903	809	0.6-	0.6-

6761 P-L = 1992 RH2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 246.05508

(2000.0)

P

Marsden

Q

n	0.18308346	Peri.	309.97344	-0.57537740	-0.81776088
a	3.0716376	Node	175.08700	+0.79233058	-0.56168486
e	0.0591226	Incl.	9.69454	+0.20286225	-0.12560761
P	5.38	H	13.5	G	0.15

Residuals in seconds of arc

600924	675	0.4-	0.9-	601017	675	0.2+	0.5-	920902	809	0.2-	1.1-
600926	675	0.1+	0.3+	601022	675	1.7-	1.1-	920902	809	1.2-	0.6-
600927	675	0.9+	0.2+	601026	675	1.2+	1.3+	920903	809	0.2+	0.9+
600928	675	0.4-	0.6+	920902	809	1.2+	0.9+				

1105 T-1 = 2043 T-2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 17.06449

(2000.0)

P

Kobayashi

Q

n	0.22066461	Peri.	287.01879	-0.40651984	-0.91353190
a	2.7121535	Node	187.01714	+0.87619181	-0.38541147
e	0.0842611	Incl.	6.66566	+0.25890064	-0.13006715
P	4.47	H	14.1	G	0.15

Residuals in seconds of arc

710324	675	0.6+	0.9-	710513	675	0.4+	1.1-	730929	675	0.4+	0.3+
710325	675	2.5-	0.8-	730919	675	1.0+	0.1-	730930	675	1.3+	0.1+
710325	675	0.1+	0.1-	730919	675	1.3+	0.5+	730930	675	1.1+	1.2-
710326	675	0.5+	0.1+	730920	675	0.5+	0.7-	731004	675	0.2+	1.6-
710327	675	1.0-	0.3-	730924	675	1.0-	1.2+	731004	675	0.4+	1.4-
710327	675	0.3+	1.2-	730924	675	0.6-	0.0	731005	675	1.0+	0.0
710402	675	0.0	1.1+	730925	675	0.0	2.5-	731005	675	2.7-	1.7+
710416	675	0.2-	1.5-	730925	675	1.5+	1.5-	731005	675	0.3+	1.7-
710416	675	0.2+	1.3-	730929	675	0.1-	0.1-	731005	675	2.8-	0.9+

1240 T-1 = 1982 SA6 = 1982 SF13 = 1991 NE2

Id. T. Kobayashi (k), S. Nakano

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Nakano

M	87.68396		(2000.0)			P		Q	
n	0.21057262	Peri.	338.76981	+0.94505237				+0.32686353	
a	2.7981315	Node	2.17879	-0.27247872				+0.79772043	
e	0.1636093	Incl.	9.11250	-0.18064154				+0.50675670	
P	4.68	H	13.0	G	0.15				

Residuals in seconds of arc

710324	675	0.5+	2.1-	710416	675	0.2+	0.0	910713	675	0.3-	0.5+
710325	675	2.1-	0.1+	710416	675	0.6-	0.2-	910713	675	0.1-	0.3+
710325	675	1.7-	0.5+	710513	675	1.6+	0.4+	910716	675	0.7-	0.4-
710326	675	0.6+	1.8-	710514	675	2.1+	1.4-	910716	675	1.0+	0.3-
710327	675	0.6-	0.1+	820916	095	1.6+	0.7-				
710402	675	1.5-	1.2+	820920	095	0.0	1.9-				

2127 T-1 = 1977 DD2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	164.46074		(2000.0)			P		Q	
n	0.31498630	Peri.	259.27233	+0.99350221				-0.11110803	
a	2.1393160	Node	107.10345	+0.11188265				+0.91370142	
e	0.1179206	Incl.	1.47875	+0.02087154				+0.39090244	
P	3.13	H	14.8	G	0.15				

Residuals in seconds of arc

710324	675	1.6-	0.6-	710327	675	0.5+	0.2-	770219	381	0.0	0.7+
710325	675	0.7+	0.2-	710402	675	0.3+	0.5+	770219	381	0.1-	0.1-
710325	675	1.9+	0.7+	770218	381	1.6+	0.7-				
710326	675	1.0-	0.4-	770218	381	1.0-	0.1-				

2190 T-1 = 3095 T-3

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	190.41172		(2000.0)			P		Q	
n	0.24200082	Peri.	72.88057	-0.32245135				-0.94531047	
a	2.5503013	Node	36.04952	+0.83365186				-0.30818085	
e	0.0886796	Incl.	4.78844	+0.44838565				-0.10683014	
P	4.07	H	14.7	G	0.15				

Residuals in seconds of arc

710324	675	1.9-	1.6-	710416	675	0.2+	0.4-	771017	675	0.4-	0.8+
710325	675	1.1-	0.8+	710416	675	1.7+	0.5+	771017	675	1.0-	1.1+
710325	675	0.1-	0.3+	771012	675	0.5+	0.5-	771021	675	0.1+	1.5+
710326	675	0.2-	1.3+	771012	675	2.2+	0.6-	771021	675	1.2-	2.1+
710327	675	0.8-	0.1+	771016	675	0.4+	0.4-	771022	675	0.9-	2.2-
710402	675	2.3+	0.8-	771016	675	0.1+	1.2-	771022	675	0.1+	0.6-

2213 T-1 = 1990 SZ25 = 3011 T-2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	190.91257		(2000.0)			P		Q	
n	0.17472764	Peri.	309.65051	+0.71027684				+0.70376889	
a	3.1688011	Node	5.67584	-0.59171260				+0.60823709	
e	0.0982761	Incl.	8.54907	-0.38129124				+0.36709262	
P	5.64	H	12.8	G	0.15				

Residuals in seconds of arc

710324	675	0.9-	0.9-	710416	675	0.4+	0.3-	730920	675	1.0-	0.5+
710325	675	0.0	0.1-	710513	675	1.1+	0.5+	730920	675	2.6+	1.8-
710325	675	1.8-	0.0	710514	675	0.7+	1.2-	730924	675	0.3+	2.1-
710326	675	0.6-	1.7-	730919	675	0.4-	2.2-	730924	675	0.7-	0.3+
710327	675	1.0-	0.2+	730919	675	0.1-	0.8+	730924	675	0.5-	0.6-
710402	675	0.4-	0.6-	730919	675	0.4-	1.0-	730924	675	1.0-	0.9+
710416	675	0.1-	0.4-	730919	675	0.2+	1.2+	730925	675	1.3-	0.7+

730925	675	0.1+	0.1-	731004	675	0.8+	0.1+	731005	675	0.6+	0.0
730925	675	0.4-	0.0	731004	675	0.1+	0.1+	731005	675	0.3-	0.2+
730925	675	0.5-	0.0	731004	675	1.9+	0.8-	900921	372	2.0+	1.3-
730929	675	0.6+	0.0	731004	675	0.6+	0.2-	900921	372	0.9-	0.6-
730930	675	0.0	0.3-	731005	675	0.4+	0.6+				
730930	675	0.2-	0.9+	731005	675	0.1+	0.5+				

2245 T-1 = 1992 RA6

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	325.16088		(2000.0)			P		Q			
n	0.25549071	Peri.	7.87706	+0.24115053				-0.96896374			
a	2.4597217	Node	68.18138	+0.88718219				+0.19739672			
e	0.1447815	Incl.	3.35723	+0.39338808				+0.14880794			
P	3.86	H	15.0	G	0.15						

Residuals in seconds of arc

710324	675	0.3+	1.9-	710327	675	1.0-	0.6-	920902	809	0.4-	0.4-
710325	675	0.1-	0.4+	710402	675	0.5+	0.2-	920903	809	0.1-	0.1-
710325	675	0.9+	1.3+	920902	809	1.1+	0.9+				
710326	675	0.5-	0.9+	920902	809	0.6-	0.5-				

2251 T-1 = 2250 T-2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	295.73904		(2000.0)			P		Q			
n	0.21086217	Peri.	107.06212	-0.55647765				-0.83066210			
a	2.7955693	Node	16.78849	+0.73625582				-0.50317480			
e	0.0406590	Incl.	3.62280	+0.38504545				-0.23836021			
P	4.67	H	14.7	G	0.15						

Residuals in seconds of arc

710324	675	1.9-	1.0+	710514	675	0.2-	1.8-	730929	675	0.7+	0.5+
710325	675	0.7+	1.2-	730919	675	2.2-	0.3+	730929	675	1.0-	1.0+
710325	675	1.8+	1.4-	730919	675	0.8-	0.1+	730930	675	1.4+	1.0-
710326	675	(4.5-	1.0+)	730920	675	0.2-	0.9-	730930	675	0.6+	2.4-
710327	675	0.9-	0.4+	730924	675	0.4+	0.8+	731004	675	0.9-	0.7+
710416	675	1.2-	0.0	730924	675	0.6+	0.6+	731004	675	0.1-	1.0+
710416	675	0.4+	1.2-	730925	675	0.5+	1.4-	731005	675	0.7+	1.0-
710513	675	0.9-	0.2+	730925	675	0.5+	1.4-	731005	675	1.5+	0.9-

2289 T-1 = 1976 JM8 = 3348 T-2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	306.00833		(2000.0)			P		Q			
n	0.21335986	Peri.	107.22594	-0.61147759				-0.78918266			
a	2.7737090	Node	20.79339	+0.65069522				-0.54274774			
e	0.1021943	Incl.	9.29239	+0.45021205				-0.28742934			
P	4.62	H	13.9	G	0.15						

Residuals in seconds of arc

710324	675	2.3-	1.0-	710416	675	2.5+	0.4+	730920	675	0.1-	0.5+
710325	675	1.5-	0.5+	710416	675	0.4-	0.7-	730924	675	0.2-	0.8-
710325	675	1.0-	0.4+	710513	675	0.2+	0.9-	730924	675	0.2-	0.2+
710326	675	0.7-	0.3-	710514	675	1.6+	1.1-	730925	675	2.1+	2.1-
710327	675	1.8-	0.4-	730919	675	0.2-	0.2+	730925	675	1.4+	2.3-
710402	675	1.6+	1.2-	730919	675	0.5-	0.5+	760502	809	0.2+	0.5+

3099 T-1 = 1992 RX2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Marsden

M	315.65766		(2000.0)			P		Q			
n	0.29873293	Peri.	102.20831	+0.19285381				-0.98049681			
a	2.2162257	Node	336.56920	+0.85918396				+0.18737753			
e	0.1096122	Incl.	5.46354	+0.47393073				+0.05929300			
P	3.30	H	14.5	G	0.15						

## Residuals in seconds of arc

710325	675	1.9+	0.0	710416	675	(0.7+	2.8-)	920902	809	0.5-	0.3-
710326	675	0.2-	1.1-	710513	675	0.5-	0.6-	920903	809	0.3-	0.3+
710326	675	0.2-	0.6+	710514	675	0.0	0.6-	920920	399	0.9-	1.6+
710327	675	0.7-	2.0+	920902	809	0.9+	0.1+	920920	399	0.2+	1.5-
710416	675	(0.1+	4.1-)	920902	809	0.3+	0.3+				

3297 T-1 = 1203 T-2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	341.44126		(2000.0)			P		Q			
n	0.17969139	Peri.	24.56305	-0.91508224				+0.40326697			
a	3.1101729	Node	179.21902	-0.37569551				-0.85207382			
e	0.1321642	Incl.	2.06580	-0.14655159				-0.33368541			
P	5.49	H	13.3	G	0.15						

## Residuals in seconds of arc

710324	675	1.7+	1.7-	710514	675	0.2+	0.8+	730929	675	0.6+	0.5-
710325	675	0.5-	1.5-	710516	675	1.0+	0.2+	730929	675	0.8+	1.6-
710326	675	0.7+	2.1-	730919	675	1.8-	0.2+	730930	675	0.6-	0.7-
710326	675	0.8+	2.5-	730919	675	0.9-	0.3+	730930	675	0.3-	0.0
710327	675	1.0-	1.7-	730920	675	0.5+	0.2+	731004	675	1.4+	0.2+
710402	675	2.0-	0.6+	730924	675	1.9+	1.9-	731004	675	0.4+	1.4+
710416	675	0.5-	0.1-	730924	675	1.1+	0.8-	731005	675	1.4+	1.1-
710416	675	0.0	1.2+	730925	675	1.6-	1.9-	731005	675	1.9+	0.5+
710513	675	0.5-	1.1+	730925	675	0.8-	0.3+				

4393 T-1 = 3216 T-2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	333.04819		(2000.0)			P		Q			
n	0.17892284	Peri.	105.73011	-0.89618563				+0.44170165			
a	3.1190729	Node	100.49782	-0.42162336				-0.81847264			
e	0.1262986	Incl.	2.43907	-0.13814871				-0.36742644			
P	5.51	H	13.8	G	0.15						

## Residuals in seconds of arc

710324	675	0.8+	0.9-	730919	675	1.3-	2.4+	730929	675	0.5+	0.3+
710326	675	0.2-	0.8+	730920	675	0.2-	0.4-	730929	675	0.3+	2.1-
710326	675	0.9-	1.4+	730924	675	1.4-	1.1-	730930	675	2.4+	0.8-
710327	675	3.2+	1.3-	730924	675	0.2+	1.8+	730930	675	1.6+	1.9-
710402	675	0.3-	0.7+	730924	675	0.2-	1.3+	731004	675	0.4-	0.8-
710416	675	1.3-	0.4-	730924	675	1.1-	0.9+	731004	675	0.3+	0.7-
710416	675	1.4-	0.4-	730925	675	0.4-	1.5-	731005	675	1.0+	0.8+
730919	675	2.1-	2.4+	730925	675	0.9+	1.4-	731005	675	0.5+	0.8+

4843 T-1 = 3199 T-2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	313.08065		(2000.0)			P		Q			
n	0.17665098	Peri.	171.44630	-0.88671489				+0.45837726			
a	3.1457583	Node	36.03337	-0.42999420				-0.76984103			
e	0.1298506	Incl.	5.87612	-0.16982843				-0.44411156			
P	5.58	H	14.4	G	0.15						

## Residuals in seconds of arc

710416	675	0.2-	0.3-	730920	675	0.7-	1.3+	730930	675	0.7-	0.5-
710416	675	1.5-	0.7-	730925	675	0.4+	1.4-	731004	675	0.0	0.7-
710513	675	0.1+	1.3+	730925	675	0.5+	0.7+	731004	675	1.9+	2.9-
710514	675	0.0	0.5-	730929	675	1.0+	0.5+	731005	675	2.1-	1.2+
710516	675	0.8+	0.1-	730930	675	1.3-	0.4-	731005	675	0.8+	1.0+

1282 T-2 = 1992 RC2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Marsden

M	0.44691		(2000.0)		P		Q
n	0.20547528	Peri.	121.72123	+0.97212223			-0.23369534
a	2.8442188	Node	251.79945	+0.20774982			+0.89622948
e	0.0810498	Incl.	1.15214	+0.10871238			+0.37704007
P	4.80	H	14.0	G	0.15		

Residuals in seconds of arc

730919	675	1.2+	0.6-	730925	675	0.0	1.9-	731004	675	0.3+	0.9-
730919	675	0.4+	1.3+	730925	675	0.9-	0.2+	731005	675	0.2-	0.9-
730919	675	0.5-	0.2-	730929	675	0.4+	1.1+	731005	675	0.7-	0.2-
730919	675	0.9+	1.2+	730929	675	0.1-	0.7+	920902	809	0.8+	0.3+
730920	675	1.3-	1.6-	730930	675	0.8+	2.1+	920902	809	0.2+	0.1+
730924	675	1.3-	0.6-	730930	675	0.9+	0.8+	920902	809	0.5-	0.1+
730924	675	0.2-	0.5+	731004	675	0.3+	0.9-	920903	809	0.4-	0.6-

2319 T-2 = 1986 WC4 = 1992 OM1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Kobayashi

M	40.61045		(2000.0)		P		Q
n	0.30760107	Peri.	109.41037	+0.83596426			+0.54826081
a	2.1734225	Node	217.35263	-0.51715143			+0.77242194
e	0.1332376	Incl.	2.26277	-0.18362502			+0.32058450
P	3.20	H	15.5	G	0.15		

Residuals in seconds of arc

730929	675	0.4-	0.7+	731005	675	0.2+	0.1+	920725	010	0.5-	0.3-
730929	675	0.0	2.9+	731005	675	0.5+	0.8-	920725	010	0.8-	0.3-
730930	675	1.0-	0.2-	861125	010	1.9-	0.7-	920725	010	1.2-	0.4+
730930	675	1.0-	1.4-	861125	010	2.1+	0.8+	920726	010	0.9+	0.1-
731004	675	1.2+	1.1-	861125	010	1.6-	0.4-	920726	010	0.6+	0.7-
731004	675	0.5+	0.3-	861125	010	1.3+	0.4+	920726	010	0.7+	0.7+

3060 T-2 = 3317 T-3

Id. D. W. E. Green (MPC 14967)

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

Williams

M	257.99611		(2000.0)		P		Q
n	0.25831144	Peri.	65.22887	-0.73152862			-0.68004079
a	2.4417824	Node	71.88274	+0.60540991			-0.68099053
e	0.1560742	Incl.	2.96103	+0.31359962			-0.27165495
P	3.82	H	14.5	G	0.15		

Residuals in seconds of arc

730919	675	1.4+	1.1+	731005	675	1.5+	2.0-	771016	675	0.3-	0.2+
730919	675	0.2-	0.1+	731005	675	1.1+	0.2+	771016	675	0.9-	0.2-
730920	675	0.1+	0.3+	771007	675	0.6-	1.7-	771016	675	0.2+	0.9+
730924	675	0.7-	0.1+	771007	675	(0.6+	3.0-)	771017	675	0.8-	0.6-
730924	675	0.6+	1.4-	771011	675	(2.1-	1.5+)	771017	675	0.9-	0.2+
730925	675	0.7+	2.0-	771011	675	1.6+	0.5+	811025	675	1.7-	0.5+
730925	675	(1.0+	2.7-)	771011	675	1.8-	1.8+	811026	675	1.0+	1.3+
730929	675	0.0	0.7+	771011	675	1.4+	1.6+	920902	809	0.3+	0.3-
730929	675	0.4-	0.4-	771012	675	1.5+	0.7-	920902	809	0.8-	0.5+
730930	675	1.6-	1.7-	771012	675	0.2+	1.6-	920902	809	0.5-	0.3+
730930	675	0.9-	0.5+	771012	675	1.3+	1.7-	920903	809	0.0	1.7+
731004	675	0.5-	1.8+	771012	675	0.2+	1.2-				
731004	675	0.6-	1.6+	771016	675	0.1-	0.0				

3295 T-2 = 1992 RT2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	35.51616		(2000.0)		P		Williams	Q	
n	0.25793132	Peri.	179.73239			+0.93998352		+0.33887538	
a	2.4441808	Node	160.31454			-0.31328290		+0.90346875	
e	0.1413186	Incl.	6.80779			-0.13522131		+0.26250274	
P	3.82	H	15.0		G	0.15			

Residuals in seconds of arc

730919	675	0.7-	0.5-	730929	675	1.3+	1.3-	731005	675	0.7-	1.7+
730919	675	0.3+	0.7+	730930	675	(1.0-	3.4-)	731005	675	1.3-	0.8-
730920	675	1.3-	0.6-	730930	675	0.0	0.8+	731005	675	0.9+	1.0+
730924	675	0.7+	0.6+	730930	675	1.9-	2.2-	920902	809	0.3+	0.1-
730924	675	0.9+	0.1+	730930	675	1.1+	0.3+	920902	809	0.2+	0.0
730925	675	0.0	0.4+	731004	675	1.4-	0.6-	920902	809	1.0-	0.8-
730925	675	0.5+	1.8+	731004	675	1.3+	0.2+	920903	809	0.1+	0.6-
730929	675	1.3-	0.0	731004	675	0.3-	0.3-	920928	691	1.3+	0.5+
730929	675	2.6+	0.8-	731004	675	1.9+	0.1+	920928	691	0.3-	1.0+
730929	675	2.3-	0.5-	731005	675	0.1-	0.6-	920928	691	0.6-	0.8+

3327 T-2 = 1979 WV1 = 1991 YD1

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	104.97878		(2000.0)		P		Kobayashi	Q	
n	0.17234660	Peri.	321.06856			+0.73559381		-0.67516482	
a	3.1979198	Node	81.49183			+0.63465546		+0.65832917	
e	0.1747890	Incl.	3.20334			+0.23688434		+0.33279899	
P	5.72	H	13.1		G	0.15			

Residuals in seconds of arc

730919	675	0.5+	0.9+	730924	675	0.2-	0.4+	911228	033	0.0	1.6-
730919	675	1.1-	0.4+	730925	675	1.1+	1.5-	920102	033	0.0	0.4-
730920	675	0.3-	0.6+	730925	675	0.6+	1.4-	920103	033	0.6-	0.8-
730924	675	0.3+	0.8+	791116	095	0.1+	0.4+				

4262 T-2 = 1989 TW8

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	130.22972		(2000.0)		P		Kobayashi	Q	
n	0.30972985	Peri.	167.86227			-0.40810964		+0.91097221	
a	2.1634524	Node	78.02744			-0.84262939		-0.35066538	
e	0.1336612	Incl.	3.50472			-0.35131501		-0.21717143	
P	3.18	H	15.9		G	0.15			

Residuals in seconds of arc

730924	675	0.2-	0.1-	731004	675	2.4+	0.2-	891003	809	0.5+	0.2+
730929	675	1.6-	0.7-	731004	675	1.9+	0.2-	891003	809	0.5+	2.6+
730929	675	0.9+	0.8+	731005	675	0.4-	0.1+	891008	809	0.0	1.3-
730930	675	2.6-	1.3-	731005	675	0.9+	0.4+	891008	809	0.5-	1.3-
730930	675	1.1-	0.6+	891003	809	0.1-	1.4+	891008	809	0.6-	1.0-

4311 T-2 = 1990 RS15

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M	343.19658		(2000.0)		P		Kobayashi	Q	
n	0.28957475	Peri.	115.29115			-0.26673831		+0.96294192	
a	2.2627101	Node	139.17300			-0.90474879		-0.23591668	
e	0.0975604	Incl.	3.50061			-0.33208479		-0.13071411	
P	3.40	H	15.6		G	0.15			

Residuals in seconds of arc

730929	675	0.0	1.5-	731004	675	0.0	1.0+	900915	809	2.0-	1.2-
730929	675	0.8+	2.0-	731005	675	0.1-	0.7+	900925	809	0.1+	0.0
730930	675	0.8+	0.9+	731005	675	0.6-	0.5-	900925	809	0.5+	0.2+
730930	675	0.5+	0.4+	900915	809	0.6+	1.2+	900925	809	0.1-	0.5-
731004	675	1.3-	0.6+	900915	809	0.7+	0.7+				



1144 T-3 = 1992 RD4

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 320.69628

(2000.0)

P

Marsden

Q

n	0.19212606	Peri.	78.04152	+0.56785186	-0.82103209
a	2.9744856	Node	337.05427	+0.68436578	+0.51057159
e	0.0610868	Incl.	8.66599	+0.45737047	+0.25538787
P	5.13	H	14.0	G	0.15

Residuals in seconds of arc

771011	675	1.0+	0.2+	771016	675	0.5-	1.2+	920902	809	1.2+	0.1+
771011	675	1.1+	0.1+	771017	675	1.0-	0.9-	920902	809	0.1-	0.2-
771012	675	0.6+	0.0	771017	675	1.1-	0.1+	920902	809	0.1+	0.1-
771012	675	1.1+	0.6+	771022	675	0.6-	0.2+	920903	809	1.1-	0.3+
771016	675	2.0-	0.8+	771022	675	1.5+	2.2-				

1148 T-3 = 1991 RX27

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 112.58423

(2000.0)

P

Kobayashi

Q

n	0.21118699	Peri.	80.09957	+0.98744419	+0.11589437
a	2.7927020	Node	273.18782	-0.14966300	+0.90378902
e	0.2441430	Incl.	6.17175	+0.05054654	+0.41198774
P	4.67	H	13.8	G	0.15

Residuals in seconds of arc

771007	675	0.4+	1.2-	771017	675	0.2-	0.8+	910914	675	0.8+	0.3+
771011	675	1.0+	0.2+	771017	675	0.7-	0.4+	910916	675	0.1-	1.1-
771011	675	0.6+	0.5+	771022	675	0.0	1.0-	910916	675	0.4-	0.9-
771012	675	0.1-	0.2+	771022	675	1.0+	0.5-	910917	675	1.1+	0.0
771012	675	0.5-	0.6+	910912	675	0.1-	0.7+	910917	675	0.2-	0.0
771016	675	0.9-	0.5-	910912	675	1.3-	0.1+				
771016	675	0.7-	0.8+	910914	675	0.2+	0.7+				

3175 T-3 = 1992 SG10

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 14.81870

(2000.0)

P

Williams

Q

n	0.19512434	Peri.	347.88023	+0.97486054	-0.22222386
a	2.9439363	Node	24.97739	+0.20750582	+0.87892618
e	0.0648969	Incl.	2.20303	+0.08116805	+0.42202526
P	5.05	H	15.0	G	0.15

Residuals in seconds of arc

771007	675	0.3-	0.1+	771017	675	0.3-	0.8+	920927	691	0.8+	0.4-
771011	675	1.9-	0.5-	771017	675	1.6-	0.6+	920927	691	1.7-	0.3-
771011	675	0.1-	0.5-	771021	675	0.1-	0.9+	921002	691	0.3+	0.2+
771012	675	0.5-	0.7+	771021	675	0.1+	0.7+	921002	691	0.2+	0.6+
771012	675	1.5+	0.4-	771022	675	1.1-	0.4+	921002	691	0.1+	0.3+
771016	675	1.5+	0.5-	771022	675	1.3+	1.8-				
771016	675	1.4+	0.6-	920927	691	0.3+	0.3-				

3196 T-3 = 1992 SL2

Epoch 1993 Jan. 13.0 TT = JDT 2449000.5

M 69.39934

(2000.0)

P

Marsden

Q

n	0.26123023	Peri.	225.31149	+0.58682045	+0.80871077
a	2.4235599	Node	80.66176	-0.73085581	+0.55046424
e	0.1873009	Incl.	2.34397	-0.34855639	+0.20730656
P	3.77	H	15.0	G	0.15

Residuals in seconds of arc

771007	675	2.6+	1.8-	771012	675	0.6-	0.0	771017	675	0.8-	1.0-
771011	675	2.6-	1.3+	771016	675	0.9+	0.1+	771021	675	0.4-	0.2+
771011	675	0.7-	1.2+	771016	675	1.2+	0.1-	771021	675	0.2+	1.6+
771012	675	1.2-	0.6-	771017	675	0.5+	0.4-	771022	675	0.9+	0.1+

771022	675	0.1+	0.8-	920923	033	0.8+	0.2-	920927	033	0.6-	0.4+
920921	033	0.9+	1.4-	920924	033	0.7+	0.1-	920928	033	0.9-	0.1+
920922	033	0.5-	1.0+	920926	033	0.5-	0.5+				

\* \* \* \* \*

#### NEW NAMES OF MINOR PLANETS.

(1970) Sumeria = 1954 ER

Discovered 1954 Mar. 12 by M. Itzigsohn at La Plata.

Named in honor of one of the oldest known civilizations, located in the southernmost part of Mesopotamia between the Tigris and Euphrates rivers. It was first settled between 4500 to 4000 B.C., probably shortly after JD 0, by Ubaidans. The Sumerians themselves arrived around 3300 B.C. and lost their separate identity around 1900 B.C. when conquered by the Amorites. The Sumerians contributed many technological and cultural innovations, among them the first wheeled vehicles and potter's wheels, the first system of writing, the first written codes of law, and the first city-state. Named by the Minor Planet Names Committee following a suggestion by F. Pilcher.

(2025) Nortia = 1953 LG

Discovered 1953 June 6 by J. Churms at the Union Observatory, Johannesburg.

Nortia was the Etruscan goddess of fortune who was worshipped at Volsinii. Each year a nail was driven into the wall of her temple, for the purpose of counting the years. Named by the Minor Planet Names Committee following a suggestion by F. Pilcher.

(2103) Laverna = 1960 FL

Discovered 1960 Mar. 20 at La Plata.

Laverna was the protecting divinity of thieves and imposters. Her name was probably connected with the Latin word levator, meaning thief. Named by the Minor Planet Names Committee following a suggestion by F. Pilcher.

(2150) Nyctimene = 1977 TA

Discovered 1977 Oct. 13 by W. Sebok at Palomar.

Nyctimene was a daughter of Epopeus, King of Lesbos. Pursued and raped by her father, she concealed herself in the shade of forests. Athena rescued her there by metamorphosing her into an owl. Named by the Minor Planet Names Committee following a suggestion by F. Pilcher.

(2241) Alcathous = 1979 WM

Discovered 1979 Nov. 22 by C. T. Kowal at Palomar.

Alcathous proved himself the noblest suitor in all of Troy by marrying Hippodamia, eldest and dearest daughter of Anchises, who excelled all other girls of her age in beauty, skill and wit. As the Trojans achieved their greatest advance toward the Greek ships, Alcathous, previously uninjured in the Trojan War, was struck by Poseidon with blindness and paralysis. In this hapless state he was killed easily by a spear thrown by Idomeneus. Named by the Minor Planet Names Committee following a suggestion by F. Pilcher.

(2429) Schurer = 1977 TZ

Discovered 1977 Oct. 12 by P. Wild at Zimmerwald.

Named in honor of Max Schurer (1910- ), who from 1947 to 1980 was director of the Astronomical Institute of the University of Berne. The existence of the observatory at Zimmerwald is due to his initiative,

endurance and great technical competence. As a pupil of S. Mauderli he did much numerical work on the orbits of minor planets. Then he dealt with stellar dynamics and finally got deeply involved as a pioneer in satellite geodesy. His courses had broad scope and great clarity, and they inspired many young physicists to have a lasting interest in astronomical problems.

(2481) Burgi = 1977 UQ

Discovered 1977 Oct. 18 by P. Wild at Zimmerwald.

Named for Jost Burgi (1552-1632) of Lichtensteig in the Toggenburg valley, who won European fame as a highly skilled maker of precious instruments for astronomy and geometry. As a practical mathematician, he also devised and used refined new methods. Initially in the service of the landgraves Wilhelm and Moritz at Kassel, he later served the emperors Rudolf and Mathias in Prague, where he became a good friend and helper to Kepler. Burgi on his own invented logarithms, but being slow (or even loath) to publish his system, he lost the priority to John Napier.

(2565) Grogler = 1977 TB1

Discovered 1977 Oct. 12 by P. Wild at Zimmerwald.

Named in memory of Norbert Groegler (1928-1983), mineralogist and planetologist who made significant contributions in meteorite research and in the analysis of lunar samples. After graduating from the University of Vienna he followed the invitation of F. G. Houtermans to join an interdisciplinary team of space physicists and planetologists at the University of Berne. He developed sophisticated methods for the quantitative separation of minerals from meteorites and lunar samples and made several significant discoveries on the mineralogy and petrography of meteorites and lunar rocks. He also had strong interests in archaeology and made relevant scientific contributions investigating thermoluminescence of ancient pottery.

(2868) Upupa = 1972 UA

Discovered 1972 Oct. 30 by P. Wild at Zimmerwald.

Named for a European nonpasserine bird of the family upupidae, or hoopie, this is a cousin of (2731) Cucula, a rare bird of somewhat peculiar habit and habits.

(2914) Glarnisch = 1965 SB

Discovered 1965 Sept. 19 by P. Wild at Zimmerwald.

Named for the most prominent mountain chain near the discoverer's home town of Glarus. Its highest summit is 2914 meters above sea level. In 1926 the famous astronomer Fritz Zwicky and one of his friends (the later Nobel laureate in chemistry, Thadeus Reichstein) became the first to climb the upper half of its north wall.

(2970) Pestalozzi = 1978 UC

Discovered 1978 Oct. 27 by P. Wild at Zimmerwald.

Named for Johann Heinrich Pestalozzi (1746-1827), Swiss educator of worldwide influence. Inspired by the ideas of J.-J. Rousseau, he worked unremittingly for better education and schooling of the children of the poor. Some of his highly unselfish actions failed at the time, but in the long term his way of thinking succeeded. Even today people use his name as a hallmark for true altruism.

(3021) Lucubratio = 1967 CB

Discovered 1967 Feb. 6 by P. Wild at Zimmerwald.

The original meaning of this Latin word is "night work" (from lucubrum, meaning candle). Then it seems to have been extended to any laboriously

earned study to overlabored work--and even to idle talk. In spite of this pejorative development the discoverer hopes that this naming will be welcomed by astronomical observers and theorists alike.

(3026) Sarastro = 1977 TA1

Discovered 1977 Oct. 12 by P. Wild at Zimmerwald.

Named for the lord or high priest in the Temple of Wisdom, a leading figure in Mozart's opera "Die Zauberflote".

(3060) Delcano = 1982 RD1

Discovered 1982 Sept. 12 by P. Wild at Zimmerwald.

Named in memory of Juan Sebastian del Cano, the first to circumnavigate the globe. While Magellan is usually credited as being the first, this is true only by virtue of splicing his first voyage eastward from Europe to the Philippines with his second one westward to those islands where he was killed. The first true continuous circumnavigation was the heroic voyage of Juan del Cano, a young lieutenant of Magellan, who in command of the only remaining ship of the five that had begun the westward voyage navigated it safely for about 30 000 additional kilometers, returning home with his fellow 30 or so survivors more than three years after leaving home. Of astronomical interest is the fact that his log failed to tally by one day with the calendar of those who had not made the voyage--demonstrating the need for an international date line or its equivalent. Name proposed and citation written by the late Harlan J. Smith.

(3386) Klementinum = 1980 FA

Discovered 1980 Mar. 16 by L. Brozek at Klet.

Named for the Jesuit college of St. Clemens in the Old Town of Prague. At the beginning of the eighteenth century a mathematical museum and astronomical observatory were established there, the observation tower being completed in 1722. Klementinum was long an important center for astronomical, meteorological and geophysical research and measurements. Now it contains the national and university libraries.

(3394) Banno = 1986 DB

Discovered 1986 Feb. 16 by S. Inoda and T. Urata at Karasuyama.

Named in memory of Yoshiaki Banno (1952-1991), a coworker of the discoverers and a computer engineer at the National Laboratory for High-Energy Physics in Tsukuba city. A discoverer of (4200) Shizukagozen, he was one of the pioneers among Japanese amateur astronomers in the use of electronic computers for orbital calculations. He was tragically killed in a traffic accident on his way home from the laboratory.

(3446) Combes = 1942 EB

Discovered 1942 Mar. 12 by K. Reinmuth at Heidelberg.

Named in honor of the French amateur astronomer Michael-Alain Combes (1942- ), who for many years has been interested in minor planets, especially the near-earth asteroids and their discovery circumstances. He writes a regular column about minor planets in the French periodical "L'Astronomie", and he contributed to the "Dictionary of Minor Planet Names" by L. D. Schmadel, who found the identification involving this planet and who proposed the name. Citation prepared by J. Meeus.

(3544) Borodino = 1977 RD4

Discovered 1977 Sept. 7 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named for a village not far from Moscow where there was a fierce battle between the Russians and Napoleon's troops in 1812.

(3916) Maeva = 1981 QA3

Discovered 1981 Aug. 24 by H. Debehogne at the European Southern Observatory.

Named in memory of Maeva d'Alloy d'Hocquincourt Vitry, who died tragically on 1992 June 7 at the age of seven. Niece of ESO staff astronomer Patrice Bouchet Vitry, this extraordinary open-hearted little girl was fond of nature, flowers and beauties of the universe, and she showed every promise of becoming an astronomer herself.

(4172) Rochefort = 1982 FC3

Discovered 1982 Mar. 20 by H. Debehogne at the European Southern Observatory.

Named for a small town in the province of Namur in southern Belgium.

(4421) Kayor = 1942 AC

Discovered 1942 Jan. 14 by K. Reinmuth at Heidelberg.

Named by G. V. Williams in honor of his parents, Kay and Roy, for their support over the years. This minor planet was discovered on the same day that the former Miss Merriman was born.

(4474) Proust = 1981 QZ2

Discovered 1981 Aug. 24 by H. Debehogne at the European Southern Observatory.

Named in honor of Dominique Proust, astrophysicist at the Meudon Observatory who works on observational cosmology. By means of extensive spectroscopic observations he has carried out dynamical studies of clusters of galaxies, large-scale structures and high-redshift objects. He is also a church and concert organist, whose public and broadcast performances include the compositions of astronomer-musicians such as Galileo and Herschel. The name of this minor planet also honors the French writer Marcel Proust.

(4613) Mamoru = 1990 OM

Discovered 1990 July 22 by K. Watanabe at Sapporo.

Named in honor of Mamoru Mohri (1948- ), a professor in the department of technology at Hokkaido University and the first payload specialist of the Japanese National Space Development Agency to travel into space. After lifting off in the space shuttle Endeavor on 1992 Sept. 12 he successfully performed 34 experiments ("Fuwatto '92") and lectured from space to Japanese school children.

(4631) Yabu = 1987 WE1

Discovered 1987 Nov. 22 by S. Ueda and H. Kaneda at Kushiro.

Named in honor of Yasuo Yabu (1932- ), long-standing meteor observer, vice-president of the Nippon Meteor Society and editor of its Astronomical Circular since 1969. Name suggested by K. Watanabe. Citation prepared by I. Hasegawa.

(4672) Takuboku = 1988 HB

Discovered 1988 Apr. 17 by S. Ueda and H. Kaneda at Kushiro.

Named in honor of the poet Takuboku Ishikawa (1886-1912), who lived in the late Meiji period in Japan. He published his first collection of poems, "Akogale", when he was 20. His most famous work is "Ichiakunosuna", containing 551 poems, published in 1910.

(4714) Toyohiro = 1989 SH

Discovered 1989 Sept. 29 by T. Fujii and K. Watanabe at Kitami.

Named in honor of the journalist Toyohiro Akiyama (1942- ), the first Japanese citizen to travel into space. He lifted off on 1990 Dec. 1

in Soyuz to travel to the space station Mir, and he described the effect of environmental disruption on Earth from space and the effects of weightlessness and space sickness.

(4719) Burnaby = 1990 WT2

Discovered 1990 Nov. 21 by S. Ueda and H. Kaneda at Kushiro.

Named for the city in British Columbia, Canada, with a population of 150 000. Burnaby and Kushiro, which are at almost the same latitude, have been sister cities since 1965 and exchange students and share cultural experiences with each other.

(4743) Kikuchi = 1988 DA

Discovered 1988 Feb. 16 by T. Fujii and K. Watanabe at Kitami.

Named in honor of Ryoko Kikuchi (1964- ), who was backup to the first Japanese astronaut, Toyohiro Akiyama, and helped to report details of environmental disruption.

(4746) Doi = 1989 TP1

Discovered 1989 Oct. 9 by A. Takahashi and K. Watanabe at Kitami.

Named in honor of Takao Doi (1954- ), a backup payload specialist to Mamoru Mohri. He has worked in the department of technology of the University of Tokyo and at the NASA Lewis Research Center.

(4748) Tokiwagozen = 1989 WV

Discovered 1989 Nov. 20 by K. Suzuki and T. Urata at Toyota.

Named for Tokiwagozen (1138-?), beautiful mother of Yoshitsune. She was captured by the Heike at the battle of Heiji in 1159 and was later in favor with Kiyomori.

(4750) Mukai = 1990 XC1

Discovered 1990 Dec. 15 by T. Fujii and K. Watanabe at Kitami.

Named in honor of Chiaki Mukai (1952- ), a backup payload specialist to Mamoru Mohri. She has worked in the medical department of Keio University.

(4896) Tomoegozen = 1986 YA

Discovered 1986 Dec. 20 by T. Niijima and T. Urata at Ojima.

Named for Tomoegozen, mistress of Yoshinaka, known as a brave strategist on Yoshinaka's staff. After his death, Tomoegozen became a Buddhist nun. This planet was discovered on the same films as (4574) Yoshinaka.

(4945) Ikenozenni = 1987 SJ

Discovered 1987 Sept. 18 by K. Suzuki and T. Urata at Toyota.

Named for Ikenozenni, the second wife of (4374) Tadamori. She asked (4375) Kiyomori to spare the life of (3902) Yoritomo, who had come to destroy the Heike, family of Kiyomori.

(4959) Niinoama = 1991 PA1

Discovered 1991 Aug. 15 by A. Natori and T. Urata at the JCPM

Yakiimo Station.

Named for Tokiko (?-1185), wife of (4375) Kiyomori. She is called Niinoama because she took the rank of secondary-nii after Kiyomori's death. After the battle of Dannoura, she drowned herself holding the 7-year-old Emperor Antoku in her arms.

(4973) Showa = 1990 FT

Discovered 1990 Mar. 18 by K. Endate and K. Watanabe at Kitami.

Named for an industrial-pump company that started the production of astronomical telescopes in 1988. The first discoverer uses a Showa equatorial telescope for his observations of minor planets.

(5161) Wightman = 1980 TX3

Discovered 1980 Oct. 9 by C. S. Shoemaker on films taken by S. J. Bus at Palomar.

Named in honor of Kingsley W. Wightman, loved and respected teacher of astronomy, who inspired generations of students, teachers and the lay public at the Chabot Science Center in Oakland, California. He served as director of the Center from 1976 to 1986 and played a major role in securing its future. Name and citation provided by the Eastbay Astronomical Society at the request of the discoverer.

(5181) SURF = 1989 GO

Discovered 1989 Apr. 7 by E. F. Helin at Palomar.

Named to honor Caltech's Summer Undergraduate Research Fellowship (SURF) program, which was begun in 1979 by professor of chemical engineering, Frederick H. Shair. The purpose of SURF is to encourage collegial interaction between a research sponsor--Caltech faculty and JPL technical staff--and undergraduate students around a research problem of mutual interest. This tribute pays special note to those SURF students who have participated in asteroid discovery and physical observation programs at JPL. The SURF program offers a hands-on learning experience for the students and a mentor-challenging role for the research sponsors.

(5188) Paine = 1990 TZ2

Discovered 1990 Oct. 15 by E. F. Helin at Palomar.

Named in memory of Thomas O. Paine, administrator of NASA from 1968 to 1970. He led the American space agency to its greatest achievement--the Apollo 11 mission, in which humans first walked on the moon. During his tenure at NASA, Paine laid the groundwork for the Apollo-Soyuz test project, which marked the first joint flight of American and Soviet space travelers. In 1985 he was called again to serve the space program as chairman of the National Commission of Space, where he laid out his vision of humanity's future as a spacefaring species. Tom Paine's most enduring contribution may be the inspiration he has provided that will take humans beyond the moon to the frontier of Mars. Citation prepared by Charlene Anderson of The Planetary Society.

(5204) Herakleitos = 1988 CN2

Discovered 1988 Feb. 11 by E. W. Elst at the European Southern Observatory.

Named for the Greek philosopher Herakleitos (540-480 B.C.) of Ephesus. By means of his metaphoric clash ("life and death are the same so opponents that become metaphorical are identified with each other") he constructed and visualized relations of a higher conceptual order. He was thereby able to give a unique and decisive contribution to the history of thought. He is well known for his sayings such as "no one can step twice into the same river" and his famous "panta rhei" (everything changes).

(5213) Takahashi = 1990 FU

Discovered 1990 Mar. 18 by K. Endate and K. Watanabe at Kitami.

Named in honor of Kiichiro Takahashi (1922- ), whose father founded the company Takahashi Seisakujo in 1932, and who started the production of astronomical telescopes in 1967. Many Japanese amateur astronomers have discovered minor planets using telescopes made by the company.

(5237) Yoshikawa = 1990 UF3

Discovered 1990 Oct. 26 by T. Urata at the Oohira Station of the Nihondaira Observatory.

Named in honor of Katsunori Yoshikawa (1942- ), owner of the land on which the Nihondaira Observatory stands. He and his family appreciate the discoverer's surveys for minor planets and protect the observatory, which is located in one of the green-tea producing areas in Japan.

(5242) Kenreimon = 1991 BO

Discovered 1991 Jan. 18 by S. Inoda and T. Urata at the Karasuyama Astronomical Observatory.

Named for Tokuko Kenreimon-in (1155-1213), daughter of Kiyorami and mother of Emperor Antoku. She was rescued from drowning after the battle of Dannoura in 1185.

(5254) Ulysses = 1986 VG1

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

Named for the Latin form of Odysseus, hero of Homer's Iliad and Odyssey. In the Iliad Ulysses is characterised by intelligence, experience (as a builder of machines) and endurance. He caused the chief commander Agamemnon to be restored and rallied the disaffected Greeks. The killing of the Trojan Dolon by Ulysses (which means "giver of pain") and Diomedes was a tragic episode. Ulysses invented the stratagem of the wooden horse, and it was first mentioned in the Odyssey, his journey of more than nine years after the battle of Troy. The pleasant episode of Ulysses and Nausikaa at Scheria has inspired many writers and composers. In James Joyce's famous novel "Ulysses" the man of hostility becomes a man of peace.

(5256) Farquhar = 1988 NN

Discovered 1988 July 11 by E. F. Helin, C. Mikolajczak and R. Coker at Palomar.

Named in honor of Robert Farquhar, who has been active in the design of spacecraft and missions for low-cost solar system exploration. His work has been carried out at the Goddard Space Flight Center and NASA Headquarters (1970-1990) and more recently at John Hopkins University Applied Physics Laboratory. Of particular interest are his efforts to utilize international cooperation and innovative trajectory design to plan missions to comets and minor planets. He was instrumental in designing and bringing to fruition the retargeting of the third International Sun Earth Explorer spacecraft to fly through the tail of periodic comet Giacobini-Zinner in September 1985 thus allowing the first in situ measurements of cometary phenomena. Name endorsed heartily by D. K. Yeomans, who also contributed to the preparation of the citation.

(5261) Eureka = 1990 MB

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

Named for Eureka, an expression of joy after making a discovery. According to a story that is probably apocryphal, Hiero II asked the Greek physicist Archimedes (287-212 B.C.) to judge whether a crown contained pure gold or gold mixed with silver. After some consternation he found the answer while taking a bath: the weight of the crown in and out of water would allow the density to be determined, and hence the proportions of silver and gold. Thus Archimedes' principle was born, that a solid body surrounded by liquid is supported by a force equal to the weight of the liquid displaced. Archimedes was so thrilled by the revelation that he leaped out of the bath and dashed down the street, presumably still nude and shouting "Eureka! Eureka!" (I have found it!)



(5337) Aoki = 1991 LD

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

Named in memory of Masahiro Aoki (1920-1984), amateur astronomer and director of the variable-star section of the Oriental Astronomical Association during 1969-1984. He contributed to the popularization of astronomy and to the protection of the natural environment and was active in fighting light pollution.

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## EPHEMERIDES.

1992 SK		a,e,i = 1.25, 0.32, 15					Elements MPC 21115		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V	
1992 10 25		00 10.99	+13 07.8	0.540	1.498	153.6	17.1	17.9	
1992 11 04		23 57.79	+13 25.8	0.624	1.529	141.2	24.0	18.5	
1992 11 14		23 52.32	+13 47.3	0.721	1.557	130.5	28.9	19.0	
1992 11 24		23 52.91	+14 18.5	0.826	1.581	121.1	32.3	19.4	
1992 12 04		23 58.16	+15 01.7	0.938	1.602	112.8	34.6	19.8	

1992 RN1		a,e,i = 3.18, 0.51, 6					Elements MPC 21115		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V	
1992 10 25		00 36.46	-09 51.7	0.695	1.633	149.9	17.8	16.2	
1992 11 04		00 40.33	-08 57.4	0.768	1.665	142.0	21.5	16.6	
1992 11 14		00 46.51	-07 35.5	0.855	1.702	134.5	24.5	17.0	
1992 11 24		00 54.83	-05 53.8	0.956	1.742	127.4	26.7	17.3	
1992 12 04		01 05.06	-03 58.5	1.069	1.786	120.7	28.3	17.7	
1992 12 14		01 16.88	-01 55.5	1.193	1.833	114.3	29.3	18.0	
1992 12 24		01 29.99	+00 11.1	1.327	1.882	108.1	29.8	18.3	
1993 01 03		01 44.17	+02 18.1	1.470	1.933	102.2	29.8	18.6	
1993 01 13		01 59.21	+04 22.9	1.621	1.986	96.3	29.5	18.8	
1993 01 23		02 14.93	+06 23.7	1.777	2.040	90.6	28.8	19.1	
1993 02 02		02 31.23	+08 19.0	1.939	2.096	84.9	27.9	19.3	
1993 02 12		02 47.99	+10 07.6	2.103	2.152	79.3	26.8	19.5	
1993 02 22		03 05.12	+11 48.7	2.270	2.209	73.8	25.5	19.7	

1992 ST		a,e,i = 2.55, 0.39, 8					Elements MPC 21116		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V	
1992 10 25		01 12.36	+05 57.8	0.585	1.570	166.9	8.2	14.9	
1992 11 04		01 05.55	+07 41.7	0.598	1.557	156.1	14.9	15.2	
1992 11 14		01 02.28	+09 36.2	0.627	1.549	146.0	20.9	15.5	
1992 11 24		01 03.43	+11 38.5	0.670	1.546	136.8	25.9	15.8	
1992 12 04		01 09.19	+13 46.2	0.726	1.547	128.8	29.8	16.0	
1992 12 14		01 19.22	+15 56.6	0.791	1.553	121.7	32.6	16.3	
1992 12 24		01 32.92	+18 06.9	0.866	1.564	115.4	34.6	16.6	
1993 01 03		01 49.74	+20 14.5	0.948	1.580	109.7	35.9	16.8	
1993 01 13		02 09.10	+22 16.8	1.038	1.599	104.6	36.5	17.1	
1993 01 23		02 30.53	+24 10.8	1.134	1.623	99.8	36.7	17.3	
1993 02 02		02 53.65	+25 54.3	1.237	1.651	95.3	36.5	17.5	
1993 02 12		03 18.08	+27 25.1	1.345	1.682	90.9	35.9	17.7	
1993 02 22		03 43.48	+28 41.4	1.459	1.715	86.7	35.2	17.9	
1993 03 04		04 09.59	+29 41.9	1.578	1.752	82.5	34.1	18.1	
1993 03 14		04 36.10	+30 25.8	1.701	1.790	78.4	33.0	18.3	

1992 SL		a,e,i = 1.64, 0.33, 9					Elements MPC 21115		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V	
1992 10 25		01 21.89	+36 52.4	0.210	1.187	153.9	21.6	16.0	
1992 11 04		01 19.84	+37 45.1	0.256	1.224	151.8	22.5	16.6	
1992 11 14		01 22.76	+37 27.7	0.311	1.264	148.3	24.3	17.1	

1992 11 24	01	30.17	+36	37.8	0.374	1.308	143.7	26.5	17.6
1992 12 04	01	41.43	+35	39.1	0.447	1.353	138.5	28.8	18.2
1992 12 14	01	55.70	+34	44.9	0.530	1.400	133.0	30.9	18.7
1992 12 24	02	12.18	+34	00.2	0.622	1.448	127.3	32.7	19.2
1993 01 03	02	30.40	+33	26.4	0.724	1.495	121.6	34.1	19.6
1993 01 13	02	49.90	+33	02.7	0.834	1.543	115.9	35.0	20.0

1992 TC		a,e,i = 1.56, 0.29, 7					Elements MPC 21119		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V	
1992 10 25	01	59.77	-32 09.8	0.182	1.132	135.7	37.9	15.6	
1992 10 30	02	02.27	-27 36.7	0.189	1.141	138.4	35.3	15.6	
1992 11 04	02	04.63	-22 56.9	0.199	1.152	140.8	33.0	15.7	
1992 11 09	02	07.08	-18 18.2	0.211	1.165	142.6	31.1	15.8	
1992 11 14	02	09.77	-13 47.4	0.225	1.179	143.8	29.7	15.9	
1992 11 19	02	12.82	-09 29.9	0.243	1.194	144.1	29.1	16.1	
1992 11 24	02	16.33	-05 29.1	0.263	1.209	143.6	29.0	16.3	
1992 11 29	02	20.40	-01 47.1	0.287	1.226	142.4	29.4	16.5	
1992 12 04	02	25.08	+01 35.4	0.313	1.244	140.7	30.1	16.8	
1992 12 09	02	30.38	+04 38.7	0.342	1.262	138.6	31.1	17.0	
1992 12 14	02	36.25	+07 23.8	0.374	1.281	136.2	32.1	17.3	
1992 12 19	02	42.68	+09 52.2	0.409	1.300	133.6	33.2	17.5	
1992 12 24	02	49.65	+12 05.7	0.447	1.320	131.0	34.2	17.8	
1992 12 29	02	57.15	+14 05.7	0.487	1.341	128.3	35.2	18.0	
1993 01 03	03	05.16	+15 53.8	0.529	1.361	125.6	36.0	18.3	
1993 01 08	03	13.62	+17 31.1	0.574	1.382	122.9	36.7	18.5	
1993 01 13	03	22.49	+18 58.8	0.621	1.403	120.2	37.3	18.7	
1993 01 18	03	31.74	+20 18.0	0.670	1.423	117.6	37.8	18.9	
1993 01 23	03	41.34	+21 29.3	0.721	1.444	114.9	38.2	19.1	
1993 01 28	03	51.27	+22 33.6	0.774	1.465	112.3	38.5	19.3	
1993 02 02	04	01.51	+23 31.3	0.828	1.486	109.7	38.6	19.5	
1993 02 07	04	12.01	+24 22.9	0.884	1.507	107.2	38.7	19.7	
1993 02 12	04	22.74	+25 08.8	0.942	1.527	104.7	38.7	19.8	
1993 02 17	04	33.67	+25 49.2	1.001	1.547	102.2	38.6	20.0	
1993 02 22	04	44.79	+26 24.6	1.061	1.567	99.7	38.5	20.1	

Comet Shoemaker (1992y)							Elements MPC 21082		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	ml	
1992 10 25	04	24.31	+25 37.3	2.001	2.861	143.2	12.0	15.1	
1992 11 04	04	10.04	+28 56.7	1.870	2.799	154.8	8.7	14.8	
1992 11 14	03	51.22	+32 22.5	1.775	2.740	164.1	5.7	14.6	
1992 11 24	03	28.56	+35 39.0	1.723	2.684	163.4	6.0	14.5	
1992 12 04	03	03.83	+38 30.2	1.712	2.630	153.3	9.7	14.4	
1992 12 14	02	39.51	+40 47.7	1.740	2.580	140.9	13.9	14.3	
1992 12 24	02	17.98	+42 33.5	1.800	2.534	128.6	17.7	14.3	
1993 01 03	02	00.87	+43 57.6	1.883	2.491	117.2	20.6	14.3	
1993 01 13	01	48.78	+45 12.2	1.981	2.452	106.7	22.6	14.4	
1993 01 23	01	41.59	+46 27.3	2.085	2.418	97.4	23.8	14.4	
1993 02 02	01	38.90	+47 49.9	2.191	2.388	89.1	24.4	14.5	

1992 NA		a,e,i = 2.39, 0.56, 10					Elements MPC 21112		
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	V	
1992 10 25	05	08.21	+57 27.1	0.273	1.163	122.3	46.3	15.8	
1992 10 30	05	03.14	+57 46.3	0.293	1.190	126.3	42.3	15.9	
1992 11 04	04	55.97	+57 44.7	0.314	1.219	130.4	38.2	15.9	
1992 11 09	04	47.43	+57 22.7	0.336	1.250	134.7	34.3	16.0	
1992 11 14	04	38.29	+56 41.3	0.360	1.282	138.8	30.6	16.1	
1992 11 19	04	29.25	+55 42.0	0.385	1.315	142.6	27.2	16.2	
1992 11 24	04	20.93	+54 27.6	0.413	1.350	145.9	24.2	16.4	
1992 11 29	04	13.83	+53 01.5	0.445	1.385	148.4	21.9	16.5	

1992 12 04	04 08.25	+51 27.8	0.479	1.421	150.0	20.3	16.7
1992 12 09	04 04.29	+49 50.4	0.517	1.457	150.5	19.4	16.9
1992 12 14	04 01.89	+48 12.9	0.559	1.494	149.9	19.3	17.1
1992 12 19	04 00.94	+46 37.8	0.605	1.532	148.3	19.7	17.3
1992 12 24	04 01.33	+45 07.0	0.655	1.569	145.9	20.6	17.6
1992 12 29	04 02.92	+43 41.9	0.708	1.607	143.0	21.6	17.8
1993 01 03	04 05.56	+42 23.2	0.766	1.645	139.8	22.7	18.1
1993 01 08	04 09.12	+41 11.4	0.828	1.682	136.4	23.8	18.3
1993 01 13	04 13.46	+40 06.1	0.893	1.720	132.9	24.8	18.6
1993 01 18	04 18.46	+39 07.2	0.961	1.758	129.3	25.7	18.8
1993 01 23	04 24.03	+38 14.1	1.033	1.795	125.7	26.4	19.0
1993 01 28	04 30.12	+37 26.2	1.107	1.832	122.1	27.1	19.3
1993 02 02	04 36.64	+36 43.2	1.185	1.869	118.6	27.6	19.5
1993 02 07	04 43.52	+36 04.2	1.265	1.906	115.1	28.0	19.7
1993 02 12	04 50.71	+35 28.8	1.348	1.942	111.6	28.2	19.8
1993 02 17	04 58.16	+34 56.4	1.432	1.978	108.2	28.3	20.0
1993 02 22	05 05.84	+34 26.6	1.519	2.014	104.8	28.3	20.2

1991 QG		a,e,i = 3.01, 0.40, 7				Elements MPC 19507		
Date	TT	R. A. (2000)	Decl.	Delta	r	Variation		V
1992 11 14	09 19.60	+07 28.0	2.939	3.133	-0.54	+1.9	19.8	
1992 11 24	09 22.86	+06 50.3	2.831	3.171	-0.56	+1.9	19.7	
1992 12 04	09 24.07	+06 21.9	2.726	3.208	-0.59	+2.0	19.6	
1992 12 14	09 23.12	+06 04.5	2.630	3.245	-0.62	+2.0	19.5	
1992 12 24	09 19.99	+05 59.4	2.546	3.281	-0.65	+2.1	19.4	
1993 01 03	09 14.81	+06 07.6	2.481	3.316	-0.68	+2.2	19.2	
1993 01 13	09 07.92	+06 28.6	2.440	3.351	-0.71	+2.3	19.1	
1993 01 23	08 59.87	+07 00.9	2.426	3.384	-0.73	+2.3	19.0	
1993 02 02	08 51.35	+07 41.8	2.442	3.418	-0.74	+2.3	18.9	
1993 02 12	08 43.16	+08 27.5	2.489	3.450	-0.74	+2.3	19.1	
1993 02 22	08 36.00	+09 14.3	2.566	3.482	-0.72	+2.2	19.3	
1993 03 04	08 30.42	+09 58.8	2.671	3.514	-0.70	+2.1	19.5	
1993 03 14	08 26.76	+10 38.4	2.798	3.544	-0.67	+2.0	19.7	
1993 03 24	08 25.11	+11 11.6	2.944	3.574	-0.63	+1.9	19.9	
1993 04 03	08 25.47	+11 37.2	3.103	3.603	-0.60	+1.8	20.1	

Periodic Comet Brewington (1992p)		Elements MPC 21081						
Date	TT	R. A. (2000)	Decl.	Delta	r	Elong.	Phase	ml
1992 12 24	09 38.47	+33 23.1	1.814	2.594	133.8	15.9	14.4	
1993 01 03	09 30.31	+33 48.4	1.803	2.665	144.4	12.4	14.5	
1993 01 13	09 19.53	+34 06.5	1.814	2.735	154.5	8.9	14.7	
1993 01 23	09 07.26	+34 11.2	1.853	2.806	162.1	6.2	14.8	
1993 02 02	08 54.90	+33 58.3	1.920	2.876	162.8	5.8	15.0	
1993 02 12	08 43.78	+33 27.9	2.016	2.946	156.1	7.8	15.2	
1993 02 22	08 34.86	+32 42.7	2.140	3.016	146.7	10.4	15.4	
1993 03 04	08 28.66	+31 47.0	2.288	3.085	136.7	12.7	15.7	
1993 03 14	08 25.29	+30 45.0	2.456	3.154	126.9	14.6	15.9	
1993 03 24	08 24.55	+29 39.5	2.640	3.223	117.4	15.9	16.2	
1993 04 03	08 26.17	+28 32.6	2.836	3.291	108.4	16.8	16.4	
1993 04 13	08 29.74	+27 25.4	3.040	3.359	99.8	17.1	16.7	
1993 04 23	08 34.94	+26 18.3	3.249	3.426	91.5	17.1	16.9	
1993 05 03	08 41.44	+25 11.2	3.459	3.492	83.5	16.7	17.1	
1993 05 13	08 48.95	+24 04.0	3.667	3.558	75.9	16.0	17.3	
1993 05 23	08 57.26	+22 56.7	3.872	3.623	68.4	15.1	17.5	
1993 06 02	09 06.17	+21 49.0	4.069	3.688	61.1	13.9	17.7	
1993 06 12	09 15.51	+20 40.8	4.258	3.752	54.0	12.6	17.9	
1993 06 22	09 25.16	+19 32.0	4.436	3.816	47.0	11.2	18.1	
1993 07 02	09 35.01	+18 22.7	4.602	3.879	40.0	9.7	18.2	
1993 07 12	09 44.96	+17 13.0	4.753	3.941	33.1	8.1	18.3	

1990 KA		a,e,i = 2.20, 0.43, 8					Elements MPC 16588		
Date	TT	R. A. (2000)	Decl.	Delta	r	Variation		V	
1992 12 24		09 48.82	+17 04.4	1.674	2.416	-1.45	+5.1	20.0	
1993 01 03		09 47.30	+17 56.5	1.535	2.370	-1.61	+5.5	19.7	
1993 01 13		09 42.43	+19 08.8	1.414	2.324	-1.78	+5.8	19.3	
1993 01 23		09 34.14	+20 38.5	1.317	2.276	-1.93	+5.7	18.9	
1993 02 02		09 22.90	+22 17.8	1.246	2.227	-2.04	+5.2	18.5	
1993 02 12		09 09.84	+23 55.4	1.204	2.177	-2.09	+4.2	18.6	
1993 02 22		08 56.61	+25 19.8	1.189	2.126	-2.06	+2.9	18.7	
1993 03 04		08 45.13	+26 22.5	1.198	2.074	-1.96	+1.7	18.9	
1993 03 14		08 36.92	+27 00.8	1.226	2.020	-1.83	+0.7	19.0	
1993 03 24		08 32.86	+27 15.9	1.269	1.966	-1.68	+0.1	19.2	
1993 04 03		08 33.21	+27 10.5	1.319	1.912	-1.55	-0.2	19.3	
1993 04 13		08 37.77	+26 47.5	1.373	1.856	-1.45	-0.1	19.4	
1993 04 23		08 46.09	+26 08.5	1.426	1.801	-1.37	+0.2	19.5	
1991 AM		a,e,i = 1.69, 0.70, 30					Elements MPC 20928		
Date	TT	R. A. (2000)	Decl.	Delta	r	Variation		V	
1992 12 24		10 13.87	+13 16.5	1.502	2.187	-1.43	-1.0	20.2	
1993 01 03		10 13.14	+15 16.3	1.326	2.121	-1.67	-1.3	19.7	
1993 01 13		10 08.21	+18 07.8	1.167	2.050	-1.95	-2.1	19.3	
1993 01 23		09 57.94	+21 57.9	1.031	1.976	-2.25	-4.0	18.7	
1993 02 02		09 41.28	+26 42.4	0.925	1.897	-2.50	-7.7	18.2	
1993 02 12		09 17.94	+31 57.6	0.852	1.814	-2.59	-13.4	18.1	
1993 02 22		08 49.19	+37 01.1	0.815	1.727	-2.39	-20.5	18.2	
1993 03 04		08 18.57	+41 10.6	0.808	1.634	-1.85	-27.1	18.3	
1993 03 14		07 50.55	+44 09.8	0.821	1.536	-1.07	-31.7	18.5	
1993 03 24		07 28.48	+46 09.4	0.843	1.433	-0.21	-34.2	18.6	
1993 04 03		07 13.57	+47 31.8	0.865	1.324	+0.61	-35.4	18.6	
1993 04 13		07 05.07	+48 37.1	0.877	1.210	+1.42	-36.2	18.6	
1993 04 23		07 01.27	+49 38.1	0.873	1.090	+2.33	-37.1	18.6	
1992 11 24		05 34.27	+36 33.1	1.849	2.770	154.0	9.0	17.2	
- 9.54 -1.04		+ 21.4 - 7.2	1240	T-1	21122	- 9.90 +0.93	- 25.0 - 6.2		
1992 12 24		05 01.47	+36 25.9	1.876	2.821	160.1	6.8	17.1	
1992 12 24		06 11.33	+24 47.6	1.128	2.112	178.6	0.6	14.6	
-10.74 +0.11		-8.4 - 2.4	1965	UA1	21096	- 3.76 +1.84	- 13.8 + 0.8		
1993 01 23		05 46.40	+24 08.2	1.271	2.145	143.8	15.7	15.6	
1992 12 24		06 56.20	+03 11.2	1.577	2.512	157.0	8.8	16.7	
- 8.62 -0.56		- 21.3 +10.2	1985	GK	21104	- 6.87 +1.08	+ 36.5 + 7.6		
1993 01 23		06 29.92	+03 38.8	1.588	2.481	148.5	12.0	16.8	
1992 12 24		07 20.38	+19 59.5	1.718	2.676	163.5	6.0	17.9	
- 9.65 -0.64		+6.5 + 1.2	1978	NK	21098	- 8.21 +1.04	+6.4 - 0.7		
1993 01 23		06 50.48	+20 22.4	1.808	2.748	158.6	7.5	18.1	
1993 01 23		08 35.50	+08 32.0	2.009	2.980	168.6	3.8	16.2	
- 8.56 -0.19		+ 54.9 + 4.9	(5132)		19846	- 5.75 +1.02	+ 62.5 - 2.1		
1993 02 22		08 11.81	+11 41.0	2.091	2.977	148.1	10.1	16.6	
1993 01 23		09 10.76	+22 16.2	1.293	2.265	168.2	5.1	17.6	
-10.80 -0.87		+ 48.7 - 1.6	1984	H01	21104	- 8.87 +1.42	+ 12.1 - 8.5		
1993 02 22		08 37.00	+24 00.0	1.315	2.235	151.6	12.2	17.9	
1993 01 23		09 41.25	+05 12.6	1.568	2.499	155.9	9.2	17.7	
- 6.74 -0.88		+ 38.5 + 8.9	1105	T-1	21121	- 7.36 +0.71	+ 66.4 - 0.3		
1993 02 22		09 17.15	+08 07.1	1.545	2.511	164.0	6.2	17.5	

1993 01 23	10 17.72	+03 23.9	1.771	2.654	147.4	11.5	18.1
- 6.43 -1.09	+ 35.5 + 9.1	1973 SQ3	19288	- 9.13 +0.32	+ 69.6 + 1.0		
1993 02 22	09 51.76	+06 16.5	1.694	2.677	171.6	3.1	17.6
1993 01 23	10 19.33	+06 27.3	1.396	2.295	148.6	12.9	17.0
- 5.99 -1.41	+ 35.2 +10.0	(5086)	19827	-10.08 +0.28	+ 70.2 + 0.1		
1993 02 22	09 52.13	+09 23.8	1.275	2.260	172.7	3.2	16.3
1993 01 23	10 21.14	+09 49.8	1.015	1.930	149.6	15.0	16.3
- 5.40 -1.71	+205.2 +17.4	1989 WL2	16585	- 9.97 +0.49	+209.9 -16.9		
1993 02 22	09 54.01	+21 16.7	0.994	1.971	167.1	6.4	16.0
1993 01 23	10 21.08	+03 41.6	1.865	2.743	146.8	11.3	17.7
- 6.55 -1.07	+ 36.3 + 8.6	1991 PA11	19031	- 9.25 +0.29	+ 67.6 + 0.8		
1993 02 22	09 54.88	+06 31.9	1.791	2.775	172.4	2.7	17.3
1993 01 23	10 15.24	-07 55.8	2.300	3.125	140.8	11.5	17.1
- 4.75 -0.83	+6.6 +10.1	1985 VL	18110	- 7.01 +0.17	+ 61.7 + 6.8		
1993 02 22	09 55.76	-06 07.4	2.161	3.119	162.4	5.5	16.7
1993 01 23	10 33.62	+52 03.4	1.417	2.251	138.5	16.8	16.7
- 8.67 -2.44	+120.1 -12.8	1990 HG	20506	-14.91 +0.86	- 12.8 -26.5		
1993 02 22	09 52.11	+55 09.8	1.416	2.225	134.7	18.4	16.7
1993 01 23	10 25.17	+21 28.8	1.736	2.640	151.0	10.4	18.0
- 7.26 -1.27	+ 56.3 + 1.6	1991 RT5	20509	-10.44 +0.36	+ 32.3 - 8.7		
1993 02 22	09 55.62	+24 00.6	1.691	2.658	164.9	5.6	17.7
1993 01 23	10 23.58	+01 22.3	1.923	2.788	145.1	11.7	18.2
- 6.71 -1.09	+ 12.7 + 8.6	1984 SA	19294	- 9.74 +0.22	+ 51.3 + 3.0		
1993 02 22	09 56.48	+03 08.7	1.812	2.793	170.6	3.3	17.6
1993 01 23	10 17.34	+15 33.2	3.432	4.327	152.1	6.1	17.4
- 4.69 -0.60	+ 32.8 + 2.1	1989 UA6	18294	- 6.36 +0.10	+ 32.2 - 2.3		
1993 02 22	09 59.49	+17 18.9	3.313	4.293	171.1	2.0	17.1
1993 01 23	10 27.51	+19 08.2	1.753	2.653	150.3	10.6	17.4
- 7.13 -1.32	+ 62.9 + 3.5	1991 TJ2	19510	-10.97 +0.23	+ 48.8 - 7.8		
1993 02 22	09 57.49	+22 16.8	1.660	2.632	166.6	5.0	17.0
1993 01 23	10 25.59	+12 43.9	1.461	2.362	149.5	12.2	17.9
- 6.46 -1.31	+ 57.4 + 6.2	1991 PE3	19310	- 9.54 +0.42	+ 59.2 - 5.6		
1993 02 22	09 58.39	+16 00.6	1.449	2.432	171.9	3.3	17.6
1993 01 23	10 30.98	+23 05.2	1.755	2.651	149.7	10.8	18.2
- 7.65 -1.32	+ 36.4 + 0.3	1991 RX10	19315	-11.11 +0.34	+8.2 - 8.7		
1993 02 22	09 59.78	+24 28.8	1.697	2.665	164.8	5.6	17.9
1993 01 23	10 26.50	+09 55.7	1.703	2.593	148.4	11.5	17.9
- 6.28 -1.17	+ 50.3 + 6.8	1980 TQ14	18805	- 9.30 +0.30	+ 62.9 - 3.1		
1993 02 22	10 00.42	+13 03.9	1.658	2.644	174.1	2.2	17.5
1993 01 23	10 27.87	+22 14.7	1.422	2.330	150.4	12.0	17.3
- 5.78 -1.52	+ 68.5 + 2.9	1986 GC	10840	-10.34 +0.26	+ 42.4 -10.9		
1993 02 22	10 00.41	+25 26.9	1.335	2.303	164.0	6.8	16.9
1993 01 23	10 27.49	+03 12.1	2.046	2.910	145.2	11.1	18.6
- 6.53 -1.07	+6.2 + 7.2	1987 SD4	12950	- 9.74 +0.14	+ 37.9 + 2.4		
1993 02 22	10 00.85	+04 27.3	1.914	2.898	172.3	2.6	18.0

1993 01 23	10 25.77	-00 39.2	1.535	2.399	143.5	14.1	16.9
- 5.33 -1.32	+0.3 +10.9	1991 UB2	19512	- 9.54 +0.13	+ 56.7 + 5.9		
1993 02 22	10 00.78	+00 55.3	1.387	2.366	169.4	4.4	16.3
1993 01 23	10 25.43	+08 55.5	2.069	2.952	148.2	10.1	17.5
- 5.79 -1.02	+ 71.2 + 7.3	(5095)	19831	- 8.75 +0.16	+ 87.7 - 2.5		
1993 02 22	10 01.46	+13 11.9	1.975	2.961	174.3	1.9	17.0
1993 01 23	10 25.88	+07 40.3	2.114	2.993	147.6	10.1	18.1
- 5.72 -1.04	+ 19.5 + 6.0	2287 T-3	17654	- 8.98 +0.09	+ 40.2 + 0.2		
1993 02 22	10 01.77	+09 20.7	1.956	2.942	175.0	1.7	17.4
1993 01 23	10 29.83	+04 55.0	1.476	2.355	145.5	13.7	16.2
- 5.27 -1.32	- 15.4 + 7.9	(5348)	20917	- 9.04 +0.24	+ 19.5 + 2.6		
1993 02 22	10 05.50	+05 10.9	1.397	2.383	173.6	2.7	15.6
1993 01 23	10 30.53	+06 29.8	1.157	2.049	146.1	15.5	17.2
- 4.77 -1.56	+ 26.6 +10.7	1063 T-2	15075	- 9.13 +0.33	+ 61.0 - 0.7		
1993 02 22	10 06.19	+09 02.3	1.109	2.097	176.0	1.9	16.6
1993 01 23	10 30.16	-08 43.5	2.186	2.987	137.6	12.8	17.8
- 5.74 -0.97	-2.5 +10.5	1987 WY	19500	- 8.51 +0.15	+ 55.6 + 7.3		
1993 02 22	10 06.73	-07 18.1	2.083	3.040	162.1	5.7	17.5
1993 01 23	10 29.93	+06 11.0	2.180	3.047	146.1	10.4	18.5
- 5.58 -0.95	+ 32.1 + 6.5	1991 UC3	19514	- 8.29 +0.15	+ 53.5 - 0.1		
1993 02 22	10 07.09	+08 31.5	2.101	3.088	176.0	1.3	17.9
1993 01 23	10 27.04	+23 18.3	2.990	3.878	150.6	7.2	16.8
- 4.96 -0.76	+ 52.7 + 0.7	1990 WK	17647	- 7.17 +0.09	+ 36.9 - 5.6		
1993 02 22	10 07.27	+25 44.3	2.918	3.879	164.1	4.0	16.6
1993 01 23	10 29.85	-16 15.8	2.182	2.936	132.3	14.3	16.3
- 5.20 -1.01	- 59.9 +10.7	1985 VF2	19674	- 8.39 +0.08	+ 12.8 +12.0		
1993 02 22	10 07.46	-17 29.1	2.047	2.957	152.1	9.0	16.0
1993 01 23	10 32.42	+06 50.5	2.007	2.875	145.8	11.1	17.5
- 5.05 -1.03	+ 38.2 + 7.1	1986 RK1	14788	- 8.16 +0.12	+ 60.4 - 0.5		
1993 02 22	10 10.49	+09 32.5	1.920	2.908	177.2	1.0	16.9
1993 01 23	10 30.39	-20 39.8	2.590	3.299	129.0	13.4	17.7
- 4.76 -0.85	- 14.8 +11.5	1985 TD3	19674	- 7.30 +0.09	+ 57.0 +10.9		
1993 02 22	10 10.58	-19 35.6	2.458	3.352	150.1	8.5	17.5
1993 01 23	10 40.56	+12 53.4	1.580	2.459	146.0	12.9	18.7
- 6.51 -1.40	+ 20.0 + 5.2	1607 T-2	18832	-10.70 +0.20	+ 25.7 - 3.5		
1993 02 22	10 11.82	+14 18.0	1.508	2.495	175.3	1.9	18.1
1993 01 23	10 36.30	+23 18.9	2.383	3.263	148.5	9.1	17.6
- 5.67 -1.01	+ 45.8 + 0.9	1985 TJ1	17016	- 8.81 +0.08	+ 26.4 - 6.9		
1993 02 22	10 12.56	+25 21.5	2.294	3.259	164.7	4.6	17.3
1993 01 23	10 38.09	+11 53.9	1.614	2.493	146.3	12.6	16.3
- 4.59 -1.33	+ 15.5 + 5.6	1984 EX	17819	- 9.20 +0.01	+ 27.7 - 2.2		
1993 02 22	10 14.93	+13 13.3	1.476	2.465	176.6	1.4	15.5
1993 01 23	10 38.75	+02 50.6	1.977	2.823	142.6	12.2	18.5
- 5.52 -1.09	-1.5 + 7.3	1120 T-3	13162	- 8.88 +0.10	+ 31.2 + 2.6		
1993 02 22	10 14.97	+03 43.8	1.884	2.869	173.3	2.3	17.9

1993 01 23	10 37.55	+03 44.4	1.245	2.117	143.3	16.1	16.7
- 3.58 -1.55	+ 24.2 +12.1	1983 EU	19293	- 9.21 -0.02	+ 76.7 + 3.0		
1993 02 22	10 15.56	+06 32.5	1.108	2.096	176.0	1.9	15.8
1993 01 23	10 37.21	+16 35.7	2.602	3.474	147.7	8.7	18.2
- 5.23 -0.89	+ 30.3 + 2.6	2213 T-1	21122	- 8.10 +0.03	+ 27.4 - 3.5		
1993 02 22	10 15.50	+18 13.5	2.486	3.468	171.9	2.3	17.7
1993 01 23	10 41.55	+12 49.8	1.619	2.495	145.8	12.8	18.3
- 4.79 -1.39	+ 59.3 + 7.6	4046 T-3	16440	- 9.94 -0.08	+ 73.2 - 4.0		
1993 02 22	10 17.04	+16 30.1	1.470	2.455	173.6	2.6	17.6
1993 01 23	10 40.91	+04 01.2	2.192	3.034	142.7	11.3	18.3
- 5.11 -1.02	+ 11.4 + 6.8	1986 RT5	20332	- 8.50 +0.01	+ 39.5 + 1.8		
1993 02 22	10 18.60	+05 26.6	2.065	3.052	175.2	1.6	17.7
1993 01 23	10 44.94	+17 36.6	1.844	2.716	146.0	11.7	18.5
- 5.68 -1.29	+ 68.0 + 4.6	1977 TO6	20139	-10.05 +0.03	+ 61.1 - 6.9		
1993 02 22	10 18.93	+21 11.5	1.753	2.731	169.0	4.0	18.1
1993 01 23	10 40.42	+03 57.7	1.444	2.306	142.8	15.0	16.8
- 3.87 -1.36	+ 43.8 +11.1	1987 SG2	15887	- 8.33 +0.08	+ 83.9 + 0.6		
1993 02 22	10 19.48	+07 28.6	1.367	2.355	177.2	1.2	16.1
1993 01 23	10 48.68	+11 04.9	1.697	2.557	143.6	13.2	17.0
- 6.05 -1.41	+ 18.9 + 5.9	1991 TS4	19510	-11.05 -0.03	+ 32.4 - 2.1		
1993 02 22	10 20.48	+12 36.7	1.564	2.553	177.6	0.9	16.2
1993 01 23	10 44.43	+06 12.6	1.848	2.699	142.8	12.7	17.3
- 4.82 -1.23	+ 31.6 + 8.1	1991 VP	19517	- 9.29 -0.07	+ 61.5 + 0.6		
1993 02 22	10 21.14	+08 45.9	1.695	2.684	178.5	0.5	16.5
1993 02 22	10 21.74	+13 04.9	1.724	2.712	177.2	1.0	18.0
-10.41 +0.01	+ 40.1 - 2.4	1977 QD2	9213	- 5.96 +1.28	+9.3 - 6.6		
1993 03 24	09 54.86	+14 26.8	1.870	2.729	142.4	12.9	18.8
1993 02 22	10 22.57	+12 50.7	1.578	2.567	177.4	1.0	17.9
- 9.81 -0.15	+ 48.8 - 1.6	9518 P-L	18132	- 5.79 +1.32	+ 17.0 - 7.6		
1993 03 24	09 56.46	+14 40.5	1.649	2.515	142.7	13.9	18.6
1993 02 22	10 23.71	+14 03.0	1.844	2.831	176.1	1.3	16.2
- 9.45 +0.05	+ 24.2 - 2.7	1986 QS	19297	- 5.28 +1.16	-4.2 - 5.7		
1993 03 24	09 59.57	+14 38.5	2.017	2.880	143.4	11.9	16.9
1993 02 22	10 23.88	+26 43.5	1.585	2.549	163.5	6.3	16.4
-10.18 -0.21	+ 79.0 - 9.5	1990 MV	17211	- 5.98 +1.42	+4.4 -12.7		
1993 03 24	09 56.62	+28 54.4	1.665	2.477	135.5	16.4	16.9
1993 02 22	10 24.93	+13 42.1	1.590	2.578	176.4	1.4	14.4
- 7.56 -0.08	+ 52.7 - 2.1	(5036)	19493	- 3.78 +1.18	+ 18.0 - 8.0		
1993 03 24	10 05.60	+15 38.8	1.695	2.571	144.3	13.1	15.1
1993 02 22	10 25.17	+13 17.6	1.236	2.224	176.8	1.4	16.4
- 9.65 -0.02	+ 84.2 - 3.4	1975 VR5	18802	- 4.34 +1.51	+ 33.6 -11.0		
1993 03 24	10 01.38	+16 28.0	1.380	2.258	143.0	15.4	17.3
1993 02 22	10 24.80	-01 14.9	1.639	2.616	168.5	4.3	16.3
- 8.62 -0.08	+ 52.1 + 6.3	1987 WO1	19863	- 4.82 +1.18	+ 58.8 - 3.7		
1993 03 24	10 02.32	+01 49.9	1.731	2.626	147.3	11.9	16.8

1993 02 22	10 25.10	+11 52.0	2.106	3.095	178.2	0.6	16.3
- 8.19 -0.04	+ 42.5 - 1.2	(5072)	19822	- 4.98 +0.98	+ 19.0 - 5.8		
1993 03 24	10 03.48	+13 32.5	2.242	3.109	144.7	10.7	17.0
1993 02 22	10 27.23	+04 51.4	1.788	2.774	174.4	2.0	15.7
- 8.37 -0.11	+ 42.6 + 2.6	(5091)	19829	- 5.01 +1.09	+ 34.8 - 4.7		
1993 03 24	10 04.95	+07 01.1	1.880	2.770	147.0	11.3	16.3
1993 02 22	10 27.89	+07 04.1	1.625	2.613	176.5	1.3	17.2
-10.35 -0.18	+ 41.9 + 1.6	(5085)	19827	- 6.55 +1.28	+ 27.4 - 5.6		
1993 03 24	09 59.86	+09 01.4	1.702	2.585	145.3	12.7	17.9
1993 02 22	10 29.22	+10 54.2	1.310	2.299	178.0	0.9	17.5
-10.93 -0.09	+ 43.2 - 1.2	1293 T-1	19878	- 5.86 +1.52	+ 11.9 - 7.6		
1993 03 24	10 01.07	+12 28.3	1.435	2.320	144.5	14.4	18.4
1993 02 22	10 29.51	+19 57.7	1.644	2.624	170.1	3.7	17.0
-10.31 -0.20	+ 29.7 - 5.8	1986 QZ2	12134	- 6.46 +1.31	- 18.8 - 8.6		
1993 03 24	10 01.57	+20 19.0	1.717	2.572	141.2	14.0	17.5
1993 02 22	10 28.96	+10 27.7	0.926	1.915	178.2	0.9	15.4
- 9.06 -0.10	+ 46.0 - 0.8	1986 EZ4	14618	- 3.19 +1.71	+9.2 - 9.3		
1993 03 24	10 07.26	+12 05.9	1.036	1.945	146.1	16.6	16.4
1993 02 22	10 30.36	+21 22.1	2.102	3.078	168.7	3.6	15.4
- 9.31 -0.09	+9.0 - 5.5	(5092)	19830	- 5.99 +1.06	- 30.7 - 6.6		
1993 03 24	10 05.30	+20 51.3	2.218	3.063	141.7	11.6	15.9
1993 02 22	10 30.04	+00 23.0	1.192	2.173	169.9	4.6	17.0
- 9.40 -0.09	+ 63.2 + 6.6	1988 VN3	19023	- 4.46 +1.48	+ 61.1 - 6.3		
1993 03 24	10 06.34	+03 53.5	1.306	2.216	148.0	13.8	17.6
1993 02 22	10 30.00	+03 18.4	1.692	2.677	172.8	2.7	17.1
- 8.59 -0.09	+ 41.8 + 3.4	1982 UX5	14784	- 4.99 +1.14	+ 36.9 - 4.5		
1993 03 24	10 07.37	+05 30.9	1.807	2.704	148.0	11.3	17.6
1993 02 22	10 30.79	+05 59.9	1.305	2.292	175.2	2.1	17.1
-10.86 -0.08	+ 45.3 + 2.1	1985 SM3	14194	- 5.84 +1.49	+ 28.7 - 6.4		
1993 03 24	10 02.83	+08 06.6	1.435	2.331	146.3	13.7	17.9
1993 02 22	10 30.29	+17 53.4	2.087	3.070	172.1	2.6	17.3
- 8.03 -0.09	+ 36.0 - 3.8	3290 T-2	17464	- 5.01 +0.98	+0.3 - 7.0		
1993 03 24	10 08.75	+18 53.5	2.210	3.068	143.4	11.2	17.8
1993 02 22	10 31.02	+14 50.4	1.036	2.023	174.8	2.5	16.4
- 9.03 -0.29	+ 81.0 - 3.2	7610 P-L	20516	- 4.16 +1.65	+ 24.4 -12.8		
1993 03 24	10 07.65	+17 46.0	1.103	1.996	143.8	17.2	17.1
1993 02 22	10 31.29	+16 20.9	1.685	2.670	173.4	2.4	16.9
- 9.37 -0.09	+ 43.2 - 4.0	1987 VC1	15888	- 5.46 +1.21	+3.0 - 7.9		
1993 03 24	10 06.65	+17 37.2	1.824	2.693	143.6	12.7	17.6
1993 02 22	10 31.60	+09 23.3	1.657	2.645	177.4	1.0	17.2
-10.56 -0.18	+ 45.2 + 0.1	1991 UM1	19681	- 6.80 +1.26	+ 23.0 - 6.4		
1993 03 24	10 02.91	+11 17.7	1.752	2.634	145.3	12.4	17.9
1993 02 22	10 32.86	+09 52.7	1.299	2.288	177.2	1.2	17.0
-10.10 -0.20	+ 71.2 0.0	1991 PF10	19869	- 5.63 +1.46	+ 37.8 - 9.2		
1993 03 24	10 06.21	+12 53.0	1.402	2.294	145.5	14.2	17.8



1993 02 22	10 32.56	+10 41.5	1.551	2.540	177.3	1.1	17.5
-10.51 -0.17	+ 53.6 - 0.7	1988 VM3	16431	- 6.50	+1.32	+ 24.7	- 7.5
1993 03 24	10 04.30	+12 51.5	1.657	2.540	145.1	13.0	18.3
1993 02 22	10 33.38	+22 24.6	1.950	2.924	167.5	4.2	17.6
-10.67 -0.08	+ 38.0 - 6.9	1955 UN1	19494	- 6.82	+1.19	- 12.3	- 8.3
1993 03 24	10 04.80	+23 05.5	2.110	2.947	140.4	12.4	18.1
1993 02 22	10 33.48	+03 14.5	2.609	3.592	172.4	2.1	17.9
- 7.15 -0.13	+ 46.7 + 2.7	1990 UF	17454	- 5.14	+0.74	+ 44.3	- 3.2
1993 03 24	10 13.45	+05 41.9	2.678	3.572	149.4	8.2	18.3
1993 02 22	10 33.83	+10 16.8	1.411	2.399	177.0	1.2	15.3
- 9.57 -0.11	+9.8 - 0.6	1988 AG	12944	- 5.24	+1.34	- 10.4	- 5.2
1993 03 24	10 08.93	+10 24.4	1.535	2.433	147.0	12.9	16.1
1993 02 22	10 34.81	+18 20.8	1.906	2.887	171.3	3.0	17.0
- 8.90 -0.08	+ 46.6 - 4.8	1991 TW1	19509	- 5.44	+1.08	+4.2	- 7.9
1993 03 24	10 11.13	+19 42.7	2.070	2.932	143.5	11.7	17.6
1993 02 22	10 35.34	+00 07.9	1.504	2.483	169.3	4.2	17.2
- 9.08 -0.17	+ 68.5 + 6.0	1984 UD3	19017	- 5.37	+1.23	+ 67.8	- 5.5
1993 03 24	10 11.08	+03 53.7	1.604	2.513	149.2	11.7	17.7
1993 02 22	10 34.89	+01 28.5	2.235	3.215	170.6	2.9	17.1
- 6.94 -0.15	+ 59.3 + 3.9	1280 T-1	19321	- 4.69	+0.82	+ 59.0	- 3.7
1993 03 24	10 15.64	+04 40.1	2.305	3.208	150.1	8.9	17.4
1993 02 22	10 35.80	+11 28.0	2.389	3.377	176.3	1.1	17.7
- 7.71 -0.18	+ 44.0 - 0.4	1977 DY3	20009	- 5.58	+0.82	+ 24.5	- 5.4
1993 03 24	10 14.03	+13 19.9	2.456	3.337	147.1	9.3	18.2
1993 02 22	10 36.71	+11 11.3	1.720	2.708	176.2	1.4	17.6
- 8.89 -0.08	+ 71.5 - 1.6	1987 SC1	18812	- 5.24	+1.13	+ 37.6	- 8.1
1993 03 24	10 13.29	+14 06.8	1.895	2.782	146.6	11.4	18.4
1993 02 22	10 36.80	+25 58.9	1.740	2.704	163.8	5.8	15.9
- 9.45 -0.22	+ 53.7 - 8.8	1991 UT2	19513	- 5.92	+1.23	- 11.4	-10.8
1993 03 24	10 11.08	+27 06.0	1.854	2.689	139.2	14.0	16.4
1993 02 22	10 36.18	-00 03.8	1.879	2.857	169.1	3.8	17.5
- 8.05 -0.23	+ 49.1 + 5.5	1980 KM	17427	- 5.50	+0.99	+ 55.3	- 3.3
1993 03 24	10 13.60	+02 48.9	1.920	2.827	149.9	10.2	17.8
1993 02 22	10 36.20	+10 59.0	2.065	3.053	176.3	1.2	16.7
- 7.84 -0.15	+ 54.4 - 0.6	1981 WA1	19859	- 5.16	+0.93	+ 30.8	- 6.3
1993 03 24	10 14.71	+13 17.5	2.179	3.066	147.3	10.1	17.3
1993 02 22	10 36.15	-11 33.4	2.453	3.391	157.9	6.3	17.4
- 6.89 -0.18	+ 47.8 + 8.7	1984 SQ4	16696	- 4.98	+0.76	+ 78.2	+ 0.8
1993 03 24	10 16.60	-08 09.7	2.457	3.360	150.3	8.5	17.5
1993 02 22	10 37.28	+17 29.6	2.389	3.371	171.8	2.4	16.3
- 6.98 -0.19	+ 82.7 - 2.7	1989 NB1	15072	- 4.92	+0.80	+ 46.1	- 8.3
1993 03 24	10 17.61	+20 53.1	2.486	3.345	144.1	10.1	16.7
1993 02 22	10 38.39	-10 47.2	2.023	2.966	158.6	7.0	16.8
- 8.11 -0.18	+ 53.1 + 9.7	1991 UP1	19512	- 5.50	+0.95	+ 82.9	- 0.3
1993 03 24	10 15.90	-07 04.4	2.086	2.994	150.3	9.5	17.0

1993 02 22	10 38.66	+17 53.6	2.433	3.414	171.3	2.5	16.7
- 7.71 -0.19	+ 45.9 - 3.1	(5155)	19991	- 5.59 +0.82	+ 13.1 - 6.9		
1993 03 24	10 16.86	+19 29.1	2.520	3.384	144.7	9.8	17.1
1993 02 22	10 38.93	+13 29.2	2.530	3.516	174.7	1.5	17.7
- 7.76 -0.12	+ 37.3 - 1.6	1985 VD1	16871	- 5.51 +0.79	+ 14.3 - 5.4		
1993 03 24	10 17.34	+14 53.5	2.664	3.543	147.2	8.8	18.3
1993 02 22	10 40.81	-01 35.2	1.765	2.739	167.2	4.6	17.6
- 9.63 -0.31	+ 54.3 + 6.7	1981 TW1	21101	- 6.94 +1.09	+ 64.3 - 3.3		
1993 03 24	10 13.36	+01 41.3	1.807	2.717	150.0	10.6	17.9
1993 02 22	10 39.82	+12 06.4	2.265	3.252	175.1	1.5	17.3
- 7.61 -0.12	+ 50.5 - 1.2	1991 VD2	19519	- 5.14 +0.85	+ 25.9 - 6.1		
1993 03 24	10 18.90	+14 09.8	2.413	3.300	147.8	9.3	17.9
1993 02 22	10 41.24	+13 14.5	1.387	2.373	174.3	2.4	15.9
- 9.78 -0.40	+ 73.5 - 1.4	1991 UQ3	20510	- 6.47 +1.34	+ 32.8 -10.2		
1993 03 24	10 13.65	+16 10.2	1.443	2.336	145.8	13.9	16.4
1993 02 22	10 40.40	+13 54.3	2.593	3.578	174.1	1.6	17.5
- 7.49 -0.14	+ 36.6 - 1.6	1984 SR5	17630	- 5.43 +0.76	+ 13.5 - 5.3		
1993 03 24	10 19.37	+15 16.4	2.710	3.590	147.4	8.6	18.0
1993 02 22	10 41.94	+12 20.3	1.635	2.622	174.6	2.0	17.9
-10.56 -0.24	+ 44.0 - 1.7	1981 QK	20011	- 7.04 +1.24	+ 12.6 - 7.3		
1993 03 24	10 12.81	+13 55.4	1.748	2.638	146.6	12.0	18.5
1993 02 22	10 42.78	+21 53.1	1.550	2.524	167.3	4.9	18.0
-10.57 -0.30	+ 48.6 - 7.4	3101 T-3	20347	- 6.89 +1.34	- 11.7 -10.5		
1993 03 24	10 13.57	+22 54.1	1.654	2.517	142.2	14.1	18.5
1993 02 22	10 44.91	+49 42.3	1.283	2.139	140.2	17.2	17.6
-14.09 -0.52	+ 84.4 -27.7	1988 JL	13469	- 7.36 +2.24	- 67.7 -19.0		
1993 03 24	10 07.63	+49 50.8	1.432	2.136	122.2	23.3	18.0
1993 02 22	10 43.28	-04 51.6	1.317	2.284	164.0	6.9	17.4
- 9.36 -0.56	+ 38.3 +11.0	1990 MR	18121	- 6.84 +1.31	+ 70.7 - 1.3		
1993 03 24	10 15.50	-01 45.4	1.285	2.209	150.7	12.8	17.5
1993 02 22	10 43.55	+12 12.8	1.472	2.458	174.3	2.3	16.9
-10.01 -0.19	+ 52.6 - 2.1	1973 UR5	19010	- 6.05 +1.29	+ 16.7 - 8.2		
1993 03 24	10 16.73	+14 07.9	1.621	2.519	147.4	12.3	17.6
1993 02 22	10 44.57	+04 32.3	1.571	2.554	171.9	3.1	17.0
- 9.94 -0.41	+ 49.2 + 3.8	(5203)	20133	- 7.25 +1.19	+ 42.4 - 5.5		
1993 03 24	10 15.82	+07 06.9	1.604	2.516	149.6	11.6	17.4
1993 02 22	10 43.39	+06 16.2	1.180	2.165	173.3	3.1	15.3
- 6.55 -0.37	+105.8 + 4.2	1984 CM1	20631	- 3.40 +1.27	+ 80.2 -11.0		
1993 03 24	10 25.44	+11 23.3	1.240	2.164	150.4	13.1	15.9
1993 02 22	10 45.18	+18 24.3	1.838	2.818	170.0	3.5	17.4
- 9.76 -0.28	+ 61.7 - 4.5	1991 VM5	20823	- 6.90 +1.11	+ 15.0 - 9.3		
1993 03 24	10 17.64	+20 28.3	1.946	2.817	144.4	11.9	17.9
1993 02 22	10 46.07	+02 15.6	1.465	2.446	170.0	4.0	16.8
- 9.71 -0.38	+ 65.3 + 5.4	(5195)	20006	- 6.69 +1.24	+ 61.4 - 6.0		
1993 03 24	10 18.49	+05 46.8	1.527	2.445	150.6	11.5	17.3

1993 02 22	10 45.94	-05 55.1	1.882	2.842	162.7	5.9	15.6
- 7.98 -0.29	+ 20.0 + 7.8	1978 LG	18281	- 5.73 +0.95	+ 44.2 - 0.2		
1993 03 24	10 23.12	-04 04.0	1.930	2.852	152.5	9.3	15.8
1993 02 22	10 47.68	+07 33.5	1.369	2.354	173.0	2.9	16.4
-10.66 -0.46	+ 33.3 + 1.7	1991 UO4	20642	- 7.51 +1.35	+ 16.8 - 6.3		
1993 03 24	10 17.05	+09 03.4	1.418	2.332	149.4	12.6	16.9
1993 02 22	10 47.33	+04 08.6	1.556	2.538	171.2	3.4	18.1
- 9.08 -0.40	+ 62.0 + 4.2	2108 T-2	15425	- 6.50 +1.14	+ 54.2 - 6.1		
1993 03 24	10 21.12	+07 21.8	1.601	2.519	150.8	11.1	18.5
1993 02 22	10 47.06	+05 37.1	1.703	2.687	172.2	2.9	18.1
- 9.31 -0.31	+ 75.7 + 2.7	1981 RR3	10023	- 6.60 +1.09	+ 59.7 - 7.0		
1993 03 24	10 20.60	+09 18.1	1.789	2.700	150.1	10.6	18.6
1993 02 22	10 46.02	+12 01.2	2.239	3.224	173.7	1.9	16.5
- 6.61 -0.28	+102.3 + 0.2	1988 JN	16233	- 4.98 +0.77	+ 74.8 - 8.2		
1993 03 24	10 26.71	+16 42.3	2.299	3.190	148.2	9.5	17.0
1993 02 22	10 47.42	+23 39.4	1.881	2.848	165.2	5.1	16.5
- 8.58 -0.27	+ 91.0 - 7.4	1978 PT4	19495	- 5.84 +1.05	+ 27.0 -11.7		
1993 03 24	10 23.37	+26 44.1	2.035	2.883	141.5	12.4	17.0
1993 02 22	10 48.86	+01 28.5	1.172	2.151	168.9	5.1	17.1
-10.02 -0.62	+ 36.5 + 7.1	1991 RK7	20640	- 7.13 +1.44	+ 43.4 - 4.7		
1993 03 24	10 19.31	+03 50.2	1.179	2.108	151.2	13.2	17.4
1993 02 22	10 48.01	-03 41.9	1.928	2.894	164.6	5.2	16.6
- 8.23 -0.28	+ 44.5 + 6.8	1982 QY1	19497	- 5.99 +0.93	+ 59.1 - 2.1		
1993 03 24	10 24.45	-00 50.1	1.993	2.917	152.9	8.9	16.8
1993 02 22	10 48.99	+04 05.2	1.716	2.697	170.8	3.3	16.5
- 9.68 -0.32	+ 31.9 + 3.1	(5171)	19997	- 6.97 +1.10	+ 27.1 - 4.2		
1993 03 24	10 21.41	+05 47.3	1.798	2.715	151.3	10.2	16.9
1993 02 22	10 48.34	+16 50.7	2.343	3.323	170.7	2.7	17.5
- 8.40 -0.23	+ 32.3 - 3.0	1990 SX16	19028	- 6.32 +0.84	+1.3 - 6.4		
1993 03 24	10 24.30	+17 47.3	2.449	3.330	147.1	9.3	18.0
1993 02 22	10 50.89	+04 11.1	1.463	2.444	170.5	3.8	16.0
- 9.03 -0.50	+ 66.8 + 4.9	(5016)	19485	- 6.75 +1.16	+ 59.9 - 6.6		
1993 03 24	10 24.14	+07 42.3	1.482	2.406	151.4	11.4	16.4
1993 02 22	10 51.11	-05 28.1	1.556	2.517	162.7	6.7	17.0
- 9.35 -0.38	+ 42.0 + 9.2	1970 WD	14184	- 6.66 +1.15	+ 65.2 - 1.9		
1993 03 24	10 24.28	-02 26.6	1.614	2.543	152.9	10.3	17.2
1993 02 22	10 50.40	+07 14.2	2.688	3.671	172.3	2.1	16.9
- 7.01 -0.21	+ 42.3 + 1.1	(5157)	19992	- 5.52 +0.66	+ 32.2 - 4.0		
1993 03 24	10 30.00	+09 15.4	2.773	3.685	152.3	7.2	17.3
1993 02 22	10 52.10	+08 54.4	1.548	2.532	172.4	3.0	16.8
- 7.69 -0.30	+ 85.1 + 0.4	1987 YH	12951	- 4.98 +1.06	+ 54.1 - 9.1		
1993 03 24	10 30.58	+12 40.7	1.677	2.594	151.0	10.7	17.4
1993 02 22	10 57.28	-18 03.9	1.699	2.605	150.4	10.8	15.3
- 8.63 -0.57	+4.5 +14.4	(5183)	20002	- 7.19 +1.00	+ 72.0 + 6.0		
1993 03 24	10 30.64	-15 53.7	1.654	2.571	151.0	10.8	15.2

1993 02 22	10 58.01	+08	19.7	1.641	2.623	170.8	3.5	17.3
- 9.78 -0.42	+ 38.4 + 0.9							
1993 03 24	10 29.47	+10	00.2	1.723	2.645	151.9	10.2	17.7
1993 02 22	10 56.55	+11	19.7	2.561	3.542	171.3	2.4	18.1
- 7.27 -0.24	+ 54.0 - 0.6							
1993 03 24	10 35.35	+13	39.5	2.683	3.591	151.6	7.6	18.5
1993 02 22	10 56.88	+04	24.2	2.080	3.058	169.5	3.4	17.3
- 7.82 -0.38	+ 52.2 + 3.2							
1993 03 24	10 33.35	+07	07.6	2.106	3.032	153.8	8.3	17.6
1993 02 22	10 59.73	+12	49.3	1.973	2.953	170.3	3.2	17.6
- 8.50 -0.34	+ 72.4 - 1.4							
1993 03 24	10 34.90	+15	49.3	2.095	3.002	150.3	9.5	18.1
1993 02 22	11 02.50	+16	48.3	1.800	2.775	168.1	4.2	16.9
-10.27 -0.51	+ 21.7 - 3.6							
1993 03 24	10 31.63	+17	03.3	1.846	2.749	149.0	10.8	17.2
1993 02 22	11 01.51	+05	30.4	1.375	2.354	169.0	4.6	16.9
- 8.53 -0.51	+ 86.0 + 3.6							
1993 03 24	10 36.33	+09	41.4	1.454	2.388	153.6	10.7	17.4
1993 02 22	10 59.66	+02	55.0	0.983	1.961	168.0	6.0	15.9
- 5.96 -0.72	+ 90.2 + 9.1							
1993 03 24	10 40.95	+07	55.8	0.978	1.929	155.3	12.5	16.1
1993 02 22	11 01.77	-02	48.7	1.303	2.270	163.6	7.1	17.4
- 7.93 -0.60	+ 53.7 + 9.5							
1993 03 24	10 37.67	+00	44.7	1.327	2.275	156.2	10.2	17.6
1993 02 22	11 03.23	+02	30.8	1.616	2.590	167.1	4.9	17.3
- 9.41 -0.46	+ 35.0 + 4.3							
1993 03 24	10 35.40	+04	30.2	1.693	2.631	155.0	9.2	17.7
1993 02 22	11 03.34	+15	59.9	1.553	2.530	168.3	4.5	17.0
- 9.33 -0.64	+ 78.8 - 2.1							
1993 03 24	10 34.47	+19	04.1	1.581	2.486	148.4	12.1	17.3
1993 02 22	11 03.81	-04	52.5	1.321	2.281	161.6	7.9	17.0
- 9.66 -0.53	+ 36.6 + 9.9							
1993 03 24	10 35.47	-02	04.0	1.396	2.341	155.7	10.1	17.2
1993 02 22	11 02.96	-01	12.9	1.867	2.833	164.6	5.3	18.1
- 8.29 -0.48	+ 62.2 + 6.5							
1993 03 24	10 37.62	+02	26.3	1.885	2.825	155.9	8.3	18.2
1993 02 22	11 02.89	+06	32.0	1.922	2.899	169.1	3.7	16.6
- 7.41 -0.37	+ 44.5 + 1.8							
1993 03 24	10 40.85	+08	40.4	2.006	2.940	155.0	8.2	16.9
1993 02 22	11 04.85	+11	07.1	1.637	2.615	169.3	4.0	18.0
- 9.23 -0.45	+ 61.6 - 0.6							
1993 03 24	10 37.64	+13	39.2	1.743	2.665	152.1	10.1	18.5
1993 02 22	11 05.12	+11	35.5	1.991	2.968	169.2	3.6	17.2
- 9.17 -0.52	+ 26.8 - 0.5							
1993 03 24	10 36.81	+12	33.1	2.002	2.923	152.4	9.1	17.4

1993 02 22	11 03.99	+10 13.8	2.239	3.217	169.6	3.2	16.6
- 8.03 -0.36	+ 24.6 - 0.1	1990 QO3	19866	- 6.65 +0.76		+7.9	- 4.8
1993 03 24	10 39.91	+11 11.2	2.312	3.236	153.7	7.8	16.9
1993 02 22	11 09.68	+08 15.3	1.483	2.460	168.0	4.8	15.2
-10.27 -0.53	+7.2 + 0.8	1991 RS1	19034	- 7.94 +1.16		-7.3	- 4.8
1993 03 24	10 39.23	+08 25.3	1.576	2.514	154.7	9.7	15.6
1993 02 22	11 06.37	+05 36.4	1.739	2.714	168.0	4.4	16.8
- 6.96 -0.46	+ 50.4 + 2.8	2146 T-1	19321	- 5.61 +0.85		+ 40.2	- 5.6
1993 03 24	10 45.08	+08 08.0	1.794	2.736	156.2	8.5	17.0
1993 02 22	11 05.97	-07 30.3	2.153	3.097	159.1	6.5	17.0
- 6.95 -0.40	+ 42.9 + 7.9	1980 TO5	17956	- 5.89 +0.71		+ 67.4	- 0.3
1993 03 24	10 44.67	-04 29.6	2.174	3.120	157.8	6.9	17.1
1993 02 22	11 06.25	+00 21.1	2.719	3.684	165.1	4.0	17.9
- 7.08 -0.31	+ 33.4 + 3.5	1990 SJ16	19306	- 6.17 +0.58		+ 38.0	- 2.0
1993 03 24	10 44.73	+02 18.5	2.768	3.710	157.7	5.9	18.0
1993 02 22	11 08.01	+03 36.2	1.912	2.884	166.7	4.5	16.4
- 8.28 -0.46	+ 15.9 + 3.1	1980 TH	16228	- 6.96 +0.84		+ 15.5	- 3.0
1993 03 24	10 42.76	+04 34.6	1.962	2.905	156.8	7.8	16.6
1993 02 22	11 07.73	+10 07.2	2.082	3.058	168.6	3.7	16.4
- 7.42 -0.47	+ 36.1 + 0.5	1982 FX3	13856	- 6.54 +0.73		+ 18.7	- 5.6
1993 03 24	10 44.57	+11 40.8	2.095	3.026	154.5	8.2	16.6
1993 02 22	11 09.90	+16 39.2	1.809	2.781	166.6	4.7	17.0
- 8.73 -0.53	+ 69.8 - 2.9	1991 VF4	19682	- 7.35 +0.92		+ 26.4	- 9.9
1993 03 24	10 43.10	+19 16.4	1.882	2.789	149.8	10.3	17.4
1993 02 22	11 10.20	+02 26.8	1.374	2.345	165.6	6.0	16.4
- 8.59 -0.58	+ 56.9 + 5.2	1989 CA	19024	- 6.67 +1.10		+ 52.2	- 6.1
1993 03 24	10 44.21	+05 31.5	1.450	2.399	156.9	9.4	16.7
1993 02 22	11 09.59	+00 48.4	1.419	2.388	164.8	6.2	17.1
- 7.38 -0.69	+ 48.3 + 7.0	2103 P-L	9298	- 6.46 +0.97		+ 57.1	- 4.3
1993 03 24	10 45.76	+03 47.6	1.403	2.355	157.7	9.3	17.2
1993 02 22	11 12.12	+19 49.1	1.766	2.732	164.5	5.6	17.9
- 8.94 -0.47	+ 69.8 - 5.4	1979 YQ	12705	- 7.07 +0.98		+ 15.1	-10.7
1993 03 24	10 45.43	+22 06.3	1.904	2.802	148.3	10.8	18.3
1993 02 22	11 13.05	-01 34.2	1.495	2.456	162.6	6.9	16.8
- 9.84 -0.66	+ 33.1 + 7.3	1991 QD	19033	- 8.34 +1.08		+ 47.3	- 2.8
1993 03 24	10 42.56	+00 45.1	1.532	2.482	157.4	8.9	17.0
1993 02 22	11 09.25	-07 16.9	2.098	3.041	158.8	6.7	16.5
- 6.60 -0.44	+ 52.3 + 8.2	(5068)	19670	- 5.73 +0.69		+ 76.8	- 0.7
1993 03 24	10 48.67	-03 46.8	2.106	3.058	158.9	6.7	16.6
1993 02 22	11 12.41	+03 04.1	1.904	2.872	165.5	4.9	18.1
- 8.81 -0.52	+ 45.1 + 3.8	1991 UG3	20028	- 7.67 +0.84		+ 42.8	- 4.3
1993 03 24	10 45.19	+05 30.9	1.950	2.894	157.1	7.7	18.3
1993 02 22	11 11.34	+17 12.6	2.598	3.566	166.1	3.8	17.4
- 7.18 -0.35	+ 54.7 - 2.5	1991 XC1	19684	- 6.22 +0.63		+ 22.6	- 7.2
1993 03 24	10 49.44	+19 17.1	2.705	3.610	150.9	7.7	17.7

1993 02 22	11 11.65	+03	17.5	1.342	2.314	165.8	6.0	14.9
- 6.20 -0.67	+ 86.3 + 6.4		1988 AL	13450	- 5.21 +0.95	+ 80.2 - 7.9		
1993 03 24	10 51.54	+07	53.7	1.359	2.313	157.7	9.4	15.1
1993 02 22	11 13.33	+03	46.7	2.576	3.542	165.6	4.0	17.2
- 5.69 -0.39	+ 40.9 + 2.9		1973 SJ1	13164	- 5.28 +0.51	+ 39.8 - 3.1		
1993 03 24	10 55.22	+05	58.8	2.577	3.528	159.3	5.7	17.3
1993 02 22	11 17.49	+25	18.7	1.696	2.647	159.9	7.4	16.3
- 7.39 -0.75	+114.9 - 5.8		1989 GM	17208	- 7.06 +0.86	+ 43.6 -15.4		
1993 03 24	10 52.82	+29	34.1	1.724	2.595	143.6	13.2	16.5
1993 02 22	11 17.81	-01	09.7	1.693	2.652	162.0	6.6	17.0
- 7.82 -0.59	+ 66.8 + 6.9		1983 RQ4	14018	- 6.92 +0.84	+ 74.5 - 4.3		
1993 03 24	10 53.04	+02	42.9	1.732	2.689	159.7	7.4	17.1
1993 02 22	11 17.94	+22	34.9	2.051	3.007	161.7	5.9	15.7
- 7.66 -0.53	+ 57.2 - 5.2		(5162)	19994	- 6.78 +0.77	+5.9 -10.2		
1993 03 24	10 53.88	+24	18.7	2.132	3.024	148.0	10.1	16.0
1993 02 22	11 18.28	-02	25.9	1.278	2.237	161.0	8.3	17.4
- 6.91 -0.85	+ 30.6 + 9.2		1978 VX3	20328	- 6.60 +0.96	+ 55.0 - 2.0		
1993 03 24	10 54.66	+00	03.4	1.243	2.208	160.4	8.7	17.3
1993 02 22	11 20.94	-02	42.6	1.847	2.799	160.4	6.8	18.1
- 8.75 -0.74	+ 35.8 + 7.2		1987 SO	14620	- 8.78 +0.74	+ 55.6 - 1.3		
1993 03 24	10 51.91	-00	09.6	1.792	2.749	159.8	7.2	18.0
1993 02 22	11 18.49	+06	08.1	2.091	3.059	165.3	4.7	17.4
- 6.98 -0.54	+ 53.7 + 2.7		1985 RC4	13475	- 6.61 +0.65	+ 45.1 - 5.1		
1993 03 24	10 55.93	+08	50.7	2.098	3.047	158.3	6.9	17.5
1993 02 22	11 18.88	+12	34.1	2.184	3.153	165.8	4.4	18.1
- 6.91 -0.46	+ 61.6 - 0.7		1991 VP4	20339	- 6.21 +0.66	+ 34.9 - 7.3		
1993 03 24	10 57.13	+15	11.0	2.265	3.197	155.0	7.6	18.3
1993 02 22	11 22.71	-05	07.2	1.452	2.399	158.4	8.7	16.8
- 9.05 -1.11	+ 25.0 +10.4		1990 SG4	18822	-10.39 +0.79	+ 65.2 + 1.1		
1993 03 24	10 50.04	-02	34.9	1.310	2.270	159.3	8.9	16.5
1993 02 22	11 24.89	+04	39.5	1.678	2.641	163.4	6.2	17.1
- 8.72 -0.76	+ 48.9 + 4.0		1991 UU3	19515	- 8.53 +0.82	+ 43.5 - 5.5		
1993 03 24	10 56.08	+07	15.6	1.672	2.627	159.0	7.8	17.2
1993 02 22	11 24.32	+02	25.7	1.242	2.206	162.6	7.7	17.4
- 7.89 -0.85	+ 73.1 + 6.7		6583 P-L	20515	- 7.16 +1.04	+ 68.9 - 7.6		
1993 03 24	10 58.24	+06	25.1	1.276	2.239	159.9	8.8	17.6
1993 02 22	11 25.78	-06	15.9	1.305	2.249	157.0	9.9	16.2
- 8.55 -1.11	-8.6 + 9.9		1990 QC1	17024	- 9.45 +0.90	+ 34.4 + 2.5		
1993 03 24	10 55.05	-05	23.6	1.211	2.176	160.2	8.9	15.9
1993 02 22	11 25.39	-00	43.9	1.712	2.666	160.7	7.0	18.3
- 8.78 -0.77	+ 26.8 + 6.2		1987 QS	15414	- 8.72 +0.79	+ 40.4 - 2.1		
1993 03 24	10 56.26	+01	12.2	1.687	2.649	160.7	7.1	18.3
1993 02 22	11 26.07	+15	47.8	1.698	2.661	163.3	6.1	16.9
- 8.97 -0.73	+ 67.8 - 2.2		1991 RH25	20641	- 8.41 +0.88	+ 25.0 -10.4		
1993 03 24	10 57.02	+18	22.1	1.748	2.674	152.9	9.8	17.1

1993 02 22	11 23.15	+07 44.8	1.890	2.856	164.6	5.3	16.7
- 6.60 -0.64	+ 45.9 + 2.2	1982 FP3	18622	- 6.55 +0.65	+ 33.7 - 5.8		
1993 03 24	11 01.06	+09 58.9	1.876	2.829	158.9	7.3	16.8
1993 02 22	11 22.26	+01 20.1	2.086	3.044	162.5	5.6	16.4
- 5.86 -0.53	+ 67.5 + 5.1	1976 GM7	15550	- 5.69 +0.58	+ 70.4 - 4.1		
1993 03 24	11 02.88	+05 03.9	2.088	3.049	161.4	6.0	16.4
1993 02 22	11 26.69	+04 45.4	1.673	2.635	163.0	6.3	18.1
- 8.45 -0.75	+ 71.9 + 4.3	(5272)	20617	- 8.22 +0.81	+ 63.2 - 6.7		
1993 03 24	10 58.80	+08 28.6	1.686	2.641	159.1	7.7	18.2
1993 02 22	11 25.39	-07 22.7	2.390	3.320	156.3	6.9	16.8
- 7.00 -0.54	+ 17.9 + 6.9	1990 RB	19504	- 7.03 +0.53	+ 43.7 + 1.0		
1993 03 24	11 02.38	-05 39.5	2.356	3.318	161.9	5.3	16.7
1993 02 22	11 29.38	+07 32.3	1.497	2.460	163.0	6.7	17.4
- 9.75 -0.83	+ 34.9 + 2.0	1978 YM	20010	- 9.17 +0.98	+ 18.8 - 6.5		
1993 03 24	10 57.65	+09 08.4	1.532	2.486	158.6	8.4	17.6
1993 02 22	11 27.38	+01 56.8	1.677	2.635	161.7	6.8	17.4
- 7.95 -0.68	+ 64.0 + 5.2	1972 RX1	19010	- 7.47 +0.80	+ 62.6 - 5.4		
1993 03 24	11 01.51	+05 26.3	1.719	2.682	161.0	7.0	17.5
1993 02 22	11 28.15	+06 25.6	1.202	2.167	163.1	7.6	17.1
- 7.84 -0.91	+ 52.0 + 3.6	1989 AW6	14955	- 7.27 +1.04	+ 35.4 - 8.1		
1993 03 24	11 01.88	+08 58.4	1.241	2.203	159.5	9.1	17.3
1993 02 22	11 28.68	-24 31.2	1.252	2.119	141.6	16.9	17.5
- 8.20 -1.09	+ 57.6 +23.9	1977 FT	13463	- 8.31 +1.06	+173.6 + 9.6		
1993 03 24	10 59.93	-18 18.1	1.177	2.124	155.4	11.3	17.2
1993 02 22	11 29.42	+14 50.7	1.592	2.554	162.8	6.6	16.5
- 8.01 -0.95	+100.8 + 0.9	1990 KB1	16700	- 8.79 +0.75	+ 62.6 -12.2		
1993 03 24	11 01.07	+19 20.0	1.548	2.478	152.8	10.6	16.6
1993 02 22	11 29.69	+04 24.2	1.416	2.377	162.1	7.3	17.6
- 8.42 -0.80	+ 45.1 + 4.1	(5210)	20136	- 7.85 +0.94	+ 37.5 - 6.1		
1993 03 24	11 02.06	+06 46.9	1.463	2.426	160.6	7.9	17.7
1993 02 22	11 30.49	+02 22.4	1.819	2.774	161.2	6.6	18.2
- 8.44 -0.68	+ 48.3 + 4.5	(5063)	19668	- 8.15 +0.75	+ 47.9 - 4.4		
1993 03 24	11 02.96	+05 03.2	1.854	2.817	161.4	6.5	18.3
1993 02 22	11 31.03	+11 21.0	1.489	2.452	162.9	6.8	17.3
- 8.70 -0.84	+ 81.9 + 0.6	1988 VK	19023	- 8.37 +0.92	+ 46.9 -10.6		
1993 03 24	11 02.19	+14 54.9	1.536	2.481	156.1	9.4	17.5
1993 02 22	11 27.47	+05 47.1	2.662	3.620	163.1	4.6	17.5
- 6.35 -0.45	+ 46.6 + 2.0	1984 QJ	17630	- 6.26 +0.47	+ 40.1 - 3.9		
1993 03 24	11 06.86	+08 08.1	2.691	3.649	161.0	5.1	17.6
1993 02 22	11 29.29	+03 00.8	1.907	2.863	161.7	6.2	17.5
- 7.43 -0.66	+ 54.4 + 4.4	1974 SK1	19494	- 7.40 +0.66	+ 53.2 - 4.6		
1993 03 24	11 04.60	+05 58.8	1.916	2.879	161.5	6.3	17.5
1993 02 22	11 30.09	+09 07.3	1.636	2.598	163.1	6.4	16.6
- 7.44 -0.77	+ 54.0 + 1.7	1978 VY14	14613	- 7.46 +0.76	+ 33.9 - 7.6		
1993 03 24	11 04.91	+11 36.4	1.647	2.602	158.7	8.0	16.7

1993 02 22	11 31.32	-05 28.4	1.089	2.035	156.6	11.1	14.9
- 8.01 -1.09	+ 29.0 +12.3	1991 PQ10	19506	- 8.01 +1.09	+ 67.0 - 1.2		
1993 03 24	11 03.25	-02 39.2	1.084	2.057	162.6	8.3	14.8
1993 02 22	11 30.17	+08 53.0	1.805	2.766	163.0	6.0	16.5
- 7.42 -0.68	+ 65.8 + 1.6	1991 UL2	19513	- 7.28 +0.71	+ 45.5 - 7.5		
1993 03 24	11 05.56	+11 56.8	1.842	2.794	158.7	7.5	16.6
1993 02 22	11 30.87	+14 02.0	2.529	3.486	162.6	4.9	16.6
- 7.90 -0.57	+ 30.4 - 1.0	1953 FK1	17953	- 8.07 +0.52	+7.1 - 6.0		
1993 03 24	11 04.91	+15 07.4	2.517	3.454	156.5	6.6	16.7
1993 02 22	11 29.70	+03 46.5	1.973	2.930	161.9	6.0	16.4
- 6.43 -0.60	+ 47.0 + 3.6	1991 VY3	19521	- 6.36 +0.61	+ 43.7 - 4.4		
1993 03 24	11 08.28	+06 17.4	2.002	2.967	162.2	5.9	16.4
1993 02 22	11 31.04	+05 26.7	2.022	2.979	162.1	5.8	17.2
- 7.03 -0.62	+ 43.7 + 2.8	1991 XR1	20932	- 7.05 +0.61	+ 36.8 - 4.8		
1993 03 24	11 07.66	+07 41.3	2.040	3.002	161.4	6.1	17.2
1993 02 22	11 30.06	+06 49.4	2.699	3.655	162.7	4.6	17.9
- 6.38 -0.48	+ 45.5 + 1.8	1979 SU11	18804	- 6.49 +0.44	+ 37.7 - 4.1		
1993 03 24	11 09.07	+09 05.1	2.704	3.661	161.0	5.1	17.9
1993 02 22	11 36.67	+12 33.3	1.441	2.399	161.5	7.5	15.8
- 9.18 -0.91	+9.6 - 1.4	(5196)	20007	- 8.95 +0.95	- 20.3 - 7.2		
1993 03 24	11 06.03	+12 28.1	1.476	2.431	158.4	8.7	16.0
1993 02 22	11 35.68	+03 06.1	1.288	2.244	160.3	8.6	16.5
- 7.91 -0.95	+ 37.7 + 5.4	1989 CP	20635	- 7.91 +0.93	+ 36.6 - 5.5		
1993 03 24	11 08.46	+05 17.7	1.313	2.284	162.6	7.5	16.5
1993 02 22	11 33.54	+06 07.3	2.685	3.637	161.7	4.9	18.3
- 6.56 -0.47	+ 42.5 + 1.8	1979 SD9	15702	- 6.58 +0.45	+ 35.2 - 3.9		
1993 03 24	11 12.13	+08 14.3	2.728	3.690	162.1	4.8	18.3
1993 02 22	11 34.23	-03 15.6	2.153	3.090	157.4	7.1	17.6
- 6.73 -0.64	+ 39.9 + 6.4	1981 TJ	20497	- 7.13 +0.52	+ 57.1 - 1.2		
1993 03 24	11 11.31	-00 36.1	2.121	3.093	164.6	4.9	17.5
1993 02 22	11 33.68	+05 29.2	2.752	3.704	161.5	4.9	18.0
- 6.10 -0.48	+ 45.0 + 2.2	1984 SY5	17435	- 6.34 +0.41	+ 40.1 - 3.7		
1993 03 24	11 13.39	+07 47.6	2.754	3.717	162.6	4.6	18.0
1993 02 22	11 37.05	-02 55.2	1.987	2.924	157.1	7.6	17.8
- 7.70 -0.77	+ 43.5 + 7.1	1987 SX17	15415	- 8.45 +0.56	+ 62.6 - 1.4		
1993 03 24	11 10.37	-00 00.3	1.927	2.900	164.4	5.3	17.6
1993 02 22	11 38.10	-30 55.7	1.784	2.580	+1.47	-4.0	18.2
- 7.50 -1.07	-2.6 +17.9	1990 KO	17210	- 9.22 +0.62	+108.7 +15.7		
1993 03 24	11 09.89	-28 12.8	1.603	2.512	+1.54	-6.2	17.7
1993 02 22	11 38.38	-05 22.3	1.528	2.461	155.3	9.7	16.4
- 7.56 -0.92	+ 25.2 + 9.3	1976 YE1	19495	- 8.21 +0.73	+ 56.0 - 0.2		
1993 03 24	11 11.68	-03 02.9	1.499	2.475	164.7	6.1	16.2
1993 02 22	11 36.42	-01 34.0	2.239	3.177	158.0	6.7	17.1
- 6.88 -0.62	+ 13.2 + 4.9	1978 RY6	17815	- 7.24 +0.51	+ 26.3 - 0.8		
1993 03 24	11 13.17	-00 24.2	2.223	3.197	165.1	4.6	17.0



1993 02 22	11 35.87	+11 29.0	1.866	2.822	161.7	6.3	16.8
- 6.39 -0.79	+ 98.1 + 2.4	1989 GJ	18817	- 7.30 +0.54	+ 74.8 - 9.4		
1993 03 24	11 12.87	+16 10.1	1.825	2.771	157.1	8.1	16.8
1993 02 22	11 38.73	+06 27.4	1.738	2.691	160.6	7.0	16.9
- 7.68 -0.76	+ 37.9 + 2.5	1986 QY	12942	- 7.85 +0.70	+ 27.1 - 5.6		
1993 03 24	11 12.74	+08 19.8	1.771	2.737	162.2	6.4	16.9
1993 02 22	11 40.41	-06 02.5	1.989	2.914	154.5	8.4	16.9
- 8.31 -0.83	-4.6 + 6.9	1990 OO2	20637	- 9.28 +0.55	+ 24.2 + 1.7		
1993 03 24	11 11.47	-05 23.5	1.919	2.891	164.2	5.4	16.7
1993 02 22	11 35.44	+12 47.5	2.715	3.668	161.7	4.9	17.4
- 6.01 -0.50	+ 73.9 0.0	1990 QZ4	20926	- 6.29 +0.41	+ 51.8 - 6.7		
1993 03 24	11 15.30	+16 08.3	2.751	3.692	157.5	5.9	17.5
1993 02 22	11 39.86	+06 55.7	1.244	2.201	160.4	8.7	16.0
- 7.93 -1.01	+ 40.1 + 3.0	(5125)	19843	- 8.10 +0.94	+ 23.9 - 7.5		
1993 03 24	11 12.20	+08 51.2	1.278	2.247	161.8	8.0	16.1
1993 02 22	11 37.34	-03 59.4	1.972	2.905	156.4	7.8	16.3
- 6.20 -0.71	+ 62.9 + 8.0	(5290)	20624	- 6.85 +0.52	+ 83.4 - 1.8		
1993 03 24	11 15.50	-00 01.9	1.928	2.904	165.6	4.9	16.2
1993 02 22	11 39.13	+12 26.5	1.879	2.832	160.9	6.6	15.9
- 7.26 -0.77	+ 32.2 - 0.3	(5117)	19840	- 7.78 +0.61	+ 7.1 - 7.1		
1993 03 24	11 14.03	+13 38.0	1.874	2.828	159.1	7.2	16.0
1993 02 22	11 39.83	+09 05.8	1.711	2.665	160.7	7.1	16.3
- 7.37 -0.81	+ 41.6 + 1.4	1986 UM1	14790	- 7.82 +0.67	+ 23.3 - 6.8		
1993 03 24	11 14.29	+10 58.3	1.723	2.685	160.9	7.0	16.3
1993 02 22	11 43.64	-01 36.5	1.249	2.192	156.4	10.4	16.6
- 7.65 -1.13	+ 28.5 + 8.7	1988 XY1	19302	- 8.72 +0.83	+ 49.3 - 2.6		
1993 03 24	11 15.43	+00 41.1	1.226	2.205	165.5	6.5	16.4
1993 02 22	11 44.06	-03 54.9	1.643	2.574	155.1	9.3	18.1
- 7.61 -0.92	+ 56.5 + 9.0	1991 SN1	20822	- 8.58 +0.64	+ 80.0 - 2.1		
1993 03 24	11 16.88	-00 09.5	1.607	2.586	166.0	5.4	17.8
1993 02 22	11 44.57	-00 16.3	1.939	2.875	156.8	7.8	18.2
- 7.39 -0.82	+ 52.8 + 6.3	1987 QR	15887	- 8.43 +0.52	+ 64.0 - 2.9		
1993 03 24	11 18.38	+02 56.0	1.889	2.866	165.8	4.9	18.0
1993 02 22	11 45.61	+00 05.1	1.982	2.917	156.8	7.7	18.4
- 7.45 -0.79	+ 39.8 + 5.5	1991 UJ4	20028	- 8.40 +0.52	+ 49.4 - 2.6		
1993 03 24	11 19.42	+02 33.9	1.945	2.923	166.1	4.7	18.2
1993 02 22	11 44.79	-10 47.2	2.068	2.969	150.5	9.4	16.8
- 6.34 -0.76	+ 10.4 + 8.9	1985 TS1	17631	- 7.43 +0.45	+ 49.9 + 3.0		
1993 03 24	11 21.90	-09 06.1	1.994	2.969	165.2	4.9	16.5
1993 02 22	11 59.80	+55 06.6	1.075	1.880	131.1	23.4	17.1
-11.64 -2.47	+124.4 -28.8	1991 MA	18641	-12.99 +2.02	- 74.8 -30.7		
1993 03 24	11 14.41	+56 24.2	1.152	1.872	121.0	27.2	17.4
1993 02 22	11 47.06	+02 03.8	2.473	3.407	157.3	6.4	18.3
- 6.00 -0.61	+ 40.4 + 3.7	1306 T-2	17652	- 6.74 +0.38	+ 43.2 - 2.8		
1993 03 24	11 26.14	+04 21.2	2.462	3.441	167.0	3.7	18.2

1993 02 22	11 47.04	+04 37.1	2.695	3.631	158.1	5.8	18.4
- 6.03 -0.57	+ 41.7 + 2.6	1990 SV12	18123	- 6.75 +0.34	+ 39.1 - 3.4		
1993 03 24	11 26.20	+06 49.3	2.681	3.656	165.8	3.8	18.3
1993 02 22	11 54.36	+08 57.2	1.371	2.315	157.1	9.6	17.9
- 8.42 -1.14	+ 49.0 + 2.1	1988 VP3	18814	- 9.64 +0.78	+ 26.3 - 8.6		
1993 03 24	11 23.72	+11 10.0	1.383	2.353	162.5	7.3	17.9
1993 02 22	11 51.53	+06 13.2	1.434	2.378	157.4	9.2	17.3
- 7.05 -1.03	+ 82.1 + 4.4	1991 RM6	20026	- 8.20 +0.68	+ 66.1 - 9.0		
1993 03 24	11 25.50	+10 20.2	1.451	2.423	163.4	6.7	17.2
1993 02 22	11 47.69	+04 48.4	2.169	3.108	158.0	6.9	17.5
- 5.70 -0.69	+ 70.0 + 3.7	1985 QR	10403	- 6.61 +0.41	+ 64.7 - 5.3		
1993 03 24	11 27.21	+08 27.1	2.162	3.135	165.0	4.7	17.4
1993 02 22	11 52.71	-05 49.9	2.012	2.924	152.2	9.1	17.9
- 7.48 -0.92	-1.5 + 6.8	3045 P-L	17836	- 9.29 +0.40	+ 26.9 + 1.7		
1993 03 24	11 25.13	-05 02.6	1.906	2.887	167.6	4.3	17.5
1993 02 22	11 51.15	-10 22.1	1.889	2.788	149.7	10.3	17.8
- 6.75 -0.88	+ 37.5 +10.4	1987 ST17	15250	- 8.15 +0.47	+ 79.2 + 2.1		
1993 03 24	11 26.32	-07 11.9	1.818	2.799	167.1	4.6	17.4
1993 02 22	11 50.95	-05 39.6	1.616	2.536	152.7	10.3	17.6
- 6.31 -1.09	+ 24.8 + 9.5	1989 GR3	17443	- 8.80 +0.40	+ 62.5 + 1.5		
1993 03 24	11 25.55	-03 14.1	1.470	2.455	168.1	4.8	17.1
1993 02 22	11 56.64	+05 20.1	1.408	2.346	156.0	9.9	17.6
- 7.99 -1.13	+ 42.5 + 4.1	2530 P-L	19874	- 9.43 +0.70	+ 34.1 - 6.5		
1993 03 24	11 27.12	+07 34.6	1.409	2.388	165.5	6.0	17.5
1993 02 22	11 51.59	+03 45.5	1.399	2.341	156.8	9.6	16.7
- 5.47 -1.14	+103.5 + 9.1	1986 JA	17017	- 7.92 +0.47	+109.9 - 7.8		
1993 03 24	11 28.52	+09 37.0	1.305	2.281	164.5	6.7	16.4
1993 02 22	11 55.34	+07 14.6	1.261	2.204	156.6	10.2	16.4
- 6.81 -1.20	+ 73.8 + 4.3	1981 WR	14017	- 8.52 +0.70	+ 55.1 - 9.8		
1993 03 24	11 28.82	+10 54.2	1.260	2.234	163.6	7.3	16.3
1993 02 22	11 58.24	+03 43.5	1.597	2.529	155.2	9.5	18.2
- 7.86 -1.12	+ 18.9 + 4.2	3174 T-1	19323	- 9.96 +0.52	+ 20.1 - 3.9		
1993 03 24	11 28.47	+04 57.0	1.533	2.515	167.3	5.0	17.9
1993 02 22	11 54.27	+04 40.6	1.673	2.610	156.4	8.7	17.3
- 6.21 -0.88	+ 55.5 + 3.9	6571 P-L	20346	- 7.28 +0.55	+ 48.1 - 6.0		
1993 03 24	11 31.41	+07 34.4	1.703	2.683	166.4	5.0	17.2
1993 02 22	11 53.63	-04 40.8	2.600	3.508	152.7	7.4	17.2
- 6.04 -0.64	+ 21.5 + 5.5	(5229)	20321	- 7.15 +0.31	+ 40.1 + 0.2		
1993 03 24	11 32.09	-02 58.6	2.543	3.529	169.7	2.9	17.0
1993 02 22	11 57.66	+19 42.9	2.277	3.201	155.0	7.5	18.1
- 7.63 -0.77	+ 62.0 - 2.8	1991 UV2	19513	- 8.62 +0.47	+ 20.5 - 9.7		
1993 03 24	11 31.00	+21 59.4	2.319	3.248	154.5	7.6	18.1
1993 02 22	11 58.99	-03 57.2	1.661	2.576	151.9	10.4	17.8
- 7.15 -1.04	+ 34.9 + 8.3	1991 UF	20510	- 9.05 +0.49	+ 60.3 - 0.9		
1993 03 24	11 31.87	-01 17.5	1.606	2.593	169.8	3.9	17.5

1993 02 22	11 59.18	+10	49.7	1.246	2.187	156.0	10.6	17.8
- 6.58 -1.35	+ 62.4 + 2.7		4310	T-3	20347	- 9.35 +0.59	+ 34.9	-11.1
1993 03 24	11 31.70	+13	41.3	1.188	2.158	161.8	8.3	17.6
1993 02 22	11 58.95	+02	44.8	1.829	2.756	154.7	8.8	17.4
- 7.26 -0.93	+ 33.6 + 4.5		(5047)		19662	- 8.81 +0.47	+ 36.1	- 3.7
1993 03 24	11 32.25	+04	44.5	1.801	2.785	168.2	4.2	17.2
1993 02 22	12 00.33	+04	41.3	2.265	3.189	154.9	7.6	18.3
- 7.03 -0.85	+ 29.9 + 3.1		1977	QD3	12005	- 8.89 +0.30	+ 29.1	- 3.5
1993 03 24	11 34.33	+06	22.0	2.170	3.151	167.7	3.9	18.0
1993 02 22	12 00.76	+01	13.4	1.728	2.652	153.8	9.5	18.4
- 7.03 -0.97	+ 38.7 + 5.5		1981	EA19	20329	- 8.66 +0.49	+ 45.3	- 3.5
1993 03 24	11 34.54	+03	36.0	1.710	2.696	169.2	4.0	18.2
1993 02 22	12 02.30	-05	08.4	1.634	2.543	150.6	11.0	18.3
- 6.96 -1.16	+ 32.2 + 9.3		1971	QN	9472	- 9.80 +0.37	+ 66.6	+ 0.6
1993 03 24	11 34.33	-02	24.1	1.513	2.501	170.4	3.8	17.7
1993 02 22	11 59.09	-10	18.6	2.307	3.191	148.2	9.4	17.0
- 6.15 -0.77	+5.3 + 7.7		1985	TA2	18284	- 7.71 +0.31	+ 40.0	+ 2.9
1993 03 24	11 36.31	-09	01.9	2.230	3.212	168.1	3.7	16.6
1993 02 22	12 01.87	-00	13.3	1.655	2.576	153.0	10.1	17.8
- 6.76 -1.00	+ 53.9 + 6.8		1976	UD4	19011	- 8.47 +0.49	+ 64.0	- 3.8
1993 03 24	11 36.25	+03	03.1	1.641	2.628	169.9	3.8	17.5
1993 02 22	12 04.48	+01	31.6	1.432	2.356	153.0	11.0	18.1
- 7.21 -1.18	+ 60.5 + 7.0		1988	UT	19023	- 9.33 +0.56	+ 65.6	- 5.6
1993 03 24	11 36.45	+05	04.0	1.414	2.400	168.9	4.6	17.9
1993 02 22	11 58.84	+02	00.6	2.245	3.166	154.5	7.7	16.7
- 5.00 -0.73	+ 74.8 + 5.0		1990	QG2	18821	- 6.44 +0.29	+ 77.8	- 4.2
1993 03 24	11 39.79	+06	06.4	2.210	3.194	168.9	3.4	16.5
1993 02 22	12 00.37	+04	42.6	2.560	3.482	154.9	6.9	18.4
- 5.70 -0.66	+ 43.7 + 2.8		3327	T-2	21126	- 6.95 +0.28	+ 41.1	- 3.6
1993 03 24	11 39.66	+07	01.8	2.538	3.520	168.2	3.3	18.2
1993 02 22	12 04.16	-05	17.4	1.805	2.708	150.1	10.5	17.9
- 6.59 -1.03	+ 32.8 + 8.5		(5218)		20316	- 8.98 +0.34	+ 62.8	+ 0.4
1993 03 24	11 38.27	-02	39.0	1.708	2.698	171.3	3.2	17.4
1993 02 22	12 06.98	+03	27.8	1.335	2.262	153.0	11.5	17.3
- 7.18 -1.33	+ 43.5 + 6.0		(5018)		19486	- 9.99 +0.53	+ 44.9	- 5.8
1993 03 24	11 37.79	+06	02.3	1.286	2.272	168.6	5.0	16.9
1993 02 22	12 04.89	+00	22.2	1.903	2.817	152.5	9.3	18.4
- 6.80 -0.94	+ 53.9 + 6.0		1991	TH2	19509	- 8.69 +0.38	+ 63.0	- 3.4
1993 03 24	11 39.21	+03	35.0	1.860	2.848	170.3	3.4	18.1
1993 02 22	12 05.60	-09	23.8	1.942	2.827	147.5	10.8	18.4
- 6.82 -0.99	+ 26.8 + 9.4		1991	UH4	20642	- 9.12 +0.32	+ 66.8	+ 2.5
1993 03 24	11 39.26	-06	50.8	1.839	2.826	170.0	3.5	17.9
1993 02 22	12 05.52	-01	19.4	1.259	2.181	151.7	12.4	17.2
- 6.34 -1.27	+ 39.9 + 8.7		1989	AC2	20634	- 8.72 +0.58	+ 58.0	- 3.5
1993 03 24	11 39.49	+01	29.9	1.242	2.233	171.2	3.9	16.9

1993 02 22	12 07.27	+00	50.9	1.754	2.669	152.1	10.0	18.0
- 6.94 -1.11	+ 26.2 + 5.7		1983	RT1	14474	- 9.65 +0.33	+ 37.7	- 2.4
1993 03 24	11 39.75	+02	41.7	1.655	2.644	170.8	3.5	17.5
1993 02 22	12 09.30	-01	49.6	1.517	2.428	150.6	11.5	17.6
- 5.63 -1.24	+ 53.6 + 9.4		1987	SR12	15888	- 9.12 +0.26	+ 80.5	- 1.9
1993 03 24	11 44.42	+01	52.3	1.389	2.381	172.2	3.2	17.0
1993 02 22	12 06.43	-06	04.1	2.393	3.282	149.2	8.9	17.7
- 5.28 -0.78	+ 54.7 + 7.6		1988	CV3	17821	- 7.27 +0.19	+ 81.3	+ 0.3
1993 03 24	11 45.82	-02	26.5	2.272	3.264	173.2	2.1	17.2
1993 02 22	12 06.81	-22	47.5	2.072	2.885	138.1	13.2	16.1
- 5.05 -0.97	- 25.9 +11.4		1987	DY4	20014	- 7.64 +0.22	+ 43.3	+ 9.8
1993 03 24	11 45.59	-22	18.7	1.930	2.879	158.1	7.4	15.7
1993 02 22	12 09.64	-00	18.0	1.716	2.626	151.1	10.5	17.3
- 5.79 -1.09	+ 73.3 + 8.2		1980	PB1	19013	- 8.60 +0.28	+ 89.9	- 3.6
1993 03 24	11 45.54	+04	08.8	1.622	2.612	171.3	3.3	16.9
1993 02 22	12 09.13	-12	52.0	2.349	3.207	144.7	10.3	16.0
- 5.68 -0.86	+7.7 + 8.4		1990	TL4	17826	- 8.03 +0.17	+ 49.9	+ 4.4
1993 03 24	11 46.66	-11	18.2	2.198	3.181	168.2	3.7	15.6
1993 02 22	12 12.24	+02	04.3	1.902	2.810	151.3	9.7	18.4
- 6.62 -1.01	+ 42.6 + 5.1		(5158)		19992	- 9.02 +0.30	+ 48.1	- 3.6
1993 03 24	11 46.37	+04	36.3	1.840	2.830	171.1	3.1	18.0
1993 02 22	12 09.28	+16	13.0	2.039	2.955	153.1	8.7	16.5
- 5.46 -0.93	+ 66.8 - 0.3		1982	BQ4	13157	- 7.70 +0.27	+ 34.5	- 9.6
1993 03 24	11 47.33	+19	02.1	1.997	2.948	158.7	7.1	16.4
1993 02 22	12 14.21	-10	25.8	1.211	2.100	145.2	15.6	15.9
- 6.19 -1.47	+1.3 +12.9		1991	PN18	20026	- 9.76 +0.47	+ 61.4	+ 4.5
1993 03 24	11 46.69	-08	36.2	1.150	2.139	170.3	4.5	15.3
1993 02 22	12 10.05	+16	53.3	2.074	2.989	152.8	8.7	17.1
- 5.44 -0.93	+ 67.8 - 0.5		(5039)		19658	- 7.76 +0.25	+ 34.7	- 9.7
1993 03 24	11 48.07	+19	44.2	2.024	2.972	158.0	7.2	16.9
1993 02 22	12 12.84	-06	48.9	1.661	2.551	147.5	12.0	18.4
- 5.94 -1.10	+ 46.3 +10.0		(5127)		19844	- 8.58 +0.33	+ 80.8	+ 0.1
1993 03 24	11 48.41	-03	20.0	1.597	2.591	173.6	2.4	17.9
1993 02 22	12 14.34	-04	17.8	1.233	2.139	148.4	14.0	16.9
- 5.79 -1.44	+ 24.4 +10.3		1988	WB	14356	- 9.48 +0.40	+ 59.7	- 0.3
1993 03 24	11 48.03	-01	52.1	1.163	2.157	173.8	2.9	16.3
1993 02 22	12 16.04	+02	38.9	1.903	2.807	150.6	10.0	18.5
- 6.78 -1.12	+ 16.9 + 4.2		1981	EY27	18807	-10.01 +0.19	+ 22.7	- 2.7
1993 03 24	11 48.45	+03	51.0	1.771	2.762	172.0	2.9	17.9
1993 02 22	12 10.43	+00	01.8	2.538	3.438	151.1	8.0	18.1
- 5.39 -0.72	+ 35.6 + 4.3		(5151)		19853	- 7.07 +0.21	+ 43.9	- 1.8
1993 03 24	11 50.04	+02	12.3	2.491	3.483	173.3	1.9	17.7
1993 02 22	12 16.28	-01	43.2	1.630	2.530	149.1	11.6	18.3
- 6.52 -1.28	+ 23.1 + 7.3		1977	RF2	12202	-10.35 +0.19	+ 46.2	- 0.8
1993 03 24	11 48.28	+00	15.6	1.489	2.483	173.7	2.5	17.6