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### EDITORIAL NOTICE

The second edition of L. D. Schmadel's *Dictionary of Minor Planet Names* has now been published and can be ordered from Springer-Verlag (Berlin, Heidelberg and New York) or via any local bookseller. The Berlin address is P.O. Box 313140, D-10643 Berlin. The hard-cover volume, containing viii + 741 pages (ISBN 3-540-57260-0, ISBN 0-387-57260-0 U.S.A.), costs DM 118.00 or \$US 69.00. The information in the book is complete through the batch of MPCs for 1993 Sept. 1 and refers to minor planets 1-5655, of which 4512 objects (80 percent) were named. The meaning of only 124 names (2.7 percent) is completely unknown. More than 94 percent of all the citations are interpreted as absolutely correct.

### ERRATA

MPC	Line	
22438	-23	For 7.4292 read 0.4954
22709	- 3	Add the note 1961 JF = (1022)
22711	-29 to -28	Add the note 1937 PB = (1437)
22794	-13	The orbit for 1991 DK is to be deleted
22805	20	For N. S. Chernykh read G. R. Kastel and L. V. Zhuravleva

### CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Reference	Mag.	N Obs.
1952 UB <sub>1</sub>	1952 10 24.20351	03 01 38.75	+26 43 20.1	MPC 6161		1 760	
1987 BB	1993 11 14.67273	04 27 56.25	+21 04 38.9	MPC22791	17.1	2 887	
1987 BB	1993 11 14.68281	04 27 55.59	+21 04 36.6	MPC22791		2 887	
1987 BB	1993 11 14.69671	04 27 54.83	+21 04 35.9	MPC22791		2 887	
(1878)	1982 11 15.34097	04 43 38.82	+20 01 20.2	MPC 7569		688	
(4751)	1993 10 15.83628	21 23 09.82	-16 18 20.3	MPC22631		494	

Note 1: 1952 UB<sub>1</sub> = (5685). 2: time corrected by -4 minutes.

### IDENTIFICATION CHANGES

Continuation to MPC 22711.

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Originally	Obs.
1993 OL <sub>13</sub>	* 1993 07 24.16042	19 41 17.50	-20 19 13.2	1993 OK <sub>9</sub>	809	
1993 OM <sub>13</sub>	* 1993 07 24.16042	19 41 26.51	-22 01 09.2	1993 OD <sub>9</sub>	809	
1993 ON <sub>13</sub>	* 1993 07 24.16042	19 42 08.72	-20 19 47.4	1993 ON <sub>9</sub>	809	

### ROMAN NUMERAL DESIGNATIONS OF COMETS IN 1992

The following tabulation continues that on MPC 21303.

Comet	T	Name	Letter	Reference
1992 I	Jan. 20.0	Helin-Lawrence	1991l	MPC 19654
1992 II	Jan. 25.4	P/Chernykh	1991o	MPC 18598
1992 III	Feb. 1.0	Zanotta-Brewington	1991g <sub>1</sub>	MPC 20774
1992 IV	Feb. 16.4	P/Mueller 4	1992g	MPC 20775
1992 V	Feb. 19.7	Helin-Alu	1991r	MPC 19468
1992 VI	Mar. 13.1	P/Kowal 1	1991i	MPC 20775
1992 VII	Mar. 19.5	Bradfield	1992b	MPC 19818
1992 VIII	Mar. 21.2	Mueller	1991h <sub>1</sub>	MPC 19818
1992 IX	Apr. 13.2	P/Giacobini-Zinner	1991m	IAUC 5225
1992 X	Apr. 22.7	Tanaka-Machholz	1992d	MPC 21758
1992 XI	May 3.4	McNaught-Russell	1991v	MPC 22196
1992 XII	May 20.1	P/Tsuchinshan 2	1991e <sub>1</sub>	IAUC 5403
1992 XIII	May 25.8	Bradfield	1992i	MPC 20481
1992 XIV	June 7.8	P/Brewington	1992p	MPC 22571
1992 XV	June 13.3	P/Shoemaker-Levy 8	1992f	MPC 20775
1992 XVI	July 8.7	Helin-Alu	1992a	MPC 22196
1992 XVII	July 11.0	Machholz	1992k	MPC 20602
1992 XVIII	July 22.1	P/Grigg-Skjellerup		MPC 14593
1992 XIX	July 24.5	Shoemaker-Levy	1991a <sub>1</sub>	MPC 20602
1992 XX	Aug. 3.6	Mueller	1993d	MPC 22382
1992 XXI	Aug. 5.9	P/Smirnova-Chernykh		MPC 14593
1992 XXII	Aug. 28.1	P/Wolf	1992m	IAUC 5567
1992 XXIII	Sept. 1.7	P/Daniel	1992o	IAUC 5581
1992 XXIV	Sept. 6.4	P/Schuster	1992n	MPC 20602
1992 XXV	Sept. 13.1	P/Giclas	1992l	IAUC 5561
1992 XXVI	Oct. 27.2	P/Singer Brewster	1992e	IAUC 5490
1992 XXVII	Nov. 1.6	Ohshita	1992a <sub>1</sub>	MPC 21533
1992 XXVIII	Dec. 12.3	P/Swift-Tuttle	1992t	MPC 21235

### OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

104	San Marcello Pistoiese. 0.4-m $f/2.5$ reflector + CCD. Observers L. Tesi and G. Cattani.
323	Perth Observatory, Bickley. 0.3-m astrograph. Observers T. Smith and A. Verveer.

- 360 Kuma Kogen. 0.60-m  $f/6.0$  Ritchey-Chrétien + CCD. Observer A. Nakamura.
- 365 Uto Observatory. 0.20-m  $f/4.0$  reflector. Observer F. Uto.
- 367 Yatsuka. 0.26-m  $f/4.8$  reflector. Observer H. Abe.
- 372 Geisei. 0.60-m  $f/3.5$  reflector. Observer T. Seki.
- 381 Kiso Observatory. 1.05-m Schmidt + CCD. Observers Aoki and J. Watanabe. Measured by Tarusawa.
- 385 Nihondaira Observatory Oohira Station. 0.31-m  $f/4.7$  reflector + CCD. Observer T. Urata.
- 391 Sendai Observatory, Ayashi Station. 0.30-m  $f/3.8$  reflector. Observer M. Koishikawa.
- 399 Kushiro. 0.25-m  $f/3.4$  hyperboloid astrocamera. Observer S. Ueda. Measured by H. Kaneda.
- 400 Kitami. 0.25-m  $f/2.6$  Schmidt. Observer K. Endate. Measured by K. Watanabe.
- 402 Dynic Astronomical Observatory. 0.25-m  $f/3.4$  Schmidt. Observer A. Sugie.
- 410 Sengamine. 0.20-m  $f/6.0$  reflector + CCD. Observer M. Hotta.
- 411 Oizumi. 0.25-m  $f/4.4$  reflector + CCD. Observer T. Kobayashi.
- 413 Siding Spring. Uppsala Southern Schmidt. Observers G. Garradd and R. H. McNaught.
- 474 Mt. John Observatory. 0.6-m reflector. Observers A. C. Gilmore and P. M. Kilmartin.
- 500 These geocentric positions refer to observations with the Hubble Space Telescope. Measured by H. Weaver.
- 540 Linz. 0.3-m  $f/5.2$  Schmidt-Cassegrain + CCD. Observers E. Meyer, E. Obermair and H. Raab.
- 557 Ondřejov. 0.65-m  $f/3.6$  reflector + CCD. Observer P. Pravec.
- 568 Mauna Kea. 2.2-m reflector + CCD. Observers D. Jewitt, J. Luu and D. J. Tholen. Measured by Jewitt, Tholen and J. V. Scotti.
- 596 Colleverde di Guidonia. 0.31-m  $f/2.8$  Baker-Schmidt + CCD. Observers V. S. Casulli and S. Valentini.
- 605 Marl. 0.2-m  $f/10$  Schmidt-Cassegrain + CCD. Observer E. Jung.  
 $\lambda = 7.1130$ ,  $\rho \cos \phi' = 0.62142$ ,  $\rho \sin \phi' = +0.78086$  (see *MPC* 22434).
- 657 Climenhaga Observatory, Victoria. 0.25-m reflector and 0.5-m reflector + CCD. Observers D. D. Balam and J. B. Tatum. Measured by D. D. Balam.
- 658 Dominion Astrophysical Observatory, Victoria. 1.82-m Plaskett telescope + CCD. Observers D. D. Balam, J. B. Tatum and G. C. L. Aikman. Measured by D. D. Balam.
- 675 Palomar. 1.2-m Schmidt. Observers D. J. Griffith, J. D. Mendenhall and J. Mueller. Measured by J. Mueller.
- 691 Kitt Peak. 0.91-m Spacewatch telescope. Observers T. Gehrels, R. Jedicke and J. V. Scotti.
- 696 Mt. Hopkins. 1.2-m reflector. Observer B. P. Schmidt. Measured by Schmidt and G. V. Williams.
- 711 McDonald Observatory. 2.1-m Struve reflector + CCD. Observers P. J. Shelus and A. L. Whipple. Measured by L. Eakins and R. Whited.
- 816 Rand Observatory, Lake Placid. 0.37-m reflector + CCD. Observer G. R. Viscome.
- 871 Akou. 0.33-m  $f/3.3$  reflector + CCD. Observer K. Kawanishi.
- 887 Ojima. 0.30-m  $f/5.8$  reflector + CCD. Observer T. Nijjima. Measurer T. Urata.

- 896 Yatsugatake South Base Observatory. 0.25-m  $f/3.4$  reflector. Observers Y. Kushida and O. Muramatsu. Measured by O. Muramatsu.
- 897 YGCO Chiyoda Observatory. 0.25-m  $f/3.4$  Wright-Schmidt camera + CCD. Observer T. Kojima.
- 900 Kiryuu Observatory, Ohtsu. 0.26-m  $f/2.9$  reflector. Observer Y. Ikari.
- 902 Ootake. 0.25-m  $f/3.3$  reflector. Observer K. Takehashi. Measured by H. Nakahira.

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.	N Obs.
<b>Periodic Comet Shoemaker-Levy 9</b>						
/1993e	1993 03 27.42014		12 25 10.65	-03 54 33.2		C 568
/1993e	1993 03 27.42014		12 25 10.44	-03 54 33.9		E 568
/1993e	1993 03 27.42014		12 25 10.22	-03 54 34.4		F 568
/1993e	1993 03 27.42014		12 25 10.04	-03 54 35.3		G 568
/1993e	1993 03 27.42014		12 25 09.75	-03 54 36.3		H 568
/1993e	1993 03 27.42014		12 25 09.39	-03 54 37.5		K 568
/1993e	1993 03 27.42014		12 25 09.09	-03 54 38.6		L 568
/1993e	1993 03 27.42014		12 25 08.56	-03 54 40.2		Q 568
/1993e	1993 03 27.42014		12 25 08.33	-03 54 41.0		R 568
/1993e	1993 03 27.42014		12 25 08.08	-03 54 42.0		S 568
/1993e	1993 03 27.42014		12 25 07.69	-03 54 43.2		W 568
/1993e	1993 04 15.26042		12 16 19.52	-03 00 34.5		C 568
/1993e	1993 04 15.26042		12 16 19.30	-03 00 35.4		E 568
/1993e	1993 04 15.26042		12 16 19.06	-03 00 36.0		F 568
/1993e	1993 04 15.26042		12 16 18.86	-03 00 36.9		G 568
/1993e	1993 04 15.26042		12 16 18.54	-03 00 38.0		H 568
/1993e	1993 04 15.26042		12 16 18.13	-03 00 39.4		K 568
/1993e	1993 04 15.26042		12 16 17.82	-03 00 40.7		L 568
/1993e	1993 04 15.26042		12 16 17.23	-03 00 42.6		Q 568
/1993e	1993 04 15.26042		12 16 16.97	-03 00 43.5		R 568
/1993e	1993 04 15.26042		12 16 16.70	-03 00 44.5		S 568
/1993e	1993 04 15.26042		12 16 16.26	-03 00 46.1		W 568
/1993e	1993 04 16.18392		12 15 55.53	-02 58 07.3		E 711
/1993e	1993 04 16.18392		12 15 55.10	-02 58 09.1		G 711
/1993e	1993 04 16.18392		12 15 54.78	-02 58 10.0		H 711
/1993e	1993 04 16.18392		12 15 54.38	-02 58 11.6		K 711
/1993e	1993 04 16.18392		12 15 54.05	-02 58 12.7		L 711
/1993e	1993 04 16.18392		12 15 53.47	-02 58 14.6		Q 711
/1993e	1993 04 16.18392		12 15 53.19	-02 58 15.7		R 711
/1993e	1993 04 16.18392		12 15 52.90	-02 58 16.6		S 711
/1993e	1993 04 16.18392		12 15 52.50	-02 58 18.3		W 711
/1993e	1993 04 17.26246		12 15 27.02	-02 55 21.3		K 711
/1993e	1993 04 17.26246		12 15 26.68	-02 55 22.4		L 711
/1993e	1993 04 17.26246		12 15 26.11	-02 55 23.9		Q 711
/1993e	1993 04 17.26246		12 15 25.78	-02 55 25.0		R 711
/1993e	1993 04 17.26246		12 15 25.58	-02 55 25.5		S 711
/1993e	1993 04 17.26246		12 15 25.15	-02 55 26.7		W 711
/1993e	1993 04 18.24771		12 15 03.62	-02 52 43.0		E 711
/1993e	1993 04 18.24771		12 15 03.37	-02 52 43.8		F 711
/1993e	1993 04 18.24771		12 15 03.17	-02 52 44.6		G 711
/1993e	1993 04 18.24771		12 15 02.83	-02 52 45.9		H 711
/1993e	1993 04 18.24771		12 15 02.44	-02 52 47.2		K 711

/1993e	1993 04 18.24771	12 15 02.11	-02 52 48.6	L 711	/1993e	1993 06 21.19698	12 08 45.95	-02 08 14.6	E 691
/1993e	1993 04 18.24771	12 15 01.51	-02 52 50.6	Q 711	/1993e	1993 06 21.19698	12 08 45.52	-02 08 16.6	G 691
/1993e	1993 04 18.24771	12 15 01.27	-02 52 51.5	R 711	/1993e	1993 06 21.19698	12 08 45.24	-02 08 17.6	H 691
/1993e	1993 04 18.24771	12 15 00.97	-02 52 52.2	S 711	/1993e	1993 06 21.19698	12 08 44.72	-02 08 19.5	K 691
/1993e	1993 04 18.24771	12 15 00.56	-02 52 54.0	W 711	/1993e	1993 06 21.19698	12 08 44.34	-02 08 21.1	L 691
/1993e	1993 04 19.32203	12 14 37.27	-02 49 57.8	E 711	/1993e	1993 06 21.19698	12 08 43.61	-02 08 24.1	Q 691
/1993e	1993 04 19.32203	12 14 37.04	-02 49 58.9	F 711	/1993e	1993 06 21.19698	12 08 42.94	-02 08 26.5	S 691
/1993e	1993 04 19.32203	12 14 36.80	-02 49 59.6	G 711	/1993e	1993 06 21.19698	12 08 42.52	-02 08 28.4	W 691
/1993e	1993 04 19.32203	12 14 36.48	-02 50 00.6	H 711	/1993e	1993 06 21.20907	12 08 45.57	-02 08 17.7	E 691
/1993e	1993 04 19.32203	12 14 36.07	-02 50 02.2	K 711	/1993e	1993 06 21.20907	12 08 45.25	-02 08 19.0	G 691
/1993e	1993 04 19.32203	12 14 35.75	-02 50 03.4	L 711	/1993e	1993 06 21.20907	12 08 44.84	-02 08 21.0	H 691
/1993e	1993 04 19.32203	12 14 35.14	-02 50 05.4	Q 711	/1993e	1993 06 21.20907	12 08 44.55	-02 08 22.1	K 691
/1993e	1993 04 19.32203	12 14 34.87	-02 50 06.4	R 711	/1993e	1993 06 21.20907	12 08 44.28	-02 08 23.2	L 691
/1993e	1993 04 19.32203	12 14 34.60	-02 50 07.4	S 711	/1993e	1993 06 21.20907	12 08 43.69	-02 08 25.4	Q 691
/1993e	1993 04 19.32203	12 14 34.19	-02 50 08.8	W 711	/1993e	1993 06 21.20907	12 08 43.13	-02 08 27.6	S 691
/1993e	1993 05 21.15734	12 06 20.31	-01 55 58.9	E 711	/1993e	1993 06 21.20907	12 08 42.60	-02 08 29.7	W 691
/1993e	1993 05 21.15734	12 06 20.01	-01 55 59.9	F 711	/1993e	1993 07 01.39583	12 11 45.93	-02 26 13.0	C 500
/1993e	1993 05 21.15734	12 06 19.78	-01 56 00.8	G 711	/1993e	1993 07 01.39583	12 11 45.68	-02 26 14.0	E 500
/1993e	1993 05 21.15734	12 06 19.42	-01 56 02.0	H 711	/1993e	1993 07 01.39583	12 11 45.37	-02 26 15.2	F 500
/1993e	1993 05 21.15734	12 06 18.98	-01 56 03.8	K 711	/1993e	1993 07 01.39583	12 11 45.13	-02 26 16.2	G 500
/1993e	1993 05 21.15734	12 06 18.64	-01 56 05.5	L 711	/1993e	1993 07 01.39583	12 11 44.74	-02 26 17.4	H 500
/1993e	1993 05 21.15734	12 06 17.97	-01 56 07.4	Q 711	/1993e	1993 07 01.39583	12 11 44.26	-02 26 19.3	K 500
/1993e	1993 05 21.15734	12 06 17.70	-01 56 08.5	R 711	/1993e	1993 07 01.39583	12 11 43.87	-02 26 21.0	L 500
/1993e	1993 05 21.15734	12 06 17.39	-01 56 09.8	S 711	/1993e	1993 07 01.39583	12 11 43.16	-02 26 23.8	Q 500
/1993e	1993 05 21.15734	12 06 16.92	-01 56 11.3	W 711	/1993e	1993 07 01.39583	12 11 42.86	-02 26 24.9	R 500
/1993e	1993 06 12.29444	12 07 00.46	-01 57 56.6	C 568	/1993e	1993 07 01.39583	12 11 42.54	-02 26 26.1	S 500
/1993e	1993 06 12.29444	12 07 00.21	-01 57 57.7	E 568	/1993e	1993 07 01.39583	12 11 41.99	-02 26 28.5	W 500
/1993e	1993 06 12.29444	12 06 59.93	-01 57 58.6	F 568	/1993e	1993 07 17.28472	12 18 16.53	-03 06 09.7	C 568
/1993e	1993 06 12.29444	12 06 59.70	-01 57 59.7	G 568	/1993e	1993 07 17.28472	12 18 16.25	-03 06 10.9	E 568
/1993e	1993 06 12.29444	12 06 59.32	-01 58 01.1	H 568	/1993e	1993 07 17.28472	12 18 15.94	-03 06 11.9	F 568
/1993e	1993 06 12.29444	12 06 58.85	-01 58 03.0	K 568	/1993e	1993 07 17.28472	12 18 15.70	-03 06 13.0	G 568
/1993e	1993 06 12.29444	12 06 58.47	-01 58 04.4	L 568	/1993e	1993 07 17.28472	12 18 15.29	-03 06 14.6	H 568
/1993e	1993 06 12.29444	12 06 57.79	-01 58 06.9	Q 568	/1993e	1993 07 17.28472	12 18 14.79	-03 06 16.5	K 568
/1993e	1993 06 12.29444	12 06 57.48	-01 58 08.2	R 568	/1993e	1993 07 17.28472	12 18 14.39	-03 06 18.2	L 568
/1993e	1993 06 12.29444	12 06 57.17	-01 58 09.3	S 568	/1993e	1993 07 17.28472	12 18 13.66	-03 06 20.8	Q 568
/1993e	1993 06 12.29444	12 06 56.65	-01 58 11.3	W 568	/1993e	1993 07 17.28472	12 18 13.34	-03 06 22.1	R 568
/1993e	1993 06 21.17022	12 08 45.65	-02 08 12.1	E 691	/1993e	1993 07 17.28472	12 18 12.99	-03 06 23.4	S 568
/1993e	1993 06 21.17022	12 08 45.09	-02 08 14.5	G 691	/1993e	1993 07 17.28472	12 18 12.44	-03 06 25.7	W 568
/1993e	1993 06 21.17022	12 08 44.71	-02 08 15.7	H 691	/1993e	1993 07 21.17006	12 20 10.34	-03 17 55.2	E 691
/1993e	1993 06 21.17022	12 08 44.28	-02 08 17.5	K 691	/1993e	1993 07 21.17006	12 20 09.76	-03 17 58.0	G 691
/1993e	1993 06 21.17022	12 08 43.82	-02 08 19.4	L 691	/1993e	1993 07 21.17006	12 20 09.33	-03 17 59.5	H 691
/1993e	1993 06 21.17022	12 08 43.20	-02 08 21.7	Q 691	/1993e	1993 07 21.17006	12 20 08.85	-03 18 01.6	K 691
/1993e	1993 06 21.17022	12 08 42.51	-02 08 24.3	S 691	/1993e	1993 07 21.17006	12 20 08.40	-03 18 03.8	L 691
/1993e	1993 06 21.17022	12 08 42.07	-02 08 26.1	W 691	/1993e	1993 07 21.17006	12 20 07.79	-03 18 05.8	Q 691
/1993e	1993 06 21.18080	12 08 45.84	-02 08 13.6	E 691	/1993e	1993 07 21.17006	12 20 07.02	-03 18 08.1	S 691
/1993e	1993 06 21.18080	12 08 45.22	-02 08 15.3	G 691	/1993e	1993 07 21.17006	12 20 06.52	-03 18 11.1	W 691
/1993e	1993 06 21.18080	12 08 44.90	-02 08 16.4	H 691	/1993e	1993 07 21.17539	12 20 10.37	-03 17 57.5	E 691
/1993e	1993 06 21.18080	12 08 44.38	-02 08 18.5	K 691	/1993e	1993 07 21.17539	12 20 09.89	-03 17 59.4	G 691
/1993e	1993 06 21.18080	12 08 44.04	-02 08 20.1	L 691	/1993e	1993 07 21.17539	12 20 09.43	-03 18 00.7	H 691
/1993e	1993 06 21.18080	12 08 43.37	-02 08 22.7	Q 691	/1993e	1993 07 21.17539	12 20 08.93	-03 18 02.5	K 691
/1993e	1993 06 21.18080	12 08 42.64	-02 08 25.5	S 691	/1993e	1993 07 21.17539	12 20 08.46	-03 18 04.6	L 691
/1993e	1993 06 21.18080	12 08 42.26	-02 08 27.2	W 691	/1993e	1993 07 21.17539	12 20 07.82	-03 18 07.2	Q 691

/1993e	1993 07 21.17539	12 20 07.46	-03 18 08.3	S 691	/1993e	1993 12 25.83819	14 17 36.16	-14 38 28.6	S 360
/1993e	1993 07 21.17539	12 20 07.02	-03 18 10.1	W 691	/1993e	1993 12 25.85469	14 17 40.14	-14 38 10.3	K 360
/1993e	1993 12 09.53912	14 06 21.73	-13 40 22.7	C 691	/1993e	1993 12 25.85469	14 17 38.12	-14 38 22.7	Q 360
/1993e	1993 12 09.53912	14 06 21.05	-13 40 26.1	E 691	/1993e	1993 12 25.85469	14 17 36.89	-14 38 31.9	S 360
/1993e	1993 12 09.53912	14 06 20.17	-13 40 33.3	G 691	/1993e	1994 01 04.51017	14 23 41.44	-15 06 49.6	C 691
/1993e	1993 12 09.53912	14 06 19.56	-13 40 37.4	H 691	/1993e	1994 01 04.51017	14 23 40.83	-15 06 57.0	E 691
/1993e	1993 12 09.53912	14 06 18.70	-13 40 41.8	K 691	/1993e	1994 01 04.51017	14 23 39.89	-15 07 04.5	G 691
/1993e	1993 12 09.53912	14 06 17.97	-13 40 45.6	L 691	/1993e	1994 01 04.51017	14 23 39.15	-15 07 09.2	H 691
/1993e	1993 12 09.53912	14 06 16.83	-13 40 53.5	Q 691	/1993e	1994 01 04.51017	14 23 38.18	-15 07 16.1	K 691
/1993e	1993 12 09.53912	14 06 16.32	-13 40 56.1	R 691	/1993e	1994 01 04.51017	14 23 37.32	-15 07 21.3	L 691
/1993e	1993 12 09.53912	14 06 15.67	-13 40 59.6	S 691	/1993e	1994 01 04.51017	14 23 35.99	-15 07 30.4	Q 691
/1993e	1993 12 09.53912	14 06 14.74	-13 41 05.6	W 691	/1993e	1994 01 04.51017	14 23 35.42	-15 07 34.7	R 691
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/1993e	1993 12 09.54373	14 06 21.33	-13 40 28.4	E 691	/1993e	1994 01 04.51017	14 23 33.73	-15 07 46.6	W 691
/1993e	1993 12 09.54373	14 06 20.44	-13 40 33.8	G 691	/1993e	1994 01 04.54700	14 23 41.98	-15 07 00.8	E 691
/1993e	1993 12 09.54373	14 06 19.70	-13 40 37.4	H 691	/1993e	1994 01 04.54700	14 23 41.52	-15 07 06.1	F 691
/1993e	1993 12 09.54373	14 06 18.98	-13 40 43.5	K 691	/1993e	1994 01 04.54700	14 23 41.17	-15 07 10.4	G 691
/1993e	1993 12 09.54373	14 06 18.29	-13 40 47.6	L 691	/1993e	1994 01 04.54700	14 23 40.35	-15 07 15.2	H 691
/1993e	1993 12 09.54373	14 06 17.09	-13 40 54.2	Q 691	/1993e	1994 01 04.54700	14 23 39.42	-15 07 22.4	K 691
/1993e	1993 12 09.54373	14 06 16.44	-13 40 57.6	R 691	/1993e	1994 01 04.54700	14 23 38.68	-15 07 27.4	L 691
/1993e	1993 12 09.54373	14 06 16.01	-13 41 00.9	S 691	/1993e	1994 01 04.54700	14 23 37.28	-15 07 36.8	Q 691
/1993e	1993 12 09.54373	14 06 14.97	-13 41 06.1	W 691	/1993e	1994 01 04.54700	14 23 36.69	-15 07 41.6	R 691
/1993e	1993 12 11.86111	14 07 57.82	-13 49 47.0	S 360	/1993e	1994 01 04.54700	14 23 36.07	-15 07 45.9	S 691
/1993e	1993 12 11.86476	14 07 57.87	-13 49 48.0	S 360	/1993e	1994 01 04.54700	14 23 35.02	-15 07 52.5	W 691
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/1993e	1993 12 14.64774	14 09 58.17	-14 00 02.8	S 568	/1993s	1993 12 12.66597	06 50 19.99	+21 35 49.3	18 T 372
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/1993e	1993 12 14.64774	14 09 57.24	-14 00 09.1	W 568	/1993s	1993 12 15.56910	06 48 46.39	+21 44 44.6	18.4 T 360
/1993e	1993 12 25.83819	14 17 39.39	-14 38 07.5	K 360	/1993s	1993 12 15.57361	06 48 46.28	+21 44 44.7	360
/1993e	1993 12 25.83819	14 17 37.47	-14 38 19.3	Q 360	/1993s	1993 12 18.59329	06 47 03.82	+21 54 11.5	17.5 T 385
					/1993s	1993 12 18.61059	06 47 03.28	+21 54 15.3	17.9 T 360

## Periodic Comet Mueller 5

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/1993s	1993 12 18.61493	06 47 03.06	+21 54 16.2			360	/1993t	1993 12 14.59306	05 31 02.03	+22 35 26.1	16.5 T		372	
/1993s	1993 12 18.64770	06 47 01.91	+21 54 22.2	17.5 T		887	/1993t	1993 12 14.65433	05 30 59.03	+22 35 25.9	15.6 T		871	
/1993s	1993 12 21.43049	06 45 24.05	+22 03 10.6			658	/1993t	1993 12 14.65735	05 30 58.74	+22 35 27.0			871	
/1993s	1993 12 21.43407	06 45 23.94	+22 03 11.0			658	/1993t	1993 12 14.66036	05 30 58.59	+22 35 28.4			871	
/1993s	1993 12 21.43672	06 45 23.86	+22 03 11.4			658	/1993t	1993 12 14.72847	05 30 55.04	+22 35 29.1			372	
/1993s	1993 12 22.73750	06 44 37.14	+22 07 22.3	17.5 T		372	/1993t	1993 12 15.53772	05 30 15.91	+22 35 45.9			411	
/1993s	1993 12 23.59843	06 44 06.03	+22 10 06.4	17.5 T		385	/1993t	1993 12 15.54278	05 30 15.68	+22 35 45.7			411	
/1993s	1993 12 23.61218	06 44 05.48	+22 10 08.7			385	/1993t	1993 12 15.54530	05 30 15.59	+22 35 45.9			411	
/1993s	1994 01 01.48229	06 38 35.68	+22 38 34.3	16.8 T		372	/1993t	1993 12 15.55486	05 30 15.17	+22 35 46.8	15.4 T		360	
/1993s	1994 01 04.52639	06 36 41.55	+22 48 13.2	16.5 T		372	/1993t	1993 12 15.55729	05 30 15.02	+22 35 45.6	16.0 T		391	
/1993s	1994 01 04.54514	06 36 40.74	+22 48 16.7			372	/1993t	1993 12 15.55833	05 30 14.99	+22 35 46.9			360	
/1993s	1994 01 04.57303	06 36 39.79	+22 48 22.6	18.1 T		360	/1993t	1993 12 15.56250	05 30 14.78	+22 35 47.1			360	
/1993s	1994 01 04.57513	06 36 39.62	+22 48 22.8	17.5 T		887	/1993t	1993 12 15.57118	05 30 14.21	+22 35 46.8			391	
/1993s	1994 01 04.57755	06 36 39.63	+22 48 23.3			360	/1993t	1993 12 16.20810	05 29 43.33	+22 35 59.7			657	
/1993s	1994 01 04.58484	06 36 39.14	+22 48 23.4			887	/1993t	1993 12 16.21000	05 29 43.21	+22 35 59.6			657	
/1993s	1994 01 04.59340	06 36 38.78	+22 48 26.3			887	/1993t	1993 12 16.21770	05 29 42.80	+22 35 59.6			657	
/1993s	1994 01 09.52448	06 33 36.40	+23 03 55.5	18.0 T		360	/1993t	1993 12 17.22308	05 28 53.65	+22 36 21.2	15.0 T		816	
/1993s	1994 01 09.52847	06 33 36.28	+23 03 56.0			360	/1993t	1993 12 17.26382	05 28 51.61	+22 36 21.7			816	
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							/1993t	1993 12 17.47848	05 28 41.38	+22 36 27.0			385	
							/1993t	1993 12 17.48138	05 28 41.23	+22 36 26.6			385	
							/1993t	1993 12 17.74832	05 28 27.81	+22 36 32.3	15 T		900	
							/1993t	1993 12 17.76077	05 28 27.28	+22 36 31.4			900	
							/1993t	1993 12 17.79410	05 28 26.00	+22 36 31.8			596	
							/1993t	1993 12 17.83940	05 28 23.75	+22 36 33.7			596	
							/1993t	1993 12 17.85543	05 28 23.00	+22 36 33.7			596	
							/1993t	1993 12 18.16551	05 28 07.93	+22 36 40.3	15.2 T		816	
							/1993t	1993 12 18.18398	05 28 07.04	+22 36 40.8	15.2 T		816	
							/1993t	1993 12 18.18660	05 28 06.87	+22 36 41.1	15.2 T		816	
							/1993t	1993 12 18.19444	05 28 06.50	+22 36 40.8	15.1 T		816	
							/1993t	1993 12 18.53368	05 27 50.16	+22 36 48.9			391	
							/1993t	1993 12 18.54688	05 27 49.54	+22 36 49.6			391	
							/1993t	1993 12 18.57708	05 27 48.03	+22 36 49.3	15.2 T		360	
							/1993t	1993 12 18.58565	05 27 47.51	+22 36 49.5	15 T		385	
							/1993t	1993 12 18.60208	05 27 46.76	+22 36 49.9			360	
							/1993t	1993 12 18.63333	05 27 45.13	+22 36 50.4			385	
							/1993t	1993 12 18.63625	05 27 44.99	+22 36 50.6			385	
							/1993t	1993 12 18.63924	05 27 44.81	+22 36 50.6			385	
							/1993t	1993 12 18.90806	05 27 31.88	+22 36 54.4	15.0 T		540	
							/1993t	1993 12 18.91573	05 27 31.51	+22 36 54.4	15.1 T		540	
							/1993t	1993 12 18.92324	05 27 31.17	+22 36 54.4	15.1 T		540	
							/1993t	1993 12 18.93106	05 27 30.75	+22 36 55.7	15.0 T		540	
							/1993t	1993 12 21.41554	05 25 31.71	+22 37 42.8			658	
							/1993t	1993 12 21.41889	05 25 31.55	+22 37 42.9			658	
							/1993t	1993 12 21.42272	05 25 31.35	+22 37 42.9			658	
							/1993t	1993 12 21.61672	05 25 22.19	+22 37 48.3	15 T		385	
							/1993t	1993 12 21.61889	05 25 22.08	+22 37 48.6			385	
							/1993t	1993 12 21.62116	05 25 22.00	+22 37 48.9			385	
							/1993t	1993 12 21.62545	05 25 21.80	+22 37 48.7			385	
	<b>Periodic Comet Kushida-Muramatsu</b>													
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/1993t	1993 12 07.66806	05 36 35.42	+22 32 44.0		1	902								
/1993t	1993 12 08.6278	05 35 49.8	+22 33 09	15.6 T	1	902								
/1993t	1993 12 08.65382	05 35 49.02	+22 33 05.1	16.5 T		896								
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/1993t	1993 12 09.54254	05 35 06.94	+22 33 25.7	16.5 T		896								
/1993t	1993 12 09.57813	05 35 05.26	+22 33 27.6			896								
/1993t	1993 12 11.81180	05 33 17.35	+22 34 19.6	16 T		896								
/1993t	1993 12 12.44468	05 32 46.96	+22 34 36.4	16.0 T		897								
/1993t	1993 12 12.45816	05 32 46.26	+22 34 37.6			897								
/1993t	1993 12 12.46795	05 32 45.81	+22 34 36.7	16 T		385								
/1993t	1993 12 12.47517	05 32 45.46	+22 34 37.2			385								
/1993t	1993 12 12.47845	05 32 45.33	+22 34 37.1			385								
/1993t	1993 12 12.48333	05 32 45.14	+22 34 37.1	15.7 T		360								
/1993t	1993 12 12.48681	05 32 44.97	+22 34 37.2			360								
/1993t	1993 12 12.48891	05 32 44.89	+22 34 37.0			411								
/1993t	1993 12 12.51372	05 32 43.63	+22 34 38.1			360								
/1993t	1993 12 12.52431	05 32 43.04	+22 34 38.6			402								
/1993t	1993 12 12.53315	05 32 42.60	+22 34 38.1			411								
/1993t	1993 12 12.53843	05 32 42.26	+22 34 37.3			897								
/1993t	1993 12 12.54076	05 32 42.23	+22 34 38.2			411								
/1993t	1993 12 12.54167	05 32 41.95	+22 34 38.3			402								
/1993t	1993 12 12.69028	05 32 34.68	+22 34 43.4	16.3 T		372								
/1993t	1993 12 12.80689	05 32 29.31	+22 34 43.4			557								
/1993t	1993 12 12.81174	05 32 29.06	+22 34 43.7	15.7 T		557								
/1993t	1993 12 12.81647	05 32 28.84	+22 34 43.8			557								
/1993t	1993 12 12.81841	05 32 28.73	+22 34 43.9			557								
/1993t	1993 12 12.82035	05 32 28.61	+22 34 44.2			557								
/1993t	1993 12 14.51447	05 31 05.93	+22 35 24.2			897								

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/1993t	1993 12 23.58881	05 23 49.88	+22 38 24.5	15 T	385	<b>Periodic Comet Wiseman-Skiff</b>					
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/1993t	1993 12 23.59361	05 23 49.64	+22 38 24.7		385	/1993u	1993 02 02.09154	23 22 08.00	+10 34 35.4		696
/1993t	1993 12 23.73403	05 23 42.85	+22 38 27.5	16.0 T	896	/1993u	1993 02 02.09866	23 22 09.06	+10 34 42.2		696
/1993t	1993 12 23.75451	05 23 41.74	+22 38 26.6	16.0 T	896	/1993u	1993 12 10.52020	12 32 25.30	-21 05 46.8	19.6 T	691
/1993t	1994 01 01.43750	05 17 29.21	+22 41 06.1	15 T	385	/1993u	1993 12 16.51914	12 39 23.51	-22 24 11.0	22.6 N	691
/1993t	1994 01 01.44236	05 17 28.96	+22 41 05.9		385	/1993u	1993 12 16.52650	12 39 24.15	-22 24 16.3	20.8 T	691
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/1993t	1994 01 01.47824	05 17 27.56	+22 41 06.8	15 T	887	/1993u	1993 12 16.54100	12 39 24.91	-22 24 25.9		691
/1993t	1994 01 01.48447	05 17 27.30	+22 41 06.9		887	/1993u	1993 12 16.54850	12 39 25.59	-22 24 32.6		691
/1993t	1994 01 01.49151	05 17 27.01	+22 41 07.2		887	<b>Comet McNaught-Russell (1993v)</b>					
/1993t	1994 01 01.49814	05 17 26.77	+22 41 07.6		887	/1993v	1993 12 17.46003	03 06 33.61	-56 33 25.7	17.5 T	413
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/1993t	1994 01 02.44311	05 16 50.34	+22 41 26.9	15.9 T	410	/1993v	1993 12 18.59508	03 04 43.97	-56 32 32.5		413
/1993t	1994 01 02.45399	05 16 50.06	+22 41 27.1		410	/1993v	1993 12 18.59767	03 04 43.69	-56 32 32.2		413
/1993t	1994 01 02.46126	05 16 49.92	+22 41 27.4		410	/1993v	1993 12 18.60024	03 04 43.40	-56 32 31.9	3	413
/1993t	1994 01 02.52239	05 16 47.22	+22 41 26.4	15.5 T	900	/1993v	1993 12 19.58014	03 03 11.00	-56 31 12.9		413
/1993t	1994 01 02.53363	05 16 46.90	+22 41 26.8		900	/1993v	1993 12 19.58390	03 03 10.68	-56 31 12.7		413
/1993t	1994 01 03.51875	05 16 10.01	+22 41 46.5	16.8 T	399	/1993v	1994 01 07.50271	02 41 12.73	-54 31 38.8		413
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/1993t	1994 01 04.56494	05 15 32.07	+22 42 07.7		900	/1993v	1994 01 16.45735	02 37 16.44	-52 39 29.0	16 T	413
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/1993t	1994 01 05.48484	05 15 00.00	+22 42 26.9	16.8 T	399	<b>Periodic Comet Kushida</b>					
/1993t	1994 01 05.49933	05 14 59.44	+22 42 28.1		399	/1994a	1994 01 08.80868	09 45 52.0	+03 10 43	13.5 T	896
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/1993t	1994 01 07.63595	05 13 48.47	+22 43 13.9	15.5 T	871	/1994a	1994 01 09.52853	09 46 19.22	+03 03 23.8	12.5 T	897
/1993t	1994 01 07.64127	05 13 48.31	+22 43 14.2		871	/1994a	1994 01 09.54000	09 46 19.59	+03 03 16.8		897
/1993t	1994 01 07.64625	05 13 47.99	+22 43 14.4		871	/1994a	1994 01 09.54728	09 46 19.82	+03 03 12.3		897
/1993t	1994 01 08.62517	05 13 17.66	+22 43 37.9	15.9 T	871	/1994a	1994 01 09.55382	09 46 20.05	+03 03 08.3	12.5 T	385
/1993t	1994 01 08.63096	05 13 17.56	+22 43 38.0		871	/1994a	1994 01 09.56111	09 46 20.27	+03 03 03.6		385
/1993t	1994 01 09.02140	05 13 05.72	+22 43 45.8		104	/1994a	1994 01 09.56366	09 46 20.44	+03 03 02.6	11.9 T	360
/1993t	1994 01 09.03139	05 13 05.37	+22 43 46.6		104	/1994a	1994 01 09.56875	09 46 20.59	+03 02 59.5		360
/1993t	1994 01 09.03535	05 13 05.34	+22 43 46.8		104	/1994a	1994 01 09.57431	09 46 20.76	+03 02 56.0		360
/1993t	1994 01 09.04107	05 13 05.11	+22 43 46.9		104	/1994a	1994 01 09.57663	09 46 20.75	+03 02 53.3		411
/1993t	1994 01 09.51545	05 12 51.37	+22 43 59.1	15.7 T	360	/1994a	1994 01 09.58205	09 46 20.90	+03 02 49.8		411
/1993t	1994 01 09.51806	05 12 51.32	+22 43 59.3		360	/1994a	1994 01 09.58569	09 46 21.00	+03 02 47.7		411
/1993t	1994 01 14.51910	05 10 43.22	+22 46 14.0	17 T	2 896	/1994a	1994 01 09.64286	09 46 22.73	+03 02 13.8	13.2 T	871
/1993t	1994 01 14.55243	05 10 42.09	+22 46 15.5	2	896	/1994a	1994 01 09.64601	09 46 22.90	+03 02 12.1		871
/1993t	1994 01 14.57219	05 10 41.89	+22 46 14.8	15 T	385	/1994a	1994 01 09.64899	09 46 22.93	+03 02 09.3		871
/1993t	1994 01 14.57517	05 10 41.81	+22 46 14.9		385	/1994a	1994 01 09.70764	09 46 24.54	+03 01 34.1	12.5 T	402
/1993t	1994 01 14.57813	05 10 41.76	+22 46 15.5		385	/1994a	1994 01 09.70903	09 46 24.41	+03 01 31.4	13 T	391
/1993t	1994 01 15.86545	05 10 14.98	+22 46 55.0	15.4 T	540	/1994a	1994 01 09.72500	09 46 25.02	+03 01 23.6		402
/1993t	1994 01 15.87740	05 10 14.77	+22 46 55.1	15.6 T	540	/1994a	1994 01 09.73090	09 46 25.07	+03 01 18.8		391
/1993t	1994 01 15.89303	05 10 14.41	+22 46 55.0	15.6 T	540						

/1994a	1994 01 10.65833	09 46 55.05	+02 52 02.2	12	T	400	/1994a	1994 01 15.92877	09 48 56.81	+02 06 54.9	13.1	T	540
/1994a	1994 01 10.66701	09 46 55.39	+02 51 57.8	12.0	T	365	/1994a	1994 01 15.92973	09 48 56.79	+02 06 55.3	13.3	T	540
/1994a	1994 01 10.67569	09 46 55.42	+02 51 52.6			400	/1994a	1994 01 16.68368	09 49 07.62	+02 01 35.9	12.0	T	896
/1994a	1994 01 10.68229	09 46 55.70	+02 51 49.8			365	/1994a	1994 01 16.70069	09 49 07.68	+02 01 27.0			391
/1994a	1994 01 10.80243	09 46 58.85	+02 50 39.1	12.0	T	896	/1994a	1994 01 16.70833	09 49 07.74	+02 01 23.0			391
/1994a	1994 01 10.81632	09 46 59.18	+02 50 28.7			5 896	/1994a	1994 01 16.71528	09 49 07.69	+02 01 21.6			391
/1994a	1994 01 11.63889	09 47 24.17	+02 43 01.5			323	/1994a	1994 01 16.72049	09 49 07.78	+02 01 19.3			896
/1994a	1994 01 11.65964	09 47 24.36	+02 42 30.2	13.2	T	871	/1994a	1994 01 17.06360	09 49 12.44	+01 58 54.2	13.8	T	605
/1994a	1994 01 11.66211	09 47 24.42	+02 42 29.6			871	/1994a	1994 01 17.06782	09 49 12.74	+01 58 50.0	13.8	T	605
/1994a	1994 01 11.70772	09 47 25.33	+02 42 03.9	12.5	T	385	/1994a	1994 01 17.64965	09 49 20.47	+01 55 25.9			323
/1994a	1994 01 11.71091	09 47 25.38	+02 42 02.0			385	/1994a	1994 01 18.94576	09 49 32.99	+01 47 00.8			596
/1994a	1994 01 11.71253	09 47 25.42	+02 42 01.1			385	/1994a	1994 01 18.96958	09 49 33.09	+01 46 53.1			596
/1994a	1994 01 11.71410	09 47 25.43	+02 42 00.2			385							
/1994a	1994 01 11.82222	09 47 27.88	+02 40 59.2	12.0	T	896	Note 1: prediscoversy observations. 2: bad seeing. 3: correction to <i>IAUC</i> 5911.						
/1994a	1994 01 11.84444	09 47 28.28	+02 40 46.9			896	4: images slightly trailed. 5: declination uncertain. C-W: various nuclei,						
/1994a	1994 01 12.63125	09 47 49.93	+02 33 39.7			391	counted east-west, in the notation of Sekanina <i>et al.</i> (1993, submitted to						
/1994a	1994 01 12.63819	09 47 49.92	+02 33 35.8	12	T	399	<i>Astron. J.</i> ), correlating with that of Jewitt <i>et al.</i> (1993, <i>Bull. Am. Astron.</i>						
/1994a	1994 01 12.64583	09 47 50.19	+02 33 32.1			391	<i>Soc.</i> <b>25</b> , 1042) as C = 19, E = 17, F = 16, G = 15, H = 14, K = 12, L = 11,						
/1994a	1994 01 12.65417	09 47 50.29	+02 33 27.7			391	Q = 7, R = 6, S = 5, W = 1. The 1993 March-July data for observatory						
/1994a	1994 01 12.66042	09 47 50.88	+02 33 44.4			323	codes 500 and 568 were derived from the differential measures provided by						
/1994a	1994 01 12.70000	09 47 51.20	+02 33 03.0			391	the observers and the orbits determined from the absolute positions given on						
/1994a	1994 01 13.62986	09 48 13.22	+02 25 03.5	12	T	400	<i>MPC</i> 22714–22717.						
/1994a	1994 01 13.64583	09 48 13.46	+02 24 54.8			400							
/1994a	1994 01 13.98907	09 48 21.03	+02 22 02.4			596							
/1994a	1994 01 13.99198	09 48 20.99	+02 22 00.4			596							
/1994a	1994 01 14.55977	09 48 32.90	+02 17 26.3			897							
/1994a	1994 01 14.56522	09 48 33.01	+02 17 23.2			897							
/1994a	1994 01 14.56683	09 48 33.03	+02 17 22.6			897							
/1994a	1994 01 14.61884	09 48 33.84	+02 16 57.3			871							
/1994a	1994 01 14.62444	09 48 33.92	+02 16 55.3			871							
/1994a	1994 01 14.62851	09 48 34.00	+02 16 52.1			871							
/1994a	1994 01 14.63128	09 48 33.99	+02 16 52.4	13.0	T	385							
/1994a	1994 01 14.63368	09 48 34.02	+02 16 51.3			385							
/1994a	1994 01 14.63472	09 48 34.02	+02 16 50.5			385							
/1994a	1994 01 14.63576	09 48 34.05	+02 16 50.1			385							
/1994a	1994 01 14.69857	09 48 34.87	+02 16 20.1	13	T	887							
/1994a	1994 01 14.70123	09 48 34.91	+02 16 18.6			887							
/1994a	1994 01 14.72606	09 48 35.23	+02 16 07.0			887							
/1994a	1994 01 14.72878	09 48 35.28	+02 16 05.6			887							
/1994a	1994 01 14.74028	09 48 35.37	+02 16 00.2	12.5	T	896							
/1994a	1994 01 15.55172	09 48 50.92	+02 09 46.2	11.5	T	900							
/1994a	1994 01 15.56117	09 48 51.08	+02 09 42.2			900							
/1994a	1994 01 15.57460	09 48 51.30	+02 09 35.4			367							
/1994a	1994 01 15.58267	09 48 51.41	+02 09 32.2			367							
/1994a	1994 01 15.72010	09 48 52.93	+02 08 31.1	13.2	T	410							
/1994a	1994 01 15.73021	09 48 53.03	+02 08 25.7	12.0	T	896							
/1994a	1994 01 15.74123	09 48 53.13	+02 08 21.0			410							
/1994a	1994 01 15.75312	09 48 53.30	+02 08 17.2			896							
/1994a	1994 01 15.79942	09 48 53.78	+02 07 56.0	11.2	T	360							
/1994a	1994 01 15.80278	09 48 53.82	+02 07 54.4			360							
/1994a	1994 01 15.92693	09 48 56.75	+02 06 57.1	13.0	T	540							
/1994a	1994 01 15.92786	09 48 56.81	+02 06 56.9	13.3	T	540							

## OBSERVATIONS OF MINOR PLANETS

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

- A earlier approximate position inferior
- a sense of motion ambiguous
- B black or dark plate
- b bad seeing
- C correction to earlier position
- c crowded star field
- D declination uncertain
- d diffuse image
- E at or near edge of plate
- F faint image
- f involved with emulsion or plate flaw
- G poor guiding
- g no guiding
- I involved with star
- i inkdot measured
- 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

Object	Date	UT	$\alpha_{2000}$	$\delta_{2000}$	Mag.	N Obs.					
T	time uncertain										
t	trailed image										
U	uncertain image										
u	unconfirmed image										
V	very faint image										
W	weak image										
w	weak solution										
<b>010 Caussols</b>											
E. W. Elst, Royal Observatory, B-1180 Brussels, Belgium											
C. Pollas, Observatoire de la Côte d'Azur, Avenue Copernic, F-06130 Grasse, France											
Observers E. W. Elst, J. B. Emond											
Measurer E. W. Elst											
0.9-m Schmidt telescope											
1976 SZ <sub>9</sub>	1993 09 19.00573		23 05 32.03	-08 24 40.1	18.2	010	1993 QN <sub>3</sub>	1993 09 19.01736	23 04 01.64	-07 17 51.3	010
1976 SZ <sub>9</sub>	1993 09 19.01736		23 05 31.50	-08 24 40.7		010	1993 QN <sub>3</sub>	1993 09 20.01071	23 03 18.10	-07 24 18.2	18.5 010
1978 RL <sub>7</sub>	1993 09 19.00573		23 04 15.80	-04 33 29.3		010	1993 QN <sub>3</sub>	1993 09 20.02141	23 03 17.62	-07 24 19.6	010
1978 RL <sub>7</sub>	1993 09 19.01736		23 04 15.25	-04 33 33.0		010	1993 QN <sub>3</sub>	1993 09 20.03218	23 03 17.16	-07 24 23.1	010
1978 RL <sub>7</sub>	1993 09 20.01071		23 03 31.61	-04 38 32.0	18.4	010	1993 QP <sub>3</sub>	1993 09 19.00573	23 07 39.80	-05 06 26.8	010
1978 RL <sub>7</sub>	1993 09 20.02141		23 03 31.13	-04 38 35.2		010	1993 QP <sub>3</sub>	1993 09 19.01736	23 07 39.31	-05 06 30.1	010
1978 RL <sub>7</sub>	1993 09 20.03218		23 03 30.63	-04 38 37.2		010	1993 QP <sub>3</sub>	1993 09 20.01071	23 06 57.08	-05 11 54.8	18.4 010
1980 PX	1993 09 19.00573		23 09 33.29	-06 36 31.8		010	1993 QP <sub>3</sub>	1993 09 20.02141	23 06 56.59	-05 11 59.5	010
1980 PX	1993 09 19.01736		23 09 32.88	-06 36 35.9		010	1993 QP <sub>3</sub>	1993 09 20.03218	23 06 56.16	-05 12 00.6	010
1980 PX	1993 09 20.01071		23 08 58.42	-06 43 00.8	17.7	010	1993 QU <sub>3</sub>	1993 09 19.00573	23 08 29.93	-04 31 39.6	010
1980 PX	1993 09 20.02141		23 08 58.03	-06 43 03.2		010	1993 QU <sub>3</sub>	1993 09 19.01736	23 08 29.33	-04 31 43.4	010
1980 PX	1993 09 20.03218		23 08 57.60	-06 43 07.8		010	1993 QU <sub>3</sub>	1993 09 20.01071	23 07 44.84	-04 37 07.6	18.3 010
1986 QQ	1993 09 19.00573		23 16 48.49	-05 46 36.8		010	1993 QU <sub>3</sub>	1993 09 20.02141	23 07 44.23	-04 37 11.1	010
1986 QQ	1993 09 19.01736		23 16 47.72	-05 46 39.5		010	1993 QU <sub>3</sub>	1993 09 20.03218	23 07 43.73	-04 37 15.0	010
1986 QQ	1993 09 20.01071		23 15 47.10	-05 50 27.9	18.1	010	1993 QX <sub>3</sub>	1993 09 19.00573	23 06 12.10	-05 44 55.1	010
1986 QQ	1993 09 20.02141		23 15 46.41	-05 50 29.6		010	1993 QX <sub>3</sub>	1993 09 19.01736	23 06 11.48	-05 44 57.5	010
1986 QQ	1993 09 20.03218		23 15 45.70	-05 50 32.0		010	1993 QX <sub>3</sub>	1993 09 20.01071	23 05 21.60	-05 46 47.3	19.0 010
1991 GB <sub>3</sub>	1993 09 19.00573		23 12 55.46	-05 39 47.1		010	1993 QX <sub>3</sub>	1993 09 20.02141	23 05 21.09	-05 46 47.3	010
1991 GB <sub>3</sub>	1993 09 19.01736		23 12 54.96	-05 39 48.5		010	1993 QX <sub>3</sub>	1993 09 20.03218	23 05 20.56	-05 46 48.3	010
1991 GB <sub>3</sub>	1993 09 20.01071		23 12 14.45	-05 43 55.4	18.7	010	1993 QA <sub>4</sub>	1993 09 19.00573	23 11 44.57	-05 11 24.5	010
1991 GB <sub>3</sub>	1993 09 20.02141		23 12 14.04	-05 43 57.8		010	1993 QA <sub>4</sub>	1993 09 19.01736	23 11 44.03	-05 11 27.8	010
1991 GB <sub>3</sub>	1993 09 20.03218		23 12 13.55	-05 44 01.3		010	1993 QA <sub>4</sub>	1993 09 20.01071	23 11 01.82	-05 15 46.6	18.5 010
1992 FN	1993 09 19.00573		23 14 03.09	-04 08 47.6		010	1993 QA <sub>4</sub>	1993 09 20.02141	23 11 01.31	-05 15 47.9	010
1992 FN	1993 09 19.01736		23 14 02.39	-04 08 52.7		010	1993 QA <sub>4</sub>	1993 09 20.03218	23 11 00.85	-05 15 51.6	010
1992 FN	1993 09 20.01071		23 13 06.95	-04 15 26.1	18.5	010	1993 QD <sub>4</sub>	1993 09 19.00573	23 08 23.95	-05 15 40.1	010
1992 FN	1993 09 20.02141		23 13 06.42	-04 15 29.2		010	1993 QD <sub>4</sub>	1993 09 19.01736	23 08 23.32	-05 15 41.8	010
1992 FN	1993 09 20.03218		23 13 05.71	-04 15 34.3		010	1993 QD <sub>4</sub>	1993 09 20.01071	23 07 30.24	-05 19 08.6	18.0 010
1992 LU	1993 09 20.01071		23 11 08.44	-03 22 58.3	18.4	010	1993 QD <sub>4</sub>	1993 09 20.02141	23 07 29.66	-05 19 11.6	010
1992 LU	1993 09 20.02141		23 11 07.88	-03 23 04.9		010	1993 QD <sub>4</sub>	1993 09 20.03218	23 07 28.96	-05 19 12.6	010
1992 LU	1993 09 20.03218		23 11 07.28	-03 23 11.0		010	1993 QG <sub>4</sub>	1993 09 19.00573	23 19 12.63	-06 59 59.3	010
1993 QH <sub>3</sub>	1993 09 19.00573		23 01 39.60	-04 44 23.9		010	1993 QG <sub>4</sub>	1993 09 19.01736	23 19 12.13	-07 00 03.7	010
1993 QH <sub>3</sub>	1993 09 19.01736		23 01 39.05	-04 44 27.2		010	1993 QG <sub>4</sub>	1993 09 20.01071	23 18 33.58	-07 06 27.8	18.2 010
1993 QH <sub>3</sub>	1993 09 20.01071		23 00 54.23	-04 49 10.3	18.3	010	1993 QG <sub>4</sub>	1993 09 20.02141	23 18 33.15	-07 06 32.1	010
1993 QH <sub>3</sub>	1993 09 20.02141		23 00 53.65	-04 49 12.9		010	1993 QG <sub>4</sub>	1993 09 20.03218	23 18 32.66	-07 06 36.0	010
1993 QH <sub>3</sub>	1993 09 20.03218		23 00 53.14	-04 49 15.7		010	1993 QH <sub>4</sub>	1993 09 19.00573	23 16 50.93	-07 18 50.7	010
1993 QN <sub>3</sub>	1993 09 19.00573		23 04 02.18	-07 17 46.7		010	1993 QH <sub>4</sub>	1993 09 19.01736	23 16 50.37	-07 18 54.5	010
							1993 QH <sub>4</sub>	1993 09 20.01071	23 16 09.19	-07 23 53.4	18.3 010
							1993 QH <sub>4</sub>	1993 09 20.02141	23 16 08.76	-07 23 57.0	010
							1993 QH <sub>4</sub>	1993 09 20.03218	23 16 08.25	-07 23 57.9	010
							1993 QJ <sub>4</sub>	1993 09 19.00573	23 10 35.84	-05 55 41.5	010
							1993 QJ <sub>4</sub>	1993 09 19.01736	23 10 35.26	-05 55 46.9	010
							1993 QJ <sub>4</sub>	1993 09 20.01071	23 09 42.10	-06 03 11.8	18.5 010
							1993 QJ <sub>4</sub>	1993 09 20.02141	23 09 41.54	-06 03 14.7	010
							1993 QJ <sub>4</sub>	1993 09 20.03218	23 09 40.94	-06 03 17.8	010
							1993 QO <sub>4</sub>	1993 09 19.00573	23 18 01.54	-05 44 01.5	010
							1993 QO <sub>4</sub>	1993 09 19.01736	23 18 01.06	-05 44 04.8	010
							1993 QO <sub>4</sub>	1993 09 20.01071	23 17 19.99	-05 49 15.9	18.3 010
							1993 QO <sub>4</sub>	1993 09 20.02141	23 17 19.48	-05 49 19.0	010
							1993 QO <sub>4</sub>	1993 09 20.03218	23 17 19.03	-05 49 22.4	010
							1993 QQ <sub>4</sub>	1993 09 19.00573	23 18 38.88	-04 58 40.2	010
							1993 QQ <sub>4</sub>	1993 09 19.01736	23 18 38.42	-04 58 44.6	010
							1993 QQ <sub>4</sub>	1993 09 20.01071	23 17 57.64	-05 03 29.6	18.6 010



1993 QQ <sub>4</sub>	1993 09 20.02141	23 17 57.16	-05 03 32.7	010	1993 SM <sub>4</sub>	1993 09 20.01071	23 02 44.68	-07 36 06.5	18.5	010
1993 QQ <sub>4</sub>	1993 09 20.03218	23 17 56.60	-05 03 34.0	010	1993 SM <sub>4</sub>	1993 09 20.02141	23 02 44.07	-07 36 06.6		010
1993 QR <sub>4</sub>	1993 09 19.00573	23 14 00.68	-07 16 34.9	010	1993 SM <sub>4</sub>	1993 09 20.03218	23 02 43.62	-07 36 06.6		010
1993 QR <sub>4</sub>	1993 09 19.01736	23 14 00.11	-07 16 38.0	010	1993 SN <sub>4</sub>	* 1993 09 19.00573	23 03 53.89	-06 44 54.3		010
1993 QR <sub>4</sub>	1993 09 20.01071	23 13 07.95	-07 20 35.1	18.4	010	1993 SN <sub>4</sub>	1993 09 19.01736	23 03 53.43	-06 44 57.1	010
1993 QR <sub>4</sub>	1993 09 20.02141	23 13 07.44	-07 20 36.2	010	010	1993 SN <sub>4</sub>	1993 09 20.01071	23 03 13.64	-06 49 26.5	18.7
1993 QR <sub>4</sub>	1993 09 20.03218	23 13 06.84	-07 20 38.9	010	010	1993 SN <sub>4</sub>	1993 09 20.02141	23 03 13.24	-06 49 28.4	010
1993 QS <sub>4</sub>	1993 09 19.00573	23 08 33.36	-03 32 17.8	010	010	1993 SN <sub>4</sub>	1993 09 20.03218	23 03 12.80	-06 49 30.8	010
1993 QS <sub>4</sub>	1993 09 19.01736	23 08 32.55	-03 32 15.8	010	010	1993 SO <sub>4</sub>	* 1993 09 19.00573	23 04 24.73	-07 43 02.5	010
1993 QS <sub>4</sub>	1993 09 20.01071	23 07 28.83	-03 29 23.6	18.2	010	1993 SO <sub>4</sub>	1993 09 19.01736	23 04 24.21	-07 43 06.2	010
1993 QS <sub>4</sub>	1993 09 20.02141	23 07 28.17	-03 29 20.4	010	010	1993 SO <sub>4</sub>	1993 09 20.01071	23 03 42.57	-07 49 43.3	18.3
1993 QS <sub>4</sub>	1993 09 20.03218	23 07 27.25	-03 29 19.6	010	010	1993 SO <sub>4</sub>	1993 09 20.02141	23 03 41.97	-07 49 46.7	010
1993 QT <sub>4</sub>	1993 09 19.00573	23 11 26.93	-04 58 48.4	010	010	1993 SO <sub>4</sub>	1993 09 20.03218	23 03 41.63	-07 49 49.2	010
1993 QT <sub>4</sub>	1993 09 19.01736	23 11 26.14	-04 58 47.0	010	010	1993 SP <sub>4</sub>	* 1993 09 19.00573	23 04 44.25	-06 27 10.6	010
1993 QT <sub>4</sub>	1993 09 20.01071	23 10 24.80	-04 58 23.6	18.6	010	1993 SP <sub>4</sub>	1993 09 19.01736	23 04 43.98	-06 27 16.4	010
1993 QT <sub>4</sub>	1993 09 20.02141	23 10 24.13	-04 58 23.1	010	010	1993 SP <sub>4</sub>	1993 09 20.01071	23 04 16.77	-06 34 59.6	18.4
1993 QT <sub>4</sub>	1993 09 20.03218	23 10 23.43	-04 58 23.0	010	010	1993 SP <sub>4</sub>	1993 09 20.02141	23 04 16.38	-06 35 05.4	010
1993 QV <sub>4</sub>	1993 09 19.00573	23 18 17.99	-05 43 18.6	010	010	1993 SP <sub>4</sub>	1993 09 20.03218	23 04 16.05	-06 35 10.6	010
1993 QV <sub>4</sub>	1993 09 19.01736	23 18 17.29	-05 43 21.4	010	010	1993 SQ <sub>4</sub>	* 1993 09 19.00573	23 06 53.68	-04 21 48.1	010
1993 QV <sub>4</sub>	1993 09 20.01071	23 17 30.51	-05 47 39.6	18.7	010	1993 SQ <sub>4</sub>	1993 09 19.01736	23 06 53.19	-04 21 53.7	010
1993 QV <sub>4</sub>	1993 09 20.02141	23 17 29.97	-05 47 42.0	010	010	1993 SQ <sub>4</sub>	1993 09 20.01071	23 06 07.72	-04 29 35.1	18.5
1993 QV <sub>4</sub>	1993 09 20.03218	23 17 29.32	-05 47 45.7	010	010	1993 SQ <sub>4</sub>	1993 09 20.02141	23 06 07.11	-04 29 39.3	010
1993 QZ <sub>5</sub>	1993 08 15.04861	23 05 26.13	-05 03 01.4	18.6	010	1993 SQ <sub>4</sub>	1993 09 20.03218	23 06 06.51	-04 29 46.1	010
1993 QZ <sub>5</sub>	1993 08 15.05972	23 05 25.67	-05 03 04.0	010	010	1993 SR <sub>4</sub>	* 1993 09 19.00573	23 06 54.10	-05 00 02.6	010
1993 QZ <sub>5</sub>	1993 08 15.07083	23 05 25.20	-05 03 08.7	010	010	1993 SR <sub>4</sub>	1993 09 19.01736	23 06 53.52	-05 00 07.6	010
1993 SG <sub>4</sub>	* 1993 09 19.00573	23 01 57.57	-04 00 43.4	010	010	1993 SR <sub>4</sub>	1993 09 20.01071	23 06 08.43	-05 07 13.5	18.4
1993 SG <sub>4</sub>	1993 09 19.01736	23 01 57.06	-04 00 48.7	010	010	1993 SR <sub>4</sub>	1993 09 20.02141	23 06 07.78	-05 07 18.3	010
1993 SG <sub>4</sub>	1993 09 20.01071	23 01 19.54	-04 09 33.9	18.4	010	1993 SR <sub>4</sub>	1993 09 20.03218	23 06 07.31	-05 07 22.2	010
1993 SG <sub>4</sub>	1993 09 20.02141	23 01 19.06	-04 09 39.5	010	010	1993 SS <sub>4</sub>	* 1993 09 19.00573	23 07 26.17	-06 04 04.7	010
1993 SG <sub>4</sub>	1993 09 20.03218	23 01 18.70	-04 09 44.7	010	010	1993 SS <sub>4</sub>	1993 09 19.01736	23 07 25.59	-06 04 07.4	010
1993 SH <sub>4</sub>	* 1993 09 19.00573	23 01 58.41	-05 09 43.3	010	010	1993 SS <sub>4</sub>	1993 09 20.01071	23 06 34.91	-06 08 05.3	18.6
1993 SH <sub>4</sub>	1993 09 19.01736	23 01 57.87	-05 09 48.6	010	010	1993 SS <sub>4</sub>	1993 09 20.02141	23 06 34.29	-06 08 06.6	010
1993 SH <sub>4</sub>	1993 09 20.01071	23 01 16.99	-05 17 43.4	18.2	010	1993 SS <sub>4</sub>	1993 09 20.03218	23 06 33.84	-06 08 10.7	010
1993 SH <sub>4</sub>	1993 09 20.02141	23 01 16.46	-05 17 47.6	010	010	1993 ST <sub>4</sub>	* 1993 09 19.00573	23 07 30.43	-07 22 08.4	010
1993 SH <sub>4</sub>	1993 09 20.03218	23 01 15.98	-05 17 53.3	010	010	1993 ST <sub>4</sub>	1993 09 19.01736	23 07 29.81	-07 22 11.8	010
1993 SJ <sub>4</sub>	* 1993 09 19.00573	23 02 04.59	-06 28 52.7	010	010	1993 ST <sub>4</sub>	1993 09 20.01071	23 06 37.55	-07 27 13.2	18.5
1993 SJ <sub>4</sub>	1993 09 19.01736	23 02 04.01	-06 28 57.0	010	010	1993 ST <sub>4</sub>	1993 09 20.02141	23 06 37.04	-07 27 16.4	010
1993 SJ <sub>4</sub>	1993 09 20.01071	23 01 24.68	-06 35 37.7	18.6	010	1993 ST <sub>4</sub>	1993 09 20.03218	23 06 36.39	-07 27 18.8	010
1993 SJ <sub>4</sub>	1993 09 20.02141	23 01 24.25	-06 35 41.1	010	010	1993 SU <sub>4</sub>	* 1993 09 19.00573	23 08 23.09	-07 25 08.3	010
1993 SJ <sub>4</sub>	1993 09 20.03218	23 01 23.96	-06 35 43.6	010	010	1993 SU <sub>4</sub>	1993 09 19.01736	23 08 22.33	-07 25 08.7	010
1993 SK <sub>4</sub>	* 1993 09 19.00573	23 02 22.41	-03 52 29.3	010	010	1993 SU <sub>4</sub>	1993 09 20.01071	23 07 27.96	-07 25 45.9	18.5
1993 SK <sub>4</sub>	1993 09 19.01736	23 02 21.77	-03 52 36.2	010	010	1993 SU <sub>4</sub>	1993 09 20.02141	23 07 27.33	-07 25 45.1	010
1993 SK <sub>4</sub>	1993 09 20.01071	23 01 33.34	-04 02 11.0	18.4	010	1993 SU <sub>4</sub>	1993 09 20.03218	23 07 26.87	-07 25 44.1	010
1993 SK <sub>4</sub>	1993 09 20.02141	23 01 32.72	-04 02 15.7	010	010	1993 SV <sub>4</sub>	* 1993 09 19.00573	23 08 37.78	-04 32 39.8	010
1993 SK <sub>4</sub>	1993 09 20.03218	23 01 32.18	-04 02 21.8	010	010	1993 SV <sub>4</sub>	1993 09 19.01736	23 08 37.11	-04 32 44.4	010
1993 SL <sub>4</sub>	* 1993 09 19.00573	23 02 23.14	-04 29 11.5	010	010	1993 SV <sub>4</sub>	1993 09 20.01071	23 07 50.32	-04 37 16.0	18.5
1993 SL <sub>4</sub>	1993 09 19.01736	23 02 22.64	-04 29 17.6	010	010	1993 SV <sub>4</sub>	1993 09 20.02141	23 07 49.77	-04 37 19.4	010
1993 SL <sub>4</sub>	1993 09 20.01071	23 01 47.60	-04 38 12.6	18.1	010	1993 SV <sub>4</sub>	1993 09 20.03218	23 07 49.15	-04 37 23.3	010
1993 SL <sub>4</sub>	1993 09 20.02141	23 01 47.30	-04 38 17.1	010	010	1993 SW <sub>4</sub>	* 1993 09 19.00573	23 08 40.50	-04 23 23.4	010
1993 SL <sub>4</sub>	1993 09 20.03218	23 01 46.94	-04 38 23.2	010	010	1993 SW <sub>4</sub>	1993 09 19.01736	23 08 39.91	-04 23 28.9	010
1993 SM <sub>4</sub>	* 1993 09 19.00573	23 03 32.22	-07 35 47.5	010	010	1993 SW <sub>4</sub>	1993 09 20.01071	23 07 51.34	-04 29 59.9	18.5
1993 SM <sub>4</sub>	1993 09 19.01736	23 03 31.60	-07 35 46.9	010	010	1993 SW <sub>4</sub>	1993 09 20.02141	23 07 50.75	-04 30 05.0	010

1993 SW <sub>4</sub>	1993 09 20.03218	23 07 50.29	-04 30 08.8		010	1993 SF <sub>5</sub>	1993 09 20.03218	23 13 55.90	-06 42 39.8		010
1993 SX <sub>4</sub>	1993 08 19.08403	23 35 34.45	-02 28 22.1	18.4	010	1993 SG <sub>5</sub>	* 1993 09 19.00573	23 14 56.26	-06 30 19.3		010
1993 SX <sub>4</sub>	1993 08 19.09479	23 35 34.00	-02 28 25.5		010	1993 SG <sub>5</sub>	1993 09 19.01736	23 14 55.68	-06 30 21.7		010
1993 SX <sub>4</sub>	1993 08 19.10556	23 35 33.56	-02 28 29.3		010	1993 SG <sub>5</sub>	1993 09 20.01071	23 14 14.50	-06 34 55.5	19.0	010
1993 SX <sub>4</sub>	* 1993 09 19.00573	23 10 07.80	-05 40 26.5		010	1993 SG <sub>5</sub>	1993 09 20.02141	23 14 14.09	-06 35 01.0		010
1993 SX <sub>4</sub>	1993 09 19.01736	23 10 07.15	-05 40 30.0		010	1993 SG <sub>5</sub>	1993 09 20.03218	23 14 13.66	-06 35 03.3		010
1993 SX <sub>4</sub>	1993 09 20.01071	23 09 16.96	-05 46 42.7	18.3	010	1993 SH <sub>5</sub>	* 1993 09 19.00573	23 16 05.06	-05 56 46.9		010
1993 SX <sub>4</sub>	1993 09 20.02141	23 09 16.33	-05 46 47.2		010	1993 SH <sub>5</sub>	1993 09 19.01736	23 16 04.45	-05 56 50.6		010
1993 SX <sub>4</sub>	1993 09 20.03218	23 09 15.82	-05 46 50.4		010	1993 SH <sub>5</sub>	1993 09 20.01071	23 15 22.63	-06 00 50.0	18.5	010
1993 SY <sub>4</sub>	* 1993 09 19.00573	23 10 50.40	-04 27 43.7		010	1993 SH <sub>5</sub>	1993 09 20.02141	23 15 22.12	-06 00 53.2		010
1993 SY <sub>4</sub>	1993 09 19.01736	23 10 49.75	-04 27 48.0		010	1993 SH <sub>5</sub>	1993 09 20.03218	23 15 21.56	-06 00 55.8		010
1993 SY <sub>4</sub>	1993 09 20.01071	23 09 57.80	-04 34 57.8	18.3	010	1993 SJ <sub>5</sub>	* 1993 09 19.00573	23 16 05.46	-04 00 01.6		010
1993 SY <sub>4</sub>	1993 09 20.02141	23 09 57.29	-04 35 01.4		010	1993 SJ <sub>5</sub>	1993 09 19.01736	23 16 04.71	-04 00 04.0		010
1993 SY <sub>4</sub>	1993 09 20.03218	23 09 56.56	-04 35 07.7		010	1993 SJ <sub>5</sub>	1993 09 20.01071	23 15 05.08	-04 03 02.1	18.3	010
1993 SZ <sub>4</sub>	* 1993 09 19.00573	23 10 57.86	-04 48 39.5		010	1993 SJ <sub>5</sub>	1993 09 20.02141	23 15 04.40	-04 03 03.9		010
1993 SZ <sub>4</sub>	1993 09 19.01736	23 10 57.30	-04 48 45.5		010	1993 SJ <sub>5</sub>	1993 09 20.03218	23 15 03.65	-04 03 06.0		010
1993 SZ <sub>4</sub>	1993 09 20.01071	23 10 13.53	-04 57 35.0	18.3	010	1993 SK <sub>5</sub>	* 1993 09 19.00573	23 16 29.07	-04 08 21.0		010
1993 SZ <sub>4</sub>	1993 09 20.02141	23 10 13.16	-04 57 41.2		010	1993 SK <sub>5</sub>	1993 09 19.01736	23 16 28.38	-04 08 21.8		010
1993 SZ <sub>4</sub>	1993 09 20.03218	23 10 12.56	-04 57 46.5		010	1993 SK <sub>5</sub>	1993 09 20.01071	23 15 31.45	-04 09 29.6	18.0	010
1993 SA <sub>5</sub>	* 1993 09 19.00573	23 11 08.72	-03 39 29.1		010	1993 SK <sub>5</sub>	1993 09 20.02141	23 15 30.74	-04 09 30.4		010
1993 SA <sub>5</sub>	1993 09 19.01736	23 11 07.98	-03 39 33.3		010	1993 SK <sub>5</sub>	1993 09 20.03218	23 15 30.09	-04 09 30.8		010
1993 SA <sub>5</sub>	1993 09 20.01071	23 10 14.10	-03 46 07.9	18.3	010	1993 SL <sub>5</sub>	* 1993 09 19.00573	23 16 34.30	-08 06 19.8		010
1993 SA <sub>5</sub>	1993 09 20.02141	23 10 13.44	-03 46 12.0		010	1993 SL <sub>5</sub>	1993 09 19.01736	23 16 33.65	-08 06 18.7		010
1993 SA <sub>5</sub>	1993 09 20.03218	23 10 12.79	-03 46 16.7		010	1993 SL <sub>5</sub>	1993 09 20.01071	23 15 29.82	-08 03 46.2	18.2	010
1993 SB <sub>5</sub>	* 1993 09 19.00573	23 11 35.21	-05 57 39.8		010	1993 SL <sub>5</sub>	1993 09 20.02141	23 15 29.17	-08 03 44.1		010
1993 SB <sub>5</sub>	1993 09 19.01736	23 11 34.81	-05 57 46.9		010	1993 SL <sub>5</sub>	1993 09 20.03218	23 15 28.40	-08 03 43.1		010
1993 SB <sub>5</sub>	1993 09 20.01071	23 11 04.10	-06 08 16.7	18.2	010	1993 SM <sub>5</sub>	* 1993 09 19.00573	23 17 23.37	-06 07 43.9		010
1993 SB <sub>5</sub>	1993 09 20.02141	23 11 03.71	-06 08 23.6		010	1993 SM <sub>5</sub>	1993 09 19.01736	23 17 22.84	-06 07 51.4		010
1993 SB <sub>5</sub>	1993 09 20.03218	23 11 03.27	-06 08 31.3		010	1993 SM <sub>5</sub>	1993 09 20.01071	23 16 40.30	-06 17 14.3	18.4	010
1993 SC <sub>5</sub>	* 1993 09 19.00573	23 13 30.04	-05 22 12.1		010	1993 SM <sub>5</sub>	1993 09 20.02141	23 16 39.76	-06 17 21.1		010
1993 SC <sub>5</sub>	1993 09 19.01736	23 13 29.29	-05 22 16.9		010	1993 SM <sub>5</sub>	1993 09 20.03218	23 16 39.08	-06 17 28.0		010
1993 SC <sub>5</sub>	1993 09 20.01071	23 12 37.11	-05 28 19.4	18.5	010	1993 SN <sub>5</sub>	* 1993 09 19.00573	23 17 32.82	-04 24 40.8		010
1993 SC <sub>5</sub>	1993 09 20.02141	23 12 36.47	-05 28 23.4		010	1993 SN <sub>5</sub>	1993 09 19.01736	23 17 32.34	-04 24 45.0		010
1993 SC <sub>5</sub>	1993 09 20.03218	23 12 35.84	-05 28 28.1		010	1993 SN <sub>5</sub>	1993 09 20.01071	23 16 51.31	-04 29 10.3	18.5	010
1993 SD <sub>5</sub>	* 1993 09 19.00573	23 14 10.57	-05 24 55.2		010	1993 SN <sub>5</sub>	1993 09 20.02141	23 16 50.82	-04 29 14.0		010
1993 SD <sub>5</sub>	1993 09 19.01736	23 14 09.83	-05 24 56.1		010	1993 SN <sub>5</sub>	1993 09 20.03218	23 16 50.20	-04 29 16.1		010
1993 SD <sub>5</sub>	1993 09 20.01071	23 13 09.09	-05 25 45.1	18.0	010	1993 SO <sub>5</sub>	1993 08 19.08403	23 41 38.55	-03 04 18.1	18.0	010
1993 SD <sub>5</sub>	1993 09 20.02141	23 13 08.44	-05 25 45.5		010	1993 SO <sub>5</sub>	1993 08 19.09479	23 41 38.14	-03 04 24.7		010
1993 SD <sub>5</sub>	1993 09 20.03218	23 13 07.76	-05 25 45.9		010	1993 SO <sub>5</sub>	1993 08 19.10556	23 41 37.71	-03 04 29.6		010
1993 SE <sub>5</sub>	* 1993 09 19.00573	23 14 18.18	-03 51 39.9		010	1993 SO <sub>5</sub>	* 1993 09 19.00573	23 19 17.52	-07 40 00.1		010
1993 SE <sub>5</sub>	1993 09 19.01736	23 14 17.60	-03 51 43.2		010	1993 SO <sub>5</sub>	1993 09 19.01736	23 19 17.04	-07 40 05.5		010
1993 SE <sub>5</sub>	1993 09 20.01071	23 13 26.20	-03 57 35.8	18.6	010	1993 SO <sub>5</sub>	1993 09 20.01071	23 18 31.76	-07 48 39.8	18.2	010
1993 SE <sub>5</sub>	1993 09 20.02141	23 13 25.64	-03 57 40.2		010	1993 SO <sub>5</sub>	1993 09 20.02141	23 18 31.25	-07 48 45.8		010
1993 SE <sub>5</sub>	1993 09 20.03218	23 13 24.97	-03 57 43.4		010	1993 SO <sub>5</sub>	1993 09 20.03218	23 18 30.64	-07 48 52.9		010
1993 SF <sub>5</sub>	1993 08 18.05729	23 33 35.56	-01 46 38.3		010	1993 SP <sub>5</sub>	* 1993 09 19.00573	23 19 54.21	-07 05 19.7		010
1993 SF <sub>5</sub>	1993 08 19.08403	23 33 09.09	-01 54 29.8	18.4	010	1993 SP <sub>5</sub>	1993 09 19.01736	23 19 53.65	-07 05 21.9		010
1993 SF <sub>5</sub>	1993 08 19.09479	23 33 08.82	-01 54 35.4		010	1993 SP <sub>5</sub>	1993 09 20.01071	23 18 55.86	-07 07 44.6	18.6	010
1993 SF <sub>5</sub>	1993 08 19.10556	23 33 08.25	-01 54 44.8		010	1993 SP <sub>5</sub>	1993 09 20.02141	23 18 55.07	-07 07 44.4		010
1993 SF <sub>5</sub>	* 1993 09 19.00573	23 14 34.94	-06 33 24.1		010	1993 SP <sub>5</sub>	1993 09 20.03218	23 18 54.41	-07 07 47.1		010
1993 SF <sub>5</sub>	1993 09 19.01736	23 14 34.53	-06 33 29.6		010	2548 P-L	1993 09 19.00573	23 19 41.07	-07 29 06.0		010
1993 SF <sub>5</sub>	1993 09 20.01071	23 13 56.75	-06 42 28.0	18.5	010	2548 P-L	1993 09 19.01736	23 19 40.52	-07 29 07.7		010
1993 SF <sub>5</sub>	1993 09 20.02141	23 13 56.23	-06 42 34.6		010	2548 P-L	1993 09 20.01071	23 18 57.96	-07 33 41.5	18.6	010

2548 P-L	1993 09 20.02141	23 18 57.38	-07 33 43.4		010	1973 SF <sub>6</sub>	1993 10 18.05069	03 58 23.13	+12 47 04.3		033
2548 P-L	1993 09 20.03218	23 18 56.89	-07 33 47.2		010	1976 YO <sub>2</sub>	1993 11 11.96528	04 52 49.83	+17 43 30.8		033
1269 T-2	1993 09 19.00573	23 13 21.28	-03 43 52.2		010	1976 YO <sub>2</sub>	1993 11 12.01528	04 52 47.16	+17 43 46.5		033
1269 T-2	1993 09 19.01736	23 13 20.68	-03 43 55.8		010	1976 YO <sub>2</sub>	1993 11 12.96736	04 51 57.98	+17 49 13.2	17.9	033
1269 T-2	1993 09 20.01071	23 12 36.13	-03 48 33.0	18.5	010	1976 YO <sub>2</sub>	1993 11 13.01250	04 51 55.47	+17 49 29.7		033
1269 T-2	1993 09 20.02141	23 12 35.59	-03 48 35.9		010	1978 TU <sub>8</sub>	1993 11 13.03819	05 16 21.12	+21 42 11.3	18.2	033
1269 T-2	1993 09 20.03218	23 12 34.96	-03 48 40.2		010	1978 TU <sub>8</sub>	1993 11 13.08194	05 16 19.37	+21 42 07.3		033
1279 T-2	1993 09 19.00573	23 05 17.97	-05 42 48.8		010	1982 JE <sub>1</sub>	1993 10 17.94306	02 14 45.77	+05 14 02.4	16.3	033
1279 T-2	1993 09 19.01736	23 05 17.35	-05 42 53.4		010	1982 JE <sub>1</sub>	1993 10 18.00278	02 14 42.14	+05 13 55.7		033
1279 T-2	1993 09 20.01071	23 04 28.64	-05 49 14.4	18.5	010	1985 JW <sub>1</sub>	1993 10 16.06111	03 55 28.80	+15 02 11.1	18.0	E 033
1279 T-2	1993 09 20.02141	23 04 28.09	-05 49 17.2		010	1985 JW <sub>1</sub>	1993 10 16.10903	03 55 27.28	+15 02 11.1		033
1279 T-2	1993 09 20.03218	23 04 27.45	-05 49 21.5		010	1985 PG <sub>2</sub>	1993 11 12.94444	04 10 49.22	+20 22 19.1	17.2	033
2144 T-2	1993 09 19.00573	23 02 47.63	-07 20 43.2		010	1985 PG <sub>2</sub>	1993 11 12.99028	04 10 46.44	+20 22 20.4		033
2144 T-2	1993 09 19.01736	23 02 47.02	-07 20 44.6		010	1988 EN	1993 10 17.94306	02 21 00.53	+07 19 19.8	18.9	033
2144 T-2	1993 09 20.01071	23 01 55.76	-07 23 35.2	18.5	010	1988 EN	1993 10 18.00278	02 20 57.19	+07 18 57.0		033
2144 T-2	1993 09 20.02141	23 01 55.19	-07 23 37.4		010	1988 EN	1993 11 11.94236	01 58 13.52	+05 05 19.0	19.5	033
2144 T-2	1993 09 20.03218	23 01 54.56	-07 23 36.0		010	1988 EN	1993 11 11.99306	01 58 11.09	+05 05 06.9		033
						1988 EN	1993 11 12.84236	01 57 31.09	+05 01 47.2		033
						1988 KC	1993 11 11.96528	04 47 52.20	+17 52 11.7		033
						1988 KC	1993 11 12.01528	04 47 49.39	+17 51 53.1		033
						1988 KC	1993 11 12.96736	04 46 56.05	+17 45 48.9	18.5	033
						1988 KC	1993 11 13.01250	04 46 53.39	+17 45 31.9		033
						1988 PM <sub>2</sub>	1993 10 17.94306	02 19 57.30	+05 47 13.9	17.8	033
						1988 PM <sub>2</sub>	1993 10 18.00278	02 19 54.36	+05 46 54.2		033
						1988 PM <sub>2</sub>	1993 11 11.94236	02 00 00.01	+03 53 47.8	18.2	033
						1988 PM <sub>2</sub>	1993 11 11.99306	01 59 57.80	+03 53 38.7		033
						1988 PM <sub>2</sub>	1993 11 12.84236	01 59 22.53	+03 51 09.8		033
						1989 AO <sub>6</sub>	1993 10 16.08472	07 00 24.94	+30 48 13.5	18.2	033
						1989 AO <sub>6</sub>	1993 10 16.13125	07 00 26.91	+30 48 14.4		I 033
						1989 AO <sub>6</sub>	1993 11 12.12778	07 10 08.07	+31 07 03.0	17.8	033
						1989 AO <sub>6</sub>	1993 11 13.10417	07 10 06.10	+31 08 03.3		033
						1989 AF <sub>7</sub>	1993 11 13.03819	05 20 06.59	+22 21 30.5	19.1	033
						1989 AF <sub>7</sub>	1993 11 13.08194	05 20 04.97	+22 21 29.3		033
						1989 AF <sub>7</sub>	1993 12 11.96111	04 57 04.34	+21 51 34.7	18.6	033
						1989 UZ <sub>4</sub>	1993 10 17.94306	02 13 41.23	+04 18 29.5	16.4	033
						1989 UZ <sub>4</sub>	1993 10 18.00278	02 13 38.24	+04 18 02.8		033
						1989 UF <sub>7</sub>	1993 10 18.02708	04 27 24.96	+21 51 23.0	18.7	033
						1989 UF <sub>7</sub>	1993 10 18.07361	04 27 23.70	+21 51 22.7		033
						1989 UF <sub>7</sub>	1993 11 12.94444	04 07 45.96	+21 28 17.7	18.7	033
						1989 UF <sub>7</sub>	1993 11 12.99028	04 07 43.08	+21 28 13.5		033
						1991 AL <sub>3</sub>	1993 11 12.81736	00 09 28.19	+04 32 45.0	17.8	033
						1991 AL <sub>3</sub>	1993 11 18.82639	00 09 57.92	+04 30 29.7		033
						1991 AL <sub>3</sub>	1993 12 17.78472	00 25 17.63	+05 41 31.4	18.6	V 033
						1991 CT <sub>1</sub>	1993 11 12.12778	07 11 30.97	+31 19 18.2	17.9	033
						1991 CT <sub>1</sub>	1993 11 13.10417	07 11 49.19	+31 22 15.7		033
						1991 CM <sub>3</sub>	1993 10 17.94306	02 22 12.28	+05 22 22.9	16.5	033
						1991 CM <sub>3</sub>	1993 10 18.00278	02 22 09.17	+05 22 02.7		033
						1991 CM <sub>3</sub>	1993 11 11.94236	02 00 16.12	+03 30 40.8	17.5	033
						1991 CM <sub>3</sub>	1993 11 11.99306	02 00 13.69	+03 30 33.2		033
						1991 CM <sub>3</sub>	1993 11 12.84236	01 59 35.14	+03 28 31.6		033
						1991 EG	1993 11 12.94444	04 04 01.72	+22 19 38.1	18.9	033
						1991 EG	1993 11 12.99028	04 03 58.65	+22 19 41.1		033

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Measurers P. Wild, U. Hugentobler

0.4-m Schmidt telescope

PPM

1986 RN <sub>5</sub>	1993 09 19.90563	23 55 22.86	-01 02 10.9	16	026
1986 RN <sub>5</sub>	1993 09 21.06458	23 54 12.55	-01 00 47.5		026
1986 RN <sub>5</sub>	1993 10 09.91806	23 37 45.22	-00 30 54.8		026
1986 RN <sub>5</sub>	1993 10 11.88576	23 36 31.92	-00 26 19.1		026
1987 KB	1991 09 10.06111	23 16 32.85	+19 16 29.0	15.5	026
1987 KB	1991 09 19.03333	23 10 05.38	+17 53 12.5	13.5	026
1987 KB	1991 10 02.90833	23 02 44.48	+15 06 07.9	15	026
1987 SZ <sub>6</sub>	1993 08 21.10938	03 02 54.44	+27 08 03.4	15.5	026
1987 SZ <sub>6</sub>	1993 09 20.97639	03 15 32.83	+29 02 04.3	15.5	026
1987 SZ <sub>6</sub>	1993 10 09.95208	03 10 48.51	+29 12 28.2		026
1987 SZ <sub>6</sub>	1993 10 10.96181	03 10 17.39	+29 11 23.2	15	026
1987 SZ <sub>6</sub>	1993 10 11.93889	03 09 45.92	+29 10 09.8		026
1987 SZ <sub>6</sub>	1993 11 12.98889	02 44 51.91	+26 59 20.9	14	026
1987 SZ <sub>6</sub>	1993 11 13.05139	02 44 48.71	+26 58 56.6		026
1987 SZ <sub>6</sub>	1993 12 03.77292	02 30 51.12	+24 39 30.5	15	026

**033 Tautenburg**

F. Börngen, Thüringer Landessternwarte, Sternwarte 5, D-07778 Tautenburg, Germany

L. D. Schmadel, Astronomisches Rechen-Institut, Mönchhofstrasse 12-14, D-69120 Heidelberg, Germany

1.3-m Schmidt telescope

PPM

1964 BF	1993 11 12.10556	07 32 13.78	+18 47 00.8	18.0	033
1964 BF	1993 11 12.15000	07 32 14.70	+18 47 03.9		033
1964 BF	1993 11 13.12708	07 32 35.91	+18 48 13.4		033
1973 SF <sub>6</sub>	1993 10 16.06111	03 59 24.74	+13 00 31.2	18.6	033
1973 SF <sub>6</sub>	1993 10 16.10903	03 59 23.20	+13 00 11.7		033

1991 GP <sub>10</sub>	1993 11 11.96528	04 51 11.43	+18 00 13.0		033	1993 VV <sub>4</sub>	1993 11 12.01528	04 50 12.55	+17 49 47.2		033
1991 GP <sub>10</sub>	1993 11 12.01528	04 51 08.97	+18 00 08.9		033	1993 VV <sub>4</sub>	1993 11 12.96736	04 49 29.99	+17 50 40.8	18.1	033
1991 GP <sub>10</sub>	1993 11 12.96736	04 50 23.50	+17 58 56.4	19.2	033	1993 VV <sub>4</sub>	1993 11 13.01250	04 49 27.89	+17 50 42.9		033
1991 GP <sub>10</sub>	1993 11 13.01250	04 50 21.22	+17 58 53.1		033	1993 VD <sub>5</sub>	* 1993 11 11.94236	01 54 21.70	+02 59 41.5	18.3	033
1991 GQ <sub>10</sub>	1993 10 16.06111	04 00 33.92	+13 29 37.7	17.4	033	1993 VD <sub>5</sub>	1993 11 11.99306	01 54 18.57	+02 59 56.0		033
1991 GQ <sub>10</sub>	1993 10 16.10903	04 00 32.68	+13 29 28.6		033	1993 VD <sub>5</sub>	1993 11 12.84236	01 53 26.40	+03 04 08.6		033
1991 GQ <sub>10</sub>	1993 10 18.05069	03 59 44.78	+13 23 42.3		033	1993 VE <sub>5</sub>	* 1993 11 11.94236	01 55 04.35	+03 27 49.1	17.8	033
1991 GQ <sub>10</sub>	1993 12 17.80972	03 14 18.91	+11 19 41.0	17.5	033	1993 VE <sub>5</sub>	1993 11 11.99306	01 55 01.88	+03 27 59.9		033
1992 SP <sub>24</sub>	1993 11 12.08403	06 51 26.36	+21 34 30.5	18.5	033	1993 VE <sub>5</sub>	1993 11 12.84236	01 54 22.01	+03 31 08.4		033
1992 SP <sub>24</sub>	1993 11 13.05972	06 51 24.40	+21 32 28.4		033	1993 VF <sub>5</sub>	* 1993 11 11.94236	01 55 43.07	+04 21 25.2	18.7	033
1992 SP <sub>24</sub>	1993 12 18.99236	06 33 02.39	+20 31 09.9	17.7	033	1993 VF <sub>5</sub>	1993 11 11.99306	01 55 40.83	+04 21 19.0		033
1992 SP <sub>24</sub>	1993 12 19.02708	06 33 00.55	+20 31 06.6		T 033	1993 VF <sub>5</sub>	1993 11 12.84236	01 55 06.61	+04 19 42.9		033
1993 SJ <sub>3</sub>	1993 10 17.84861	23 54 29.83	+01 41 44.7	18.3	033	1993 VG <sub>5</sub>	* 1993 11 11.94236	01 56 31.29	+04 30 45.6	19.3	033
1993 SJ <sub>3</sub>	1993 10 17.89526	23 54 28.02	+01 41 24.6		033	1993 VG <sub>5</sub>	1993 11 11.99306	01 56 29.48	+04 30 17.8		033
1993 SE <sub>4</sub>	* 1993 09 18.93889	00 25 10.18	-10 31 56.4	18.5	033	1993 VG <sub>5</sub>	1993 11 12.84236	01 56 00.84	+04 22 50.3		033
1993 SE <sub>4</sub>	1993 09 18.98403	00 25 08.55	-10 32 15.3		033	1993 VH <sub>5</sub>	* 1993 11 11.94236	01 56 32.52	+04 47 23.1	19.2	033
1993 SE <sub>4</sub>	1993 09 21.98333	00 23 24.48	-10 53 02.8		033	1993 VH <sub>5</sub>	1993 11 11.99306	01 56 30.45	+04 47 17.3		033
1993 SF <sub>4</sub>	* 1993 09 18.93889	00 25 13.96	-11 31 49.4	17.1	033	1993 VH <sub>5</sub>	1993 11 12.84236	01 55 57.84	+04 45 41.6		033
1993 SF <sub>4</sub>	1993 09 18.98403	00 25 11.54	-11 32 10.2		033	1993 VJ <sub>5</sub>	1993 10 17.94306	02 20 28.77	+06 46 25.1	18.1	033
1993 SF <sub>4</sub>	1993 09 21.98333	00 22 40.00	-11 54 32.2		033	1993 VJ <sub>5</sub>	1993 10 18.00278	02 20 25.56	+06 46 08.5		033
1993 UL	1993 11 11.94236	02 04 22.65	+04 15 29.9	18.8	033	1993 VJ <sub>5</sub>	* 1993 11 11.94236	01 57 52.98	+05 12 58.5	18.6	033
1993 UL	1993 11 11.99306	02 04 20.61	+04 15 06.0		033	1993 VJ <sub>5</sub>	1993 11 11.99306	01 57 50.48	+05 12 51.2		033
1993 UL	1993 11 12.84236	02 03 47.89	+04 08 43.2		033	1993 VJ <sub>5</sub>	1993 11 12.84236	01 57 10.24	+05 11 02.1		033
1993 UQ <sub>2</sub>	1993 10 17.94306	02 12 42.64	+05 26 04.4	18.5	033	1993 VK <sub>5</sub>	* 1993 11 11.94236	01 58 25.57	+04 39 04.3	19.1	033
1993 UQ <sub>2</sub>	1993 10 18.00278	02 12 39.92	+05 25 38.0		033	1993 VK <sub>5</sub>	1993 11 11.99306	01 58 23.11	+04 38 56.2		033
1993 UQ <sub>2</sub>	1993 11 11.94236	01 55 05.94	+02 48 34.5	18.9	033	1993 VK <sub>5</sub>	1993 11 12.84236	01 57 43.73	+04 36 51.2		033
1993 UQ <sub>2</sub>	1993 11 11.99306	01 55 04.02	+02 48 19.7		033	1993 VL <sub>5</sub>	* 1993 11 11.94236	02 00 30.40	+02 40 20.2	18.8	033
1993 UQ <sub>2</sub>	1993 11 12.84236	01 54 33.75	+02 44 24.3		033	1993 VL <sub>5</sub>	1993 11 11.99306	02 00 28.03	+02 40 23.5		033
1993 UR <sub>2</sub>	1993 10 17.94306	02 15 43.28	+05 15 04.9	18.6	033	1993 VL <sub>5</sub>	1993 11 12.84236	01 59 50.94	+02 41 34.2		033
1993 UR <sub>2</sub>	1993 10 18.00278	02 15 39.93	+05 14 35.3		033	1993 VZ <sub>7</sub>	* 1993 11 12.12778	07 06 32.38	+31 58 54.2	18.0	033
1993 US <sub>2</sub>	1993 10 17.94306	02 22 20.72	+07 18 22.7	18.2	033	1993 VZ <sub>7</sub>	1993 11 13.10417	07 06 25.71	+31 59 46.6		033
1993 US <sub>2</sub>	1993 10 18.00278	02 22 18.43	+07 17 38.0		033	1993 VA <sub>8</sub>	* 1993 11 12.12778	07 08 40.76	+31 28 01.2	18.3	033
1993 UW <sub>2</sub>	1993 10 16.06111	03 55 45.18	+13 16 12.8	17.9	033	1993 VA <sub>8</sub>	1993 11 13.10417	07 08 39.21	+31 31 48.4		033
1993 UW <sub>2</sub>	1993 10 16.10903	03 55 43.76	+13 15 54.1		033	1993 VB <sub>8</sub>	* 1993 11 12.10556	07 34 03.55	+18 49 42.9	18.6	033
1993 UW <sub>2</sub>	1993 10 18.05069	03 54 48.24	+13 02 28.9		033	1993 VB <sub>8</sub>	1993 11 12.15000	07 34 04.60	+18 49 45.6		033
1993 UQ <sub>3</sub>	* 1993 10 16.06111	03 56 54.39	+14 11 42.0	18.8	033	1993 VB <sub>8</sub>	1993 11 13.12708	07 34 29.91	+18 50 54.0		033
1993 UQ <sub>3</sub>	1993 10 16.10903	03 56 52.36	+14 11 37.7		033	1993 VC <sub>8</sub>	* 1993 11 11.96528	04 44 13.91	+19 26 24.1		E 033
1993 UQ <sub>3</sub>	1993 10 18.05069	03 55 33.30	+14 08 46.3		033	1993 VC <sub>8</sub>	1993 11 12.96736	04 43 17.12	+19 25 42.9	18.9	E 033
1993 UR <sub>3</sub>	* 1993 10 16.06111	03 58 09.97	+13 56 13.7	19.0	033	1993 VC <sub>8</sub>	1993 11 13.01250	04 43 14.49	+19 25 40.1		E 033
1993 UR <sub>3</sub>	1993 10 16.10903	03 58 08.87	+13 56 10.8		033	1993 VD <sub>8</sub>	* 1993 11 11.96528	04 50 03.21	+18 36 40.5		033
1993 UR <sub>3</sub>	1993 10 18.05069	03 57 28.24	+13 53 53.2		033	1993 VD <sub>8</sub>	1993 11 12.01528	04 50 00.90	+18 36 36.4		033
1993 US <sub>3</sub>	* 1993 10 16.06111	04 02 44.89	+12 07 33.7	19.2	033	1993 VD <sub>8</sub>	1993 11 12.96736	04 49 18.41	+18 35 25.2	18.7	033
1993 US <sub>3</sub>	1993 10 16.10903	04 02 43.72	+12 07 23.4		033	1993 VD <sub>8</sub>	1993 11 13.01250	04 49 16.35	+18 35 21.7		033
1993 US <sub>3</sub>	1993 10 18.05069	04 02 00.19	+12 00 46.8		033	1993 VE <sub>8</sub>	* 1993 11 11.96528	04 51 39.47	+18 06 25.2		033
1993 UT <sub>3</sub>	* 1993 10 16.06111	04 08 17.24	+12 29 38.4	18.4	E 033	1993 VE <sub>8</sub>	1993 11 12.01528	04 51 36.87	+18 06 21.8		033
1993 UT <sub>3</sub>	1993 10 16.10903	04 08 16.39	+12 29 33.4		033	1993 VE <sub>8</sub>	1993 11 12.96736	04 50 50.20	+18 05 18.0	19.1	033
1993 UT <sub>3</sub>	1993 10 18.05069	04 07 38.79	+12 25 36.2		033	1993 VE <sub>8</sub>	1993 11 13.01250	04 50 47.85	+18 05 14.3		033
1993 VM <sub>2</sub>	1993 11 12.94444	04 04 03.40	+22 33 08.7	19.2	033	1993 VF <sub>8</sub>	* 1993 11 11.96528	04 54 00.50	+17 38 17.9		033
1993 VM <sub>2</sub>	1993 11 12.99028	04 04 00.75	+22 33 04.1		033	1993 VF <sub>8</sub>	1993 11 12.01528	04 53 58.14	+17 38 08.3		033
1993 VT <sub>3</sub>	1993 10 18.02708	04 22 06.31	+20 20 16.6	18.6	033	1993 VF <sub>8</sub>	1993 11 12.96736	04 53 15.40	+17 34 36.3	18.9	033
1993 VT <sub>3</sub>	1993 10 18.07361	04 22 05.13	+20 20 12.1		033	1993 VF <sub>8</sub>	1993 11 13.01250	04 53 13.26	+17 34 26.9		033
1993 VV <sub>4</sub>	1993 11 11.96528	04 50 14.84	+17 49 44.6		033	1993 VG <sub>8</sub>	* 1993 11 11.96528	04 54 05.39	+17 00 59.1		033

1993 VG <sub>8</sub>	1993 11 12.01528	04 54 02.79	+17 00 42.6		033
1993 VG <sub>8</sub>	1993 11 12.96736	04 53 15.33	+16 54 56.1	18.0	033
1993 VG <sub>8</sub>	1993 11 13.01250	04 53 12.95	+16 54 39.7		033
1993 VH <sub>8</sub>	* 1993 11 11.96528	04 56 21.83	+19 18 23.3		033
1993 VH <sub>8</sub>	1993 11 12.01528	04 56 19.51	+19 18 29.0		033
1993 VH <sub>8</sub>	1993 11 12.96736	04 55 41.79	+19 20 24.9	19.0	033
1993 VH <sub>8</sub>	1993 11 13.01250	04 55 39.82	+19 20 30.3		033
1993 VJ <sub>8</sub>	* 1993 11 11.96528	04 57 13.86	+17 10 41.1		033
1993 VJ <sub>8</sub>	1993 11 12.01528	04 57 11.79	+17 10 40.7		V 033
1993 VJ <sub>8</sub>	1993 11 12.96736	04 56 32.64	+17 09 49.5	19.0	033
1993 VJ <sub>8</sub>	1993 11 13.01250	04 56 30.80	+17 09 47.2		033
1993 WE	1993 11 12.94444	04 03 56.56	+22 44 08.9	18.6	033
1993 WE	1993 11 12.99028	04 03 53.97	+22 44 02.2		033
1993 XS	1993 11 13.03819	05 17 41.77	+22 07 17.3	19.0	033
1993 XS	1993 11 13.08194	05 17 40.20	+22 07 17.2		033
1993 XC <sub>1</sub>	1993 11 11.96528	04 53 31.13	+18 57 33.6		033
1993 XC <sub>1</sub>	1993 11 12.01528	04 53 28.77	+18 57 30.5		033
1993 XC <sub>1</sub>	1993 11 12.96736	04 52 45.95	+18 56 21.8	18.6	033
1993 XC <sub>1</sub>	1993 11 13.01250	04 52 43.84	+18 56 18.6		033
3134 T-3	1993 11 11.96528	04 57 11.85	+17 20 11.7		033
3134 T-3	1993 11 12.01528	04 57 08.90	+17 20 02.3		033
3134 T-3	1993 11 12.96736	04 56 12.98	+17 16 28.7	18.8	033
3134 T-3	1993 11 13.01250	04 56 10.23	+17 16 19.1		033

**046 Kleť**

J. Tichá, Hvězdárna Kleť, CZ-37001 České Budějovice, Czech Republic

Observers J. Tichá, Z. Moravec, M. Tichý

Measurers M. Tichý

0.63-m Maksutov reflector, 0.57-m reflector

PPM

1980 AA	1993 02 18.76066	08 53 41.31	+02 07 08.6		046
1980 AA	1993 02 18.76242	08 53 41.57	+02 07 05.8		046
1980 AA	1993 02 18.76419	08 53 41.86	+02 07 04.6		046
1980 AA	1993 03 13.87977	09 42 18.31	-01 11 05.7		046
1993 XC <sub>1</sub>	1993 12 05.84410	04 32 30.02	+18 28 12.9	15.6	046
1993 XC <sub>1</sub>	1993 12 05.85833	04 32 29.20	+18 28 11.9		046

**095 Crimean Astrophysical Observatory**N. S. Chernykh, Crimean Astrophysical Observatory, P.O. Nauchnyj, Crimea  
334413, Ukraine

Observers N. Chernykh, V. Rumyantsev

Measurer V. Rumyantsev

1993 MF	1993 09 08.81806	00 12 45.88	+38 02 53.4		095
1993 MF	1993 09 10.79861	00 14 48.20	+37 23 08.4		095
1993 MF	1993 09 10.81597	00 14 49.15	+37 22 46.9		095
1993 MF	1993 09 10.83333	00 14 49.98	+37 22 26.2		095
1993 MF	1993 09 14.80382	00 18 14.20	+35 54 25.0		095
1993 MF	1993 09 16.79705	00 19 38.81	+35 06 32.5		095
1993 MF	1993 09 16.82124	00 19 39.64	+35 05 57.9		095
1993 MF	1993 09 18.78842	00 20 53.30	+34 16 32.7		095
1993 MF	1993 09 18.81271	00 20 53.97	+34 15 56.9		095
1993 MF	1993 09 18.82986	00 20 54.45	+34 15 31.2		095

1993 MF	1993 09 24.88356	00 23 51.65	+31 33 26.2		095
1993 MF	1993 09 24.90440	00 23 51.96	+31 32 51.2		095

**104 San Marcello Pistoiese**L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028 San  
Marcello Pistoiese (PT), Italy

Observers L. Tesi, G. Cattani, A. Boattini, M. Tombelli

0.4-m  $f/5$  reflector + CCD

GSC

1991 CX	1994 01 01.93603	07 08 41.19	+18 13 56.5		104
1991 CX	1994 01 01.94380	07 08 40.73	+18 13 56.9		104
1991 CX	1994 01 01.94646	07 08 40.52	+18 13 57.4		104
1991 CX	1994 01 01.95606	07 08 39.75	+18 13 58.1		104
1991 CX	1994 01 01.97419	07 08 38.49	+18 14 00.4		104

**107 Cavezzo**

E. Colombini, Via S. Vittore 44, I-40136 Bologna, Italy

Observers R. Calanca, R. Bonomi

0.40-m  $f/2.23$  reflector + CCD

GSC

1930 UX	1993 12 11.99539	04 33 50.46	+31 29 25.7		107
1930 UX	1993 12 12.01767	04 33 49.04	+31 29 21.8		107
1930 UX	1993 12 12.77134	04 33 02.00	+31 26 00.9		107
1930 UX	1993 12 12.79957	04 33 00.32	+31 25 54.7		107
1934 GA	1993 12 11.93499	04 55 13.14	+29 36 09.0		107
1934 GA	1993 12 11.96495	04 55 10.49	+29 36 27.2		107
1980 RU	1993 12 17.97555	04 36 25.28	+47 40 54.9		107
1980 RU	1993 12 18.00729	04 36 22.91	+47 40 43.8		107
1986 AG <sub>1</sub>	1993 12 11.94694	03 42 59.17	+51 28 17.1		107
1986 AG <sub>1</sub>	1993 12 11.98972	03 42 55.91	+51 27 28.4		107
1986 AG <sub>1</sub>	1993 12 12.80910	03 41 58.51	+51 12 03.5		107
1986 AG <sub>1</sub>	1993 12 12.83122	03 41 56.90	+51 11 38.1		107
1987 QY <sub>10</sub>	1993 12 12.04332	06 06 00.26	+09 53 14.5		107
1987 QY <sub>10</sub>	1993 12 12.06483	06 05 59.06	+09 53 14.1		107
1987 QY <sub>10</sub>	1993 12 12.87267	06 05 17.53	+09 54 32.4		107
1987 QY <sub>10</sub>	1993 12 12.88828	06 05 16.95	+09 54 30.6		107
1988 XW <sub>1</sub>	1993 12 11.94011	03 02 22.82	+13 58 52.2		107
1988 XW <sub>1</sub>	1993 12 11.97144	03 02 21.65	+13 58 54.8		107
1988 XW <sub>1</sub>	1993 12 12.75730	03 01 55.34	+14 00 38.9		107
1988 XW <sub>1</sub>	1993 12 12.77733	03 01 54.60	+14 00 40.0		107
1989 RC <sub>1</sub>	1993 12 12.00153	05 08 24.74	+06 01 14.0		107
1989 RC <sub>1</sub>	1993 12 12.02625	05 08 23.07	+06 01 27.4		107
1989 RC <sub>1</sub>	1993 12 12.84201	05 07 28.51	+06 09 03.0		107
1989 RC <sub>1</sub>	1993 12 12.86719	05 07 26.72	+06 09 17.4		107
1989 RO <sub>2</sub>	1993 12 12.05250	06 58 53.08	+67 44 06.8		107
1989 RO <sub>2</sub>	1993 12 12.07104	06 58 51.10	+67 44 15.2		107
1989 RO <sub>2</sub>	1993 12 12.88351	06 57 15.69	+67 47 25.1		107
1989 RO <sub>2</sub>	1993 12 12.90739	06 57 12.67	+67 47 31.2		107
1989 YB	1993 12 17.78181	03 24 47.23	+24 25 27.9		107
1989 YB	1993 12 17.83702	03 24 46.49	+24 25 02.7		107
1989 YB	1993 12 18.78062	03 24 36.91	+24 17 55.8		107
1989 YB	1993 12 18.80568	03 24 36.62	+24 17 44.9		107
1989 YM	1993 12 17.98247	05 05 54.45	+36 05 10.3		107

1989 YM	1993 12 18.01240	05 05 52.35	+36 04 58.2	107
1990 BR <sub>1</sub>	1993 12 17.98738	05 16 55.44	+03 40 01.0	107
1990 BR <sub>1</sub>	1993 12 18.01905	05 16 53.81	+03 40 09.7	107
1991 PQ	1993 12 12.03601	06 41 19.60	+38 48 08.3	107
1991 PQ	1993 12 12.06007	06 41 18.24	+38 48 05.6	107
1991 PQ	1993 12 12.87698	06 40 33.05	+38 47 03.3	107
1991 PQ	1993 12 12.90078	06 40 31.70	+38 47 01.8	107
1993 VW	1993 12 02.82080	02 06 34.80	+08 13 05.4	107
1993 VW	1993 12 02.84804	02 06 31.81	+08 12 16.2	107
1993 VW	1993 12 04.81417	02 03 11.90	+07 14 16.4	107
1993 VW	1993 12 04.83455	02 03 09.74	+07 13 40.2	107

**108 Montelupo**

M. Tombelli, Via Bozzeto 26, I-50056 Montelupo (Fi), Italy

Observers M. Tombelli, S. Bartolini, A. Boattini

0.20-m *f*/10 reflector + CCD

GSC

1989 YM	1993 11 27.94178	05 28 44.44	+37 47 53.0	15.5	108
1989 YM	1993 11 27.94632	05 28 44.07	+37 47 51.2		108
1989 YM	1993 11 27.95157	05 28 43.73	+37 47 49.6		108
1989 YM	1993 11 27.98209	05 28 41.74	+37 47 45.8		108
1989 YM	1993 11 27.98488	05 28 41.52	+37 47 44.8		108
1989 YM	1993 12 30.02703	04 53 47.15	+34 26 55.3		108
1989 YM	1993 12 30.03119	04 53 46.84	+34 26 53.4		108
1989 YM	1993 12 30.04340	04 53 46.32	+34 26 47.0		108
1989 YM	1993 12 30.04844	04 53 46.01	+34 26 43.6		108
1989 YM	1993 12 30.05555	04 53 45.70	+34 26 40.2		108
1993 WD	1993 11 27.85801	00 15 06.40	+32 14 40.7	14.3	108
1993 WD	1993 11 27.86148	00 15 02.84	+32 14 55.0		108
1993 WD	1993 11 27.86361	00 15 00.45	+32 15 04.6		108
1993 WD	1993 11 27.92337	00 13 56.98	+32 18 55.6		108
1993 WD	1993 11 27.92547	00 13 54.85	+32 19 03.2		108
1993 WD	1993 11 27.92825	00 13 52.01	+32 19 14.5		108
1993 WD	1993 12 03.86110	22 55 39.46	+35 35 52.5		108
1993 WD	1993 12 03.86269	22 55 38.57	+35 35 53.0		108
1993 WD	1993 12 03.86562	22 55 37.09	+35 35 54.7		108
1993 WD	1993 12 03.86796	22 55 35.51	+35 35 57.2		108

**303 Mérida**

O. A. Naranjo, Dept. de Física, Universidad de los Andes, Mérida 5101, Venezuela

Observer O. A. Naranjo

1.0-m Schmidt

1992 YF <sub>5</sub>	* 1992 12 18.12014	03 38 57.32	+06 00 31.4	17	303
1992 YF <sub>5</sub>	1992 12 18.13398	03 38 56.97	+06 00 35.1	17	303
1992 YF <sub>5</sub>	1992 12 18.14781	03 38 56.62	+06 00 37.4	17	303
1992 YF <sub>5</sub>	1992 12 19.15972	03 38 30.93	+06 02 12.1	17	303
1992 YG <sub>5</sub>	* 1992 12 18.12014	03 43 38.44	+06 53 16.4	16	303
1992 YG <sub>5</sub>	1992 12 18.13398	03 43 38.05	+06 53 15.3	16	303
1992 YG <sub>5</sub>	1992 12 18.14781	03 43 37.59	+06 53 14.8	16	303
1992 YG <sub>5</sub>	1992 12 19.15972	03 43 06.15	+06 51 47.1	16	303
1992 YH <sub>5</sub>	* 1992 12 18.12014	03 46 20.37	+08 03 23.5	16	303
1992 YH <sub>5</sub>	1992 12 18.13398	03 46 19.87	+08 03 24.8	16	303
1992 YH <sub>5</sub>	1992 12 18.14781	03 46 19.33	+08 03 26.4	16	303

1992 YH <sub>5</sub>	1992 12 19.15972	03 45 41.39	+08 04 48.5	16	303
1993 VW <sub>7</sub>	* 1993 11 13.14769	03 40 46.53	+06 20 35.3	16	303
1993 VW <sub>7</sub>	1993 11 13.16157	03 40 45.62	+06 20 30.8	16	303
1993 VW <sub>7</sub>	1993 11 13.17546	03 40 44.70	+06 20 28.4	16	303
1993 VW <sub>7</sub>	1993 11 15.17106	03 38 37.56	+06 11 05.1	16	303
1993 VX <sub>7</sub>	* 1993 11 13.14769	03 43 58.30	+06 40 44.4	16	303
1993 VX <sub>7</sub>	1993 11 13.16157	03 43 57.71	+06 40 38.7	16	303
1993 VX <sub>7</sub>	1993 11 13.17546	03 43 57.00	+06 40 33.3	16	303
1993 VX <sub>7</sub>	1993 11 15.17106	03 42 18.68	+06 27 32.1	16	303
1993 VY <sub>7</sub>	* 1993 11 13.14769	03 44 03.69	+07 53 33.2	16	303
1993 VY <sub>7</sub>	1993 11 13.16157	03 44 02.99	+07 53 26.8	16	303
1993 VY <sub>7</sub>	1993 11 13.17546	03 44 02.33	+07 53 21.4	16	303
1993 VY <sub>7</sub>	1993 11 15.17106	03 42 22.36	+07 38 18.2	16	303

**323 Perth**

A. Verveer, Perth Observatory, Bickley, WA 6076, Australia

Observers P. Birch, G. Lowe, T. Smith, A. Verveer

0.3-m astrograph

1992 LR	1992 07 22.61667	17 56 35.33	+01 01 14.7		323
1992 LR	1992 07 27.71076	18 34 34.93	+03 09 16.2		323
1992 LR	1992 07 31.53785	19 05 10.49	+04 30 31.3		323
1992 LR	1992 08 17.52847	21 05 49.68	+06 32 48.9		323
1992 LR	1992 08 18.52083	21 11 10.68	+06 29 23.6		323
1992 LR	1992 08 21.56875	21 26 17.38	+06 14 18.4		323
1992 NA	1992 08 21.79861	00 57 51.25	-30 55 45.4		323
1992 NA	1992 08 28.88229	01 52 24.83	-12 55 25.8		323
1994 AW <sub>1</sub>	1994 01 17.60347	07 02 52.32	+09 07 18.4		323

**360 Kuma Kogen Astronomical Observatory**

A. Nakamura, Shimo-Hatanokawa, Kuma-cho, Ehime-Ken, 791-12 Japan

Observer A. Nakamura

0.60-m *f*/6.0 Ritchey-Chrétien + CCD

GSC

1980 RG <sub>1</sub>	1993 11 18.65608	02 27 59.04	+16 22 05.5	17.4 V	360
1980 RG <sub>1</sub>	1993 11 18.65903	02 27 58.98	+16 22 04.0		360

**365 Uto Observatory**

12-1 Shirakashi Cho 7 Chome, Kashihara, Nara-Ken, Japan

Observer F. Uto

0.20-m *f*/4.0 reflector

PPM

1988 NR	1993 11 22.65861	03 53 40.06	+27 50 30.1	17.0	365
1988 NR	1993 11 22.68639	03 53 38.22	+27 50 14.2		365
1993 VQ <sub>2</sub>	1993 11 22.67285	03 56 56.15	+23 52 19.3	16.5	365
1993 VQ <sub>2</sub>	1993 11 22.69958	03 56 54.29	+23 52 14.9		365
1993 VR <sub>2</sub>	1993 12 07.63323	03 45 42.35	+20 44 40.9	16.5	365
1993 VR <sub>2</sub>	1993 12 07.65997	03 45 41.05	+20 44 26.6		365

**367 Yatsuka**

H. Abe, 461-2, Futago, Yatsuka-Cho, Shimane-Ken 690-14, Japan

0.26-m *f*/4.8 reflector

PPM

1993 TF	1993 11 14.68300	01 18 32.85	+05 28 54.6		367
1993 TF	1993 11 14.70016	01 18 32.46	+05 28 53.0		367

1993 TF	1993 11 15.51532	01 18 12.70	+05 28 23.2	367	1991 CW	1993 12 05.57182	03 57 16.18	+12 24 52.1	385
1993 TF	1993 11 15.53244	01 18 12.31	+05 28 21.3	367	1991 CW	1993 12 05.57487	03 57 15.98	+12 24 52.4	385
1993 TX	1993 11 14.68300	01 19 46.69	+06 02 51.0	367	1991 CW	1993 12 05.57787	03 57 15.82	+12 24 52.7	385
1993 TX	1993 11 14.70016	01 19 46.19	+06 03 00.8	367	1991 CW	1993 12 09.50000	03 53 44.19	+12 30 44.4	385
1993 TX	1993 11 15.51532	01 19 23.40	+06 10 13.1	367	1991 CW	1993 12 09.50295	03 53 44.03	+12 30 44.9	385
1993 TX	1993 11 15.53244	01 19 22.94	+06 10 21.8	367	1991 CW	1993 12 09.50590	03 53 43.89	+12 30 45.2	385
<b>372 Geisei</b>					1991 DM <sub>1</sub>	1993 12 05.60405	05 58 18.32	+04 16 45.1	385
T. Seki, Kamimachi 2-9-35, Kochi, Japan					1991 DM <sub>1</sub>	1993 12 05.60705	05 58 18.20	+04 16 45.2	385
0.60-m <i>f</i> /3.5 reflector					1991 DM <sub>1</sub>	1993 12 05.61013	05 58 17.97	+04 16 44.9	385
ACRS					1991 DM <sub>1</sub>	1993 12 09.56668	05 54 46.30	+04 12 26.2	385
1973 SF <sub>6</sub>	1993 11 09.62326	03 38 54.64	+10 09 54.7	15.5	1991 DM <sub>1</sub>	1993 12 09.56969	05 54 46.14	+04 12 26.0	385
1973 SF <sub>6</sub>	1993 11 09.63299	03 38 54.00	+10 09 51.3		1991 DM <sub>1</sub>	1993 12 09.59994	05 54 44.47	+04 12 24.8	385
1993 UU	1993 11 24.72396	02 48 05.29	+14 33 24.3	15	1991 EG	1993 12 05.51655	03 37 35.63	+22 25 39.4	385
1993 UU	1993 11 24.73507	02 48 04.70	+14 33 27.2		1991 EG	1993 12 05.52310	03 37 35.16	+22 25 39.6	385
1993 VP <sub>2</sub>	1993 11 24.75104	03 56 51.76	+14 14 02.1	17	1991 EG	1993 12 05.52617	03 37 34.97	+22 25 39.4	385
1993 VO <sub>4</sub>	1993 12 06.53160	04 11 13.01	+18 21 47.5	16.5	1991 EG	1993 12 09.48420	03 33 23.42	+22 24 38.5	385
1993 VO <sub>4</sub>	1993 12 06.53819	04 11 12.18	+18 21 48.3		1991 EG	1993 12 09.49120	03 33 22.95	+22 24 38.2	385
1993 VO <sub>4</sub>	1993 12 08.60069	04 09 11.90	+18 27 56.6	16.5	1991 EG	1993 12 09.49444	03 33 22.78	+22 24 38.4	385
1993 XG	* 1993 12 06.55139	04 37 54.34	+11 41 01.4	16	1993 UN	1993 12 05.46118	00 53 00.08	+04 45 45.8	385
1993 XG	1993 12 08.58300	04 35 55.82	+11 48 53.7	16	1993 UN	1993 12 05.47061	00 53 00.33	+04 45 48.3	385
1993 XG	1993 12 12.60417	04 32 05.89	+12 05 45.3	16.5	1993 UN	1993 12 05.47512	00 53 00.39	+04 45 49.5	385
1993 XG	1993 12 14.56840	04 30 17.62	+12 14 27.8	16.5	1993 UN	1993 12 18.46891	01 00 34.28	+05 38 43.4	17.5 V 385
1993 XH	* 1993 12 06.55139	04 39 59.45	+11 57 09.4	17	1993 UN	1993 12 18.48045	01 00 34.80	+05 38 45.7	385
1993 XH	1993 12 08.58300	04 37 52.81	+11 58 36.0	17	1993 UN	1993 12 18.48492	01 00 35.04	+05 38 47.6	385
1993 XH	1993 12 12.60417	04 33 50.26	+12 03 36.4	17.5	1993 UT	1993 12 05.50000	02 32 39.14	+01 40 03.4	385
1993 XH	1993 12 14.56840	04 31 57.08	+12 07 04.0	18	1993 UT	1993 12 05.50453	02 32 38.84	+01 40 05.8	385
<b>385 Nihondaira Observatory Oohira station</b>					1993 UT	1993 12 05.50891	02 32 38.63	+01 40 09.8	385
T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan					1993 UT	1993 12 12.51505	02 27 29.75	+03 02 31.9	17 V 385
0.31-m <i>f</i> /4.7 reflector + CCD					1993 UT	1993 12 12.52167	02 27 29.52	+03 02 36.3	385
GSC					1993 UT	1993 12 18.52380	02 24 19.24	+04 14 11.2	17 V 385
1972 RF <sub>2</sub>	1993 11 15.58000	02 04 34.45	+08 03 19.9	17.5 V	1993 UT	1993 12 18.52811	02 24 19.09	+04 14 13.2	385
1972 RF <sub>2</sub>	1993 11 15.58404	02 04 34.29	+08 03 18.7		1993 UT	1993 12 18.53244	02 24 18.96	+04 14 17.3	385
1972 RF <sub>2</sub>	1993 11 15.58715	02 04 34.18	+08 03 18.1		1993 VO	1993 12 05.48206	01 04 08.85	+04 09 36.2	385
1976 YO <sub>2</sub>	1993 12 09.52095	04 21 49.06	+20 32 58.6		1993 VO	1993 12 05.48682	01 04 09.09	+04 09 36.2	385
1976 YO <sub>2</sub>	1993 12 09.52396	04 21 48.82	+20 33 00.0		1993 VO	1993 12 05.49133	01 04 09.21	+04 09 36.6	385
1976 YO <sub>2</sub>	1993 12 09.52692	04 21 48.59	+20 33 01.1		1993 VO	1993 12 11.47546	01 08 16.27	+04 15 45.4	16.5 V 385
1986 UG	1993 12 23.62017	09 16 44.96	+14 51 26.7	17 V	1993 VO	1993 12 11.54025	01 08 19.16	+04 15 51.9	385
1986 UG	1993 12 23.62391	09 16 44.91	+14 51 27.7		1993 VO	1993 12 18.49080	01 14 17.34	+04 33 05.8	16.5 V 385
1986 UG	1993 12 23.62757	09 16 44.85	+14 51 28.4		1993 VO	1993 12 18.49515	01 14 17.62	+04 33 06.0	385
1987 BB	1993 12 05.58253	04 05 44.24	+20 09 48.9		1993 VO	1993 12 18.49959	01 14 17.84	+04 33 06.8	385
1987 BB	1993 12 05.58551	04 05 43.98	+20 09 48.2		1993 VO	1994 01 02.45484	01 30 49.33	+05 39 48.6	17 V 385
1987 BB	1993 12 05.58846	04 05 43.75	+20 09 47.5		1993 VO	1994 01 02.45926	01 30 49.56	+05 39 50.6	385
1987 BB	1993 12 09.51043	04 01 38.99	+19 58 56.1		1993 VO	1994 01 02.46360	01 30 49.81	+05 39 50.4	385
1987 BB	1993 12 09.51331	04 01 38.82	+19 58 55.3		1993 VW	1993 12 18.50870	01 45 52.29	+00 55 17.6	16 V 385
1987 BB	1993 12 09.51632	04 01 38.59	+19 58 54.6		1993 VW	1993 12 18.51817	01 45 51.71	+00 55 03.2	385
1989 VV	1993 12 09.53137	04 56 26.75	+22 08 29.6		1993 VK <sub>2</sub>	1993 12 05.59321	04 27 47.63	+16 28 55.9	385
1989 VV	1993 12 09.53438	04 56 26.56	+22 08 29.5		1993 VK <sub>2</sub>	1993 12 05.59630	04 27 47.43	+16 28 56.6	385
1989 VV	1993 12 09.53727	04 56 26.38	+22 08 29.1		1993 VK <sub>2</sub>	1993 12 05.59944	04 27 47.20	+16 28 57.3	385
1989 VV	1993 12 12.56453	04 53 10.00	+22 06 23.6	17 V	1993 VK <sub>2</sub>	1993 12 12.54398	04 20 18.14	+16 58 05.1	16 V 385
1989 VV	1993 12 12.56887	04 53 09.65	+22 06 23.4		1993 VK <sub>2</sub>	1993 12 12.54981	04 20 17.77	+16 58 06.6	385
1989 VV	1993 12 12.57328	04 53 09.38	+22 06 23.4		1993 VK <sub>2</sub>	1993 12 12.55406	04 20 17.49	+16 58 07.5	385
					1993 VK <sub>2</sub>	1994 01 07.48213	04 01 16.27	+18 57 47.6	16.8 V 385

1993 VK <sub>2</sub>	1994 01 07.49110	04 01 16.06	+18 57 50.5	385	1993 YR	1994 01 06.52512	05 28 49.37	+03 45 45.8	385
1993 VK <sub>2</sub>	1994 01 07.49567	04 01 15.96	+18 57 51.9	385	1993 YR	1994 01 14.55392	05 26 02.86	+03 59 57.2	17 V 385
1993 VM <sub>2</sub>	1993 12 05.53352	03 41 09.50	+21 37 48.2	385	1993 YR	1994 01 14.56278	05 26 02.74	+03 59 58.6	385
1993 VM <sub>2</sub>	1993 12 05.53917	03 41 09.16	+21 37 47.5	385	1993 YR	1994 01 14.56711	05 26 02.68	+03 59 59.8	385
1993 VM <sub>2</sub>	1993 12 12.52997	03 34 58.54	+21 18 32.3	17 V 385	1994 AO	1994 01 06.48617	05 26 39.24	+02 26 01.0	15.5 V 385
1993 VM <sub>2</sub>	1993 12 12.53428	03 34 58.32	+21 18 31.5	385	1994 AO	1994 01 06.49323	05 26 39.02	+02 26 01.2	385
1993 VM <sub>2</sub>	1993 12 12.53854	03 34 58.04	+21 18 30.2	385	1994 AO	1994 01 06.49641	05 26 38.89	+02 26 01.2	385
1993 VM <sub>2</sub>	1993 12 18.53889	03 30 39.52	+21 03 46.5	17 V 385	1994 AO	1994 01 06.50000	05 26 38.77	+02 26 01.3	385
1993 VM <sub>2</sub>	1993 12 18.54317	03 30 39.31	+21 03 45.3	385	1994 AO	1994 01 07.51598	05 26 05.04	+02 26 36.9	16 V 385
1993 VM <sub>2</sub>	1993 12 18.54753	03 30 39.22	+21 03 44.7	385	1994 AO	1994 01 07.51899	05 26 04.97	+02 26 36.8	385
1993 WD	1993 11 28.54062	00 03 29.61	+32 56 27.0	14.4 V 385	1994 AO	1994 01 07.52187	05 26 04.89	+02 26 37.0	385
1993 WD	1993 11 28.54184	00 03 28.41	+32 56 31.0	385	1994 AO	1994 01 09.57611	05 24 59.52	+02 28 16.0	15.8 V 385
1993 WD	1993 11 28.54323	00 03 27.02	+32 56 35.4	385	1994 AO	1994 01 09.57951	05 24 59.43	+02 28 16.4	385
1993 WD	1993 11 28.54444	00 03 25.80	+32 56 39.4	385	1994 AO	1994 01 09.58472	05 24 59.26	+02 28 16.5	385
1993 WD	1993 12 18.43900	21 39 51.44	+36 09 21.1	17 V 385	1994 AO	1994 01 14.53882	05 22 38.92	+02 34 41.6	15.8 V 385
1993 WD	1993 12 18.45463	21 39 48.81	+36 09 19.3	385	1994 AO	1994 01 14.54576	05 22 38.72	+02 34 42.0	385
1993 WE	1993 12 05.54340	03 42 35.11	+21 31 47.1	385	1994 AO	1994 01 14.54868	05 22 38.64	+02 34 42.3	385
1993 WE	1993 12 05.54654	03 42 34.95	+21 31 46.5	385	1994 AK <sub>1</sub>	1994 01 11.63808	06 59 56.83	+30 38 04.9	15.8 V 385
1993 WE	1993 12 05.55402	03 42 34.51	+21 31 44.8	385	1994 AK <sub>1</sub>	1994 01 11.64383	06 59 56.07	+30 37 56.5	385
1993 WE	1993 12 11.56858	03 37 33.64	+21 11 13.8	17 V 385	1994 AK <sub>1</sub>	1994 01 11.64713	06 59 55.66	+30 37 51.6	385
1993 WE	1993 12 11.57311	03 37 33.43	+21 11 12.5	385	1994 AK <sub>1</sub>	1994 01 14.58565	06 53 54.66	+29 24 34.6	15 V 385
1993 WE	1993 12 11.57822	03 37 33.16	+21 11 10.3	385	1994 AK <sub>1</sub>	1994 01 14.58854	06 53 54.31	+29 24 30.5	385
1993 WE	1993 12 18.55369	03 32 39.38	+20 49 11.7	16.5 V 385	1994 AL <sub>1</sub>	1994 01 11.66516	07 04 46.53	+32 04 14.3	15.5 V 385
1993 WE	1993 12 18.55818	03 32 39.23	+20 49 11.0	385	1994 AL <sub>1</sub>	1994 01 11.66816	07 04 46.19	+32 04 20.9	385
1993 WE	1993 12 18.56264	03 32 39.09	+20 49 09.9	385	1994 AL <sub>1</sub>	1994 01 11.67110	07 04 45.86	+32 04 27.4	385
1993 XS	* 1993 12 09.53137	04 56 32.95	+22 06 34.7	385	1994 AL <sub>1</sub>	1994 01 14.59696	06 59 39.22	+33 51 12.1	16.5 V 385
1993 XS	1993 12 09.53438	04 56 32.78	+22 06 35.0	385	1994 AL <sub>1</sub>	1994 01 14.60000	06 59 38.86	+33 51 18.4	385
1993 XS	1993 12 09.53727	04 56 32.61	+22 06 35.2	385	1994 AL <sub>1</sub>	1994 01 14.60347	06 59 38.45	+33 51 26.6	385
1993 XS	1993 12 12.56453	04 53 45.96	+22 05 44.0	17 V 385	1994 AT <sub>1</sub>	1994 01 11.69941	09 41 14.96	+34 54 41.7	16 V 385
1993 XS	1993 12 12.56887	04 53 45.71	+22 05 44.0	385	1994 AT <sub>1</sub>	1994 01 11.70234	09 41 14.84	+34 54 43.0	385
1993 XS	1993 12 12.57328	04 53 45.46	+22 05 44.2	385	1994 AT <sub>1</sub>	1994 01 11.70535	09 41 14.64	+34 54 44.7	385
1993 XS	1993 12 18.56939	04 48 26.10	+22 03 56.0	17 V 385	1994 AT <sub>1</sub>	1994 01 14.61870	09 38 52.26	+35 19 34.3	16 V 385
1993 XS	1993 12 18.57385	04 48 25.89	+22 03 55.8	385	1994 AT <sub>1</sub>	1994 01 14.62168	09 38 52.06	+35 19 35.8	385
1993 XS	1993 12 18.57846	04 48 25.64	+22 03 56.6	385	1994 AT <sub>1</sub>	1994 01 14.62777	09 38 51.77	+35 19 38.4	385
1993 XS	1993 12 21.54659	04 45 56.81	+22 03 06.1	17 V 385	1994 AU <sub>1</sub>	1994 01 11.67744	08 35 31.28	+19 38 36.6	15.5 V 385
1993 XS	1993 12 21.55561	04 45 56.39	+22 03 05.6	385	1994 AU <sub>1</sub>	1994 01 11.68105	08 35 31.04	+19 38 37.0	385
1993 XS	1994 01 01.45051	04 38 14.00	+22 01 17.6	17 V 385	1994 AU <sub>1</sub>	1994 01 11.68392	08 35 30.84	+19 38 37.3	385
1993 XS	1994 01 01.45847	04 38 13.71	+22 01 17.7	385	1994 AV <sub>1</sub>	1994 01 11.68837	08 41 13.82	+18 46 51.5	16 V 385
1993 XS	1994 01 01.46208	04 38 13.63	+22 01 18.5	385	1994 AV <sub>1</sub>	1994 01 11.69125	08 41 13.67	+18 46 51.3	385
1993 XS	1994 01 01.46843	04 38 13.39	+22 01 18.5	385	1994 AV <sub>1</sub>	1994 01 11.69414	08 41 13.47	+18 46 50.8	385
1993 XZ	1993 12 21.57228	05 01 03.76	+23 35 32.1	17 V 385	1994 AV <sub>1</sub>	1994 01 14.60810	08 38 26.42	+18 44 01.6	16 V 385
1993 XZ	1993 12 21.57679	05 01 03.58	+23 35 31.9	385	1994 AV <sub>1</sub>	1994 01 14.61111	08 38 26.24	+18 44 01.5	385
1993 XZ	1993 12 21.59727	05 01 02.29	+23 35 34.5	385	1994 AV <sub>1</sub>	1994 01 14.61400	08 38 26.05	+18 44 01.2	385
1993 XN <sub>2</sub>	1994 01 08.59919	05 11 06.84	+65 03 02.9	17 V 385	1994 AW <sub>1</sub>	1994 01 16.56811	07 07 40.96	+10 44 40.5	14.5 V 385
1993 XN <sub>2</sub>	1994 01 08.60833	05 11 06.18	+65 02 59.3	385	1994 AW <sub>1</sub>	1994 01 16.56927	07 07 40.62	+10 44 34.0	385
1993 XN <sub>2</sub>	1994 01 08.61471	05 11 05.62	+65 02 55.8	385	1994 AW <sub>1</sub>	1994 01 16.58181	07 07 36.84	+10 43 21.6	385
1993 YR	1993 12 23.56928	05 37 56.70	+04 07 14.3	16.5 V 385	1994 AW <sub>1</sub>	1994 01 16.58316	07 07 36.43	+10 43 13.9	385
1993 YR	1993 12 23.57559	05 37 56.40	+04 07 13.3	385					
1993 YR	1993 12 23.57848	05 37 56.23	+04 07 12.7	385					
1993 YR	1994 01 06.51134	05 28 49.83	+03 45 45.1	17 V 385					
1993 YR	1994 01 06.51528	05 28 49.62	+03 45 45.1	385					
1993 YR	1994 01 06.51946	05 28 49.51	+03 45 45.2	385					

**391 Sendai Observatory, Ayashi Station**

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

0.30-m  $f/3.8$  astrocamera

GSC



1987 SZ <sub>6</sub>	1993 11 09.54201	02 47 46.20	+27 20 38.1	15.0	391	1993 VB <sub>2</sub>	1993 11 22.69583	02 53 01.11	+17 30 59.0		399
1987 SZ <sub>6</sub>	1993 11 15.51007	02 42 48.22	+26 43 06.6		391	1993 VD <sub>2</sub>	1993 11 22.64236	03 00 26.32	+13 40 50.8	17.2	399
1987 SZ <sub>6</sub>	1993 11 15.52743	02 42 47.35	+26 42 59.8		391	1993 VD <sub>2</sub>	1993 11 22.65694	03 00 25.64	+13 40 47.8		399
1987 SZ <sub>6</sub>	1993 11 18.53194	02 40 25.64	+26 23 03.2		391	1993 VE <sub>2</sub>	1993 11 22.64236	03 01 49.57	+14 19 19.8	17.2	399
1987 SZ <sub>6</sub>	1993 11 18.63090	02 40 20.98	+26 22 23.3		391	1993 VE <sub>2</sub>	1993 11 22.65694	03 01 48.79	+14 19 10.1		399
1987 SZ <sub>6</sub>	1993 11 18.64826	02 40 20.02	+26 22 19.0		391	1993 VF <sub>2</sub>	1993 11 22.64236	03 02 28.09	+14 15 55.0	17	399
1987 SZ <sub>6</sub>	1993 11 22.58993	02 37 26.46	+25 55 28.5	15.0	391	1993 VF <sub>2</sub>	1993 11 22.65694	03 02 27.19	+14 15 52.3		399
1987 SZ <sub>6</sub>	1993 11 22.60729	02 37 25.82	+25 55 23.4		391	1993 VX <sub>2</sub>	1993 11 22.71389	03 12 11.44	+17 52 07.5	17.3	399
						1993 VX <sub>2</sub>	1993 11 22.73056	03 12 10.40	+17 52 09.0		399
						1993 VA <sub>3</sub>	1993 11 22.71389	03 15 59.97	+18 12 06.5	17.2	399
						1993 VA <sub>3</sub>	1993 11 22.73056	03 15 59.01	+18 12 05.3		399
						1993 VF <sub>3</sub>	1993 11 22.71389	03 15 14.97	+20 42 33.9	17.3	399
						1993 VF <sub>3</sub>	1993 11 22.73056	03 15 14.30	+20 42 27.4		399
						1993 VP <sub>3</sub>	1993 12 06.42708	03 29 40.98	+25 49 11.9	17.2	399
						1993 VP <sub>3</sub>	1993 12 06.44167	03 29 40.37	+25 49 07.5		399
						1993 VR <sub>3</sub>	1993 12 06.42708	03 34 04.22	+25 20 17.9	16.5	399
						1993 VR <sub>3</sub>	1993 12 06.44167	03 34 03.59	+25 20 15.0		399
						1993 VD <sub>4</sub>	1993 11 22.64236	02 52 45.27	+16 54 55.4	17.2	399
						1993 VD <sub>4</sub>	1993 11 22.65694	02 52 44.36	+16 54 56.8		399
						1993 VE <sub>4</sub>	1993 11 22.64236	02 55 41.15	+14 58 47.9	16.8	399
						1993 VE <sub>4</sub>	1993 11 22.65694	02 55 40.26	+14 58 47.3		399
						1993 VG <sub>4</sub>	1993 11 22.71389	03 09 10.23	+20 43 43.9	17.2	399
						1993 VG <sub>4</sub>	1993 11 22.73056	03 09 09.31	+20 43 36.2		399
						1993 VJ <sub>4</sub>	1993 11 22.71389	03 13 54.73	+21 11 08.4	17.3	399
						1993 VJ <sub>4</sub>	1993 11 22.73056	03 13 53.77	+21 11 06.5		399
						1993 XR <sub>1</sub>	* 1993 12 06.52917	05 46 39.82	+13 46 20.1	16.2	399
						1993 XR <sub>1</sub>	1993 12 06.54375	05 46 38.83	+13 46 20.4		399
						1993 XR <sub>1</sub>	1993 12 15.62014	05 37 01.91	+13 49 24.5	16	399
						1993 XR <sub>1</sub>	1993 12 15.63472	05 37 01.06	+13 49 24.4		399
						1993 XR <sub>1</sub>	1994 01 03.47222	05 18 45.37	+14 27 31.9	16.5	399
						1993 XR <sub>1</sub>	1994 01 03.48681	05 18 44.62	+14 27 34.2		399
						1993 XR <sub>1</sub>	1994 01 05.45139	05 17 17.22	+14 33 44.0	16.5	399
						1993 XR <sub>1</sub>	1994 01 05.46597	05 17 16.42	+14 33 48.1		399
						1993 XS <sub>1</sub>	* 1993 12 06.52917	05 47 26.28	+13 14 37.4	15.7	399
						1993 XS <sub>1</sub>	1993 12 06.54375	05 47 25.55	+13 14 39.5		399
						1993 XS <sub>1</sub>	1993 12 06.55938	05 47 24.61	+13 14 40.1		399
						1993 XS <sub>1</sub>	1993 12 15.62014	05 38 15.68	+13 25 43.9	15.7	399
						1993 XS <sub>1</sub>	1993 12 15.63472	05 38 14.74	+13 25 44.2		399
						1993 XS <sub>1</sub>	1994 01 03.47222	05 20 31.01	+14 18 28.5	16	399
						1993 XS <sub>1</sub>	1994 01 03.48681	05 20 30.20	+14 18 32.1		399
						1993 XS <sub>1</sub>	1994 01 05.45139	05 19 02.69	+14 26 00.7	16	399
						1993 XS <sub>1</sub>	1994 01 05.46597	05 19 01.94	+14 26 03.6		399
						1994 AR	1994 01 05.55764	07 32 25.40	+20 16 13.6	15.7	399
						1994 AR	1994 01 05.57234	07 32 24.38	+20 16 14.7		399
						1994 AR	1994 01 12.50417	07 25 10.29	+20 26 49.2	15.5	399
						1994 AR	1994 01 12.51881	07 25 09.30	+20 26 50.8		399
						1994 AZ	* 1994 01 03.50424	05 17 08.77	+24 12 56.0	17	399
						1994 AZ	1994 01 03.51875	05 17 08.07	+24 12 57.0		399
						1994 AZ	1994 01 05.48484	05 15 43.84	+24 11 22.1	17	399
						1994 AZ	1994 01 05.49933	05 15 43.19	+24 11 22.1		399
						1994 AY <sub>1</sub>	1994 01 12.60498	08 20 19.22	+17 46 12.3	16.5	399
						1994 AY <sub>1</sub>	1994 01 12.61944	08 20 18.37	+17 46 15.3		399
1988 WK	1988 11 14.65000	03 36 16.51	+20 13 04.8	17	399						
1988 WK	1988 11 14.68229	03 36 14.30	+20 13 02.9		399						
1988 WK	1988 12 02.44745	03 20 33.84	+19 31 51.4	17	399						
1988 WK	1988 12 02.46216	03 20 33.15	+19 31 46.9		399						
1989 WJ <sub>1</sub>	1993 12 15.68819	06 23 56.67	+14 57 03.9	16.8	399						
1989 WJ <sub>1</sub>	1993 12 15.70347	06 23 55.63	+14 56 59.9		399						
1989 YB	1993 12 06.42708	03 29 16.30	+26 00 33.1	15.3	399						
1989 YB	1993 12 06.44167	03 29 15.72	+26 00 24.9		399						
1992 UP	1993 12 15.65356	05 41 45.71	+24 18 37.9	16.8	399						
1992 UP	1993 12 15.66944	05 41 44.90	+24 18 36.2		399						
1993 TP <sub>9</sub>	1993 10 20.60509	01 59 45.69	+17 50 15.4	17	399						
1993 TP <sub>9</sub>	1993 10 20.61968	01 59 44.64	+17 50 13.9		399						
1993 VG	1993 12 06.46042	03 28 39.10	+20 11 59.6	17.2	399						
1993 VG	1993 12 06.47500	03 28 38.41	+20 11 57.5		399						
1993 VK	1993 12 06.49583	03 42 36.98	+32 51 59.9	16.5	399						
1993 VK	1993 12 06.51042	03 42 36.14	+32 51 56.4		399						
1993 VK	1993 12 15.56944	03 35 38.82	+32 13 30.7	16.8	399						
1993 VK	1993 12 15.58403	03 35 38.18	+32 13 26.9		399						
1993 VR <sub>1</sub>	1993 11 22.67778	02 50 27.89	+19 34 03.8	17	399						
1993 VR <sub>1</sub>	1993 11 22.69583	02 50 26.89	+19 34 02.3		399						
1993 VS <sub>1</sub>	1993 11 22.67778	02 52 53.89	+20 17 33.7	17	399						
1993 VS <sub>1</sub>	1993 11 22.69583	02 52 53.04	+20 17 27.3		399						
1993 VT <sub>1</sub>	1993 11 22.67778	02 55 24.27	+20 32 43.5	17	399						
1993 VT <sub>1</sub>	1993 11 22.69583	02 55 23.22	+20 32 43.5		399						
1993 VU <sub>1</sub>	1993 11 22.67778	02 58 39.47	+20 09 44.9	17	399						
1993 VU <sub>1</sub>	1993 11 22.69583	02 58 38.60	+20 09 37.0		399						
1993 VV <sub>1</sub>	1993 11 22.67778	02 56 43.21	+20 19 45.1	17.2	399						
1993 VV <sub>1</sub>	1993 11 22.69583	02 56 42.36	+20 19 43.5		399						
1993 VW <sub>1</sub>	1993 11 22.67778	02 58 48.88	+20 09 54.6	17.2	399						
1993 VW <sub>1</sub>	1993 11 22.69583	02 58 48.02	+20 09 46.4		399						
1993 VX <sub>1</sub>	1993 11 22.67778	02 58 54.48	+21 03 14.3	17	399						
1993 VX <sub>1</sub>	1993 11 22.69583	02 58 53.72	+21 03 11.1		399						
1993 VY <sub>1</sub>	1993 11 22.67778	03 01 28.87	+20 46 42.5	17.2	399						
1993 VY <sub>1</sub>	1993 11 22.69583	03 01 27.74	+20 46 39.7		399						
1993 VA <sub>2</sub>	1993 11 22.71389	03 05 12.76	+20 56 44.9	17.2	399						
1993 VA <sub>2</sub>	1993 11 22.73056	03 05 11.72	+20 56 45.2		399						
1993 VB <sub>2</sub>	1993 11 22.67778	02 53 02.02	+17 31 04.0	17.2	399						

**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

0.16-m  $f/3.8$  Wright-Schmidt camera, 0.25-m  $f/3.4$  hyperboloid astrocamera

GSC

1994 AY <sub>1</sub>	1994 01 15.52431	08 17 35.07	+17 56 53.0	16.5	399	1994 AP <sub>2</sub>	* 1994 01 10.65833	09 47 31.21	-00 01 38.2	16.0	400
1994 AY <sub>1</sub>	1994 01 15.53895	08 17 34.23	+17 56 57.0		399	1994 AP <sub>2</sub>	1994 01 10.67569	09 47 30.99	-00 01 25.5		400
1994 AK <sub>2</sub>	* 1994 01 05.62294	08 16 08.83	+23 27 27.7	17	399	1994 AP <sub>2</sub>	1994 01 13.62986	09 46 25.52	+00 37 38.2	16.0	400
1994 AK <sub>2</sub>	1994 01 05.63750	08 16 07.97	+23 27 29.0		399	1994 AP <sub>2</sub>	1994 01 13.64583	09 46 24.99	+00 37 51.8		400
1994 AK <sub>2</sub>	1994 01 12.57156	08 09 43.36	+23 42 26.9	17	399	1994 AV <sub>2</sub>	* 1994 01 05.54028	08 03 52.59	+24 45 32.9	16.8	400
1994 AK <sub>2</sub>	1994 01 12.58611	08 09 42.36	+23 42 31.6		399	1994 AV <sub>2</sub>	1994 01 05.55625	08 03 51.56	+24 45 31.3		400
1994 AL <sub>2</sub>	* 1994 01 05.62294	08 20 36.74	+24 01 28.0	16.5	399	1994 AV <sub>2</sub>	1994 01 10.51667	07 58 23.88	+24 34 25.3	16.8	400
1994 AL <sub>2</sub>	1994 01 05.63750	08 20 35.93	+24 01 37.3		399	1994 AV <sub>2</sub>	1994 01 10.53333	07 58 22.74	+24 34 24.9		400
1994 AL <sub>2</sub>	1994 01 12.57156	08 14 05.20	+25 11 14.9	16.8	399	1994 AW <sub>2</sub>	* 1994 01 10.65833	09 37 42.56	+00 56 02.1	16.5	400
1994 AL <sub>2</sub>	1994 01 12.58611	08 14 04.35	+25 11 23.8		399	1994 AW <sub>2</sub>	1994 01 10.67569	09 37 42.07	+00 56 01.4		400
1994 AX <sub>2</sub>	* 1994 01 12.60498	08 08 53.76	+19 39 43.6	17	399	1994 AW <sub>2</sub>	1994 01 13.62986	09 36 07.42	+00 52 52.0	16.5	400
1994 AX <sub>2</sub>	1994 01 12.61944	08 08 52.81	+19 39 44.1		399	1994 AW <sub>2</sub>	1994 01 13.64583	09 36 07.03	+00 52 52.2		400
1994 AX <sub>2</sub>	1994 01 15.52431	08 06 06.12	+19 37 37.6	17	399	1994 AF <sub>3</sub>	* 1994 01 13.59444	08 56 34.63	+10 27 44.6	16.5	400
1994 AX <sub>2</sub>	1994 01 15.53895	08 06 05.35	+19 37 36.8		399	1994 AF <sub>3</sub>	1994 01 13.61111	08 56 33.99	+10 27 39.2		400
1994 AY <sub>2</sub>	* 1994 01 12.60498	08 12 58.93	+19 17 21.6	16.8	399	1994 AF <sub>3</sub>	1994 01 15.53194	08 54 54.93	+10 24 08.7	16.5	400
1994 AY <sub>2</sub>	1994 01 12.61944	08 12 58.13	+19 17 23.4		399	1994 AF <sub>3</sub>	1994 01 15.55243	08 54 53.89	+10 24 05.4		400
1994 AY <sub>2</sub>	1994 01 15.52431	08 10 03.66	+19 17 25.9	16.7	399	1994 AG <sub>3</sub>	* 1994 01 13.59444	09 01 26.06	+10 31 53.7	16.0	400
1994 AY <sub>2</sub>	1994 01 15.53895	08 10 02.89	+19 17 26.6		399	1994 AG <sub>3</sub>	1994 01 13.61111	09 01 25.10	+10 31 54.2		400
						1994 AG <sub>3</sub>	1994 01 15.53194	08 59 37.31	+10 30 54.6	16.0	400
						1994 AG <sub>3</sub>	1994 01 15.55243	08 59 36.08	+10 30 55.8		400
						1994 AH <sub>3</sub>	* 1994 01 13.59444	09 07 41.00	+11 34 13.4	16.5	400
						1994 AH <sub>3</sub>	1994 01 13.61111	09 07 40.11	+11 34 13.6		400
						1994 AH <sub>3</sub>	1994 01 15.53194	09 06 02.90	+11 35 58.7	16.5	400
						1994 AH <sub>3</sub>	1994 01 15.55243	09 06 01.69	+11 36 00.0		400

**400 Kitami**

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

Observer K. Endate

Measurer K. Watanabe

0.25-m *f*/2.6 Schmidt camera

GSC

1989 WS	1993 10 08.61875	00 53 15.52	+17 28 08.6	16.5	400
1989 WS	1993 10 08.63264	00 53 14.76	+17 27 58.2		400
1993 RZ <sub>6</sub>	1993 09 19.57361	00 30 06.01	+04 39 09.4	17	400
1993 RZ <sub>6</sub>	1993 09 19.58819	00 30 05.08	+04 39 05.6		400
1993 TG <sub>3</sub>	1993 10 19.50069	01 40 27.48	+14 54 24.1	16.8	400
1993 TG <sub>3</sub>	1993 10 19.51528	01 40 26.19	+14 54 17.7		400
1993 TJ <sub>3</sub>	1993 11 10.46111	01 47 26.04	+12 05 47.6	16.0	400
1993 TJ <sub>3</sub>	1993 11 10.47639	01 47 25.22	+12 05 46.2		400
1993 TS <sub>11</sub>	1993 10 11.65556	01 48 12.26	+14 46 28.1	16.5	400
1993 TS <sub>11</sub>	1993 10 11.66944	01 48 11.47	+14 46 26.3		400
1993 TS <sub>11</sub>	1993 10 12.57639	01 47 15.39	+14 45 50.0	16.5	400
1993 TS <sub>11</sub>	1993 10 12.59028	01 47 14.35	+14 45 46.9		400
1993 TL <sub>12</sub>	1993 10 11.65556	01 43 17.66	+15 34 49.8	16.8	400
1993 TL <sub>12</sub>	1993 10 11.66944	01 43 17.10	+15 34 42.5		400
1993 TL <sub>12</sub>	1993 10 12.57639	01 42 47.27	+15 26 29.5	16.8	400
1993 TL <sub>12</sub>	1993 10 12.59028	01 42 46.86	+15 26 23.2		400
1993 TL <sub>12</sub>	1993 10 19.50069	01 38 42.44	+14 19 24.3	16.8	400
1993 TL <sub>12</sub>	1993 10 19.51528	01 38 41.82	+14 19 16.6		400
1994 AK <sub>1</sub>	1994 01 13.50000	06 56 06.35	+29 51 51.5	16	400
1994 AX <sub>1</sub>	* 1994 01 05.60764	08 39 30.29	+20 58 30.0	16.8	400
1994 AX <sub>1</sub>	1994 01 05.62500	08 39 29.51	+20 58 32.5		400
1994 AX <sub>1</sub>	1994 01 10.58681	08 35 58.15	+21 21 49.5	16.5	400
1994 AX <sub>1</sub>	1994 01 10.60278	08 35 57.35	+21 21 54.5		400
1994 AX <sub>1</sub>	1994 01 15.49583	08 32 10.43	+21 45 15.7	16.5	400
1994 AX <sub>1</sub>	1994 01 15.51250	08 32 09.46	+21 45 20.6		400
1994 AM <sub>2</sub>	1994 01 13.59444	08 58 00.93	+14 22 42.0	16.5	400
1994 AM <sub>2</sub>	1994 01 13.61111	08 57 59.68	+14 22 34.4		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

GSC

1994 AN <sub>1</sub>	* 1994 01 08.55975	08 11 22.27	+14 53 55.4	17.0	402
1994 AN <sub>1</sub>	1994 01 08.57364	08 11 21.47	+14 54 00.5		402
1994 AN <sub>1</sub>	1994 01 09.56597	08 10 23.86	+15 00 23.6		402
1994 AN <sub>1</sub>	1994 01 09.57917	08 10 23.02	+15 00 29.2		402
1994 AO <sub>1</sub>	* 1994 01 08.63750	08 31 17.18	+14 50 53.6	17.0	402
1994 AO <sub>1</sub>	1994 01 08.65556	08 31 16.07	+14 50 47.6		402
1994 AO <sub>1</sub>	1994 01 09.63542	08 30 16.58	+14 47 03.6		402
1994 AO <sub>1</sub>	1994 01 09.65000	08 30 15.58	+14 46 59.6		402
1994 AP <sub>1</sub>	* 1994 01 08.66528	08 55 36.58	+27 06 59.1	17.0	402
1994 AP <sub>1</sub>	1994 01 08.67986	08 55 35.78	+27 06 54.1		402
1994 AP <sub>1</sub>	1994 01 09.65972	08 54 37.13	+27 03 25.3		402
1994 AP <sub>1</sub>	1994 01 09.67292	08 54 36.38	+27 03 22.6		402
1994 AR <sub>1</sub>	* 1994 01 08.58336	08 17 41.48	+10 28 36.1	17.0	402
1994 AR <sub>1</sub>	1994 01 08.59653	08 17 40.60	+10 28 33.4		402
1994 AR <sub>1</sub>	1994 01 09.58958	08 16 40.07	+10 23 56.1		402
1994 AR <sub>1</sub>	1994 01 09.60208	08 16 39.08	+10 23 52.6		402
1994 AS <sub>1</sub>	* 1994 01 08.61319	08 48 19.21	+10 57 43.9	16.5	402
1994 AS <sub>1</sub>	1994 01 08.62789	08 48 17.94	+10 57 35.7		402
1994 AS <sub>1</sub>	1994 01 09.61181	08 47 00.10	+10 49 38.1		402
1994 AS <sub>1</sub>	1994 01 09.62569	08 46 59.03	+10 49 33.0		402
1994 AA <sub>2</sub>	* 1994 01 08.68958	09 25 56.21	+24 27 17.8	17.5	402
1994 AA <sub>2</sub>	1994 01 08.70694	09 25 55.43	+24 27 19.7		402

1994 AA<sub>2</sub> 1994 01 09.68194 09 25 15.01 +24 30 35.5 402  
 1994 AA<sub>2</sub> 1994 01 09.69653 09 25 14.57 +24 30 40.7 402

**403 Kani**

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

Observer Y. Mizuno

Measurer T. Furuta

0.20-m  $f/4.0$  hyperboloid astrocamera

GSC

1993 SP<sub>3</sub> 1993 10 19.52974 01 30 38.01 +05 44 04.5 16.5 403  
 1993 SP<sub>3</sub> 1993 10 19.54080 01 30 37.38 +05 43 57.9 403

**408 Nyukasa**

K. Watanabe, 3-8 B-203, Atsubetsu Chuo 3 Jo 4 Chome, Atsubetsu-Ku, Sapporo  
 004, Japan

Observers M. Hirasawa, S. Suzuki

Measurer K. Watanabe

0.30-m  $f/2.7$  Schmidt camera

GSC

1934 GA 1993 11 22.76667 05 19 57.32 +26 09 07.4 16.0 408  
 1934 GA 1993 11 22.78194 05 19 56.28 +26 09 18.3 408  
 1987 QS<sub>7</sub> 1993 12 05.56875 04 34 47.29 +18 55 38.7 17.0 408  
 1987 QS<sub>7</sub> 1993 12 05.58125 04 34 46.78 +18 55 34.6 408  
 1993 UC<sub>3</sub> 1993 11 22.73750 02 57 12.56 +19 12 22.1 16.5 408  
 1993 UC<sub>3</sub> 1993 11 22.75278 02 57 11.69 +19 12 18.6 408  
 1993 UD<sub>3</sub> 1993 11 22.73750 02 49 22.36 +20 21 24.2 16.5 408  
 1993 UD<sub>3</sub> 1993 11 22.75278 02 49 21.59 +20 21 16.9 408  
 1993 VV<sub>3</sub> 1993 11 22.73750 02 46 49.09 +19 25 55.7 17 408  
 1993 VV<sub>3</sub> 1993 11 22.74514 02 46 48.71 +19 25 57.5 408  
 1993 VV<sub>3</sub> 1993 11 22.75278 02 46 48.27 +19 25 56.5 408  
 1993 VW<sub>3</sub> 1993 11 22.73750 02 59 25.56 +22 19 50.9 16.8 408  
 1993 VW<sub>3</sub> 1993 11 22.75278 02 59 24.92 +22 19 48.4 408  
 1993 VX<sub>3</sub> 1993 12 09.50347 04 03 59.82 +19 09 16.2 17.0 408  
 1993 VX<sub>3</sub> 1993 12 09.51111 04 03 59.44 +19 09 13.6 408  
 1993 VX<sub>3</sub> 1993 12 09.52431 04 03 58.65 +19 09 11.2 408  
 1993 VX<sub>3</sub> 1993 12 18.59097 03 56 28.97 +18 21 08.5 16.5 408  
 1993 VX<sub>3</sub> 1993 12 18.60625 03 56 28.28 +18 21 03.5 408  
 1993 VY<sub>3</sub> 1993 12 09.47847 04 14 47.91 +21 41 24.0 16.5 408  
 1993 VY<sub>3</sub> 1993 12 09.49236 04 14 47.14 +21 41 23.6 408  
 1993 VS<sub>4</sub> 1993 12 09.50347 04 11 05.56 +19 31 30.3 16.5 408  
 1993 VS<sub>4</sub> 1993 12 09.51111 04 11 05.11 +19 31 32.0 408  
 1993 VS<sub>4</sub> 1993 12 09.52431 04 11 04.25 +19 31 36.3 408  
 1993 VS<sub>4</sub> 1993 12 18.59097 04 02 20.20 +20 05 05.2 16.5 408  
 1993 VS<sub>4</sub> 1993 12 18.60625 04 02 19.45 +20 05 07.6 408  
 1993 VV<sub>4</sub> 1993 12 05.56875 04 29 30.68 +18 14 35.6 16.8 408  
 1993 VV<sub>4</sub> 1993 12 05.58125 04 29 29.85 +18 14 35.7 408  
 1993 VZ<sub>4</sub> 1993 12 09.47083 04 05 05.07 +22 58 48.0 17.0 408  
 1993 VZ<sub>4</sub> 1993 12 09.49236 04 05 03.85 +22 58 44.8 408  
 1993 VZ<sub>4</sub> 1993 12 18.55694 03 57 43.50 +22 41 27.6 17.0 408  
 1993 VZ<sub>4</sub> 1993 12 18.57222 03 57 42.91 +22 41 26.1 408  
 1993 WP \* 1993 11 22.70007 04 53 31.16 +28 03 31.7 16.5 408  
 1993 WP 1993 11 22.71667 04 53 30.25 +28 03 32.5 408  
 1993 WP 1993 12 04.66875 04 41 23.94 +27 56 56.7 17 408

1993 WP 1993 12 04.68472 04 41 23.05 +27 56 57.5 408  
 1993 WP 1993 12 04.69722 04 41 22.19 +27 56 54.2 408  
 1993 WP 1993 12 05.53264 04 40 30.70 +27 55 56.1 16.5 408  
 1993 WP 1993 12 05.55278 04 40 29.37 +27 55 53.9 408  
 1993 WQ \* 1993 11 22.70007 04 56 47.40 +26 08 06.8 16.2 408  
 1993 WQ 1993 11 22.71667 04 56 46.41 +26 08 09.2 408  
 1993 WQ 1993 12 04.66875 04 44 25.15 +26 34 07.6 16.2 408  
 1993 WQ 1993 12 04.68472 04 44 24.04 +26 34 09.2 408  
 1993 WQ 1993 12 04.69722 04 44 23.23 +26 34 09.6 408  
 1993 WQ 1993 12 05.51875 04 43 31.14 +26 35 24.9 15.8 408  
 1993 WQ 1993 12 05.53264 04 43 30.15 +26 35 26.7 408  
 1993 WQ 1993 12 05.55278 04 43 28.84 +26 35 28.7 408  
 1993 XE \* 1993 12 04.68472 04 49 56.35 +28 13 41.3 16.0 408  
 1993 XE 1993 12 04.69722 04 49 55.57 +28 13 45.0 408  
 1993 XE 1993 12 05.51875 04 49 04.56 +28 15 40.7 16.0 408  
 1993 XE 1993 12 05.53264 04 49 03.82 +28 15 42.7 408  
 1993 XE 1993 12 09.58125 04 44 51.21 +28 24 19.1 16.0 408  
 1993 XE 1993 12 09.59375 04 44 50.45 +28 24 19.7 408  
 1993 XE 1993 12 11.66042 04 42 42.95 +28 28 09.0 16.0 408  
 1993 XE 1993 12 11.67431 04 42 42.19 +28 28 08.8 408  
 1993 XE 1993 12 18.68507 04 35 49.21 +28 38 35.2 16.0 408  
 1993 XE 1993 12 18.69965 04 35 48.28 +28 38 36.1 408  
 1993 XF \* 1993 12 04.73681 04 38 50.83 +18 23 42.8 16.5 408  
 1993 XF 1993 12 05.59028 04 38 01.57 +18 23 02.0 408  
 1993 XF 1993 12 09.54236 04 34 14.28 +18 20 06.1 16.8 408  
 1993 XF 1993 12 09.55556 04 34 13.53 +18 20 05.7 408  
 1993 XF 1993 12 11.68958 04 32 13.69 +18 18 42.4 16.5 408  
 1993 XF 1993 12 11.70347 04 32 12.81 +18 18 42.1 408  
 1993 XC<sub>1</sub> \* 1993 12 05.56875 04 32 45.08 +18 28 32.8 17.0 408  
 1993 XC<sub>1</sub> 1993 12 05.59028 04 32 43.95 +18 28 29.7 408  
 1993 XC<sub>1</sub> 1993 12 09.54236 04 29 07.03 +18 24 11.8 17.0 408  
 1993 XC<sub>1</sub> 1993 12 09.55556 04 29 06.34 +18 24 13.4 408  
 1993 XC<sub>1</sub> 1993 12 11.68958 04 27 12.01 +18 22 01.1 17.0 408  
 1993 XC<sub>1</sub> 1993 12 11.70347 04 27 11.21 +18 22 01.6 408  
 1993 XD<sub>1</sub> \* 1993 12 05.56875 04 40 45.34 +20 23 18.3 16.8 408  
 1993 XD<sub>1</sub> 1993 12 05.58125 04 40 44.62 +20 23 15.8 408  
 1993 XD<sub>1</sub> 1993 12 09.54236 04 37 17.11 +20 15 25.0 16.5 408  
 1993 XD<sub>1</sub> 1993 12 09.55556 04 37 16.38 +20 15 22.3 408  
 1993 XD<sub>1</sub> 1993 12 11.68958 04 35 27.41 +20 11 16.9 16.5 408  
 1993 XD<sub>1</sub> 1993 12 11.70347 04 35 26.76 +20 11 11.7 408  
 1993 XD<sub>1</sub> 1993 12 18.62882 04 29 59.33 +19 58 56.8 16.8 408  
 1993 XD<sub>1</sub> 1993 12 18.64271 04 29 58.73 +19 58 56.6 408  
 1993 XE<sub>1</sub> \* 1993 12 05.56875 04 42 35.90 +18 59 42.7 16.5 408  
 1993 XE<sub>1</sub> 1993 12 05.58125 04 42 34.70 +18 59 57.1 408  
 1993 XE<sub>1</sub> 1993 12 05.59028 04 42 33.86 +19 00 07.0 408  
 1993 XE<sub>1</sub> 1993 12 09.54236 04 36 24.55 +20 17 47.0 16.5 408  
 1993 XE<sub>1</sub> 1993 12 09.55556 04 36 23.25 +20 18 03.6 408  
 1993 XE<sub>1</sub> 1993 12 11.68958 04 33 05.24 +20 59 35.3 16.5 408  
 1993 XE<sub>1</sub> 1993 12 11.70347 04 33 03.72 +20 59 49.3 408  
 1993 XE<sub>1</sub> 1993 12 18.71215 04 22 46.85 +23 12 21.7 16.5 408  
 1993 XE<sub>1</sub> 1993 12 18.72465 04 22 45.82 +23 12 35.6 408  
 1993 XH<sub>1</sub> \* 1993 12 05.56875 04 43 37.81 +20 14 31.5 17.0 408

1993 XH <sub>1</sub>	1993 12 05.58125	04 43 37.17	+20 14 31.6		408	1989 NK <sub>1</sub>	1994 01 06.66586	07 57 01.96	+18 15 15.3		411
1993 XH <sub>1</sub>	1993 12 11.61253	04 38 49.10	+20 15 58.0	17.0	408	1992 OJ <sub>8</sub>	1993 12 17.71517	07 30 55.17	+25 30 17.3	17	411
1993 XH <sub>1</sub>	1993 12 11.62639	04 38 48.48	+20 15 56.2		408	1992 OJ <sub>8</sub>	1993 12 17.72889	07 30 54.31	+25 30 17.4		411
1993 XH <sub>1</sub>	1993 12 18.62882	04 33 52.92	+20 19 43.0	16.8	408	1992 OJ <sub>8</sub>	1993 12 18.74113	07 29 54.46	+25 30 33.0		411
1993 XH <sub>1</sub>	1993 12 18.64271	04 33 52.32	+20 19 45.5		408	1992 OJ <sub>8</sub>	1993 12 18.74760	07 29 54.04	+25 30 33.8		411
1993 XJ <sub>1</sub>	1993 12 04.73681	04 39 33.92	+20 11 08.7	17.0	408	1992 OJ <sub>8</sub>	1993 12 18.75084	07 29 53.86	+25 30 34.1		411
1993 XJ <sub>1</sub>	1993 12 05.58125	04 38 42.94	+20 12 13.8	17.0	408	1992 PY <sub>2</sub>	1994 01 04.67069	07 20 03.93	+22 35 49.8	15	411
1993 XJ <sub>1</sub>	1993 12 05.59028	04 38 42.29	+20 12 16.6		408	1992 PY <sub>2</sub>	1994 01 04.67808	07 20 03.44	+22 35 47.7		411
1993 XJ <sub>1</sub>	* 1993 12 09.54236	04 34 44.58	+20 17 34.5	17.0	408	1992 PY <sub>2</sub>	1994 01 04.68502	07 20 02.95	+22 35 45.9		411
1993 XJ <sub>1</sub>	1993 12 09.55556	04 34 43.83	+20 17 36.2		408	1992 PY <sub>2</sub>	1994 01 06.64327	07 17 46.87	+22 26 37.5		411
1993 XJ <sub>1</sub>	1993 12 11.61253	04 32 42.45	+20 20 22.7	16.8	408	1993 UV	1993 10 25.65631	04 08 50.07	+16 13 40.2		411
1993 XJ <sub>1</sub>	1993 12 11.62639	04 32 41.73	+20 20 25.2		408	1993 UV	1993 10 25.66276	04 08 49.88	+16 13 35.4		411
1993 XJ <sub>1</sub>	1993 12 18.62882	04 26 15.03	+20 30 18.6	17.3	408	1993 UV	1993 10 25.66599	04 08 49.82	+16 13 33.2		411
1993 XJ <sub>1</sub>	1993 12 18.64271	04 26 14.22	+20 30 17.6		408	1993 UV	1993 10 26.73072	04 08 27.00	+16 00 40.9		411
1993 XV <sub>1</sub>	* 1993 12 09.50347	04 07 57.72	+19 41 27.2	16.5	408	1993 UV	1993 10 26.73719	04 08 26.94	+16 00 35.8		411
1993 XV <sub>1</sub>	1993 12 09.51111	04 07 57.44	+19 41 27.5		408	1993 UV	1993 10 26.74043	04 08 26.81	+16 00 33.5		411
1993 XV <sub>1</sub>	1993 12 09.52431	04 07 56.38	+19 41 25.2		408	1993 UV	1993 11 14.55806	03 57 01.70	+11 59 07.7		411
1993 XV <sub>1</sub>	1993 12 18.59097	03 59 43.85	+19 38 02.3	17.0	408	1993 UV	1993 11 14.56453	03 57 01.39	+11 59 02.8		411
1993 XV <sub>1</sub>	1993 12 18.60625	03 59 43.12	+19 37 59.8		408	1993 UV	1993 11 14.56775	03 57 01.25	+11 59 00.3		411
1993 XW <sub>1</sub>	* 1993 12 05.51875	04 43 24.69	+28 28 46.9	16.7	408	1993 UV	1993 11 22.67425	03 50 34.73	+10 18 28.4		411
1993 XW <sub>1</sub>	1993 12 05.53264	04 43 23.82	+28 28 46.7		408	1993 UV	1993 11 22.68183	03 50 34.42	+10 18 23.2		411
1993 XW <sub>1</sub>	1993 12 05.55278	04 43 22.57	+28 28 40.9		408	1993 UV	1993 12 07.50914	03 39 59.68	+07 47 39.1		411
1993 XW <sub>1</sub>	1993 12 18.68507	04 31 04.22	+27 39 01.9	16.8	408	1993 UV	1993 12 07.51561	03 39 59.44	+07 47 34.7		411
1993 XW <sub>1</sub>	1993 12 18.69965	04 31 03.43	+27 38 58.4		408	1993 UV	1993 12 07.51884	03 39 59.36	+07 47 34.2		411
1994 AY <sub>1</sub>	* 1994 01 07.60347	08 24 45.38	+17 28 54.1	16.8	408	1993 UW	1993 10 25.72717	04 13 21.15	+18 27 51.7		411
1994 AY <sub>1</sub>	1994 01 07.61736	08 24 44.50	+17 28 55.3		408	1993 UW	1993 10 25.73791	04 13 20.81	+18 27 50.5		411
1994 AY <sub>1</sub>	1994 01 08.73611	08 23 46.83	+17 32 39.7	17.0	408	1993 UW	1993 10 25.74115	04 13 20.68	+18 27 50.4		411
1994 AY <sub>1</sub>	1994 01 08.75000	08 23 46.09	+17 32 40.9		408	1993 UW	1993 10 26.74598	04 12 47.17	+18 26 39.6		411
1994 AZ <sub>1</sub>	* 1994 01 07.63542	08 23 02.02	+21 43 14.8	16.5	408	1993 UW	1993 10 26.75245	04 12 46.99	+18 26 38.0		411
1994 AZ <sub>1</sub>	1994 01 07.64931	08 23 01.09	+21 43 14.0		408	1993 UW	1993 10 26.75569	04 12 46.87	+18 26 37.0		411
1994 AZ <sub>1</sub>	1994 01 08.71181	08 21 51.61	+21 44 35.7	16.8	408	1993 UW	1993 11 14.57288	03 57 04.43	+17 55 13.5		411
1994 AZ <sub>1</sub>	1994 01 08.72569	08 21 50.56	+21 44 35.6		408	1993 UW	1993 11 14.57933	03 57 04.03	+17 55 13.0		411
						1993 UW	1993 11 14.58256	03 57 03.83	+17 55 12.9		411
						1993 UY	1993 10 26.71505	03 49 45.21	+19 24 43.3		411
						1993 UY	1993 10 26.72153	03 49 44.92	+19 24 40.1		411
						1993 UY	1993 11 14.52639	03 32 27.18	+17 15 38.6		411
						1993 UY	1993 11 14.53285	03 32 26.79	+17 15 35.8		411
						1993 UY	1993 11 14.53608	03 32 26.61	+17 15 35.1		411
						1993 UY	1993 11 22.66290	03 24 28.80	+16 17 09.8		411
						1993 UY	1993 11 22.66795	03 24 28.51	+16 17 07.3		411
						1993 UY	1993 11 22.67049	03 24 28.38	+16 17 05.8		411
						1993 UY	1993 12 07.49264	03 11 44.03	+14 39 58.9		411
						1993 UY	1993 12 07.49911	03 11 43.74	+14 39 56.4		411
						1993 UY	1993 12 07.50236	03 11 43.54	+14 39 55.2		411
						1993 UY	1993 12 11.45980	03 08 59.45	+14 17 44.2		411
						1993 UY	1993 12 11.46628	03 08 59.21	+14 17 43.0		411
						1993 UY	1993 12 11.46951	03 08 59.04	+14 17 43.2		411
						1993 VQ	1993 11 18.60940	03 23 04.39	+20 31 46.8		411
						1993 VQ	1993 11 18.61446	03 23 04.17	+20 31 45.7		411
						1993 VQ	1993 11 18.61699	03 23 04.06	+20 31 46.4		411
						1993 VQ	1993 12 04.60827	03 09 36.23	+19 48 22.8		411
						1993 VQ	1993 12 04.61474	03 09 35.87	+19 48 23.0		411
1978 VL <sub>10</sub>	1994 01 02.70205	07 03 24.82	+20 01 28.9	16.5	411						
1978 VL <sub>10</sub>	1994 01 02.71564	07 03 24.02	+20 01 30.8		411						
1978 VL <sub>10</sub>	1994 01 03.71108	07 02 27.51	+20 03 21.5		411						
1978 VL <sub>10</sub>	1994 01 03.71788	07 02 27.03	+20 03 20.9		411						
1978 VL <sub>10</sub>	1994 01 03.72470	07 02 26.64	+20 03 21.3		411						
1981 EV <sub>22</sub>	1994 01 02.69531	07 02 49.17	+17 43 28.0	16.5	411						
1981 EV <sub>22</sub>	1994 01 02.70891	07 02 48.30	+17 43 30.6		411						
1981 EV <sub>22</sub>	1994 01 03.70445	07 01 49.26	+17 45 41.4		411						
1981 EV <sub>22</sub>	1994 01 03.70768	07 01 49.04	+17 45 42.3		411						
1981 EV <sub>22</sub>	1994 01 03.71447	07 01 48.64	+17 45 43.0		411						
1989 NK <sub>1</sub>	1994 01 04.70838	07 59 15.15	+17 56 46.8	15	411						
1989 NK <sub>1</sub>	1994 01 04.72194	07 59 14.20	+17 56 54.5		411						
1989 NK <sub>1</sub>	1994 01 06.65826	07 57 02.51	+18 15 11.0		411						

**411 Oizumi**

T. Kobayashi, 1717-2 Shimo-Koizumi, Oizumi-machi, Ora-gun, Gunma-ken, 370-05  
Japan

Observers T. Kobayashi, H. Fujii

Measurer T. Kobayashi

0.25-m  $f/4.4$  reflector + CCD

GSC

1993 VQ	1993 12 04.61798	03 09 35.82	+19 48 21.6	411	1993 VN <sub>2</sub>	1993 11 21.81016	05 08 48.05	+17 49 33.2	411
1993 VQ	1993 12 11.47667	03 05 00.20	+19 31 43.9	411	1993 VN <sub>2</sub>	1993 11 24.61811	05 05 55.68	+17 44 35.1	411
1993 VQ	1993 12 11.48314	03 04 59.98	+19 31 43.5	411	1993 VN <sub>2</sub>	1993 11 24.62458	05 05 55.34	+17 44 33.5	411
1993 VQ	1993 12 11.48637	03 04 59.85	+19 31 42.3	411	1993 VN <sub>2</sub>	1993 11 24.62782	05 05 55.08	+17 44 33.2	411
1993 VR	1993 11 18.62279	03 25 00.66	+20 05 05.6	411	1993 VN <sub>2</sub>	1993 12 04.64478	04 54 52.68	+17 28 40.7	411
1993 VR	1993 11 18.62785	03 25 00.36	+20 05 02.3	411	1993 VN <sub>2</sub>	1993 12 04.65124	04 54 52.29	+17 28 39.9	411
1993 VR	1993 11 18.63038	03 25 00.21	+20 05 00.0	411	1993 VN <sub>2</sub>	1993 12 04.65448	04 54 52.11	+17 28 40.8	411
1993 VR	1993 11 23.72943	03 20 36.04	+19 08 11.8	411	1993 VN <sub>2</sub>	1993 12 15.46607	04 43 05.89	+17 17 01.2	411
1993 VR	1993 11 23.73911	03 20 35.51	+19 08 06.2	411	1993 VN <sub>2</sub>	1993 12 15.47253	04 43 05.50	+17 16 59.3	411
1993 VR	1993 12 04.56196	03 12 33.73	+17 12 52.0	411	1993 VN <sub>2</sub>	1993 12 15.47576	04 43 05.16	+17 16 58.4	411
1993 VR	1993 12 04.56844	03 12 33.54	+17 12 47.3	411	1993 VO <sub>2</sub>	1993 11 22.68616	05 10 02.67	+17 48 30.5	411
1993 VR	1993 12 04.57167	03 12 33.39	+17 12 45.8	411	1993 VO <sub>2</sub>	1993 11 22.69374	05 10 02.25	+17 48 32.0	411
1993 VR	1993 12 11.49072	03 08 50.72	+16 07 27.2	411	1993 VO <sub>2</sub>	1993 12 04.65799	04 57 07.06	+18 01 38.4	411
1993 VR	1993 12 11.49719	03 08 50.56	+16 07 24.4	411	1993 VO <sub>2</sub>	1993 12 04.66446	04 57 06.58	+18 01 38.9	411
1993 VR	1993 12 11.50043	03 08 50.47	+16 07 20.9	411	1993 VO <sub>2</sub>	1993 12 04.66769	04 57 06.31	+18 01 39.2	411
1993 VS	1993 11 18.63428	03 52 55.73	+17 31 51.4	411	1993 VO <sub>2</sub>	1993 12 14.60351	04 45 33.29	+18 16 51.3	411
1993 VS	1993 11 18.63935	03 52 55.46	+17 31 50.3	411	1993 VO <sub>2</sub>	1993 12 14.60997	04 45 32.80	+18 16 51.7	411
1993 VS	1993 11 18.64188	03 52 55.27	+17 31 49.7	411	1993 VO <sub>2</sub>	1993 12 14.61320	04 45 32.59	+18 16 52.1	411
1993 VS	1993 11 23.72150	03 47 58.03	+17 18 47.6	411	1993 XJ	* 1993 12 08.67933	05 04 54.42	+17 23 40.2	15 411
1993 VS	1993 11 23.72473	03 47 57.76	+17 18 48.2	411	1993 XJ	1993 12 08.69301	05 04 53.49	+17 23 35.7	411
1993 VS	1993 12 04.57612	03 38 07.19	+16 54 53.3	411	1993 XJ	1993 12 09.50136	05 04 01.26	+17 19 21.3	411
1993 VS	1993 12 04.58259	03 38 06.92	+16 54 52.1	411	1993 XJ	1993 12 09.50783	05 04 00.82	+17 19 19.2	411
1993 VS	1993 12 04.58583	03 38 06.72	+16 54 50.5	411	1993 XJ	1993 12 09.51106	05 04 00.61	+17 19 18.4	411
1993 VS	1993 12 11.50576	03 33 00.16	+16 44 28.5	411	1993 XK	1993 12 08.67933	05 04 41.90	+17 26 04.0	411
1993 VS	1993 12 11.51223	03 32 59.86	+16 44 28.8	411	1993 XK	* 1993 12 08.69301	05 04 40.96	+17 26 03.0	17 411
1993 VS	1993 12 11.51546	03 32 59.72	+16 44 28.3	411	1993 XK	1993 12 09.50136	05 03 47.94	+17 26 57.4	411
1993 VT	1993 11 18.65097	03 53 02.35	+18 13 32.0	411	1993 XK	1993 12 09.50783	05 03 47.50	+17 26 57.8	411
1993 VT	1993 11 18.65350	03 53 02.35	+18 13 30.7	411	1993 XK	1993 12 09.51106	05 03 47.33	+17 26 57.8	411
1993 VT	1993 11 23.70099	03 47 19.82	+18 23 26.1	411	1993 XK	1993 12 12.50217	05 00 30.97	+17 30 30.9	411
1993 VT	1993 11 23.70745	03 47 19.22	+18 23 25.8	411	1993 XK	1993 12 12.50863	05 00 30.53	+17 30 32.7	411
1993 VT	1993 12 04.59336	03 35 46.72	+18 44 22.0	411	1993 XK	1993 12 12.51186	05 00 30.34	+17 30 33.0	411
1993 VT	1993 12 04.59983	03 35 46.39	+18 44 22.7	411	1993 XK	1993 12 15.48573	04 57 19.08	+17 34 31.7	411
1993 VT	1993 12 04.60306	03 35 46.24	+18 44 23.1	411	1993 XK	1993 12 15.49219	04 57 18.65	+17 34 32.6	411
1993 VT	1993 12 14.50910	03 27 11.66	+19 04 40.1	411	1993 XK	1993 12 15.49542	04 57 18.45	+17 34 31.9	411
1993 VT	1993 12 14.51556	03 27 11.37	+19 04 41.1	411	1993 XK	1993 12 17.48185	04 55 14.15	+17 37 24.5	411
1993 VT	1993 12 14.51879	03 27 11.21	+19 04 42.1	411	1993 XK	1993 12 17.48832	04 55 13.74	+17 37 25.7	411
1993 VX	1993 11 18.65830	05 08 57.84	+17 58 08.2	411	1993 XK	1993 12 17.49156	04 55 13.55	+17 37 25.5	411
1993 VX	1993 11 18.66337	05 08 57.58	+17 58 08.7	411	1993 XK	1994 01 01.44406	04 42 12.37	+18 05 46.8	411
1993 VX	1993 11 18.66590	05 08 57.47	+17 58 09.1	411	1993 XK	1994 01 01.44729	04 42 12.29	+18 05 46.0	411
1993 VX	1993 11 24.57358	05 03 57.22	+18 09 13.2	411	1993 XK	1994 01 01.45408	04 42 11.90	+18 05 46.2	411
1993 VX	1993 11 24.57865	05 03 56.92	+18 09 13.5	411	1993 XL	* 1993 12 08.64979	05 02 31.98	+17 33 27.6	16.5 411
1993 VX	1993 11 24.58118	05 03 56.80	+18 09 13.8	411	1993 XL	1993 12 08.66347	05 02 31.01	+17 33 29.3	411
1993 VX	1993 12 04.62607	04 54 17.67	+18 30 24.0	411	1993 XL	1993 12 09.51585	05 01 29.61	+17 35 01.1	411
1993 VX	1993 12 04.63254	04 54 17.29	+18 30 24.5	411	1993 XL	1993 12 09.52232	05 01 29.14	+17 35 02.8	411
1993 VX	1993 12 04.63577	04 54 17.11	+18 30 25.1	411	1993 XL	1993 12 09.52556	05 01 28.88	+17 35 02.4	411
1993 VX	1993 12 12.54674	04 46 25.44	+18 49 01.7	411	1993 XL	1993 12 12.51578	04 57 54.79	+17 40 40.4	411
1993 VX	1993 12 12.55320	04 46 25.06	+18 49 02.7	411	1993 XL	1993 12 12.52225	04 57 54.27	+17 40 40.4	411
1993 VX	1993 12 12.55643	04 46 24.85	+18 49 03.0	411	1993 XL	1993 12 12.52548	04 57 54.03	+17 40 41.6	411
1993 VX	1994 01 04.45253	04 28 50.27	+19 53 37.7	411	1993 XL	1993 12 15.50013	04 54 26.44	+17 46 34.5	411
1993 VX	1994 01 04.45755	04 28 50.11	+19 53 39.3	411	1993 XL	1993 12 15.50660	04 54 25.95	+17 46 35.6	411
1993 VX	1994 01 04.46007	04 28 50.03	+19 53 39.6	411	1993 XL	1993 12 15.50983	04 54 25.76	+17 46 35.8	411
1993 VN <sub>2</sub>	1993 11 21.80370	05 08 48.54	+17 49 35.9	411	1993 XL	1993 12 17.46631	04 52 13.53	+17 50 37.8	411

1993 XL	1993 12 17.47278	04 52 13.07	+17 50 39.0	411	1993 XQ	1993 12 14.56106	05 08 41.54	+21 47 58.6	411
1993 XL	1993 12 17.47601	04 52 12.86	+17 50 38.6	411	1993 XQ	1993 12 14.56429	05 08 41.34	+21 47 57.3	411
1993 XL	1994 01 01.43053	04 38 13.07	+18 26 03.6	411	1993 XQ	1993 12 18.46465	05 05 05.54	+21 42 12.4	411
1993 XL	1994 01 01.43748	04 38 12.65	+18 26 03.8	411	1993 XQ	1993 12 18.47112	05 05 05.11	+21 42 12.5	411
1993 XL	1994 01 01.44071	04 38 12.55	+18 26 06.2	411	1993 XQ	1993 12 18.47436	05 05 04.95	+21 42 11.7	411
1993 XM	* 1993 12 08.71212	07 02 05.54	+16 58 28.3	16.5	1993 XQ	1994 01 01.48388	04 53 52.43	+21 23 22.5	411
1993 XM	1993 12 08.72583	07 02 05.09	+16 58 34.0	411	1993 XQ	1994 01 01.49068	04 53 52.19	+21 23 23.3	411
1993 XM	1993 12 09.64123	07 01 30.55	+17 03 38.7	411	1993 XQ	1994 01 01.49389	04 53 51.98	+21 23 21.4	411
1993 XM	1993 12 09.64771	07 01 30.32	+17 03 39.5	411	1993 XQ	1994 01 04.51149	04 51 57.96	+21 20 06.6	411
1993 XM	1993 12 09.65095	07 01 30.26	+17 03 40.2	411	1993 XQ	1994 01 04.51830	04 51 57.59	+21 20 04.9	411
1993 XM	1993 12 12.69562	06 59 27.03	+17 21 12.2	411	1993 XQ	1994 01 04.52153	04 51 57.54	+21 20 07.0	411
1993 XM	1993 12 12.70209	06 59 26.74	+17 21 14.3	411	1993 XR	* 1993 12 09.54557	05 13 50.81	+23 00 28.4	17 411
1993 XM	1993 12 12.70533	06 59 26.64	+17 21 15.9	411	1993 XR	1993 12 09.55931	05 13 49.96	+23 00 31.5	411
1993 XM	1993 12 23.62291	06 50 38.79	+18 31 19.5	411	1993 XR	1993 12 11.52248	05 11 41.82	+23 05 00.4	411
1993 XM	1993 12 23.63111	06 50 38.28	+18 31 25.4	411	1993 XR	1993 12 11.52895	05 11 41.38	+23 05 00.9	411
1993 XM	1993 12 23.63352	06 50 37.97	+18 31 26.5	411	1993 XR	1993 12 11.53218	05 11 41.16	+23 05 01.7	411
1993 XM	1994 01 04.53938	06 39 34.27	+19 56 11.2	411	1993 XR	1993 12 14.57229	05 08 23.10	+23 11 41.4	411
1993 XM	1994 01 04.54261	06 39 34.15	+19 56 11.2	411	1993 XR	1993 12 14.57874	05 08 22.78	+23 11 40.7	411
1993 XM	1994 01 04.54942	06 39 33.76	+19 56 15.0	411	1993 XR	1993 12 14.58197	05 08 22.69	+23 11 39.9	411
1993 XN	* 1993 12 08.72343	07 03 21.95	+20 36 26.4	16.5	1993 XR	1993 12 18.47968	05 04 13.23	+23 19 52.2	411
1993 XN	1993 12 08.73715	07 03 21.36	+20 36 23.5	411	1993 XR	1993 12 18.48615	05 04 12.72	+23 19 52.5	411
1993 XN	1993 12 09.62565	07 02 40.84	+20 33 03.8	411	1993 XR	1993 12 18.48939	05 04 12.47	+23 19 52.9	411
1993 XN	1993 12 09.63215	07 02 40.49	+20 33 02.0	411	1993 XR	1994 01 01.46434	04 50 51.47	+23 45 52.4	411
1993 XN	1993 12 09.63539	07 02 40.34	+20 33 01.9	411	1993 XR	1994 01 01.47723	04 50 50.93	+23 45 51.1	411
1993 XN	1993 12 18.71175	06 54 42.11	+19 59 08.1	411	1993 XR	1994 01 04.49502	04 48 26.35	+23 51 02.8	411
1993 XN	1993 12 18.71822	06 54 41.76	+19 59 06.3	411	1993 XR	1994 01 04.49823	04 48 26.22	+23 51 01.7	411
1993 XN	1993 12 18.72146	06 54 41.57	+19 59 05.6	411	1993 XR	1994 01 04.50481	04 48 25.90	+23 51 01.0	411
1993 XN	1993 12 23.60601	06 49 48.46	+19 40 54.2	411	1993 XT	* 1993 12 11.61245	06 52 54.95	+28 17 07.6	16.5 411
1993 XN	1993 12 23.60854	06 49 48.30	+19 40 53.9	411	1993 XT	1993 12 11.62620	06 52 54.42	+28 17 11.2	411
1993 XN	1993 12 23.61447	06 49 47.93	+19 40 52.4	411	1993 XT	1993 12 12.62168	06 52 14.43	+28 22 00.6	411
1993 XN	1994 01 02.60977	06 39 10.13	+19 04 07.3	411	1993 XT	1993 12 12.62815	06 52 14.22	+28 22 03.0	411
1993 XN	1994 01 02.61302	06 39 09.92	+19 04 06.3	411	1993 XT	1993 12 12.63139	06 52 14.02	+28 22 02.6	411
1993 XN	1994 01 02.61960	06 39 09.50	+19 04 05.4	411	1993 XT	1993 12 18.56203	06 47 56.85	+28 50 26.6	411
1993 XP	* 1993 12 08.80998	07 11 11.13	+20 06 42.6	16	1993 XT	1993 12 18.56850	06 47 56.57	+28 50 28.0	411
1993 XP	1993 12 08.82370	07 11 10.46	+20 06 38.9	411	1993 XT	1993 12 18.57174	06 47 56.45	+28 50 29.2	411
1993 XP	1993 12 11.55299	07 09 08.25	+19 50 43.0	411	1993 XT	1994 01 02.57933	06 35 40.69	+29 54 35.9	411
1993 XP	1993 12 11.55946	07 09 07.93	+19 50 40.1	411	1993 XT	1994 01 02.58938	06 35 40.15	+29 54 39.2	411
1993 XP	1993 12 15.56738	07 05 45.08	+19 27 19.9	411	1993 XU	* 1993 12 11.63080	06 53 32.47	+24 48 16.1	16.5 411
1993 XP	1993 12 15.57384	07 05 44.62	+19 27 17.7	411	1993 XU	1993 12 11.64455	06 53 31.88	+24 48 15.4	411
1993 XP	1993 12 15.57707	07 05 44.42	+19 27 16.5	411	1993 XU	1993 12 12.57866	06 52 46.23	+24 48 40.9	17 411
1993 XP	1993 12 23.63127	06 57 51.40	+18 40 51.9	411	1993 XU	1993 12 12.66572	06 52 41.70	+24 48 41.8	411
1993 XP	1993 12 23.63780	06 57 51.05	+18 40 50.4	411	1993 XU	1993 12 12.67219	06 52 41.36	+24 48 41.5	411
1993 XP	1993 12 23.63922	06 57 50.92	+18 40 50.0	411	1993 XU	1993 12 12.67543	06 52 41.18	+24 48 42.3	411
1993 XP	1994 01 07.50411	06 41 39.30	+17 19 39.9	411	1993 XU	1993 12 12.67998	06 52 40.95	+24 48 44.9	411
1993 XP	1994 01 07.50733	06 41 39.13	+17 19 39.3	411	1993 XU	1993 12 12.68969	06 52 40.32	+24 48 44.0	411
1993 XP	1994 01 07.51055	06 41 38.94	+17 19 38.5	411	1993 XU	1993 12 14.65378	06 50 59.06	+24 49 34.4	411
1993 XQ	* 1993 12 09.54331	05 13 26.31	+21 55 17.1	16.5	1993 XU	1993 12 14.66025	06 50 58.69	+24 49 34.3	411
1993 XQ	1993 12 09.55704	05 13 25.55	+21 55 15.0	411	1993 XU	1993 12 14.66348	06 50 58.51	+24 49 34.2	411
1993 XQ	1993 12 11.53696	05 11 32.82	+21 52 25.1	411	1993 XV	* 1993 12 11.66508	06 57 07.27	+26 28 16.8	16.5 411
1993 XQ	1993 12 11.54343	05 11 32.51	+21 52 23.8	411	1993 XV	1993 12 11.67888	06 57 06.54	+26 28 13.9	411
1993 XQ	1993 12 11.54666	05 11 32.25	+21 52 23.5	411	1993 XV	1993 12 12.63635	06 56 17.24	+26 25 35.4	411
1993 XQ	1993 12 14.55460	05 08 41.88	+21 47 58.6	411	1993 XV	1993 12 12.64282	06 56 16.90	+26 25 33.0	411

1993 XV	1993 12 12.64606	06 56 16.69	+26 25 32.9	411	1993 XB <sub>1</sub>	1994 01 02.54595	06 30 17.33	+26 12 01.1	411
1993 XV	1993 12 18.61709	06 50 35.44	+26 07 44.2	411	1993 XB <sub>1</sub>	1994 01 02.55288	06 30 16.74	+26 12 02.1	411
1993 XV	1993 12 18.62356	06 50 35.02	+26 07 42.6	411	1993 XB <sub>1</sub>	1994 01 02.55609	06 30 16.59	+26 12 02.7	411
1993 XV	1993 12 23.59523	06 45 19.07	+25 51 07.6	411	1993 XF <sub>1</sub>	* 1993 12 14.58703	05 29 48.14	+23 10 54.4	16.5 411
1993 XV	1993 12 23.60067	06 45 18.66	+25 51 06.0	411	1993 XF <sub>1</sub>	1993 12 14.59349	05 29 47.70	+23 10 55.3	411
1993 XV	1993 12 23.60318	06 45 18.49	+25 51 05.3	411	1993 XF <sub>1</sub>	1993 12 14.59672	05 29 47.46	+23 10 55.9	411
1993 XV	1994 01 02.56601	06 34 18.53	+25 13 03.0	411	1993 XF <sub>1</sub>	1993 12 15.55084	05 28 39.67	+23 13 55.7	411
1993 XV	1994 01 02.57264	06 34 18.07	+25 13 01.5	411	1993 XF <sub>1</sub>	1993 12 15.55731	05 28 39.14	+23 13 56.4	411
1993 XV	1994 01 02.57585	06 34 17.84	+25 13 00.3	411	1993 XF <sub>1</sub>	1993 12 15.56054	05 28 38.93	+23 13 56.5	411
1993 XV	1994 01 03.65103	06 33 08.02	+25 08 35.2	411	1993 XF <sub>1</sub>	1993 12 18.54716	05 25 08.76	+23 23 01.1	411
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1993 XW	1993 12 11.74307	07 01 39.32	+27 57 06.4	411	1993 XF <sub>1</sub>	1993 12 18.55687	05 25 08.01	+23 23 02.9	411
1993 XW	1993 12 12.65100	07 00 55.64	+28 05 10.1	411	1993 XF <sub>1</sub>	1993 12 21.59884	05 21 39.91	+23 31 54.5	17 411
1993 XW	1993 12 12.65747	07 00 55.31	+28 05 14.6	411	1993 XF <sub>1</sub>	1993 12 21.60391	05 21 39.71	+23 31 52.2	411
1993 XW	1993 12 12.66071	07 00 55.23	+28 05 16.2	411	1993 XF <sub>1</sub>	1993 12 21.60645	05 21 39.44	+23 31 54.0	411
1993 XW	1993 12 21.68408	06 52 49.53	+29 24 30.7	411	1993 XG <sub>1</sub>	* 1993 12 14.69946	07 23 04.52	+24 18 24.2	17 411
1993 XW	1993 12 21.68914	06 52 49.18	+29 24 33.9	411	1993 XG <sub>1</sub>	1993 12 14.71315	07 23 03.86	+24 18 24.1	411
1993 XW	1993 12 21.69167	06 52 49.03	+29 24 36.0	411	1993 XG <sub>1</sub>	1993 12 15.58247	07 22 23.68	+24 18 01.6	411
1993 XW	1993 12 23.61149	06 50 56.59	+29 40 59.1	411	1993 XG <sub>1</sub>	1993 12 15.58893	07 22 23.39	+24 18 02.2	411
1993 XW	1993 12 23.61743	06 50 56.23	+29 41 01.9	411	1993 XG <sub>1</sub>	1993 12 15.59216	07 22 23.24	+24 18 01.8	411
1993 XW	1993 12 23.61994	06 50 56.08	+29 41 04.1	411	1993 XG <sub>1</sub>	1993 12 23.64193	07 15 35.04	+24 14 14.5	411
1993 XW	1994 01 02.59614	06 40 43.86	+31 01 21.7	411	1993 XG <sub>1</sub>	1993 12 23.64512	07 15 34.85	+24 14 15.8	411
1993 XW	1994 01 02.60283	06 40 43.45	+31 01 24.7	411	1993 XG <sub>1</sub>	1993 12 23.64832	07 15 34.73	+24 14 15.3	411
1993 XW	1994 01 02.60605	06 40 43.17	+31 01 25.8	411	1993 XG <sub>1</sub>	1994 01 07.53407	07 01 27.65	+24 03 19.0	411
1993 XZ	* 1993 12 11.52248	05 11 51.11	+23 27 24.8	17 411	1993 XG <sub>1</sub>	1994 01 07.53726	07 01 27.47	+24 03 18.5	411
1993 XZ	1993 12 11.52895	05 11 50.66	+23 27 24.0	411	1993 XG <sub>1</sub>	1994 01 07.54421	07 01 27.07	+24 03 18.0	411
1993 XZ	1993 12 11.53218	05 11 50.47	+23 27 25.1	411	1993 XK <sub>1</sub>	1993 12 14.69946	07 23 11.05	+24 12 37.2	411
1993 XZ	1993 12 14.52532	05 08 29.27	+23 30 10.7	411	1993 XK <sub>1</sub>	1993 12 14.71315	07 23 10.47	+24 12 38.6	411
1993 XZ	1993 12 14.53178	05 08 28.76	+23 30 11.0	411	1993 XK <sub>1</sub>	* 1993 12 15.58247	07 22 32.42	+24 15 08.0	17 411
1993 XZ	1993 12 14.53501	05 08 28.63	+23 30 12.9	411	1993 XK <sub>1</sub>	1993 12 15.59778	07 22 31.82	+24 15 10.7	411
1993 XZ	1993 12 17.49871	05 05 15.18	+23 32 39.2	411	1993 XK <sub>1</sub>	1993 12 15.60748	07 22 31.39	+24 15 12.1	411
1993 XZ	1993 12 17.50841	05 05 14.61	+23 32 38.3	411	1993 XK <sub>1</sub>	1993 12 23.68011	07 15 55.56	+24 38 25.3	411
1993 XZ	1993 12 18.49629	05 04 11.94	+23 33 24.3	411	1993 XK <sub>1</sub>	1993 12 23.68737	07 15 55.19	+24 38 26.1	411
1993 XZ	1993 12 18.50276	05 04 11.39	+23 33 24.3	411	1993 XK <sub>1</sub>	1993 12 23.69060	07 15 55.06	+24 38 25.9	411
1993 XZ	1993 12 21.58192	05 01 03.34	+23 35 35.1	411	1993 XK <sub>1</sub>	1994 01 04.57975	07 04 43.12	+25 10 37.1	411
1993 XZ	1993 12 21.58840	05 01 02.78	+23 35 33.5	411	1993 XK <sub>1</sub>	1994 01 04.58643	07 04 42.71	+25 10 38.6	411
1993 XZ	1993 12 21.59164	05 01 02.51	+23 35 36.5	411	1993 XK <sub>1</sub>	1994 01 04.58966	07 04 42.56	+25 10 38.0	411
1993 XA <sub>1</sub>	* 1993 12 11.53696	05 12 24.33	+21 38 20.6	16.5 411	1993 XN <sub>1</sub>	* 1993 12 15.58247	07 22 22.62	+24 30 19.2	18 411
1993 XA <sub>1</sub>	1993 12 11.54343	05 12 23.95	+21 38 18.5	411	1993 XN <sub>1</sub>	1993 12 15.58893	07 22 22.31	+24 30 24.5	411
1993 XA <sub>1</sub>	1993 12 11.54666	05 12 23.60	+21 38 18.6	411	1993 XN <sub>1</sub>	1993 12 15.59216	07 22 22.12	+24 30 24.8	411
1993 XA <sub>1</sub>	1993 12 14.62087	05 08 55.45	+21 22 42.9	411	1993 XN <sub>1</sub>	1993 12 17.53070	07 20 44.83	+24 42 53.0	411
1993 XA <sub>1</sub>	1993 12 14.62733	05 08 55.12	+21 22 40.5	411	1993 XN <sub>1</sub>	1993 12 17.53717	07 20 44.41	+24 42 53.3	411
1993 XA <sub>1</sub>	1993 12 14.63056	05 08 54.80	+21 22 40.6	411	1993 XN <sub>1</sub>	1993 12 17.54040	07 20 44.26	+24 42 57.4	411
1993 XB <sub>1</sub>	* 1993 12 12.57866	06 51 44.00	+24 56 03.5	17 411	1993 XN <sub>1</sub>	1994 01 07.51424	06 59 40.88	+26 55 30.1	411
1993 XB <sub>1</sub>	1993 12 12.67998	06 51 38.61	+24 56 28.4	411	1993 XN <sub>1</sub>	1994 01 07.51746	06 59 40.77	+26 55 32.3	411
1993 XB <sub>1</sub>	1993 12 12.68969	06 51 37.97	+24 56 29.4	411	1993 XN <sub>1</sub>	1994 01 07.52415	06 59 40.27	+26 55 35.2	411
1993 XB <sub>1</sub>	1993 12 14.63848	06 49 53.60	+25 04 00.3	411	1993 XO <sub>1</sub>	* 1993 12 15.64404	07 23 16.10	+15 41 46.9	17 411
1993 XB <sub>1</sub>	1993 12 14.64494	06 49 53.26	+25 04 02.2	411	1993 XO <sub>1</sub>	1993 12 15.65773	07 23 15.31	+15 41 46.2	411
1993 XB <sub>1</sub>	1993 12 14.64817	06 49 53.06	+25 04 03.5	411	1993 XO <sub>1</sub>	1993 12 17.56246	07 21 29.87	+15 41 43.2	411
1993 XB <sub>1</sub>	1993 12 23.57277	06 41 02.70	+25 37 53.1	411	1993 XO <sub>1</sub>	1993 12 17.56894	07 21 29.55	+15 41 43.1	411
1993 XB <sub>1</sub>	1993 12 23.57595	06 41 02.50	+25 37 55.0	411	1993 XO <sub>1</sub>	1993 12 17.57217	07 21 29.35	+15 41 43.1	411
1993 XB <sub>1</sub>	1993 12 23.58186	06 41 02.10	+25 37 56.1	411	1993 XO <sub>1</sub>	1993 12 23.67326	07 15 21.01	+15 43 33.2	411

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1993 XO <sub>1</sub>	1994 01 04.59651	07 02 02.45	+15 54 57.0	411	1993 YE	1993 12 18.70448	06 38 09.83	+21 40 26.0	411	
1993 XO <sub>1</sub>	1994 01 04.60333	07 02 01.91	+15 54 58.1	411	1993 YE	1993 12 21.64666	06 35 01.86	+21 43 45.5	411	
1993 XP <sub>1</sub>	* 1993 12 15.67135	07 26 29.67	+15 15 02.4	17	411	1993 YE	1993 12 21.65172	06 35 01.51	+21 43 44.8	411
1993 XP <sub>1</sub>	1993 12 15.68505	07 26 28.99	+15 15 03.0	411	1993 YE	1993 12 21.65425	06 35 01.31	+21 43 45.3	411	
1993 XP <sub>1</sub>	1993 12 17.54694	07 25 03.84	+15 17 57.0	411	1993 YE	1994 01 01.52783	06 22 53.82	+21 55 56.6	411	
1993 XP <sub>1</sub>	1993 12 17.55341	07 25 03.62	+15 17 57.9	411	1993 YE	1994 01 01.53107	06 22 53.58	+21 55 56.8	411	
1993 XP <sub>1</sub>	1993 12 17.55665	07 25 03.38	+15 17 56.5	411	1993 YE	1994 01 01.53774	06 22 53.11	+21 55 57.3	411	
1993 XP <sub>1</sub>	1993 12 23.69422	07 19 44.91	+15 30 26.5	411	1993 YF	* 1993 12 17.65330	06 41 06.46	+21 46 34.1	17	411
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1993 XP <sub>1</sub>	1993 12 23.70358	07 19 44.33	+15 30 27.6	411	1993 YF	1993 12 18.67907	06 40 13.60	+21 48 20.8	411	
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1993 XP <sub>1</sub>	1994 01 04.60673	07 07 34.63	+16 05 37.1	411	1993 YF	1993 12 18.68783	06 40 13.14	+21 48 21.8	411	
1993 XP <sub>1</sub>	1994 01 04.61354	07 07 34.26	+16 05 39.2	411	1993 YF	1993 12 21.66116	06 37 36.25	+21 53 31.8	411	
1993 XQ <sub>1</sub>	* 1993 12 15.71005	07 29 10.83	+18 06 21.8	16.5	411	1993 YF	1993 12 21.66763	06 37 35.92	+21 53 32.6	411
1993 XQ <sub>1</sub>	1993 12 15.72380	07 29 10.12	+18 06 21.6	411	1993 YF	1993 12 21.67087	06 37 35.71	+21 53 33.4	411	
1993 XQ <sub>1</sub>	1993 12 17.68748	07 27 31.61	+18 07 21.6	411	1993 YF	1994 01 02.53928	06 26 47.43	+22 13 55.8	411	
1993 XQ <sub>1</sub>	1993 12 17.69395	07 27 31.19	+18 07 22.6	411	1993 YF	1994 01 02.54251	06 26 47.21	+22 13 56.9	411	
1993 XQ <sub>1</sub>	1993 12 17.69718	07 27 31.05	+18 07 23.6	411	1993 YF	1994 01 02.54942	06 26 46.79	+22 13 57.2	411	
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1993 XQ <sub>1</sub>	1993 12 23.70664	07 21 48.56	+18 12 23.7	411	1993 YG	1993 12 17.74718	07 34 41.14	+22 17 18.0	411	
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1993 XQ <sub>1</sub>	1994 01 04.61013	07 08 30.21	+18 29 19.7	411	1993 YG	1993 12 18.73371	07 33 52.74	+22 17 18.6	411	
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1993 YC	* 1993 12 17.61911	06 36 38.35	+20 12 06.4	17	411	1993 YG	1993 12 23.73508	07 29 20.89	+22 17 48.5	411
1993 YC	1993 12 17.63284	06 36 37.61	+20 12 08.3	411	1993 YG	1993 12 23.73829	07 29 20.71	+22 17 48.1	411	
1993 YC	1993 12 18.66539	06 35 46.09	+20 14 31.5	411	1993 YG	1994 01 04.66481	07 16 29.99	+22 19 35.6	411	
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1993 YC	1993 12 18.67414	06 35 45.68	+20 14 33.2	411	1993 YG	1994 01 04.67474	07 16 29.27	+22 19 36.7	411	
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1993 YC	1993 12 21.61615	06 33 16.51	+20 21 27.4	411	1993 YH	1993 12 17.74718	07 34 59.58	+22 03 39.8	411	
1993 YC	1993 12 21.61868	06 33 16.39	+20 21 27.8	411	1993 YH	1993 12 18.75477	07 34 18.50	+22 05 51.0	411	
1993 YC	1994 01 02.51622	06 22 59.81	+20 49 54.5	411	1993 YH	1993 12 18.76124	07 34 18.31	+22 05 50.1	411	
1993 YC	1994 01 02.51943	06 22 59.65	+20 49 53.7	411	1993 YH	1993 12 18.76448	07 34 18.11	+22 05 50.0	411	
1993 YC	1994 01 02.52617	06 22 59.30	+20 49 55.7	411	1993 YH	1993 12 23.74155	07 30 40.76	+22 16 57.6	411	
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1993 YD	1993 12 21.62751	06 34 09.03	+21 16 10.8	411	1993 YJ	1993 12 18.78111	07 32 57.95	+23 42 22.9	411	
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1993 YD	1994 01 02.52280	06 23 28.08	+22 10 14.5	411	1993 YJ	1993 12 23.71553	07 27 43.33	+23 43 14.5	411	
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1993 YK	1993 12 18.78689	07 36 46.10	+24 15 49.4		411	1994 AA	1994 01 02.42965	04 42 41.67	+15 49 56.5	411
1993 YK	1993 12 18.79336	07 36 45.84	+24 15 52.7		411	1994 AA	1994 01 02.43287	04 42 41.54	+15 49 55.9	411
1993 YK	1993 12 18.79660	07 36 45.71	+24 15 54.0		411	1994 AA	1994 01 07.44417	04 39 47.29	+16 15 25.4	411
1993 YK	1993 12 23.74819	07 33 25.34	+24 58 33.1		411	1994 AA	1994 01 07.44740	04 39 47.21	+16 15 26.1	411
1993 YK	1993 12 23.75501	07 33 24.94	+24 58 36.1		411	1994 AA	1994 01 07.45063	04 39 47.12	+16 15 26.9	411
1993 YK	1993 12 23.75823	07 33 24.84	+24 58 37.8		411	1994 AB	* 1994 01 01.49748	05 09 27.02	+24 05 34.5	16.5 411
1993 YK	1994 01 04.68155	07 22 48.07	+26 43 27.9		411	1994 AB	1994 01 01.50070	05 09 26.76	+24 05 33.3	411
1993 YK	1994 01 04.68848	07 22 47.60	+26 43 30.0		411	1994 AB	1994 01 01.50723	05 09 26.42	+24 05 32.7	411
1993 YK	1994 01 04.69171	07 22 47.43	+26 43 32.5		411	1994 AB	1994 01 02.49822	05 08 40.72	+24 04 04.5	411
1993 YL	* 1993 12 18.54716	05 25 25.33	+23 34 56.1	16.5	411	1994 AB	1994 01 02.50466	05 08 40.49	+24 04 05.1	411
1993 YL	1993 12 18.55363	05 25 24.84	+23 34 56.1		411	1994 AB	1994 01 02.50811	05 08 40.33	+24 04 04.1	411
1993 YL	1993 12 18.55687	05 25 24.65	+23 34 56.6		411	1994 AB	1994 01 07.45754	05 05 09.92	+23 56 49.3	411
1993 YL	1993 12 19.50017	05 24 19.52	+23 35 14.5		411	1994 AB	1994 01 07.46075	05 05 09.82	+23 56 49.0	411
1993 YL	1993 12 19.50523	05 24 19.16	+23 35 15.4		411	1994 AB	1994 01 07.46720	05 05 09.59	+23 56 47.6	411
1993 YL	1993 12 21.59884	05 21 55.33	+23 35 52.3		411	1994 AC	* 1994 01 02.51622	06 24 02.51	+20 53 53.8	16.5 411
1993 YL	1993 12 21.60391	05 21 54.92	+23 35 50.6		411	1994 AC	1994 01 02.51943	06 24 02.30	+20 53 53.4	411
1993 YL	1993 12 21.60645	05 21 54.85	+23 35 51.7		411	1994 AC	1994 01 02.52617	06 24 01.80	+20 53 53.2	411
1993 YL	1994 01 01.50396	05 10 17.21	+23 37 16.3		411	1994 AC	1994 01 03.63021	06 22 45.72	+20 52 35.3	411
1993 YL	1994 01 01.51050	05 10 16.78	+23 37 15.3		411	1994 AC	1994 01 03.63344	06 22 45.43	+20 52 35.2	411
1993 YL	1994 01 01.51703	05 10 16.40	+23 37 15.5		411	1994 AC	1994 01 03.64048	06 22 44.94	+20 52 34.2	411
1993 YM	1993 12 17.73347	07 35 39.37	+21 55 27.4		411	1994 AD	* 1994 01 02.56601	06 34 37.60	+25 20 22.0	16.5 411
1993 YM	1993 12 17.74718	07 35 38.49	+21 55 29.7		411	1994 AD	1994 01 02.57264	06 34 37.14	+25 20 23.6	411
1993 YM	* 1993 12 18.75477	07 34 41.46	+21 58 28.7	17	411	1994 AD	1994 01 02.57585	06 34 36.93	+25 20 23.2	411
1993 YM	1993 12 18.76124	07 34 41.02	+21 58 28.2		411	1994 AD	1994 01 03.64402	06 33 25.19	+25 21 19.1	411
1993 YM	1993 12 18.76448	07 34 40.93	+21 58 30.0		411	1994 AD	1994 01 03.65103	06 33 24.72	+25 21 17.5	411
1993 YS	* 1993 12 18.77141	07 32 34.55	+23 53 47.1	17	411	1994 AE	* 1994 01 02.60977	06 37 52.16	+19 07 40.3	17 411
1993 YS	1993 12 18.77788	07 32 34.21	+23 53 49.2		411	1994 AE	1994 01 02.61302	06 37 52.03	+19 07 41.1	411
1993 YS	1993 12 18.78111	07 32 34.06	+23 53 48.5		411	1994 AE	1994 01 02.61960	06 37 51.50	+19 07 41.8	411
1993 YS	1993 12 21.70799	07 30 04.89	+24 02 38.5		411	1994 AE	1994 01 03.64753	06 36 46.30	+19 12 10.2	411
1993 YS	1993 12 21.71446	07 30 04.51	+24 02 39.7		411	1994 AE	1994 01 03.65453	06 36 45.78	+19 12 10.9	411
1993 YS	1993 12 23.71879	07 28 13.86	+24 08 44.5		411	1994 AE	1994 01 03.65776	06 36 45.61	+19 12 12.9	411
1993 YS	1993 12 23.72532	07 28 13.52	+24 08 46.5		411	1994 AF	* 1994 01 02.66831	07 00 20.25	+18 21 27.2	16.5 411
1993 YS	1993 12 23.72851	07 28 13.36	+24 08 47.2		411	1994 AF	1994 01 02.68189	07 00 19.38	+18 21 27.1	411
1993 YS	1994 01 04.65148	07 15 44.59	+24 42 59.8		411	1994 AF	1994 01 03.67124	06 59 15.17	+18 21 32.5	411
1993 YS	1994 01 04.65818	07 15 44.14	+24 43 02.7		411	1994 AF	1994 01 03.67804	06 59 14.72	+18 21 32.9	411
1993 YS	1994 01 04.66139	07 15 43.86	+24 43 03.7		411	1994 AF	1994 01 03.68126	06 59 14.47	+18 21 31.9	411
1993 YS	1994 01 07.56067	07 12 32.01	+24 50 14.0		411	1994 AG	* 1994 01 02.67279	07 00 49.91	+19 41 18.8	17 411
1993 YS	1994 01 07.56737	07 12 31.51	+24 50 14.3		411	1994 AG	1994 01 02.68637	07 00 48.92	+19 41 18.1	411
1993 YS	1994 01 07.57058	07 12 31.22	+24 50 13.8		411	1994 AG	1994 01 03.68462	06 59 43.71	+19 42 57.6	411
1993 YT	* 1993 12 21.68408	06 52 32.81	+29 21 07.2	16.5	411	1994 AG	1994 01 03.69448	06 59 43.00	+19 42 58.4	411
1993 YT	1993 12 21.68914	06 52 32.43	+29 21 12.3		411	1994 AH	* 1994 01 02.67502	07 00 39.06	+20 30 27.8	16.5 411
1993 YT	1993 12 21.69167	06 52 32.26	+29 21 15.9		411	1994 AH	1994 01 02.68862	07 00 38.26	+20 30 29.8	411
1993 YT	1993 12 23.61149	06 50 17.09	+29 54 31.6		411	1994 AH	1994 01 03.69116	06 59 43.21	+20 32 26.9	411
1993 YT	1993 12 23.61743	06 50 16.66	+29 54 37.8		411	1994 AH	1994 01 03.69781	06 59 42.83	+20 32 27.4	411
1993 YT	1993 12 23.61994	06 50 16.47	+29 54 40.3		411	1994 AH	1994 01 03.70102	06 59 42.66	+20 32 27.5	411
1993 YT	1994 01 02.58597	06 37 18.24	+32 45 08.8		411	1994 AJ	* 1994 01 02.69310	07 03 36.84	+17 12 48.0	16 411
1993 YT	1994 01 02.59280	06 37 17.66	+32 45 16.8		411	1994 AJ	1994 01 02.70667	07 03 35.95	+17 12 52.2	411
1993 YT	1994 01 02.59948	06 37 17.09	+32 45 23.0		411	1994 AJ	1994 01 03.72129	07 02 28.99	+17 17 55.4	411
1994 AA	* 1994 01 01.45069	04 43 19.85	+15 45 05.1	16.5	411	1994 AJ	1994 01 03.72813	07 02 28.58	+17 17 57.5	411
1994 AA	1994 01 01.45749	04 43 19.53	+15 45 06.5		411	1994 AJ	1994 01 03.73135	07 02 28.34	+17 17 58.6	411

1994 AK	1994 01 02.67279	07 00 43.28	+19 35 15.8		411	1994 AX	1994 01 07.63565	08 03 13.19	+16 40 37.5		411
1994 AK	1994 01 02.68637	07 00 42.43	+19 35 21.1		411	1994 AX	1994 01 07.63887	08 03 12.91	+16 40 37.8		411
1994 AK	* 1994 01 03.68462	06 59 47.74	+19 40 33.4	16.5	411	1994 AY	* 1994 01 04.76698	08 05 07.87	+17 54 43.9	17	411
1994 AK	1994 01 03.68784	06 59 47.57	+19 40 34.0		411	1994 AY	1994 01 04.78054	08 05 06.97	+17 54 47.0		411
1994 AK	1994 01 03.69448	06 59 47.19	+19 40 36.7		411	1994 AY	1994 01 07.62230	08 02 13.29	+18 00 53.3		411
1994 AM	* 1994 01 02.64571	06 56 37.14	+20 46 05.4	17	411	1994 AY	1994 01 07.62552	08 02 13.07	+18 00 54.3		411
1994 AM	1994 01 02.65928	06 56 36.45	+20 46 05.4		411	1994 AY	1994 01 07.63227	08 02 12.73	+18 00 54.3		411
1994 AM	1994 01 04.63075	06 54 46.85	+20 42 26.8		411	1994 AC <sub>1</sub>	* 1994 01 07.51424	06 57 39.23	+27 11 05.1	17	411
1994 AM	1994 01 04.63718	06 54 46.51	+20 42 26.2		411	1994 AC <sub>1</sub>	1994 01 07.51746	06 57 39.12	+27 11 06.2		411
1994 AM	1994 01 04.64039	06 54 46.32	+20 42 25.3		411	1994 AC <sub>1</sub>	1994 01 07.52415	06 57 38.59	+27 11 03.8		411
1994 AP	* 1994 01 04.68155	07 22 15.15	+27 02 13.2	15.5	411	1994 AC <sub>1</sub>	1994 01 08.54543	06 56 24.78	+27 06 53.8		411
1994 AP	1994 01 04.68848	07 22 14.72	+27 02 15.9		411	1994 AC <sub>1</sub>	1994 01 08.55835	06 56 23.88	+27 06 50.3		411
1994 AP	1994 01 04.69171	07 22 14.47	+27 02 17.0		411	1994 AC <sub>1</sub>	1994 01 08.56157	06 56 23.71	+27 06 51.6		411
1994 AP	1994 01 06.63134	07 20 02.85	+27 14 58.1		411	1994 AD <sub>1</sub>	* 1994 01 07.51424	06 57 51.01	+27 10 15.2	17	411
1994 AP	1994 01 06.63388	07 20 02.64	+27 14 58.0		411	1994 AD <sub>1</sub>	1994 01 07.51746	06 57 50.75	+27 10 15.1		411
1994 AP	1994 01 06.63895	07 20 02.32	+27 15 01.0		411	1994 AD <sub>1</sub>	1994 01 07.52415	06 57 50.28	+27 10 12.5		411
1994 AQ	* 1994 01 04.69943	07 59 02.69	+15 09 22.4	15.5	411	1994 AD <sub>1</sub>	1994 01 08.54543	06 56 39.85	+27 05 37.0		411
1994 AQ	1994 01 04.71300	07 59 01.87	+15 09 28.8		411	1994 AD <sub>1</sub>	1994 01 08.55512	06 56 39.10	+27 05 34.5		411
1994 AQ	1994 01 06.67020	07 57 11.00	+15 25 01.3		411	1994 AD <sub>1</sub>	1994 01 08.56157	06 56 38.68	+27 05 31.9		411
1994 AQ	1994 01 06.67273	07 57 10.84	+15 25 01.9		411	1994 AE <sub>1</sub>	* 1994 01 07.56067	07 11 28.13	+24 55 03.8	17	411
1994 AQ	1994 01 06.67779	07 57 10.56	+15 25 05.2		411	1994 AE <sub>1</sub>	1994 01 07.56737	07 11 27.66	+24 55 02.8		411
1994 AS	* 1994 01 04.65148	07 14 52.38	+24 48 06.0	17	411	1994 AE <sub>1</sub>	1994 01 07.57058	07 11 27.38	+24 55 00.5		411
1994 AS	1994 01 04.65818	07 14 52.03	+24 48 09.0		411	1994 AE <sub>1</sub>	1994 01 09.48098	07 09 10.47	+24 48 36.0		411
1994 AS	1994 01 04.66139	07 14 51.79	+24 48 08.2		411	1994 AE <sub>1</sub>	1994 01 09.59361	07 09 02.25	+24 48 13.3		411
1994 AS	1994 01 07.56067	07 12 15.19	+24 53 06.4		411	1994 AE <sub>1</sub>	1994 01 09.59681	07 09 02.05	+24 48 12.6		411
1994 AS	1994 01 07.56737	07 12 14.90	+24 53 05.8		411	1994 AF <sub>1</sub>	* 1994 01 07.58829	07 19 53.07	+27 08 00.3	17	411
1994 AS	1994 01 07.57058	07 12 14.74	+24 53 06.8		411	1994 AF <sub>1</sub>	1994 01 07.59520	07 19 52.74	+27 08 05.8		411
1994 AT	* 1994 01 04.67069	07 19 29.86	+22 52 28.8	17	411	1994 AF <sub>1</sub>	1994 01 07.59843	07 19 52.52	+27 08 07.2		411
1994 AT	1994 01 04.67808	07 19 29.39	+22 52 30.6		411	1994 AF <sub>1</sub>	1994 01 09.52049	07 17 55.46	+27 23 52.8		411
1994 AT	1994 01 04.68502	07 19 28.77	+22 52 30.3		411	1994 AF <sub>1</sub>	1994 01 09.52705	07 17 55.06	+27 23 56.3		411
1994 AT	1994 01 07.57840	07 16 12.18	+23 01 45.6		411	1994 AF <sub>1</sub>	1994 01 09.53026	07 17 54.84	+27 23 59.2		411
1994 AT	1994 01 07.58483	07 16 11.75	+23 01 47.4		411	1994 AG <sub>1</sub>	* 1994 01 07.64483	08 39 51.37	+12 06 30.7	17	411
1994 AT	1994 01 07.59175	07 16 11.22	+23 01 48.8		411	1994 AG <sub>1</sub>	1994 01 07.65840	08 39 50.70	+12 06 33.2		411
1994 AU	* 1994 01 04.68155	07 23 16.19	+26 47 39.4	17	411	1994 AG <sub>1</sub>	1994 01 09.61380	08 38 23.65	+12 14 15.6		411
1994 AU	1994 01 04.68848	07 23 15.80	+26 47 41.5		411	1994 AG <sub>1</sub>	1994 01 09.61702	08 38 23.50	+12 14 16.5		411
1994 AU	1994 01 04.69171	07 23 15.58	+26 47 41.7		411	1994 AG <sub>1</sub>	1994 01 09.62344	08 38 23.09	+12 14 16.8		411
1994 AU	1994 01 07.58829	07 20 03.65	+26 55 45.4		411	1994 AH <sub>1</sub>	* 1994 01 07.65155	08 40 41.15	+14 10 29.1	16	411
1994 AU	1994 01 07.59520	07 20 03.10	+26 55 47.4		411	1994 AH <sub>1</sub>	1994 01 07.66512	08 40 40.41	+14 10 29.6		411
1994 AU	1994 01 07.59843	07 20 02.83	+26 55 47.3		411	1994 AH <sub>1</sub>	1994 01 08.56886	08 39 52.38	+14 11 16.2		411
1994 AV	* 1994 01 04.70166	07 59 57.84	+15 45 20.4	16.5	411	1994 AH <sub>1</sub>	1994 01 08.57207	08 39 52.22	+14 11 16.7		411
1994 AV	1994 01 04.71524	07 59 57.31	+15 45 24.1		411	1994 AH <sub>1</sub>	1994 01 08.57849	08 39 51.86	+14 11 16.9		411
1994 AV	1994 01 07.60230	07 57 45.54	+15 58 09.3		411	1994 AJ <sub>1</sub>	* 1994 01 07.68308	08 41 41.58	+14 44 50.6	17.5	411
1994 AV	1994 01 07.60554	07 57 45.34	+15 58 10.9		411	1994 AJ <sub>1</sub>	1994 01 07.69664	08 41 40.90	+14 44 52.0		411
1994 AV	1994 01 07.61237	07 57 45.06	+15 58 13.3		411	1994 AJ <sub>1</sub>	1994 01 09.62709	08 40 06.44	+14 44 05.0		411
1994 AW	* 1994 01 04.73991	08 02 29.94	+18 39 07.1	17	411	1994 AJ <sub>1</sub>	1994 01 09.63030	08 40 06.23	+14 44 03.2		411
1994 AW	1994 01 04.75348	08 02 29.19	+18 39 08.0		411	1994 AJ <sub>1</sub>	1994 01 09.63672	08 40 05.87	+14 44 04.5		411
1994 AW	1994 01 07.60895	07 59 46.90	+18 47 29.0		411	1994 AE <sub>2</sub>	* 1994 01 09.64578	08 30 08.13	+21 26 55.6	17	411
1994 AW	1994 01 07.61579	07 59 46.45	+18 47 30.0		411	1994 AE <sub>2</sub>	1994 01 09.65932	08 30 07.37	+21 27 02.1		411
1994 AW	1994 01 07.61901	07 59 46.28	+18 47 31.5		411	1994 AE <sub>2</sub>	1994 01 14.56179	08 25 16.31	+22 07 18.9		411
1994 AX	* 1994 01 04.76250	08 06 09.10	+16 32 32.4	17	411	1994 AE <sub>2</sub>	1994 01 14.56502	08 25 16.14	+22 07 20.9		411
1994 AX	1994 01 04.77607	08 06 08.31	+16 32 33.5		411	1994 AE <sub>2</sub>	1994 01 14.57182	08 25 15.72	+22 07 24.4		411
1994 AX	1994 01 07.62889	08 03 13.58	+16 40 36.7		411	1994 AF <sub>2</sub>	* 1994 01 09.65246	08 30 10.41	+23 49 26.6	17	411

1994 AF <sub>2</sub>	1994 01 09.66604	08 30 09.79	+23 49 32.6	411	1994 AB <sub>3</sub>	1994 01 16.74975	09 13 15.53	+19 04 38.0	411
1994 AF <sub>2</sub>	1994 01 14.56842	08 26 17.82	+24 24 31.0	411	1994 AB <sub>3</sub>	1994 01 16.75621	09 13 15.20	+19 04 42.0	411
1994 AF <sub>2</sub>	1994 01 14.57523	08 26 17.51	+24 24 34.0	411	1994 AC <sub>3</sub>	* 1994 01 14.68895	09 18 32.89	+16 35 16.1	17 411
1994 AF <sub>2</sub>	1994 01 14.57842	08 26 17.32	+24 24 34.8	411	1994 AC <sub>3</sub>	1994 01 14.70251	09 18 32.28	+16 35 17.4	411
1994 AN <sub>2</sub>	* 1994 01 09.67057	08 32 31.86	+20 17 03.0	17.5 411	1994 AC <sub>3</sub>	1994 01 16.77539	09 17 08.66	+16 41 52.7	411
1994 AN <sub>2</sub>	1994 01 09.68414	08 32 30.99	+20 17 03.2	411	1994 AC <sub>3</sub>	1994 01 16.77859	09 17 08.43	+16 41 52.9	411
1994 AN <sub>2</sub>	1994 01 14.58833	08 27 12.90	+20 19 56.7	17 411	1994 AC <sub>3</sub>	1994 01 16.78506	09 17 08.14	+16 41 54.9	411
1994 AN <sub>2</sub>	1994 01 14.59514	08 27 12.53	+20 19 57.5	411	<b>413 Siding Spring</b>				
1994 AN <sub>2</sub>	1994 01 14.59836	08 27 12.32	+20 19 56.9	411	R. H. McNaught, Siding Spring Observatory, Coonabarabran, N.S.W. 2357,				
1994 AN <sub>2</sub>	1994 01 15.59157	08 26 05.09	+20 20 33.3	411	Australia				
1994 AN <sub>2</sub>	1994 01 15.59480	08 26 04.87	+20 20 31.7	411	Observers J. Barton, P. Cass, M. J. Drinkwater, G. J. Garradd, M. Hartley,				
1994 AN <sub>2</sub>	1994 01 15.60153	08 26 04.37	+20 20 33.2	411	P. McKenzie, R. H. McNaught, K. S. Russell, A. Savage, M. E. Sims				
1994 AO <sub>2</sub>	* 1994 01 09.70436	08 35 49.42	+21 43 17.9	17 411	Measurers R. H. McNaught, G. J. Garradd				
1994 AO <sub>2</sub>	1994 01 09.71794	08 35 48.48	+21 43 16.8	411	Uppsala Southern Schmidt, U.K. Schmidt, 1.0-m reflector + CCD, 0.61-m reflector				
1994 AO <sub>2</sub>	1994 01 14.60173	08 30 29.11	+21 35 09.4	17 411	+ CCD				
1994 AO <sub>2</sub>	1994 01 14.60495	08 30 28.85	+21 35 08.6	411	1987 UW	1979 12 20.62685	07 06 14.80	-24 09 14.7	F 413
1994 AO <sub>2</sub>	1994 01 14.61171	08 30 28.36	+21 35 07.0	411	1987 UW	1979 12 20.66505	07 06 12.61	-24 09 30.9	I 413
1994 AO <sub>2</sub>	1994 01 15.59817	08 29 21.75	+21 33 24.8	411	1988 YZ	* 1988 12 30.44932	04 01 51.17	-07 00 26.9	18 V F 413
1994 AO <sub>2</sub>	1994 01 15.60489	08 29 21.27	+21 33 24.0	411	1988 YZ	1988 12 30.49793	04 01 48.92	-06 59 29.4	F 413
1994 AO <sub>2</sub>	1994 01 15.60811	08 29 21.00	+21 33 23.6	411	1989 RC <sub>1</sub>	1993 09 26.78478	05 23 10.34	+04 28 51.8	413
1994 AQ <sub>2</sub>	* 1994 01 14.58833	08 26 55.28	+20 11 32.4	17.5 411	1989 RC <sub>1</sub>	1993 09 26.78593	05 23 10.40	+04 28 51.7	413
1994 AQ <sub>2</sub>	1994 01 14.59514	08 26 54.83	+20 11 34.7	411	1990 UH <sub>1</sub>	1993 07 31.62774	18 02 36.78	-27 05 22.4	413
1994 AQ <sub>2</sub>	1994 01 14.59836	08 26 54.70	+20 11 37.0	411	1990 UH <sub>1</sub>	1993 07 31.63464	18 02 36.59	-27 05 23.0	I 413
1994 AQ <sub>2</sub>	1994 01 15.59157	08 26 01.93	+20 15 49.7	411	1990 UH <sub>1</sub>	1993 09 26.46172	18 18 19.35	-28 32 31.2	413
1994 AQ <sub>2</sub>	1994 01 15.59480	08 26 01.82	+20 15 51.4	411	1992 BB	1993 09 26.60208	23 41 59.82	+18 42 11.5	413
1994 AQ <sub>2</sub>	1994 01 15.60153	08 26 01.37	+20 15 52.8	411	1992 BB	1993 09 26.60405	23 41 59.74	+18 42 08.0	413
1994 AR <sub>2</sub>	* 1994 01 14.58833	08 27 38.89	+20 30 24.0	17 411	1993 SG <sub>1</sub>	1993 09 26.49155	00 17 01.75	-03 03 37.9	413
1994 AR <sub>2</sub>	1994 01 14.59514	08 27 38.48	+20 30 27.3	411	1993 SG <sub>1</sub>	1993 09 26.49780	00 17 01.56	-03 03 44.6	413
1994 AR <sub>2</sub>	1994 01 14.59836	08 27 38.32	+20 30 28.0	411	1993 SG <sub>1</sub>	1993 11 06.42778	00 11 50.80	-10 37 24.7	16 V 413
1994 AR <sub>2</sub>	1994 01 15.59157	08 26 36.27	+20 34 17.9	411	1993 SG <sub>1</sub>	1993 12 17.47899	00 47 02.89	-08 16 36.4	413
1994 AR <sub>2</sub>	1994 01 15.59480	08 26 35.95	+20 34 20.2	411	1993 SS <sub>2</sub>	1993 10 23.48686	00 46 13.06	-05 45 04.6	413
1994 AR <sub>2</sub>	1994 01 15.60153	08 26 35.58	+20 34 21.0	411	1993 SS <sub>2</sub>	1993 10 23.54936	00 46 09.82	-05 45 12.8	413
1994 AS <sub>2</sub>	* 1994 01 14.60173	08 30 32.19	+21 39 23.9	17 411	1993 SW <sub>3</sub>	1993 10 23.48686	00 40 47.91	-03 43 06.0	413
1994 AS <sub>2</sub>	1994 01 14.60495	08 30 31.98	+21 39 24.7	411	1993 SW <sub>3</sub>	1993 10 23.54936	00 40 44.89	-03 42 55.6	413
1994 AS <sub>2</sub>	1994 01 14.61171	08 30 31.50	+21 39 24.7	411	1993 SW <sub>3</sub>	1993 11 07.45825	00 33 18.38	-02 40 12.3	413
1994 AS <sub>2</sub>	1994 01 15.59817	08 29 26.40	+21 42 48.0	411	1993 SW <sub>3</sub>	1993 11 07.49297	00 33 17.81	-02 40 01.1	413
1994 AS <sub>2</sub>	1994 01 15.60489	08 29 25.80	+21 42 49.2	411	1993 TA	1993 10 25.73186	01 14 31.76	-35 00 35.9	413
1994 AS <sub>2</sub>	1994 01 15.60811	08 29 25.68	+21 42 50.5	411	1993 TA	1993 12 17.54167	01 33 07.04	-33 24 01.7	413
1994 AT <sub>2</sub>	* 1994 01 14.62840	08 35 00.34	+12 58 33.7	17.5 411	1993 UB	1993 11 06.51425	00 13 28.67	+10 51 40.5	413
1994 AT <sub>2</sub>	1994 01 14.63510	08 35 00.04	+12 58 33.9	411	1993 UC	1993 12 16.54132	00 12 45.06	-35 21 49.0	413
1994 AT <sub>2</sub>	1994 01 14.64190	08 34 59.73	+12 58 33.7	411	1993 UC	1993 12 17.46076	00 13 21.36	-35 20 06.2	413
1994 AT <sub>2</sub>	1994 01 15.63848	08 34 06.24	+13 00 22.1	411	1993 UZ <sub>2</sub>	1993 12 11.58035	01 56 17.11	-19 13 45.7	413
1994 AT <sub>2</sub>	1994 01 15.64170	08 34 06.05	+13 00 22.6	411	1993 VB	1993 12 17.43955	23 39 20.54	-49 51 54.3	413
1994 AT <sub>2</sub>	1994 01 15.64851	08 34 05.63	+13 00 22.9	411	1993 VB	1993 12 17.44649	23 39 17.87	-49 52 28.1	413
1994 AA <sub>3</sub>	* 1994 01 14.66186	09 14 27.43	+17 21 25.9	17 411	1993 VB	1993 12 19.45886	23 24 38.60	-52 45 09.8	413
1994 AA <sub>3</sub>	1994 01 14.67545	09 14 26.59	+17 21 24.5	411	1993 VB	1993 12 19.46316	23 24 36.41	-52 45 30.9	413
1994 AA <sub>3</sub>	1994 01 16.76111	09 12 28.22	+17 21 30.5	411	1993 VB	1993 12 19.46559	23 24 35.11	-52 45 43.2	413
1994 AA <sub>3</sub>	1994 01 16.76433	09 12 28.12	+17 21 31.2	411	1993 VB	1993 12 19.47753	23 24 28.89	-52 46 42.9	413
1994 AA <sub>3</sub>	1994 01 16.77080	09 12 27.73	+17 21 31.0	411	1993 VB	1993 12 19.48289	23 24 26.17	-52 47 10.2	413
1994 AB <sub>3</sub>	* 1994 01 14.66634	09 15 00.34	+18 44 32.7	16.5 411	1993 VB	1993 12 19.48494	23 24 25.06	-52 47 21.1	413
1994 AB <sub>3</sub>	1994 01 14.67992	09 14 59.62	+18 44 39.7	411	1993 VB	1993 12 19.48669	23 24 24.14	-52 47 29.2	413
1994 AB <sub>3</sub>	1994 01 16.74651	09 13 15.69	+19 04 36.1	411	1993 VB	1993 12 19.49016	23 24 22.40	-52 47 47.2	413

1993 VW	1993 12 17.55119	01 46 41.76	+01 20 09.7		413	1994 AG <sub>2</sub>	1994 01 16.45948	03 10 26.82	+02 32 09.9		413
1993 VL <sub>1</sub>	1993 11 06.54103	00 56 35.09	-28 54 37.1		413	1994 AH <sub>2</sub>	* 1994 01 05.44655	03 12 26.88	+01 02 00.4	18 V	413
1993 VL <sub>1</sub>	1993 11 09.49178	00 55 03.30	-28 21 06.8		413	1994 AH <sub>2</sub>	1994 01 05.48822	03 12 24.23	+01 02 08.2		413
1993 VL <sub>1</sub>	1993 11 09.53692	00 55 01.77	-28 20 34.0		413	1994 AH <sub>2</sub>	1994 01 07.52873	03 10 26.39	+01 07 13.2	F	413
1993 VM <sub>1</sub>	1993 11 06.56933	04 38 28.51	-23 14 14.4		413	1994 AH <sub>2</sub>	1994 01 16.45948	03 04 07.41	+01 43 51.2		413
1993 VM <sub>1</sub>	1993 11 29.48785	04 20 35.44	-28 13 14.6		413	<b>474 Mount John</b>					
1993 VM <sub>1</sub>	1993 12 16.60098	04 06 51.06	-27 36 08.3		413	A. C. Gilmore, P.O. Box 57, Lake Tekapo, New Zealand					
1993 VT <sub>2</sub>	1993 12 11.47998	00 09 23.12	-27 02 37.2		413	Observer A. C. Gilmore					
1993 VB <sub>5</sub>	* 1993 11 04.40897	00 37 49.71	-30 29 38.7	16 V	413	Measurer P. M. Kilmartin					
1993 VB <sub>5</sub>	1993 11 04.45064	00 37 48.95	-30 29 41.6		413	0.6-m <i>f</i> /14 Cassegrain reflector					
1993 VB <sub>5</sub>	1993 11 05.58226	00 37 36.00	-30 30 08.6		413	SAOC, CPZ, field plates from Carter Observatory					
1993 VB <sub>5</sub>	1993 12 11.53553	00 53 28.19	-26 04 07.5		413	1989 RC <sub>1</sub>	1993 11 13.59995	05 36 57.68	+03 17 39.4		474
1993 VC <sub>5</sub>	* 1993 11 04.40897	00 58 44.57	-28 21 27.8	16 V	413	1989 RC <sub>1</sub>	1993 11 13.61726	05 36 56.96	+03 17 41.5		474
1993 VC <sub>5</sub>	1993 11 04.45064	00 58 44.44	-28 21 43.9		413	1989 RC <sub>1</sub>	1993 11 14.59440	05 36 16.94	+03 19 50.8		474
1993 VC <sub>5</sub>	1993 11 05.60475	00 58 46.99	-28 28 44.2		413	1989 RC <sub>1</sub>	1993 11 14.61072	05 36 16.20	+03 19 53.3		474
1993 VC <sub>5</sub>	1993 11 06.54103	00 58 51.64	-28 33 44.7		413	1993 UC	1994 01 11.44688	00 42 44.17	-33 20 48.3		474
1993 VC <sub>5</sub>	1993 11 09.51435	00 59 16.43	-28 45 37.7		413	1993 UC	1994 01 11.46007	00 42 45.43	-33 20 41.7		474
1993 VC <sub>5</sub>	1993 12 11.56159	01 22 09.21	-25 41 55.5	17.5 V	F 413	1993 UC	1994 01 12.45347	00 44 21.78	-33 13 16.1		474
1993 VC <sub>5</sub>	1994 01 07.47153	02 02 35.63	-18 31 57.6		413	1993 UC	1994 01 12.47164	00 44 23.48	-33 13 07.4		474
1993 VM <sub>5</sub>	* 1993 11 06.41042	00 08 13.36	-11 33 46.7	16.5 V	413	1993 VA	1993 11 13.52368	00 57 50.88	-85 57 38.1		474
1993 VM <sub>5</sub>	1993 11 06.44514	00 08 12.48	-11 33 34.2		413	1993 VA	1993 11 13.53271	00 57 31.98	-85 58 43.0		474
1993 VM <sub>5</sub>	1993 11 11.48532	00 06 26.40	-10 57 41.8		413	1993 VA	1993 11 13.63479	00 53 50.11	-86 10 51.2		474
1993 VM <sub>5</sub>	1993 12 11.50417	00 09 06.46	-06 21 20.3		413	1993 VA	1993 11 13.64069	00 53 37.40	-86 11 33.1		474
1993 VM <sub>5</sub>	1993 12 16.55110	00 11 34.64	-05 27 13.9		413	1993 VA	1993 11 14.42056	00 06 44.14	-87 45 41.6		474
1993 VT <sub>7</sub>	* 1993 11 04.40897	00 46 02.92	-29 29 03.3	18 V	413	1993 VA	1993 11 14.42611	00 06 07.00	-87 46 18.8		474
1993 VT <sub>7</sub>	1993 11 04.45064	00 46 01.52	-29 28 52.5		413	1993 VA	1993 11 14.62889	23 39 38.04	-88 07 51.9		474
1993 VT <sub>7</sub>	1993 11 09.49178	00 43 51.28	-29 02 35.2	18 V	413	1993 VA	1993 11 14.63340	23 38 57.32	-88 08 19.8		474
1993 VT <sub>7</sub>	1993 11 09.53692	00 43 50.05	-29 02 18.8		b 413	1993 VA	1993 11 16.51118	15 29 32.83	-87 14 24.0		474
1993 VU <sub>7</sub>	1993 10 08.57495	01 03 06.24	-30 41 26.4	17 V	413	1993 VA	1993 11 16.51639	15 29 13.39	-87 13 46.3		474
1993 VU <sub>7</sub>	1993 10 08.60273	01 03 05.14	-30 41 36.3		413	<b>494 Stakenbridge</b>					
1993 VU <sub>7</sub>	* 1993 11 04.40897	00 49 37.99	-30 51 12.1	17 V	413	B. G. W. Manning, Moonrakers, Stakenbridge, Churchill, Kidderminster, Worcs.					
1993 VU <sub>7</sub>	1993 11 04.45064	00 49 37.18	-30 50 58.8		413	DY10 3LS, England					
1993 VU <sub>7</sub>	1993 11 05.59311	00 49 20.89	-30 44 19.7		413	0.2-m reflector + CCD					
1993 VU <sub>7</sub>	1993 11 06.52522	00 49 09.58	-30 38 32.0		413	PPM					
1993 VU <sub>7</sub>	1993 11 09.49178	00 48 42.32	-30 17 56.2	17.5 V	413	1989 UB <sub>3</sub>	1993 11 14.93339	01 12 24.04	+02 47 02.1		494
1993 VU <sub>7</sub>	1993 11 09.53692	00 48 41.79	-30 17 35.0		b 413	1989 UB <sub>3</sub>	1993 11 14.94113	01 12 23.74	+02 47 02.5		494
1993 VV <sub>7</sub>	* 1993 11 10.60956	04 06 34.97	-39 00 06.3	16.5 V	V 413	1994 AM <sub>1</sub>	* 1994 01 02.94178	06 28 26.84	+22 15 05.9		494
1993 VV <sub>7</sub>	1993 11 10.65123	04 06 31.56	-38 59 41.2		V 413	1994 AM <sub>1</sub>	1994 01 02.97254	06 28 24.64	+22 15 01.3		494
1993 VV <sub>7</sub>	1993 11 10.66394	04 06 30.59	-38 59 36.0		b 413	1994 AM <sub>1</sub>	1994 01 06.93704	06 24 01.87	+22 05 00.3		494
1993 VV <sub>7</sub>	1993 11 29.47604	03 44 45.40	-34 38 02.5	16 V	413	<b>540 Linz</b>					
1993 VV <sub>7</sub>	1993 12 08.49149	03 35 59.85	-31 04 41.3		413	E. Meyer, F. Marklstrasse 1/62, A-4040 Linz, Austria					
1993 VV <sub>7</sub>	1993 12 08.50538	03 35 59.10	-31 04 19.0		413	Observers E. Meyer, E. Obermair, H. Raab					
1993 VV <sub>7</sub>	1993 12 16.59093	03 30 15.40	-27 13 45.4		413	0.30-m <i>f</i> /5.2 Schmidt Cassegrain + CCD					
1993 YP	* 1993 12 17.58951	05 46 01.78	-26 15 52.6	17.5 V	F 413	GSC					
1993 YP	1993 12 17.64160	05 45 57.72	-26 15 19.3		F 413	1993 UH	1993 12 04.75095	01 26 32.96	+08 47 14.0	18.1 R	540
1993 YP	1993 12 18.71330	05 44 39.16	-26 03 28.3		413	1993 UH	1993 12 04.81929	01 26 33.41	+08 46 32.2		540
1993 YP	1993 12 18.71649	05 44 38.91	-26 03 25.9		413	1993 UH	1993 12 04.83388	01 26 33.60	+08 46 23.7		540
1993 YP	1993 12 18.71811	05 44 38.78	-26 03 24.6		413	1993 WD	1993 11 26.85101	00 33 31.92	+30 59 09.8	14.8 R	540
1994 AK <sub>1</sub>	1994 01 18.52743	06 46 21.57	+27 43 45.0		413	1993 WD	1993 11 26.85269	00 33 30.09	+30 59 17.6	14.8 R	540
1994 AG <sub>2</sub>	* 1994 01 05.44655	03 06 46.58	+00 47 03.4	16 V	413	1993 WD	1993 11 26.85929	00 33 22.37	+30 59 51.8	14.8 R	540
1994 AG <sub>2</sub>	1994 01 05.48822	03 06 46.86	+00 47 26.0		413						
1994 AG <sub>2</sub>	1994 01 07.52873	03 07 13.04	+01 06 06.1		413						

1993 WD	1993 11 26.86056	00 33 20.85	+30 59 58.9	14.8 R	540
1993 WD	1993 11 26.86142	00 33 19.80	+31 00 01.0	14.9 R	540
1993 WD	1993 11 30.70241	23 31 26.67	+34 29 14.0	15.9 R	540
1993 WD	1993 11 30.70366	23 31 25.62	+34 29 16.5	15.9 R	540
1993 WD	1993 11 30.70456	23 31 24.94	+34 29 18.2	15.7 R	540
1993 WD	1993 11 30.70550	23 31 24.20	+34 29 20.6	15.7 R	540
1993 WD	1993 12 04.71303	22 47 53.32	+35 45 35.2	16.5 R	540
1993 WD	1993 12 04.71466	22 47 52.52	+35 45 37.0	16.5 R	540
1993 WD	1993 12 04.71591	22 47 51.77	+35 45 38.4	16.6 R	540
1993 WD	1993 12 04.71725	22 47 51.11	+35 45 37.8	16.6 R	540
1993 WD	1993 12 06.80200	22 31 23.86	+36 00 43.7	17.1 R	540
1993 WD	1993 12 06.80439	22 31 22.83	+36 00 42.5	16.8 R	540
1993 WD	1993 12 06.80670	22 31 21.75	+36 00 42.6	16.7 R	540
1993 WD	1993 12 06.80889	22 31 20.94	+36 00 45.0	16.6 R	540

**557 Ondřejov**

P. Pravec, Astronomical Institute, Czech Academy of Sciences, CZ-25165 Ondřejov, Czech Republic

Observers P. Pravec, M. Wolf  
 Measurer P. Pravec, A. R. Klemola  
 0.65-m  $f/3.6$  reflector + CCD  
 ACRS, GSC

1993 WD	1993 12 05.70764	22 39 36.76	+35 54 05.4		557
1993 WD	1993 12 05.71103	22 39 35.13	+35 54 06.9		557
1993 WD	1993 12 05.71191	22 39 34.71	+35 54 07.2	16.5 V	557
1993 WD	1993 12 05.71278	22 39 34.28	+35 54 07.6		557
1993 WD	1993 12 11.89552	22 02 40.04	+36 11 23.4	17.3 V	557
1993 WD	1993 12 11.89747	22 02 39.51	+36 11 23.3		557
1993 WD	1993 12 11.89941	22 02 38.98	+36 11 23.2		557
1993 WD	1993 12 11.90135	22 02 38.48	+36 11 23.1		557
1993 WD	1993 12 15.71094	21 48 02.76	+36 10 53.0	17.8 V	557
1993 WD	1993 12 15.71483	21 48 01.96	+36 10 52.9		557
1993 WD	1993 12 15.72647	21 47 59.59	+36 10 52.1	17.7 V	557
1993 WD	1993 12 15.73036	21 47 58.80	+36 10 51.9		557
1994 AW <sub>1</sub>	1994 01 14.77571	07 16 33.67	+13 40 56.3		557
1994 AW <sub>1</sub>	1994 01 14.77663	07 16 33.38	+13 40 50.9		557
1994 AW <sub>1</sub>	1994 01 14.78118	07 16 31.95	+13 40 23.6		557
1994 AW <sub>1</sub>	1994 01 14.84648	07 16 11.38	+13 33 53.2		557
1994 AW <sub>1</sub>	1994 01 14.84822	07 16 10.86	+13 33 43.4		557
1994 AW <sub>1</sub>	1994 01 19.83455	06 53 14.90	+05 45 49.0		557
1994 AW <sub>1</sub>	1994 01 19.83579	06 53 14.60	+05 45 42.6		557
1994 AW <sub>1</sub>	1994 01 20.01252	06 52 29.53	+05 30 31.5		557
1994 AW <sub>1</sub>	1994 01 20.01389	06 52 29.18	+05 30 24.2		557
1994 AW <sub>1</sub>	1994 01 20.01527	06 52 28.84	+05 30 17.3		557

**560 Madonna di Dossobuono**

L. Lai, Via Mantovana 130e, I-37062 Dossobuono (Verona), Italy  
 Observers L. Lai, I. Rocchetti, G. Vesentini

0.40-m  $f/3.5$  reflector + CCD  
 GSC

1991 EA	1993 11 17.93021	02 21 03.73	+23 07 00.3	17.0	560
1991 EA	1993 11 17.93808	02 21 03.38	+23 06 58.0		560

1991 EA	1993 11 17.94566	02 21 03.05	+23 06 56.1		560
1991 EA	1993 11 17.96664	02 21 01.66	+23 06 50.7		560

**568 Mauna Kea Observatory**

D. Jewitt, Institute for Astronomy, 2680 Woodlawn Drive, Honolulu, HI 96822, U.S.A.

Observers D. Jewitt, J. Chen

2.2-m reflector + CCD

GSC

1992 QB <sub>1</sub>	1994 01 14.2206	00 01 35.81	+00 16 09.0		568
1992 QB <sub>1</sub>	1994 01 14.2549	00 01 35.91	+00 16 09.6		568

**587 Sormano**

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

Observers P. Sicoli, E. Colzani, C. Gualdoni, M. Cavagna, A. Testa, V. Giuliani, G. Ventre

0.5-m reflector + CCD

PPM, GSC

1993 YN <sub>2</sub>	* 1993 12 18.89375	05 35 55.59	+22 12 51.1	17 V	587
1993 YN <sub>2</sub>	1993 12 19.00799	05 35 48.07	+22 12 32.3		587
1993 YN <sub>2</sub>	1993 12 22.87581	05 31 47.27	+22 01 43.9		587
1993 YN <sub>2</sub>	1993 12 22.92604	05 31 43.76	+22 01 32.4		587
1994 AD <sub>3</sub>	* 1994 01 14.96399	05 12 31.98	+21 03 59.0	17.5 V	587
1994 AD <sub>3</sub>	1994 01 15.00458	05 12 31.30	+21 04 04.9		587
1994 AD <sub>3</sub>	1994 01 16.89865	05 12 09.82	+21 10 45.7		587
1994 AD <sub>3</sub>	1994 01 16.90843	05 12 09.63	+21 10 49.6		587
1994 AD <sub>3</sub>	1994 01 16.97162	05 12 08.78	+21 11 00.9		587
1994 AD <sub>3</sub>	1994 01 18.90804	05 11 56.31	+21 17 52.3		587
1994 AD <sub>3</sub>	1994 01 18.94149	05 11 56.05	+21 17 59.9		587

**589 Santa Lucia Stroncone**

A. Vagnozzi, Via Santa Lucia 68, I-05039 Stroncone (Terni), Italy

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

0.50-m  $f/2.8$  Ritchey-Chrétien + CCD

GSC

1993 RB	1993 12 12.77575	23 35 17.11	+04 40 43.7	19.0 V	589
1993 RB	1993 12 12.84840	23 35 20.96	+04 41 07.5		589
1993 RB	1993 12 12.85849	23 35 21.54	+04 41 10.1		589
1993 RC	1993 11 09.85472	23 36 27.20	-03 25 31.6		589
1993 RC	1993 11 09.87069	23 36 27.35	-03 25 35.4		589
1993 RC	1993 11 10.85764	23 36 35.13	-03 29 38.2		589
1993 RC	1993 11 10.87264	23 36 35.23	-03 29 40.9		589
1993 SD	1993 11 11.73125	23 32 38.26	-01 36 37.5		589
1993 SD	1993 11 11.75903	23 32 38.50	-01 36 41.5		589
1993 SE	1993 11 17.72062	23 19 57.19	+01 21 17.6		589
1993 SE	1993 11 17.75187	23 19 57.49	+01 21 17.5		589
1993 SE	1993 11 17.79896	23 19 57.93	+01 21 17.3		589
1993 SE	1993 11 17.84014	23 19 58.31	+01 21 17.1		589
1993 SF	1993 11 13.74194	23 21 01.30	+01 42 28.2		589
1993 SF	1993 11 13.78174	23 21 01.88	+01 42 29.6		589
1993 SF	1993 11 13.85826	23 21 02.90	+01 42 32.4		589
1993 SG	1993 12 18.77040	00 56 18.28	+12 21 13.8		589
1993 SG	1993 12 18.78833	00 56 19.36	+12 21 18.4		589

1993 SG	1993 12 18.80039	00 56 20.08	+12 21 22.3	589	1993 YQ	1994 01 12.00082	07 40 22.29	+24 02 04.7	589
1993 SG	1993 12 18.81413	00 56 20.92	+12 21 26.7	589	1993 YQ	1994 01 12.01163	07 40 21.66	+24 02 06.4	589
1993 SG	1993 12 18.83472	00 56 22.11	+12 21 33.0	589	1993 YQ	1994 01 12.02234	07 40 21.06	+24 02 08.5	589
1993 SN <sub>2</sub>	1993 11 13.87472	23 32 43.47	+00 02 51.4	589	1993 YQ	1994 01 12.92623	07 39 30.95	+24 04 34.5	589
1993 SN <sub>2</sub>	1993 11 13.88986	23 32 43.81	+00 02 51.5	589	1993 YQ	1994 01 12.93551	07 39 30.45	+24 04 36.1	589
1993 SN <sub>2</sub>	1993 11 13.90083	23 32 43.95	+00 02 51.5	589	1993 YQ	1994 01 15.82150	07 36 50.61	+24 12 06.1	589
1993 XA	* 1993 12 04.89692	06 59 51.36	+22 59 31.0	18.0 V 589	1993 YQ	1994 01 15.83180	07 36 50.06	+24 12 07.6	589
1993 XA	1993 12 04.90961	06 59 50.77	+22 59 33.3	589	1993 YQ	1994 01 15.86131	07 36 48.36	+24 12 12.8	589
1993 XA	1993 12 04.92397	06 59 50.14	+22 59 35.7	589	1993 YU	* 1993 12 18.80039	00 56 42.46	+12 23 19.6	18.0 V 589
1993 XA	1993 12 04.94101	06 59 49.33	+22 59 38.2	589	1993 YU	1993 12 18.80726	00 56 42.72	+12 23 18.6	589
1993 XA	1993 12 04.95939	06 59 48.48	+22 59 41.2	589	1993 YU	1993 12 18.81413	00 56 43.01	+12 23 17.9	589
1993 XA	1993 12 05.90087	06 59 06.00	+23 02 09.7	589	1993 YU	1993 12 18.82099	00 56 43.24	+12 23 17.9	589
1993 XA	1993 12 05.91698	06 59 05.21	+23 02 12.5	589	1993 YU	1993 12 18.82786	00 56 43.48	+12 23 16.4	589
1993 XA	1993 12 06.85802	06 58 21.37	+23 04 43.9	I 589	1993 YU	1993 12 18.83472	00 56 43.78	+12 23 16.2	589
1993 XA	1993 12 06.87035	06 58 20.86	+23 04 45.4	I 589	1993 YU	1993 12 27.87443	01 03 16.20	+12 17 19.0	589
1993 XA	1993 12 06.92399	06 58 18.09	+23 04 54.8	17.5 V 589	1993 YU	1993 12 27.88971	01 03 16.99	+12 17 18.5	589
1993 XA	1993 12 06.94087	06 58 17.26	+23 04 57.5	589	1993 YU	1993 12 27.90249	01 03 17.58	+12 17 18.5	589
1993 XA	1993 12 06.95936	06 58 16.34	+23 05 00.5	589	1993 YU	1994 01 05.73007	01 11 03.59	+12 23 58.0	589
1993 XA	1993 12 09.92678	06 55 48.59	+23 13 05.0	589	1993 YU	1994 01 05.74142	01 11 04.21	+12 23 58.4	589
1993 XA	1993 12 09.93766	06 55 47.96	+23 13 06.6	589	1993 YU	1994 01 07.88380	01 13 08.05	+12 27 12.7	18.4 V 589
1993 XA	1993 12 12.89139	06 53 08.89	+23 21 16.1	589	1993 YU	1994 01 07.89719	01 13 08.86	+12 27 15.6	589
1993 XA	1993 12 12.90097	06 53 08.34	+23 21 18.4	589	1993 YU	1994 01 12.81888	01 18 08.44	+12 36 54.5	589
1993 XA	1993 12 12.92761	06 53 06.82	+23 21 22.5	589	1993 YU	1994 01 12.82927	01 18 09.13	+12 36 56.3	589
1993 XA	1993 12 17.98260	06 48 11.07	+23 35 23.2	589	1993 YU	1994 01 13.78243	01 19 09.48	+12 39 07.9	589
1993 XA	1993 12 17.99846	06 48 10.06	+23 35 25.8	589	1993 YU	1994 01 13.82888	01 19 12.32	+12 39 14.8	589
1993 XA	1993 12 18.01340	06 48 09.15	+23 35 28.4	589	1993 YU	1994 01 15.76296	01 21 16.96	+12 44 02.1	589
1993 XA	1993 12 18.92687	06 47 13.31	+23 37 59.0	589	1993 YU	1994 01 15.77368	01 21 17.65	+12 44 03.6	589
1993 XA	1993 12 18.93844	06 47 12.59	+23 38 00.4	589	1994 AN	1994 01 05.77449	04 47 44.12	+10 03 57.5	589
1993 XA	1993 12 22.79142	06 43 10.45	+23 48 24.0	589	1994 AN	1994 01 05.78348	04 47 43.85	+10 03 57.7	589
1993 XA	1993 12 22.80216	06 43 09.75	+23 48 25.0	589	1994 AN	1994 01 05.79012	04 47 43.62	+10 03 57.7	589
1993 XA	1994 01 07.96381	06 25 53.97	+24 26 03.4	589	1994 AN	1994 01 05.79685	04 47 43.41	+10 03 57.8	589
1993 XA	1994 01 07.98189	06 25 52.79	+24 26 04.6	589	1994 AN	1994 01 11.89068	04 44 49.48	+10 06 46.5	589
1993 XA	1994 01 07.99308	06 25 52.16	+24 26 06.8	589	1994 AN	1994 01 11.90028	04 44 49.22	+10 06 47.3	589
1993 XA	1994 01 12.85457	06 21 08.29	+24 34 53.9	589	1994 AN	1994 01 11.91340	04 44 48.82	+10 06 49.3	589
1993 XA	1994 01 12.86241	06 21 07.86	+24 34 53.7	589	1994 AJ <sub>2</sub>	* 1994 01 12.89727	07 39 08.03	+23 55 12.7	19.0 V 589
1993 XA	1994 01 12.87271	06 21 07.24	+24 34 54.5	589	1994 AJ <sub>2</sub>	1994 01 12.90649	07 39 07.41	+23 55 13.2	589
1993 YQ	* 1993 12 18.97543	07 59 51.53	+22 51 37.4	18.0 V 589	1994 AJ <sub>2</sub>	1994 01 12.91551	07 39 06.81	+23 55 14.0	I 589
1993 YQ	1993 12 18.98584	07 59 51.19	+22 51 39.4	589	1994 AJ <sub>2</sub>	1994 01 13.84849	07 38 09.92	+23 56 21.3	589
1993 YQ	1993 12 18.99663	07 59 50.73	+22 51 39.4	589	1994 AJ <sub>2</sub>	1994 01 13.86318	07 38 09.06	+23 56 23.1	589
1993 YQ	1993 12 19.00707	07 59 50.41	+22 51 42.3	589	1994 AJ <sub>2</sub>	1994 01 13.87604	07 38 08.25	+23 56 23.6	589
1993 YQ	1993 12 19.02609	07 59 49.66	+22 51 45.9	589	1994 AJ <sub>2</sub>	1994 01 13.88986	07 38 07.38	+23 56 24.6	589
1993 YQ	1993 12 19.03538	07 59 49.34	+22 51 46.1	589	1994 AJ <sub>2</sub>	1994 01 13.90104	07 38 06.72	+23 56 25.9	589
1993 YQ	1993 12 22.84011	07 57 21.29	+23 02 35.8	589	1994 AJ <sub>2</sub>	1994 01 13.91486	07 38 05.86	+23 56 27.0	589
1993 YQ	1993 12 22.85384	07 57 20.73	+23 02 39.3	589	1994 AJ <sub>2</sub>	1994 01 15.88352	07 36 05.95	+23 58 44.1	589
1993 YQ	1993 12 22.87885	07 57 19.70	+23 02 43.5	589	1994 AJ <sub>2</sub>	1994 01 15.89403	07 36 05.33	+23 58 44.8	589
1993 YQ	1993 12 27.92535	07 53 35.33	+23 17 43.8	589	1994 AE <sub>3</sub>	* 1994 01 15.80090	07 37 01.35	+24 15 50.3	18.5 V 589
1993 YQ	1993 12 27.93939	07 53 34.72	+23 17 45.9	589	1994 AE <sub>3</sub>	1994 01 15.81120	07 37 00.44	+24 15 51.6	589
1993 YQ	1993 12 27.95117	07 53 34.07	+23 17 48.9	589	1994 AE <sub>3</sub>	1994 01 15.82150	07 36 59.80	+24 15 53.0	589
1993 YQ	1994 01 08.00734	07 44 03.09	+23 50 52.0	589	1994 AE <sub>3</sub>	1994 01 15.83180	07 36 59.00	+24 15 55.7	589
1993 YQ	1994 01 08.01807	07 44 02.57	+23 50 54.1	589	1994 AE <sub>3</sub>	1994 01 15.86131	07 36 56.94	+24 15 57.4	589
1993 YQ	1994 01 08.02547	07 44 02.17	+23 50 55.6	589	1994 AE <sub>3</sub>	1994 01 18.87573	07 33 27.80	+24 20 31.1	18.5 V 589
1993 YQ	1994 01 11.99280	07 40 22.75	+24 02 03.3	17.6 V 589					

1994 AE <sub>3</sub>	1994 01 18.88595	07 33 27.08	+24 20 32.2	589	1993 XC	1993 12 06.97025	04 58 02.59	+15 01 25.6	595
1994 AE <sub>3</sub>	1994 01 18.89589	07 33 26.39	+24 20 32.8	589	1993 XC	1993 12 06.98504	04 58 01.57	+15 01 25.0	595
<b>595 Farra d'Isonzo</b>					1993 XC	1993 12 11.97705	04 54 07.42	+14 55 10.4	595
L. Bittesini, Via dei Conventi 10, I-34070 Farra D'Isonzo (GO), Italy					1993 XC	1993 12 12.02174	04 54 05.35	+14 55 08.4	595
Observers L. Bittesini, W. Boschin, G. Lombardi, E. Pettarin, F. Piani, A. Toso					1993 XC	1993 12 12.89599	04 53 24.68	+14 54 08.3	595
Measurers E. Pettarin, A. Toso					1993 XC	1993 12 12.90957	04 53 23.76	+14 54 08.0	595
0.4-m <i>f</i> /4.5 reflector + CCD					1993 XC	1993 12 18.91769	04 48 51.00	+14 48 35.7	595
GSC					1993 XC	1993 12 18.93887	04 48 49.96	+14 48 34.2	595
1993 TQ	1994 01 15.74946	01 54 14.67	+09 30 10.2	595	1993 XD	1993 12 05.90844	04 59 09.12	+11 04 02.4	17.5 V 595
1993 TQ	1994 01 15.76379	01 54 15.55	+09 30 18.8	595	1993 XD	* 1993 12 05.92221	04 59 08.28	+11 04 02.1	595
1993 TQ	1994 01 18.72344	01 57 19.06	+09 58 40.3	595	1993 XD	1993 12 05.93608	04 59 07.35	+11 04 01.9	595
1993 TQ	1994 01 18.74831	01 57 20.68	+09 58 54.2	18 V 595	1993 XD	1993 12 06.85806	04 58 08.33	+11 03 46.5	595
1993 UD <sub>1</sub>	1993 12 03.73684	01 35 19.19	+05 15 27.3	595	1993 XD	1993 12 06.87199	04 58 07.42	+11 03 46.0	595
1993 UD <sub>1</sub>	1993 12 03.76528	01 35 18.91	+05 15 32.1	595	1993 XD	1993 12 11.91695	04 52 46.65	+11 04 38.4	595
1993 UD <sub>1</sub>	1993 12 04.83044	01 35 10.49	+05 19 27.4	595	1993 XD	1993 12 11.94646	04 52 44.75	+11 04 39.4	595
1993 UD <sub>1</sub>	1993 12 04.88347	01 35 09.97	+05 19 38.8	595	1993 XD	1993 12 12.82901	04 51 50.04	+11 05 12.6	595
1993 UE <sub>1</sub>	1993 12 03.79078	01 35 05.40	+06 57 33.3	595	1993 XD	1993 12 12.94106	04 51 42.79	+11 05 18.0	595
1993 UE <sub>1</sub>	1993 12 03.81197	01 35 05.05	+06 57 39.8	595	1993 XD	1993 12 17.90429	04 46 46.15	+11 10 41.4	595
1993 UE <sub>1</sub>	1993 12 16.77601	01 33 59.43	+08 08 19.2	595	1993 XD	1993 12 17.91914	04 46 45.27	+11 10 42.6	595
1993 UE <sub>1</sub>	1993 12 16.81435	01 33 59.59	+08 08 33.9	595	1993 XD	1994 01 18.79988	04 30 25.57	+13 03 00.4	595
1993 UE <sub>1</sub>	1994 01 12.75252	01 44 34.53	+11 16 41.3	595	1993 XD	1994 01 18.85487	04 30 25.59	+13 03 17.1	I 595
1993 UE <sub>1</sub>	1994 01 12.76905	01 44 35.14	+11 16 48.3	595	1993 XY	1993 12 11.97705	04 54 06.22	+14 56 22.8	18.5 V 595
1993 WA	1993 11 24.89500	01 39 45.11	+04 46 07.0	595	1993 XY	* 1993 12 12.02174	04 54 03.26	+14 56 17.2	595
1993 WA	1993 11 24.90701	01 39 44.89	+04 46 01.8	595	1993 XY	1993 12 12.89599	04 53 05.97	+14 54 17.4	595
1993 WA	1993 11 30.90619	01 38 14.48	+04 08 49.1	595	1993 XY	1993 12 12.92420	04 53 04.34	+14 54 13.9	595
1993 WA	1993 11 30.92008	01 38 14.32	+04 08 45.2	595	1993 XY	1993 12 16.90009	04 48 47.48	+14 45 56.9	595
1993 WA	1993 11 30.93396	01 38 14.20	+04 08 38.4	595	1993 XY	1993 12 16.92135	04 48 46.02	+14 45 54.8	595
1993 WA	1993 12 12.75361	01 37 31.15	+03 16 33.4	595	1993 XY	1993 12 16.93464	04 48 45.21	+14 45 54.0	595
1993 WA	1993 12 12.77688	01 37 31.24	+03 16 28.6	595	1993 XY	1993 12 17.85452	04 47 47.47	+14 44 12.2	I 595
1993 WA	1994 01 15.79578	01 51 20.62	+03 03 51.3	595	1993 XY	1993 12 17.87728	04 47 46.06	+14 44 05.4	595
1993 WA	1994 01 15.80778	01 51 21.08	+03 03 54.4	595	1993 XY	1993 12 18.95942	04 46 38.36	+14 42 11.0	595
1993 WA	1994 01 15.82157	01 51 21.63	+03 03 55.6	595	1993 XY	1993 12 18.97378	04 46 37.42	+14 42 10.0	595
1993 XA	1993 12 06.90351	06 58 19.08	+23 04 50.4	595	1993 XY	1994 01 12.79625	04 27 47.86	+14 30 55.2	595
1993 XA	1993 12 06.91814	06 58 18.38	+23 04 53.1	595	1993 XY	1994 01 12.81131	04 27 47.46	+14 30 55.3	595
1993 XB	1993 12 04.90690	04 59 34.84	+15 01 08.4	595	1993 YN	1993 12 16.90009	04 49 01.76	+14 50 18.8	595
1993 XB	* 1993 12 04.92150	04 59 33.95	+15 01 06.9	595	1993 YN	* 1993 12 16.92135	04 49 00.41	+14 50 16.2	595
1993 XB	1993 12 04.93599	04 59 33.23	+15 01 03.8	595	1993 YN	1993 12 16.93464	04 48 59.52	+14 50 13.2	595
1993 XB	1993 12 05.87603	04 58 44.50	+14 58 36.3	595	1993 YN	1993 12 17.85452	04 48 04.27	+14 47 33.6	595
1993 XB	1993 12 05.89525	04 58 43.43	+14 58 33.5	18 V 595	1993 YN	1993 12 17.87728	04 48 02.84	+14 47 29.8	18 V 595
1993 XB	1993 12 06.97025	04 57 47.56	+14 55 49.3	595	1993 YN	1993 12 18.95942	04 46 58.61	+14 44 30.1	595
1993 XB	1993 12 06.98504	04 57 46.72	+14 55 47.1	595	1993 YN	1993 12 18.97378	04 46 57.79	+14 44 28.2	595
1993 XB	1993 12 12.00249	04 53 28.15	+14 43 51.4	595	1993 YN	1993 12 23.06127	04 43 09.11	+14 34 25.5	595
1993 XB	1993 12 12.03411	04 53 26.47	+14 43 46.7	595	1993 YN	1993 12 23.07305	04 43 08.27	+14 34 24.5	595
1993 XB	1993 12 22.98175	04 44 42.29	+14 23 47.4	595	1993 YN	1993 12 23.96100	04 42 21.84	+14 32 26.3	595
1993 XB	1993 12 23.01092	04 44 40.76	+14 23 45.9	595	1993 YN	1993 12 23.97524	04 42 21.23	+14 32 24.5	595
1993 XB	1994 01 18.90726	04 31 54.79	+14 16 05.3	595	1993 YN	1993 12 23.99068	04 42 20.46	+14 32 20.3	595
1993 XB	1994 01 18.92319	04 31 54.62	+14 16 06.1	595	1993 YO	1993 12 17.86694	04 48 46.98	+14 44 04.6	595
1993 XB	1994 01 18.94413	04 31 54.37	+14 16 06.5	595	1993 YO	* 1993 12 17.88694	04 48 45.95	+14 44 08.4	595
1993 XC	1993 12 04.90690	04 59 39.59	+15 04 21.3	595	1993 YO	1993 12 18.90671	04 47 54.13	+14 47 12.8	18.2 V 595
1993 XC	* 1993 12 04.92150	04 59 38.81	+15 04 18.8	595	1993 YO	1993 12 18.92894	04 47 52.89	+14 47 17.4	595
1993 XC	1993 12 05.87603	04 58 53.94	+15 02 56.8	595	1993 YO	1993 12 22.99568	04 44 32.82	+15 00 06.8	595
1993 XC	1993 12 05.89525	04 58 53.01	+15 02 53.9	19 V 595	1993 YO	1993 12 23.02165	04 44 31.60	+15 00 12.0	595

1993 YO	1994 01 12.92918	04 31 35.89	+16 18 10.7	595	1989 RZ	1993 12 29.95913	09 37 16.95	+50 08 57.9	596
1993 YO	1994 01 12.95838	04 31 35.15	+16 18 18.6	595	1989 RC <sub>1</sub>	1994 01 03.74368	04 48 01.45	+10 06 56.5	596
1993 YO	1994 01 12.97196	04 31 34.80	+16 18 21.5	595	1989 RC <sub>1</sub>	1994 01 03.76768	04 48 00.59	+10 07 12.4	596
1994 AJ <sub>3</sub>	1994 01 12.92918	04 31 23.50	+16 12 24.0	595	1989 WD	1994 01 07.89664	08 10 29.51	+30 26 06.2	596
1994 AJ <sub>3</sub>	* 1994 01 12.95838	04 31 22.97	+16 12 26.0	17.8 V 595	1989 WD	1994 01 07.91421	08 10 28.41	+30 26 14.8	596
1994 AJ <sub>3</sub>	1994 01 12.97196	04 31 22.78	+16 12 26.9	595	1989 WD	1994 01 07.92008	08 10 27.97	+30 26 19.4	596
1994 AJ <sub>3</sub>	1994 01 15.84606	04 30 36.19	+16 14 45.9	595	1989 WL	1994 01 11.86918	08 01 32.03	+26 42 30.4	596
1994 AJ <sub>3</sub>	1994 01 15.86233	04 30 35.90	+16 14 47.8	595	1989 WL	1994 01 11.89150	08 01 30.62	+26 42 39.6	596
1994 AJ <sub>3</sub>	1994 01 15.87995	04 30 35.63	+16 14 48.5	I 595	1989 WL	1994 01 11.90255	08 01 29.88	+26 42 43.3	596
1994 AJ <sub>3</sub>	1994 01 18.81787	04 29 58.75	+16 17 43.7	595	1989 YM	1993 11 22.88312	05 33 38.66	+37 59 24.0	596
1994 AJ <sub>3</sub>	1994 01 18.87695	04 29 58.08	+16 17 46.4	595	1989 YM	1993 11 22.90694	05 33 37.26	+37 59 20.9	596
1994 BA	1994 01 18.96634	08 00 30.08	+07 03 31.1	595	1989 YM	1993 11 22.92965	05 33 36.04	+37 59 20.6	596
1994 BA	* 1994 01 18.98191	08 00 29.15	+07 03 33.5	595	1990 BR <sub>1</sub>	1993 12 30.75817	05 06 25.22	+04 44 12.4	596
1994 BA	1994 01 19.81497	07 59 34.65	+07 06 10.0	595	1990 BR <sub>1</sub>	1993 12 30.80322	05 06 23.16	+04 44 29.6	596
1994 BA	1994 01 19.86679	07 59 31.23	+07 06 19.1	595	1990 BR <sub>1</sub>	1993 12 30.82861	05 06 22.18	+04 44 41.5	596
<b>596 Colleverde di Guidonia</b>					1990 FR	1994 01 12.90332	09 57 52.11	+19 11 08.1	596
V. S. Casulli, Via M. Rosa 1, I-00010 Colleverde di Guidonia (RM), Italy					1990 FR	1994 01 12.90848	09 57 52.11	+19 11 12.5	596
Observers V. S. Casulli, S. Valentini					1990 FR	1994 01 12.93615	09 57 52.08	+19 11 35.2	596
0.31-m <i>f</i> /2.8 Baker-Schmidt + CCD					1990 FR	1994 01 12.97091	09 57 52.05	+19 12 04.3	596
GSC					1990 FD <sub>1</sub>	1994 01 11.91805	09 58 26.12	+23 01 20.5	596
1964 BF	1993 12 17.88300	07 22 16.70	+20 46 48.3	596	1990 FD <sub>1</sub>	1994 01 11.94183	09 58 25.53	+23 01 35.9	596
1964 BF	1993 12 17.92123	07 22 14.56	+20 47 00.1	596	1990 FD <sub>1</sub>	1994 01 11.97023	09 58 24.98	+23 01 54.5	596
1964 BF	1993 12 17.94285	07 22 13.40	+20 47 07.7	596	1990 FD <sub>1</sub>	1994 01 11.98324	09 58 24.63	+23 02 02.7	596
1969 TR <sub>1</sub>	1993 11 23.78757	03 15 25.13	+21 39 11.1	596	1991 GQ <sub>1</sub>	1993 12 04.82369	05 36 03.87	+20 59 09.1	596
1969 TR <sub>1</sub>	1993 11 23.81118	03 15 23.65	+21 39 05.3	596	1991 GQ <sub>1</sub>	1993 12 04.86042	05 36 01.54	+20 59 11.7	596
1969 TR <sub>1</sub>	1993 11 24.81417	03 14 22.15	+21 35 05.7	596	1991 GQ <sub>1</sub>	1993 12 04.88583	05 36 00.06	+20 59 18.8	596
1969 TR <sub>1</sub>	1993 11 24.83340	03 14 20.96	+21 35 00.8	596	1992 UO <sub>4</sub>	1993 12 22.89486	07 20 48.54	+32 11 05.0	596
1969 TR <sub>1</sub>	1993 11 24.84083	03 14 20.49	+21 34 59.4	596	1992 UO <sub>4</sub>	1993 12 22.92073	07 20 47.04	+32 11 12.9	596
1969 TR <sub>1</sub>	1993 12 03.71490	03 06 30.39	+21 00 59.9	596	1993 WB	1993 11 23.78757	03 16 01.06	+21 36 01.0	596
1969 TR <sub>1</sub>	1993 12 03.74366	03 06 28.95	+21 00 54.1	596	1993 WB	1993 11 23.81118	03 15 59.52	+21 35 56.4	596
1969 TR <sub>1</sub>	1993 12 03.78929	03 06 26.60	+21 00 44.7	596	1993 WB	1993 11 24.81417	03 14 58.46	+21 32 05.6	596
1978 VE <sub>15</sub>	1993 12 12.99106	08 06 51.18	+22 50 49.7	596	1993 WB	1993 11 24.83340	03 14 57.24	+21 31 59.7	596
1980 RU	1993 11 24.86785	05 07 43.37	+48 25 33.7	596	1993 WB	1993 11 24.84083	03 14 56.80	+21 31 57.8	596
1980 RL <sub>7</sub>	1993 12 04.90590	06 35 25.31	+18 08 56.1	596	1993 WB	1993 12 03.71490	03 06 47.37	+20 57 31.9	596
1980 RL <sub>7</sub>	1993 12 04.93694	06 35 23.68	+18 08 48.0	596	1993 WB	1993 12 03.74366	03 06 45.93	+20 57 26.7	596
1982 BE <sub>1</sub>	1993 12 19.79362	06 41 34.89	+15 47 47.8	596	1993 WB	1993 12 03.78929	03 06 43.53	+20 57 18.9	596
1982 BE <sub>1</sub>	1993 12 19.83410	06 41 32.61	+15 47 53.9	596	1993 WB	1993 12 04.72410	03 05 58.96	+20 53 48.8	596
1982 BE <sub>1</sub>	1993 12 19.85796	06 41 31.20	+15 48 02.3	596	1993 WB	1993 12 04.75277	03 05 57.65	+20 53 41.0	596
1983 EB <sub>1</sub>	1993 12 09.92963	06 54 08.96	+18 22 29.8	596	1993 WB	1993 12 04.78709	03 05 56.05	+20 53 33.9	596
1983 EB <sub>1</sub>	1993 12 09.94236	06 54 08.44	+18 22 30.0	596	1993 WB	1993 12 12.72237	03 00 45.37	+20 26 32.3	596
1983 EB <sub>1</sub>	1993 12 09.95501	06 54 07.51	+18 22 30.3	596	1993 WB	1993 12 12.75147	03 00 44.30	+20 26 29.0	596
1984 HL <sub>1</sub>	1994 01 13.92907	09 51 54.37	+17 31 11.4	596	1993 WF	1993 11 23.78757	03 16 41.30	+21 38 04.2	596
1984 HL <sub>1</sub>	1994 01 13.97955	09 51 52.97	+17 31 20.6	596	1993 WF	1993 11 23.81118	03 16 39.71	+21 37 52.8	596
1988 TQ <sub>4</sub>	1993 12 22.78781	05 34 17.19	+21 53 28.1	596	1993 WF	1993 11 24.81417	03 15 43.03	+21 30 33.3	596
1988 TQ <sub>4</sub>	1993 12 22.83143	05 34 14.68	+21 53 29.1	596	1993 WF	1993 11 24.83340	03 15 41.85	+21 30 25.4	596
1989 AO <sub>6</sub>	1993 12 12.92915	06 55 48.68	+31 34 28.2	596	1993 WF	1993 11 24.84083	03 15 41.37	+21 30 24.2	596
1989 AO <sub>6</sub>	1993 12 12.93587	06 55 48.28	+31 34 29.0	596	1993 WF	1993 12 03.77845	03 08 07.81	+20 26 33.7	596
1989 CE <sub>2</sub>	1994 01 07.96604	09 47 26.24	+25 30 16.5	596	1993 WF	1993 12 03.81268	03 08 06.25	+20 26 18.7	596
1989 CE <sub>2</sub>	1994 01 07.98381	09 47 25.05	+25 30 11.0	596	1993 WF	1993 12 04.75919	03 07 24.97	+20 19 51.3	596
1989 RZ	1993 12 29.86734	09 37 23.95	+50 09 02.7	596	1993 WF	1993 12 04.79272	03 07 23.52	+20 19 35.8	596
1989 RZ	1993 12 29.90158	09 37 21.21	+50 09 01.0	596	1993 WF	1993 12 04.80562	03 07 22.82	+20 19 29.8	596
1989 RZ	1993 12 29.93589	09 37 18.78	+50 08 59.2	596	1993 WF	1993 12 05.78263	03 06 41.86	+20 12 54.0	596



1993 WF	1993 12 05.79959	03 06 41.04	+20 12 48.2		596
1994 AN	* 1994 01 03.74368	04 48 52.82	+10 03 54.7	17.4 V	596
1994 AN	1994 01 03.76768	04 48 51.97	+10 03 54.8		596
1994 AN	1994 01 13.73440	04 44 07.17	+10 08 26.2		596
1994 AN	1994 01 13.76320	04 44 06.55	+10 08 27.3		596
1994 AN	1994 01 13.77293	04 44 06.35	+10 08 29.1		596
1994 AD <sub>2</sub>	* 1994 01 12.80489	07 31 32.07	+19 18 49.6	17.2 V	596
1994 AD <sub>2</sub>	1994 01 12.83840	07 31 29.42	+19 18 36.7		596
1994 AD <sub>2</sub>	1994 01 12.86444	07 31 27.61	+19 18 26.4		596
1994 AD <sub>2</sub>	1994 01 12.88304	07 31 26.08	+19 18 17.1		596
1994 AD <sub>2</sub>	1994 01 13.82543	07 30 14.68	+19 11 34.1		596
1994 AD <sub>2</sub>	1994 01 13.86437	07 30 11.57	+19 11 20.0		596
1994 AD <sub>2</sub>	1994 01 13.88080	07 30 10.47	+19 11 14.1		596
1994 AD <sub>2</sub>	1994 01 16.84148	07 26 28.69	+18 50 13.8		596
1994 AD <sub>2</sub>	1994 01 16.85624	07 26 27.68	+18 50 07.3		596
1994 AD <sub>2</sub>	1994 01 16.87271	07 26 26.44	+18 49 59.2		596

**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

Measurer D. D. Balam

0.5-m reflector + CCD

1987 BB	1993 11 18.38205	04 24 18.10	+20 56 07.7		657
1987 BB	1993 11 18.38619	04 24 17.85	+20 56 07.1		657
1987 BB	1993 11 18.39578	04 24 17.30	+20 56 05.4		657

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J. B. Tatum, Dept. of Physics, University of Victoria, P.O. Box 1700, Victoria,  
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Observers D. D. Balam, J. B. Tatum, G. C. L. Aikman

Measurer D. D. Balam

1.82-m Plaskett telescope + CCD

GSC

1990 UR <sub>1</sub>	1993 11 25.54003	08 50 52.20	-05 55 20.0		658
1990 UR <sub>1</sub>	1993 11 25.54286	08 50 52.28	-05 55 23.3		658
1990 UR <sub>1</sub>	1993 11 25.54627	08 50 52.37	-05 55 27.6		658
1991 WA	1993 11 25.34808	03 44 52.90	-04 25 15.1		658
1991 WA	1993 11 25.34993	03 44 52.04	-04 24 57.4		658
1991 WA	1993 11 25.35200	03 44 51.06	-04 24 37.7		658
1991 WA	1994 01 14.11184	02 30 23.51	+31 57 21.2		658
1991 WA	1994 01 14.11670	02 30 23.71	+31 57 23.5		658
1991 WA	1994 01 14.12237	02 30 23.89	+31 57 27.0		658
1991 WA	1994 01 14.12781	02 30 24.15	+31 57 31.2		658
1993 KH	1993 12 21.50249	09 51 37.67	+46 10 49.2		658
1993 KH	1993 12 21.50573	09 51 37.35	+46 10 55.3		658
1993 KH	1993 12 21.50932	09 51 37.01	+46 11 02.6		658
1993 RR	1994 01 14.08196	02 13 23.25	+24 10 55.9		658
1993 RR	1994 01 14.08579	02 13 23.70	+24 10 56.8		658
1993 RR	1994 01 14.08913	02 13 24.00	+24 10 58.2		658
1993 TQ <sub>2</sub>	1994 01 14.19520	04 30 09.21	+51 35 36.4		658
1993 TQ <sub>2</sub>	1994 01 14.19796	04 30 09.96	+51 35 35.4		658
1993 TQ <sub>2</sub>	1994 01 14.20132	04 30 10.91	+51 35 34.2		658

1993 XN <sub>2</sub>	1994 01 14.23006	05 06 49.34	+64 16 49.8		658
1993 XN <sub>2</sub>	1994 01 14.23281	05 06 49.25	+64 16 48.3		658
1993 XN <sub>2</sub>	1994 01 14.23559	05 06 49.16	+64 16 46.8		658
1994 AK <sub>1</sub>	1994 01 14.28428	06 54 31.04	+29 32 09.4		658
1994 AK <sub>1</sub>	1994 01 14.28671	06 54 30.72	+29 32 05.6		658
1994 AK <sub>1</sub>	1994 01 14.28913	06 54 30.43	+29 32 02.0		658
4116 P-L	1993 11 25.36138	06 49 27.30	+21 45 12.0		658
4116 P-L	1993 11 25.36502	06 49 27.12	+21 45 12.0		658
4116 P-L	1993 11 25.36881	06 49 26.92	+21 45 11.9		658
4116 P-L	1993 12 21.40455	06 21 51.25	+21 52 36.8		658
4116 P-L	1993 12 21.40767	06 21 51.01	+21 52 36.8		658
4116 P-L	1993 12 21.41093	06 21 50.76	+21 52 36.9		658

**662 Lick**

H. M. Jeffers, Lick Observatory, University of California, Santa Cruz CA 95064,  
U.S.A.

Observations from *IAUC* 480 and 482

0.9-m Crossley reflector

1934 JP	* 1934 05 09.2311	13 13 31.8	-04 38 15	19	662
1934 JP	1934 05 09.2922	13 13 30.4	-04 38 10		662
1934 JP	1934 05 12.2124	13 12 32.7	-04 34 40		662
1934 JP	1934 05 15.2221	13 11 49.8	-04 33 01		662
1934 JP	1934 05 19.3385	13 11 19.2	-04 33 53		662

**670 Camarillo**

J. E. Rogers, 441 Rowland Avenue, Camarillo, CA 93010

Observers J. E. Rogers, B. G. Marsden

0.25-m Schmidt-Cassegrain + CCD

GSC

1993 WD	1993 12 01.14690	23 25 39.39	+34 42 42.0	15.2 V	670
1993 WD	1993 12 01.15174	23 25 35.53	+34 42 48.0		670
1993 WD	1993 12 01.15660	23 25 31.82	+34 42 58.7		670
1993 WD	1993 12 01.17535	23 25 17.23	+34 43 28.9		670
1994 AW <sub>1</sub>	1994 01 13.22578	07 24 43.67	+16 18 56.8	14.0 V	670
1994 AW <sub>1</sub>	1994 01 13.22977	07 24 42.32	+16 18 32.6		670
1994 AW <sub>1</sub>	1994 01 13.23487	07 24 40.54	+16 18 00.1		670

**675 Palomar**

E. Helin, MS 183-501, Jet Propulsion Laboratory, Pasadena, CA 91109, U.S.A. (2)

C. Shoemaker, P.O. Box 984, Flagstaff, AZ 86002, U.S.A. (3)

C. J. van Houten, Sterrewacht Leiden, Postbus 9513, NL-2300 RA Leiden, The  
Netherlands (4)

E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001,  
U.S.A. (6)

9 = 3 + 6

Observers J. Alu (2, S), D. J. Chadwick (3, S), J. B. Child (2, S), G. Fisch

(2, S), T. Gehrels (4, L), E. F. Helin (2, S), H. E. Holt (3, S), K. Lawrence

(2, S), D. H. Levy (3, S), J. D. Mendenhall (7, L), J. Mueller (7, L),

C. M. Olmstead (3, S), P. Rose (2, S), J. E. Rogers (2, S), C. S. Shoemaker

(3, S), E. M. Shoemaker (3, S), D. Williams (3, S)

Measurers J. Alu (2), S. J. Bus (3), K. E. Daniels (9), H. E. Holt (9),

K. Lawrence (2), C. S. Shoemaker (3), B. A. Skiff (9), P. W. Tracadas (6),

C. J. van Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4),  
J. Yueh (9)

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

1943 DF	1992 10 03.27847	00 19 58.29	+09 13 22.9	9	675	1980 TG <sub>4</sub>	1993 11 19.37899	02 52 13.93	+30 20 35.3	3	675
1949 WQ <sub>1</sub>	* 1949 11 23.22847	01 39 08.81	+05 53 13.4	6	675	1981 DF <sub>2</sub>	1954 07 04.42986	21 54 08.61	-02 38 01.8	6	675
1949 WQ <sub>1</sub>	1949 11 23.25590	01 39 08.40	+05 53 01.3	6	675	1981 DF <sub>2</sub>	1954 07 04.45417	21 54 08.50	-02 37 52.4	6	675
1950 HO <sub>1</sub>	* 1950 04 20.33576	13 40 23.98	+02 07 13.3	17.5	6 675	1981 DF <sub>2</sub>	1954 07 05.45694	21 54 05.89	-02 31 12.5	6	675
1950 HO <sub>1</sub>	1950 04 20.36528	13 40 22.09	+02 07 23.6	6	675	1981 EL <sub>5</sub>	1950 06 15.27986	16 18 20.14	-20 24 21.1	6	675
1950 HP <sub>1</sub>	* 1950 04 20.33576	13 40 24.20	+02 15 05.3	6	675	1981 EL <sub>5</sub>	1950 06 15.30590	16 18 19.13	-20 24 17.1	6	675
1950 HP <sub>1</sub>	1950 04 20.36528	13 40 22.74	+02 15 27.6	6	675	1981 EJ <sub>7</sub>	1992 02 26.28247	10 29 39.33	+03 24 56.7	9	675
1951 NQ	* 1951 07 11.28472	18 10 50.14	+27 07 04.7	6	675	1981 EJ <sub>7</sub>	1992 04 05.23542	10 05 37.01	+05 09 37.6	9	675
1951 NQ	1951 07 11.31389	18 10 49.23	+27 06 56.7	6	675	1981 EJ <sub>7</sub>	1992 04 05.27031	10 05 36.31	+05 09 41.6	9	675
1951 VK	* 1951 11 05.28472	02 04 49.47	+32 18 55.2	6	675	1981 ET <sub>8</sub>	1992 02 26.28247	10 12 20.13	+04 53 23.2	9	675
1951 VK	1951 11 05.31250	02 04 47.85	+32 18 41.5	6	675	1981 ET <sub>8</sub>	1992 02 26.31528	10 12 18.15	+04 53 35.9	9	675
1953 AS	* 1953 01 10.16250	04 48 39.51	+41 04 31.4	6	675	1981 EO <sub>9</sub>	1992 02 26.28247	10 21 29.37	+07 20 52.2	9	675
1953 AS	1953 01 10.18472	04 48 38.50	+41 04 13.5	6	675	1981 EO <sub>9</sub>	1992 02 26.31528	10 21 27.79	+07 21 00.0	9	675
1954 RA <sub>1</sub>	* 1954 09 04.35486	00 10 53.77	+18 48 12.7	6	675	1981 EE <sub>14</sub>	1993 10 10.30035	01 25 47.09	+11 23 30.5	9	675
1954 RA <sub>1</sub>	1954 09 04.38021	00 10 51.49	+18 48 33.4	6	675	1981 EE <sub>14</sub>	1993 10 10.33767	01 25 45.11	+11 23 10.1	9	675
1973 EK	1993 10 10.30035	01 11 57.76	+07 35 06.5	9	675	1981 EE <sub>14</sub>	1993 10 13.29722	01 23 04.91	+10 57 00.5	9	675
1973 EK	1993 10 10.33767	01 11 55.88	+07 34 53.9	9	675	1981 EE <sub>14</sub>	1993 10 13.33628	01 23 02.80	+10 56 43.1	9	675
1973 EK	1993 10 13.29722	01 09 27.54	+07 18 09.1	9	675	1981 EF <sub>18</sub>	1993 10 14.28125	01 50 02.22	+07 27 29.2	9	675
1975 RP	1993 10 10.30035	01 10 44.70	+07 24 56.9	9	675	1981 EF <sub>18</sub>	1993 10 14.31736	01 50 00.31	+07 27 10.0	9	675
1975 RP	1993 10 10.33767	01 10 42.93	+07 24 45.4	9	675	1981 EF <sub>18</sub>	1993 10 15.27257	01 49 11.26	+07 18 51.6	9	675
1975 RP	1993 10 13.29722	01 08 30.46	+07 10 24.6	9	675	1981 EK <sub>41</sub>	1991 03 13.21111	10 14 59.19	+05 15 26.5	9	675
1975 RP	1993 10 13.33628	01 08 28.75	+07 10 13.5	9	675	1981 EK <sub>41</sub>	1991 03 13.24219	10 14 57.72	+05 15 42.7	9	675
1975 RA <sub>2</sub>	1955 04 14.24931	12 12 20.07	+11 43 19.8	6	675	1981 ET <sub>42</sub>	1993 10 10.30035	01 12 51.66	+10 17 03.8	9	675
1975 RA <sub>2</sub>	1955 04 14.27431	12 12 18.53	+11 43 16.6	6	675	1981 ET <sub>42</sub>	1993 10 10.33767	01 12 49.40	+10 16 51.8	9	675
1978 PX <sub>2</sub>	1993 10 10.30035	01 19 18.44	+11 10 42.5	9	675	1981 ET <sub>42</sub>	1993 10 13.29722	01 09 52.85	+10 01 05.0	9	675
1978 PX <sub>2</sub>	1993 10 10.33767	01 19 16.29	+11 10 33.8	9	675	1981 ET <sub>42</sub>	1993 10 13.33628	01 09 50.46	+10 00 52.8	9	675
1978 PX <sub>2</sub>	1993 10 13.29722	01 16 33.97	+10 59 13.4	9	675	1981 SN	1991 02 09.43194	11 23 47.67	-02 47 18.8	9	675
1978 PX <sub>2</sub>	1993 10 13.33628	01 16 31.70	+10 59 04.6	9	675	1981 SN	1991 02 09.48003	11 23 45.52	-02 47 07.8	9	675
1978 SH <sub>1</sub>	1950 06 15.27986	16 03 05.40	-21 15 01.9	6	675	1981 SN <sub>1</sub>	1949 11 23.22847	01 35 15.73	+05 55 15.9	6	675
1978 SH <sub>1</sub>	1950 06 15.30590	16 03 03.86	-21 15 02.2	6	675	1981 SN <sub>1</sub>	1949 11 23.25590	01 35 15.45	+05 55 14.9	6	675
1978 VK <sub>5</sub>	1993 10 10.30035	01 04 58.32	+09 00 52.4	9	675	1981 SE <sub>2</sub>	1950 06 15.27986	16 05 31.53	-17 41 37.3	6	675
1978 VK <sub>5</sub>	1993 10 10.33767	01 04 56.21	+09 00 42.0	9	675	1981 SE <sub>2</sub>	1950 06 15.30590	16 05 29.77	-17 41 29.5	6	675
1978 VD <sub>7</sub>	1949 11 23.22847	01 51 47.52	+08 37 17.4	6	675	1981 UQ <sub>11</sub>	1992 11 26.15017	01 00 33.41	+02 08 52.4	9	675
1978 VD <sub>7</sub>	1949 11 23.25590	01 51 46.63	+08 37 15.9	6	675	1981 UQ <sub>11</sub>	1992 11 26.18125	01 00 33.16	+02 08 57.0	9	675
1979 MC <sub>2</sub>	1950 06 15.27986	16 18 49.81	-18 35 12.8	6	675	1981 UQ <sub>11</sub>	1992 11 28.13854	01 00 28.17	+02 14 46.7	9	675
1979 MC <sub>2</sub>	1950 06 15.30590	16 18 48.59	-18 35 08.3	6	675	1981 UQ <sub>11</sub>	1992 11 28.17170	01 00 28.06	+02 14 54.6	9	675
1979 MU <sub>8</sub>	1993 12 14.43524	07 20 53.29	+12 31 10.5	15.5	2 675	1981 VS	1992 04 05.23542	10 09 48.40	+02 46 36.6	9	675
1979 MU <sub>8</sub>	1993 12 14.45677	07 20 52.42	+12 31 15.3	16.1	2 675	1981 VS	1992 04 05.27031	10 09 47.93	+02 46 47.4	9	675
1979 QK <sub>6</sub>	1992 11 26.15017	00 53 06.94	-01 21 45.3	9	675	1982 HJ	1949 11 23.22847	01 52 19.26	+07 31 44.9	6	675
1979 QK <sub>6</sub>	1992 11 26.18125	00 53 07.29	-01 21 36.1	9	675	1982 HJ	1949 11 23.25590	01 52 18.02	+07 31 45.0	6	675
1979 QK <sub>6</sub>	1992 11 28.13854	00 53 40.08	-01 11 12.5	9	675	1982 HJ	1953 12 07.42396	06 38 24.41	+29 20 40.6	6	675
1979 QK <sub>6</sub>	1992 11 28.17170	00 53 40.62	-01 11 01.7	9	675	1982 HJ	1953 12 07.44792	06 38 22.98	+29 20 46.7	6	675
1979 SO	1993 10 10.30035	01 23 57.49	+12 15 01.6	9	675	1982 HJ	1993 10 13.28333	01 26 40.77	+00 09 39.6	17.0	9 675
1979 SO	1993 10 10.33767	01 23 55.27	+12 15 02.2	9	675	1982 HJ	1993 10 13.32257	01 26 38.14	+00 09 31.4	9	675
1979 SO	1993 10 13.29722	01 21 03.35	+12 14 59.7	9	675	1982 HJ	1993 10 15.25833	01 24 31.69	+00 03 27.9	9	675
1979 SO	1993 10 13.33628	01 21 01.05	+12 14 58.3	9	675	1982 QD	1992 09 30.27413	23 54 31.95	+09 33 51.8	9	675
1980 TG <sub>4</sub>	1993 11 16.31875	02 55 43.68	+30 23 10.0	17	3 675	1982 QD	1992 09 30.31094	23 54 29.99	+09 33 42.4	9	675
1980 TG <sub>4</sub>	1993 11 18.36719	02 53 22.34	+30 21 36.2	3	675	1982 QD	1992 10 03.31354	23 52 04.63	+09 21 07.6	9	675
1980 TG <sub>4</sub>	1993 11 19.34166	02 52 16.57	+30 20 37.9	3	675	1982 RK	1992 11 26.15017	01 05 43.60	-01 31 12.1	9	675
						1982 RK	1992 11 26.18125	01 05 43.69	-01 31 02.0	9	675
						1982 RK	1992 11 28.13854	01 05 58.49	-01 19 43.5	9	675
						1982 RK	1992 11 28.17170	01 05 58.66	-01 19 32.3	9	675

1982 XQ <sub>1</sub>	1993 10 10.30035	01 37 16.20	+08 02 52.4	9 675	1988 VL	1954 07 05.43264	21 43 20.75	+03 03 06.4	6 675
1982 XQ <sub>1</sub>	1993 10 10.33767	01 37 14.61	+08 02 41.7	9 675	1988 VL	1954 07 05.45694	21 43 20.58	+03 03 10.1	6 675
1982 XQ <sub>1</sub>	1993 10 13.29722	01 35 07.70	+07 49 34.7	9 675	1988 VM <sub>2</sub>	1992 11 26.15017	00 51 38.61	-01 32 47.1	9 675
1982 XQ <sub>1</sub>	1993 10 13.33628	01 35 05.98	+07 49 24.3	9 675	1988 VM <sub>2</sub>	1992 11 26.18125	00 51 38.75	-01 32 19.4	9 675
1983 PX	1991 02 09.43194	11 04 20.65	-02 16 24.2	9 675	1988 VM <sub>2</sub>	1992 11 28.13854	00 51 57.82	-01 02 56.5	9 675
1983 PX	1991 02 09.48003	11 04 19.00	-02 16 12.6	9 675	1988 VM <sub>2</sub>	1992 11 28.17170	00 51 58.12	-01 02 26.3	9 675
1983 WM	1954 07 04.42986	21 44 16.72	-05 59 05.2	6 675	1988 XG <sub>2</sub>	1954 07 04.42986	21 43 11.40	-06 11 27.5	6 675
1983 WM	1954 07 04.45417	21 44 16.39	-05 59 01.7	6 675	1988 XG <sub>2</sub>	1954 07 04.45417	21 43 10.77	-06 11 26.6	6 675
1985 QA <sub>1</sub>	1993 11 09.23646	01 21 57.54	+07 54 01.2	16.5 2 675	1989 CJ <sub>1</sub>	1993 12 14.48889	08 14 27.68	-09 08 30.0	16.5 2 675
1985 QA <sub>1</sub>	1993 11 09.26198	01 21 56.69	+07 53 49.1	2 675	1989 CJ <sub>1</sub>	1993 12 14.50642	08 14 27.12	-09 08 25.1	2 675
1985 RL <sub>3</sub>	1992 11 26.15017	00 42 03.25	-04 40 32.5	9 675	1989 CJ <sub>1</sub>	1993 12 16.44531	08 13 28.52	-09 00 06.2	2 675
1985 RL <sub>3</sub>	1992 11 26.18125	00 42 03.17	-04 40 23.1	9 675	1989 RO <sub>2</sub>	1993 12 10.36197	07 02 04.01	+67 36 01.8	15.8 3 675
1986 PK <sub>6</sub>	1992 04 05.23542	10 29 57.52	+01 29 57.7	9 675	1989 RO <sub>2</sub>	1993 12 10.39253	07 02 00.42	+67 36 11.7	3 675
1986 PK <sub>6</sub>	1992 04 05.27031	10 29 56.59	+01 30 07.9	9 675	1989 SR <sub>4</sub>	1993 10 10.30035	01 29 48.79	+05 21 43.7	9 675
1986 QB <sub>3</sub>	1992 11 26.15017	00 46 51.68	+01 23 19.1	9 675	1989 SR <sub>4</sub>	1993 10 10.33767	01 29 46.59	+05 21 38.6	9 675
1986 QB <sub>3</sub>	1992 11 26.18125	00 46 51.78	+01 23 23.7	9 675	1989 SR <sub>4</sub>	1993 10 13.29722	01 27 01.85	+05 14 42.3	9 675
1986 QB <sub>3</sub>	1992 11 28.13854	00 46 59.23	+01 27 42.5	9 675	1989 SR <sub>4</sub>	1993 10 13.33628	01 26 59.68	+05 14 38.0	9 675
1986 QB <sub>3</sub>	1992 11 28.17170	00 46 59.31	+01 27 47.6	9 675	1989 UN <sub>1</sub>	1993 10 13.37135	01 35 37.63	+12 05 39.1	16.5 9 675
1986 RS <sub>1</sub>	1993 10 14.28125	01 42 40.66	+02 10 35.0	9 675	1989 UN <sub>1</sub>	1993 10 13.41493	01 35 35.80	+12 05 18.8	9 675
1986 RS <sub>1</sub>	1993 10 14.31736	01 42 38.72	+02 10 15.5	9 675	1989 UN <sub>1</sub>	1993 10 15.28611	01 34 25.60	+11 49 02.6	9 675
1986 RS <sub>1</sub>	1993 10 15.27257	01 41 50.31	+02 01 44.4	9 675	1989 UB <sub>3</sub>	1993 10 14.28125	01 38 59.66	+03 17 38.2	9 675
1987 DG <sub>6</sub>	1993 10 10.30035	01 16 47.76	+09 59 55.4	9 675	1989 UB <sub>3</sub>	1993 10 14.31736	01 38 57.48	+03 17 32.0	9 675
1987 DG <sub>6</sub>	1993 10 10.33767	01 16 45.72	+09 59 44.1	9 675	1989 UB <sub>3</sub>	1993 10 15.27257	01 38 03.71	+03 14 45.0	9 675
1987 DG <sub>6</sub>	1993 10 13.29722	01 14 09.61	+09 44 12.7	9 675	1989 WC	1993 10 10.30035	01 25 41.82	+11 59 23.3	9 675
1987 DG <sub>6</sub>	1993 10 13.33628	01 14 07.49	+09 44 00.2	9 675	1989 WC	1993 10 10.33767	01 25 39.79	+11 59 12.8	9 675
1987 RG	1954 07 28.43681	23 43 08.69	-05 00 43.1	6 675	1989 WC	1993 10 13.29722	01 23 05.34	+11 44 07.2	9 675
1987 RG	1954 07 28.46111	23 43 08.82	-05 00 45.6	6 675	1989 WC	1993 10 13.33628	01 23 03.22	+11 43 55.5	9 675
1987 RO <sub>3</sub>	1950 06 15.27986	16 13 31.01	-16 07 14.0	6 675	1989 WL <sub>1</sub>	1950 06 15.27986	16 02 36.98	-15 57 37.0	6 675
1987 RO <sub>3</sub>	1950 06 15.30590	16 13 29.83	-16 07 08.5	6 675	1989 WL <sub>1</sub>	1950 06 15.30590	16 02 35.83	-15 57 28.8	6 675
1987 RG <sub>6</sub>	1992 11 26.15017	00 39 59.84	-00 40 12.6	9 675	1989 YM	1954 09 04.35486	00 00 42.32	+18 11 16.9	6 675
1987 RG <sub>6</sub>	1992 11 26.18125	00 39 59.83	-00 40 09.2	9 675	1989 YM	1954 09 04.38021	00 00 41.05	+18 11 18.1	6 675
1987 VB	1992 02 26.28247	10 16 54.92	+06 20 57.5	9 675	1989 YO <sub>5</sub>	1954 07 28.43681	23 54 59.60	-03 55 44.6	6 675
1987 VB	1992 02 26.31528	10 16 52.76	+06 21 08.6	9 675	1989 YO <sub>5</sub>	1954 07 28.46111	23 54 59.46	-03 55 47.0	6 675
1988 CX <sub>1</sub>	1993 10 13.29027	00 56 20.62	+10 42 45.3	9 675	1990 FQ <sub>5</sub>	* 1990 03 19.14028	08 18 25.83	+34 10 11.6	6 675
1988 CX <sub>1</sub>	1993 10 13.32934	00 56 18.22	+10 42 30.2	9 675	1990 FQ <sub>5</sub>	1990 03 19.16111	08 18 25.71	+34 10 10.1	6 675
1988 CX <sub>1</sub>	1993 10 15.25087	00 54 26.14	+10 30 35.5	9 675	1990 FQ <sub>5</sub>	1990 03 19.18194	08 18 25.60	+34 10 08.3	6 675
1988 CC <sub>2</sub>	1992 04 05.23542	10 26 03.79	+05 58 35.3	9 675	1990 HK	1954 07 05.43264	21 45 58.94	+03 38 19.8	6 675
1988 CC <sub>2</sub>	1992 04 05.27031	10 26 02.83	+05 58 37.9	9 675	1990 HK	1954 07 05.45694	21 45 58.44	+03 38 21.5	6 675
1988 CK <sub>4</sub>	1954 07 04.42986	21 45 09.07	-07 49 53.9	6 675	1990 HF <sub>1</sub>	1993 12 14.43524	07 12 18.00	+06 19 25.6	15.5 2 675
1988 CK <sub>4</sub>	1954 07 04.45417	21 45 08.43	-07 49 45.3	6 675	1990 HF <sub>1</sub>	1993 12 14.45677	07 12 17.23	+06 19 28.9	2 675
1988 PX <sub>2</sub>	1991 02 09.43194	11 18 20.10	-01 05 13.5	9 675	1990 HF <sub>1</sub>	1993 12 16.39427	07 10 58.45	+06 26 26.9	2 675
1988 PX <sub>2</sub>	1991 02 09.48003	11 18 18.55	-01 04 58.4	9 675	1990 HF <sub>1</sub>	1993 12 16.41771	07 10 57.47	+06 26 32.0	2 675
1988 RA <sub>2</sub>	1992 11 26.15017	00 50 30.83	+02 29 49.2	9 675	1990 QP <sub>3</sub>	1950 06 15.27986	16 19 35.86	-19 46 42.2	6 675
1988 RA <sub>2</sub>	1992 11 26.18125	00 50 31.24	+02 29 52.6	9 675	1990 QP <sub>3</sub>	1950 06 15.30590	16 19 34.61	-19 46 42.1	6 675
1988 RA <sub>2</sub>	1992 11 28.13854	00 51 07.36	+02 33 50.5	9 675	1990 SH <sub>1</sub>	1992 02 26.28247	10 17 34.00	-00 20 08.9	9 675
1988 RA <sub>2</sub>	1992 11 28.17170	00 51 07.97	+02 33 55.8	9 675	1990 SH <sub>1</sub>	1992 02 26.31528	10 17 32.21	-00 19 55.3	9 675
1988 RX <sub>4</sub>	1950 06 15.27986	15 57 49.49	-17 02 46.9	6 675	1990 SO <sub>4</sub>	1992 04 05.23542	10 16 50.02	+01 12 21.5	9 675
1988 RX <sub>4</sub>	1950 06 15.30590	15 57 48.15	-17 02 44.8	6 675	1990 SO <sub>4</sub>	1992 04 05.27031	10 16 48.99	+01 12 29.0	9 675
1988 RX <sub>12</sub>	1991 02 09.43194	11 18 18.72	-03 13 09.8	9 675	1990 TO <sub>1</sub>	1992 05 02.31563	14 11 26.15	-21 11 20.2	16.5 2 675
1988 RX <sub>12</sub>	1991 02 09.48003	11 18 17.13	-03 12 59.8	9 675	1990 TO <sub>1</sub>	1992 05 02.33941	14 11 24.69	-21 10 52.0	2 675
1988 TN <sub>2</sub>	1992 10 03.27847	00 23 44.85	+05 45 37.8	9 675	1991 CE <sub>1</sub>	1991 02 09.43194	11 06 03.17	-01 30 41.7	17.0 9 675
1988 TN <sub>2</sub>	1992 10 03.31354	00 23 43.38	+05 45 05.1	9 675	1991 CE <sub>1</sub>	1991 02 09.48003	11 06 01.66	-01 30 33.2	9 675

1991 CH <sub>6</sub>	* 1991 02 09.43194	11 07 03.82	-01 36 16.7	16.8	9 675	1992 PV <sub>6</sub>	1992 08 02.37118	22 12 23.33	-13 23 42.7	9 675
1991 CH <sub>6</sub>	1991 02 09.48003	11 07 01.51	-01 36 24.2		9 675	1992 RD <sub>1</sub>	1992 09 30.27413	00 06 11.67	+02 37 38.4	9 675
1991 CJ <sub>6</sub>	* 1991 02 09.43194	11 16 31.71	-03 03 57.0	17.2	9 675	1992 RD <sub>1</sub>	1992 09 30.31094	00 06 09.49	+02 37 36.5	9 675
1991 CJ <sub>6</sub>	1991 02 09.48003	11 16 29.81	-03 03 46.5		9 675	1992 RD <sub>1</sub>	1992 10 03.27847	00 03 26.09	+02 36 00.6	9 675
1991 CK <sub>6</sub>	* 1991 02 09.43194	11 22 02.72	-04 01 07.8	17.5	9 675	1992 RD <sub>1</sub>	1992 10 03.31354	00 03 24.07	+02 35 57.6	9 675
1991 CK <sub>6</sub>	1991 02 09.48003	11 22 01.14	-04 01 02.5		9 675	1992 SG	1992 10 03.27847	00 23 13.98	+07 11 51.7	9 675
1991 DK	1991 02 11.27274	12 09 06.51	+02 42 34.5		9 675	1992 SG	1992 10 03.31354	00 23 11.51	+07 11 50.3	9 675
1991 DK	1991 02 11.30382	12 09 05.43	+02 42 34.9		9 675	1992 SC <sub>1</sub>	1992 11 26.15017	00 58 02.59	-01 57 26.0	9 675
1991 DN <sub>1</sub>	1950 06 15.27986	16 01 20.56	-20 34 50.5		6 675	1992 SC <sub>1</sub>	1992 11 26.18125	00 58 03.02	-01 57 19.1	9 675
1991 DN <sub>1</sub>	1950 06 15.30590	16 01 19.39	-20 34 47.5		6 675	1992 SC <sub>1</sub>	1992 11 28.13854	00 58 33.53	-01 49 26.1	9 675
1991 DN <sub>1</sub>	1993 10 10.30035	01 27 15.30	+06 08 50.2		9 675	1992 SC <sub>1</sub>	1992 11 28.17170	00 58 33.97	-01 49 19.0	9 675
1991 DN <sub>1</sub>	1993 10 10.33767	01 27 13.26	+06 08 38.7		9 675	1992 SD <sub>1</sub>	1992 11 26.15017	00 48 51.02	+00 38 25.7	9 675
1991 DN <sub>1</sub>	1993 10 13.29722	01 24 34.79	+05 54 08.8		9 675	1992 SD <sub>1</sub>	1992 11 26.18125	00 48 50.91	+00 38 37.0	9 675
1991 DN <sub>1</sub>	1993 10 13.33628	01 24 32.61	+05 53 57.1		9 675	1992 SD <sub>1</sub>	1992 11 28.13854	00 48 47.07	+00 49 54.1	9 675
1991 EB	1951 12 01.23577	03 57 38.98	+21 31 55.4		6 675	1992 SD <sub>1</sub>	1992 11 28.17170	00 48 47.03	+00 50 06.6	9 675
1991 EB	1951 12 01.26250	03 57 37.37	+21 31 48.8		6 675	1992 SE <sub>1</sub>	1992 11 26.15017	00 49 16.58	-01 15 13.0	9 675
1991 EA <sub>1</sub>	1993 10 14.28125	01 47 58.77	+07 11 13.5		9 675	1992 SE <sub>1</sub>	1992 11 26.18125	00 49 16.42	-01 15 04.2	9 675
1991 EA <sub>1</sub>	1993 10 14.31736	01 47 56.85	+07 11 07.9		9 675	1992 SE <sub>1</sub>	1992 11 28.13854	00 48 58.33	-01 04 33.3	9 675
1991 EA <sub>1</sub>	1993 10 15.27257	01 47 06.49	+07 08 25.8		9 675	1992 SE <sub>1</sub>	1992 11 28.17170	00 48 57.95	-01 04 22.6	9 675
1991 EF <sub>2</sub>	1991 02 09.43194	11 08 00.18	+01 46 45.2		9 675	1992 ST <sub>2</sub>	1992 09 30.27413	00 00 50.90	+09 05 10.8	9 675
1991 EF <sub>2</sub>	1991 02 09.48003	11 07 58.43	+01 47 02.2		9 675	1992 ST <sub>2</sub>	1992 09 30.31094	00 00 49.42	+09 04 22.7	9 675
1991 EJ <sub>4</sub>	1991 03 13.21111	10 26 17.36	+06 58 53.0		9 675	1992 ST <sub>2</sub>	1992 10 03.27847	23 58 56.29	+07 57 36.7	9 675
1991 EJ <sub>4</sub>	1991 03 13.24219	10 26 15.87	+06 59 00.0		9 675	1992 ST <sub>2</sub>	1992 10 03.31354	23 58 54.90	+07 56 49.4	9 675
1991 JB <sub>1</sub>	1993 10 14.28125	01 49 55.51	+05 10 29.8		9 675	1992 SX <sub>12</sub>	1992 11 26.15017	00 45 43.94	+00 08 01.7	9 675
1991 JB <sub>1</sub>	1993 10 14.31736	01 49 53.88	+05 10 20.9		9 675	1992 SX <sub>12</sub>	1992 11 26.18125	00 45 44.55	+00 08 06.5	9 675
1991 JB <sub>1</sub>	1993 10 15.27257	01 49 11.67	+05 06 48.5		9 675	1992 SX <sub>12</sub>	1992 11 28.13854	00 46 33.20	+00 14 21.3	9 675
1991 TB <sub>1</sub>	1985 03 20.42361	13 12 15.97	+08 09 48.3		3 675	1992 SX <sub>12</sub>	1992 11 28.17170	00 46 33.99	+00 14 27.1	9 675
1991 TB <sub>1</sub>	1985 03 20.44375	13 12 06.44	+08 07 13.3		3 675	1992 SZ <sub>23</sub>	1992 10 03.27847	00 11 46.15	+10 48 50.2	9 675
1991 UC <sub>1</sub>	1949 11 23.22847	01 37 01.72	+04 35 42.7		6 675	1992 SZ <sub>23</sub>	1992 10 03.31354	00 11 44.45	+10 48 38.0	9 675
1991 UC <sub>1</sub>	1949 11 23.25590	01 37 00.97	+04 35 37.0		6 675	1992 SA <sub>24</sub>	1992 09 30.27413	00 14 56.84	+10 16 46.7	9 675
1991 UB <sub>3</sub>	1953 12 07.42396	06 30 14.32	+27 25 24.5		6 675	1992 SA <sub>24</sub>	1992 09 30.31094	00 14 55.25	+10 16 25.4	9 675
1991 UB <sub>3</sub>	1953 12 07.44792	06 30 12.89	+27 25 31.3		6 675	1992 SA <sub>24</sub>	1992 10 03.27847	00 12 51.06	+09 47 33.8	9 675
1992 FV	1993 10 14.28125	01 49 47.67	+04 15 19.3		9 675	1992 SA <sub>24</sub>	1992 10 03.31354	00 12 49.53	+09 47 12.8	9 675
1992 FV	1993 10 14.31736	01 49 45.27	+04 15 07.5		9 675	1992 SC <sub>24</sub>	1992 09 30.27413	00 04 48.06	+10 12 41.3	16.2 9 675
1992 FV	1993 10 15.27257	01 48 44.80	+04 09 53.1		9 675	1992 SC <sub>24</sub>	1992 09 30.31094	00 04 45.71	+10 12 21.2	9 675
1992 GZ	1993 10 10.30035	01 13 50.75	+09 18 03.0		9 675	1992 SC <sub>24</sub>	1992 10 03.27847	00 02 18.83	+09 47 19.2	9 675
1992 GZ	1993 10 10.33767	01 13 48.61	+09 17 51.1		9 675	1992 SC <sub>24</sub>	1992 10 03.31354	00 02 17.01	+09 47 01.2	9 675
1992 GZ	1993 10 13.29722	01 11 05.59	+09 03 12.8		9 675	1992 SV <sub>24</sub>	* 1992 09 29.27795	00 00 36.02	+09 19 49.2	17.0 9 675
1992 GZ	1993 10 13.33628	01 11 03.38	+09 03 00.6		9 675	1992 SV <sub>24</sub>	1992 09 29.31580	00 00 34.38	+09 19 28.9	9 675
1992 GF <sub>4</sub>	1993 10 14.28125	01 49 36.99	+07 36 35.8		9 675	1992 SV <sub>24</sub>	1992 09 30.27413	23 59 57.35	+09 10 46.8	9 675
1992 GF <sub>4</sub>	1993 10 14.31736	01 49 34.56	+07 36 37.2		9 675	1992 SV <sub>24</sub>	1992 09 30.31094	23 59 55.88	+09 10 26.5	9 675
1992 GF <sub>4</sub>	1993 10 15.27257	01 48 34.46	+07 37 20.3		9 675	1992 SV <sub>24</sub>	1992 10 03.27847	23 58 03.80	+08 43 02.4	9 675
1992 NP	1993 12 14.39861	06 37 39.34	+31 30 11.7	16.0	2 675	1992 SV <sub>24</sub>	1992 10 03.31354	23 58 02.46	+08 42 42.6	9 675
1992 NP	1993 12 14.41649	06 37 38.14	+31 30 11.6		2 675	1992 SW <sub>24</sub>	* 1992 09 29.27795	23 59 45.10	+09 28 23.6	16.5 9 675
1992 NP	1993 12 16.26024	06 35 31.75	+31 25 52.5		2 675	1992 SW <sub>24</sub>	1992 09 29.31580	23 59 43.57	+09 27 50.8	9 675
1992 NP	1993 12 16.38281	06 35 22.74	+31 25 37.1		2 675	1992 SW <sub>24</sub>	1992 09 30.27413	23 59 09.95	+09 13 54.5	9 675
1992 OF	1992 11 26.18125	00 39 00.89	+00 28 18.3		9 675	1992 SW <sub>24</sub>	1992 09 30.31094	23 59 08.58	+09 13 22.5	9 675
1992 OF	1992 11 28.13854	00 40 29.15	+00 46 49.1		9 675	1992 SW <sub>24</sub>	1992 10 03.27847	23 57 28.20	+08 29 58.0	9 675
1992 OF	1992 11 28.17170	00 40 30.67	+00 47 08.4		9 675	1992 SW <sub>24</sub>	1992 10 03.31354	23 57 26.95	+08 29 27.5	9 675
1992 OC <sub>7</sub>	1992 08 06.36493	22 01 27.82	-10 47 33.3		9 675	1992 SX <sub>24</sub>	* 1992 09 30.27413	00 00 20.74	+10 38 08.3	17.2 9 675
1992 OC <sub>7</sub>	1992 08 06.40416	22 01 26.05	-10 47 40.6		9 675	1992 SX <sub>24</sub>	1992 09 30.31094	00 00 19.08	+10 37 47.3	9 675
1992 PV <sub>6</sub>	* 1992 08 02.32882	22 12 25.09	-13 23 28.7	17.5	9 675	1992 SX <sub>24</sub>	1992 10 03.27847	23 58 20.48	+10 09 52.9	9 675

1992 SX <sub>24</sub>	1992 10 03.31354	23 58 18.88	+10 09 36.4		9 675	1992 SL <sub>25</sub>	1992 10 03.31354	00 09 40.07	+05 14 10.0		9 675
1992 SY <sub>24</sub>	* 1992 09 30.27413	00 00 21.41	+04 07 32.4	17.2	9 675	1992 SM <sub>25</sub>	* 1992 09 30.27413	00 12 51.75	+10 51 21.0	17.2	9 675
1992 SY <sub>24</sub>	1992 09 30.31094	00 00 19.31	+04 07 29.0		9 675	1992 SM <sub>25</sub>	1992 09 30.31094	00 12 49.41	+10 51 18.3		9 675
1992 SY <sub>24</sub>	1992 10 03.27847	23 57 45.45	+04 02 46.0		9 675	1992 SM <sub>25</sub>	1992 10 03.27847	00 09 47.77	+10 47 57.4		9 675
1992 SY <sub>24</sub>	1992 10 03.31354	23 57 43.56	+04 02 42.0		9 675	1992 SM <sub>25</sub>	1992 10 03.31354	00 09 45.57	+10 47 54.6		9 675
1992 SZ <sub>24</sub>	* 1992 09 30.27413	00 00 33.01	+08 37 04.8	17.0	9 675	1992 SN <sub>25</sub>	* 1992 09 30.27413	00 12 58.48	+09 32 43.0		9 675
1992 SZ <sub>24</sub>	1992 09 30.31094	00 00 31.00	+08 36 55.6		9 675	1992 SN <sub>25</sub>	1992 09 30.31094	00 12 56.03	+09 32 43.3		9 675
1992 SZ <sub>24</sub>	1992 10 03.27847	23 58 00.60	+08 23 58.9		9 675	1992 SN <sub>25</sub>	1992 10 03.27847	00 09 50.87	+09 32 17.6		9 675
1992 SZ <sub>24</sub>	1992 10 03.31354	23 57 58.77	+08 23 49.3		9 675	1992 SN <sub>25</sub>	1992 10 03.31354	00 09 48.65	+09 32 14.9		9 675
1992 SA <sub>25</sub>	* 1992 09 30.27413	00 02 08.52	+05 49 52.4	16.2	9 675	1992 SO <sub>25</sub>	* 1992 09 30.27413	00 15 06.80	+05 24 48.1	18.2	9 675
1992 SA <sub>25</sub>	1992 09 30.31094	00 02 07.38	+05 49 17.3		9 675	1992 SO <sub>25</sub>	1992 09 30.31094	00 15 05.27	+05 24 30.9		9 675
1992 SA <sub>25</sub>	1992 10 03.27847	00 00 48.97	+05 00 44.0	16.5	9 675	1992 SO <sub>25</sub>	1992 10 03.27847	00 13 06.67	+05 02 28.2		9 675
1992 SA <sub>25</sub>	1992 10 03.31354	00 00 47.98	+05 00 10.1		9 675	1992 SO <sub>25</sub>	1992 10 03.31354	00 13 05.19	+05 02 12.6		9 675
1992 SB <sub>25</sub>	* 1992 09 30.27413	00 02 30.19	+06 31 12.8	16.8	9 675	1992 SP <sub>25</sub>	* 1992 09 30.27413	00 15 32.01	+06 23 56.0	17.8	9 675
1992 SB <sub>25</sub>	1992 09 30.31094	00 02 28.05	+06 31 10.4		9 675	1992 SP <sub>25</sub>	1992 09 30.31094	00 15 29.66	+06 23 52.5		9 675
1992 SB <sub>25</sub>	1992 10 03.27847	23 59 41.08	+06 26 13.2		9 675	1992 SP <sub>25</sub>	1992 10 03.27847	00 12 26.74	+06 20 32.6		9 675
1992 SB <sub>25</sub>	1992 10 03.31354	23 59 39.02	+06 26 10.2		9 675	1992 SP <sub>25</sub>	1992 10 03.31354	00 12 24.55	+06 20 29.0		9 675
1992 SC <sub>25</sub>	* 1992 09 30.27413	00 05 11.44	+05 49 03.2	17.2	9 675	1992 SQ <sub>25</sub>	* 1992 09 30.27413	00 17 07.04	+07 26 34.9	17.0	9 675
1992 SC <sub>25</sub>	1992 09 30.31094	00 05 09.64	+05 48 42.7		9 675	1992 SQ <sub>25</sub>	1992 09 30.31094	00 17 05.38	+07 26 17.3		9 675
1992 SC <sub>25</sub>	1992 10 03.27847	00 02 59.15	+05 20 35.8		9 675	1992 SQ <sub>25</sub>	1992 10 03.27847	00 14 52.92	+07 03 25.0		9 675
1992 SC <sub>25</sub>	1992 10 03.31354	00 02 57.54	+05 20 16.7		9 675	1992 SQ <sub>25</sub>	1992 10 03.31354	00 14 51.32	+07 03 07.8		9 675
1992 SD <sub>25</sub>	* 1992 09 30.27413	00 05 15.65	+04 49 13.5	17.5	9 675	1992 SR <sub>25</sub>	* 1992 09 30.27413	00 19 00.30	+05 25 21.9	17.0	9 675
1992 SD <sub>25</sub>	1992 09 30.31094	00 05 13.66	+04 48 53.6		9 675	1992 SR <sub>25</sub>	1992 09 30.31094	00 18 58.26	+05 25 16.8		9 675
1992 SD <sub>25</sub>	1992 10 03.27847	00 02 41.11	+04 21 48.4		9 675	1992 SR <sub>25</sub>	1992 10 03.27847	00 16 19.68	+05 19 55.6		9 675
1992 SD <sub>25</sub>	1992 10 03.31354	00 02 39.25	+04 21 29.6		9 675	1992 SR <sub>25</sub>	1992 10 03.31354	00 16 17.73	+05 19 52.5		9 675
1992 SE <sub>25</sub>	* 1992 09 30.27413	00 05 43.98	+10 11 35.3	18.0	9 675	1992 SS <sub>25</sub>	* 1992 09 30.27413	00 19 48.57	+04 07 27.5	17.5	9 675
1992 SE <sub>25</sub>	1992 09 30.31094	00 05 41.93	+10 11 25.0		9 675	1992 SS <sub>25</sub>	1992 09 30.31094	00 19 46.71	+04 07 10.0		9 675
1992 SE <sub>25</sub>	1992 10 03.27847	00 03 02.37	+09 55 03.3		9 675	1992 SS <sub>25</sub>	1992 10 03.27847	00 17 32.96	+03 46 02.0		9 675
1992 SE <sub>25</sub>	1992 10 03.31354	00 03 00.05	+09 54 52.2		9 675	1992 SS <sub>25</sub>	1992 10 03.31354	00 17 31.36	+03 45 47.8		9 675
1992 SF <sub>25</sub>	* 1992 09 30.27413	00 08 32.73	+05 17 02.7	17.0	9 675	1992 ST <sub>25</sub>	* 1992 09 30.27413	00 21 33.14	+08 36 33.0	17.8	9 675
1992 SF <sub>25</sub>	1992 09 30.31094	00 08 31.07	+05 16 43.8		9 675	1992 ST <sub>25</sub>	1992 09 30.31094	00 21 31.57	+08 36 16.4		9 675
1992 SF <sub>25</sub>	1992 10 03.27847	00 06 29.73	+04 51 40.9		9 675	1992 ST <sub>25</sub>	1992 10 03.27847	00 19 25.99	+08 14 46.4		9 675
1992 SF <sub>25</sub>	1992 10 03.31354	00 06 28.30	+04 51 22.9		9 675	1992 ST <sub>25</sub>	1992 10 03.31354	00 19 24.38	+08 14 30.1		9 675
1992 SG <sub>25</sub>	* 1992 09 30.27413	00 08 34.50	+04 05 40.5	17.5	9 675	1992 SU <sub>25</sub>	* 1992 09 30.27413	00 22 05.22	+07 48 42.0	18.0	9 675
1992 SG <sub>25</sub>	1992 09 30.31094	00 08 32.37	+04 05 23.2		9 675	1992 SU <sub>25</sub>	1992 09 30.31094	00 22 03.20	+07 48 39.1		9 675
1992 SG <sub>25</sub>	1992 10 03.27847	00 05 50.64	+03 42 55.8		9 675	1992 SU <sub>25</sub>	1992 10 03.27847	00 19 23.34	+07 47 10.3		9 675
1992 SG <sub>25</sub>	1992 10 03.31354	00 05 48.60	+03 42 38.6		9 675	1992 SU <sub>25</sub>	1992 10 03.31354	00 19 21.39	+07 47 07.4		9 675
1992 SH <sub>25</sub>	* 1992 09 30.27413	00 09 20.44	+03 43 00.5	16.8	9 675	1992 SV <sub>25</sub>	* 1992 09 30.27413	00 24 13.43	+07 09 22.0	17.0	9 675
1992 SH <sub>25</sub>	1992 09 30.31094	00 09 18.08	+03 42 50.8		9 675	1992 SV <sub>25</sub>	1992 09 30.31094	00 24 10.91	+07 09 22.6		9 675
1992 SH <sub>25</sub>	1992 10 03.27847	00 06 26.39	+03 30 49.3		9 675	1992 SV <sub>25</sub>	1992 10 03.27847	00 20 54.28	+07 10 36.9		9 675
1992 SH <sub>25</sub>	1992 10 03.31354	00 06 24.27	+03 30 39.6		9 675	1992 SV <sub>25</sub>	1992 10 03.31354	00 20 51.87	+07 10 37.4		9 675
1992 SJ <sub>25</sub>	* 1992 09 30.27413	00 10 41.16	+04 59 43.6	17.5	9 675	1992 SW <sub>25</sub>	* 1992 09 30.27413	23 59 59.45	+03 20 37.4	17.2	9 675
1992 SJ <sub>25</sub>	1992 09 30.31094	00 10 38.96	+04 59 29.2		9 675	1992 SW <sub>25</sub>	1992 09 30.31094	23 59 57.30	+03 20 33.3		9 675
1992 SJ <sub>25</sub>	1992 10 03.27847	00 07 48.92	+04 39 26.1		9 675	1992 SW <sub>25</sub>	1992 10 03.27847	23 57 27.77	+03 14 49.5		9 675
1992 SJ <sub>25</sub>	1992 10 03.31354	00 07 46.91	+04 39 11.6		9 675	1992 SW <sub>25</sub>	1992 10 03.31354	23 57 25.92	+03 14 44.7		9 675
1992 SK <sub>25</sub>	* 1992 09 30.27413	00 10 42.49	+07 26 44.2	17.0	9 675	1992 TY	1992 11 26.15017	01 00 28.62	-01 57 25.2		9 675
1992 SK <sub>25</sub>	1992 09 30.31094	00 10 40.93	+07 26 28.7		9 675	1992 TY	1992 11 26.18125	01 00 28.58	-01 57 17.5		9 675
1992 SK <sub>25</sub>	1992 10 03.27847	00 08 36.58	+07 05 01.8		9 675	1992 TY	1992 11 28.13854	01 00 37.21	-01 50 13.2		9 675
1992 SK <sub>25</sub>	1992 10 03.31354	00 08 35.06	+07 04 45.4		9 675	1992 TY	1992 11 28.17170	01 00 37.33	-01 50 05.9		9 675
1992 SL <sub>25</sub>	* 1992 09 30.27413	00 12 01.20	+05 24 50.7	17.5	9 675	1992 TU <sub>1</sub>	1992 09 30.27413	00 15 10.54	+09 46 59.4	17.5	9 675
1992 SL <sub>25</sub>	1992 09 30.31094	00 11 59.36	+05 24 43.4		9 675	1992 TU <sub>1</sub>	1992 09 30.31094	00 15 08.14	+09 46 59.6		9 675
1992 SL <sub>25</sub>	1992 10 03.27847	00 09 41.75	+05 14 17.6		9 675	1992 TU <sub>1</sub>	1992 10 03.27847	00 12 02.91	+09 46 59.4		9 675

1992 TU <sub>1</sub>	1992 10 03.31354	00 12 00.71	+09 46 58.8	9 675	1993 RR <sub>3</sub>	1993 09 14.16563	21 15 05.78	+00 42 24.0	16.2	2 675
1992 TU <sub>1</sub>	* 1992 10 04.23247	00 11 04.04	+09 46 50.6	9 675	1993 RR <sub>3</sub>	1993 09 14.20017	21 15 04.80	+00 42 07.6	16.1	2 675
1992 TU <sub>1</sub>	1992 10 04.27257	00 11 01.47	+09 46 51.1	9 675	1993 RS <sub>3</sub>	1993 08 21.31128	21 33 21.68	+09 00 35.8	16.0	2 675
1992 UQ <sub>2</sub>	1992 11 26.15017	00 55 00.56	-01 14 59.8	9 675	1993 RS <sub>3</sub>	1993 08 21.33212	21 33 20.37	+09 00 31.3		2 675
1992 UQ <sub>2</sub>	1992 11 26.18125	00 54 59.99	-01 14 24.6	9 675	1993 RS <sub>3</sub>	1993 08 23.29878	21 31 43.38	+08 45 46.3		2 675
1992 UQ <sub>2</sub>	1992 11 28.13854	00 54 33.29	-00 37 43.4	9 675	1993 RS <sub>3</sub>	1993 08 23.32674	21 31 42.03	+08 45 31.8		2 675
1992 UQ <sub>2</sub>	1992 11 28.17170	00 54 32.83	-00 37 06.2	9 675	1993 RS <sub>3</sub>	* 1993 09 12.18819	21 18 10.99	+05 26 04.6	16.2	2 675
1992 UT <sub>2</sub>	1992 11 26.15017	01 04 37.96	-00 10 52.9	9 675	1993 RS <sub>3</sub>	1993 09 12.21545	21 18 10.22	+05 25 47.4	15.8	2 675
1992 UT <sub>2</sub>	1992 11 26.18125	01 04 38.02	-00 10 38.0	9 675	1993 RS <sub>3</sub>	1993 09 14.16563	21 17 18.04	+05 03 00.3	16.4	2 675
1992 UT <sub>2</sub>	1992 11 28.13854	01 04 50.43	+00 04 29.1	9 675	1993 RS <sub>3</sub>	1993 09 14.20017	21 17 17.09	+05 02 36.6	15.8	2 675
1992 UT <sub>2</sub>	1992 11 28.17170	01 04 50.56	+00 04 42.6	9 675	1993 RT <sub>3</sub>	* 1993 09 12.18819	21 18 19.40	+00 27 23.2	16.1	2 675
1992 UU <sub>2</sub>	1992 11 26.15017	01 05 15.69	+00 00 20.6	9 675	1993 RT <sub>3</sub>	1993 09 14.16563	21 17 52.77	+00 04 26.0	15.9	2 675
1992 UU <sub>2</sub>	1992 11 26.18125	01 05 15.81	+00 00 36.9	9 675	1993 RT <sub>3</sub>	1993 09 14.20017	21 17 52.28	+00 04 01.6	16.3	2 675
1992 UU <sub>2</sub>	1992 11 28.13854	01 05 31.25	+00 16 47.8	9 675	1993 RU <sub>3</sub>	1993 08 21.31128	21 48 46.79	+06 20 39.9	16.5	2 675
1992 UU <sub>2</sub>	1992 11 28.17170	01 05 31.51	+00 17 04.4	9 675	1993 RU <sub>3</sub>	1993 08 21.33212	21 48 45.74	+06 20 36.7		2 675
1992 WS	1954 07 04.42986	21 34 03.68	-06 13 43.6	6 675	1993 RU <sub>3</sub>	1993 08 23.29878	21 47 05.79	+06 13 17.4		2 675
1992 WS	1954 07 04.45417	21 34 03.46	-06 13 36.6	6 675	1993 RU <sub>3</sub>	1993 08 23.32674	21 47 04.42	+06 13 08.8		2 675
1992 WG <sub>9</sub>	* 1992 11 26.15017	00 53 10.43	-03 18 39.8	17.0 9 675	1993 RU <sub>3</sub>	* 1993 09 12.18819	21 32 34.78	+04 29 53.4	16.8	2 675
1992 WG <sub>9</sub>	1992 11 26.18125	00 53 09.42	-03 18 09.0	9 675	1993 RU <sub>3</sub>	1993 09 12.21545	21 32 33.84	+04 29 44.0	16.4	2 675
1992 WG <sub>9</sub>	1992 11 28.13854	00 52 16.58	-02 46 25.5	9 675	1993 RU <sub>3</sub>	1993 09 14.16563	21 31 30.26	+04 17 50.4	17.1	2 675
1992 WG <sub>9</sub>	1992 11 28.17170	00 52 15.72	-02 45 52.1	9 675	1993 RU <sub>3</sub>	1993 09 14.20017	21 31 29.04	+04 17 35.6	16.6	2 675
1993 BC	1951 12 01.23577	03 45 09.57	+20 57 17.8	6 675	1993 RV <sub>3</sub>	* 1993 09 12.18819	21 33 16.76	+05 41 40.6	16.3	2 675
1993 BC	1951 12 01.26250	03 45 08.06	+20 57 11.0	6 675	1993 RV <sub>3</sub>	1993 09 12.21545	21 33 15.46	+05 41 29.7	16.1	2 675
1993 CK	1954 07 28.43681	23 53 42.83	-07 27 59.4	6 675	1993 RV <sub>3</sub>	1993 09 14.16563	21 32 00.64	+05 28 49.6	16.3	2 675
1993 CK	1954 07 28.46111	23 53 42.66	-07 28 00.8	6 675	1993 RV <sub>3</sub>	1993 09 14.20017	21 31 59.43	+05 28 35.8	16.0	2 675
1993 GE	1953 01 10.16806	04 55 25.48	+40 17 09.3	6 675	1993 RW <sub>3</sub>	1993 08 20.33125	21 57 12.25	+00 33 36.9	16.0	2 675
1993 GE	1953 01 10.18472	04 55 24.62	+40 17 08.8	6 675	1993 RW <sub>3</sub>	1993 08 20.35451	21 57 10.92	+00 33 43.6		2 675
1993 OA <sub>3</sub>	1954 08 09.35312	22 48 45.94	+31 39 45.2	6 675	1993 RW <sub>3</sub>	1993 08 21.41875	21 56 07.61	+00 38 58.8		2 675
1993 OA <sub>3</sub>	1954 08 09.39583	22 48 43.94	+31 40 40.4	6 675	1993 RW <sub>3</sub>	* 1993 09 12.18819	21 37 32.25	+01 42 02.8	17.2	2 675
1993 OH <sub>12</sub>	1971 03 25.33090	12 28 52.96	-06 57 34.1	19.5 4 675	1993 RW <sub>3</sub>	1993 09 12.21545	21 37 31.07	+01 42 04.6	17.0	2 675
1993 OH <sub>12</sub>	1971 03 26.29653	12 28 03.69	-06 52 08.9	19.5 4 675	1993 RW <sub>3</sub>	1993 09 14.16563	21 36 23.75	+01 44 23.1	16.7	2 675
1993 OH <sub>12</sub>	1971 03 26.33611	12 28 01.66	-06 51 56.2	19.5 4 675	1993 RW <sub>3</sub>	1993 09 14.20017	21 36 22.38	+01 44 25.9	16.4	2 675
1993 OH <sub>12</sub>	1971 04 16.18087	12 11 01.71	-04 50 32.0	20.0 4 675	1993 RX <sub>3</sub>	1993 08 20.33125	21 54 45.96	+02 45 12.5	16.0	2 675
1993 OH <sub>12</sub>	1971 04 16.26458	12 10 58.02	-04 50 02.0	20.0 4 675	1993 RX <sub>3</sub>	1993 08 20.35451	21 54 44.93	+02 45 10.6		2 675
1993 RP <sub>3</sub>	1993 08 21.31128	21 31 38.15	+04 09 24.5	16.0 2 675	1993 RX <sub>3</sub>	1993 08 21.41875	21 53 52.12	+02 44 21.5		2 675
1993 RP <sub>3</sub>	1993 08 21.33212	21 31 36.76	+04 09 24.2	2 675	1993 RX <sub>3</sub>	* 1993 09 12.18819	21 37 34.01	+02 04 09.1	15.9	2 675
1993 RP <sub>3</sub>	1993 08 23.29878	21 29 46.32	+04 04 02.3	2 675	1993 RX <sub>3</sub>	1993 09 12.21545	21 37 32.97	+02 04 05.4	16.0	2 675
1993 RP <sub>3</sub>	1993 08 23.32674	21 29 44.62	+04 03 56.1	2 675	1993 RX <sub>3</sub>	1993 09 14.16563	21 36 22.61	+01 58 59.9	16.0	2 675
1993 RP <sub>3</sub>	* 1993 09 12.18819	21 13 33.42	+02 41 44.2	16.1 2 675	1993 RX <sub>3</sub>	1993 09 14.20017	21 36 21.29	+01 58 54.0	15.9	2 675
1993 RP <sub>3</sub>	1993 09 12.21545	21 13 32.24	+02 41 36.3	15.8 2 675	1993 RY <sub>3</sub>	* 1993 09 12.18819	21 38 16.94	+04 16 14.5	15.5	2 675
1993 RP <sub>3</sub>	1993 09 14.16563	21 12 20.01	+02 31 42.4	16.1 2 675	1993 RY <sub>3</sub>	1993 09 12.21545	21 38 16.20	+04 15 51.8	15.8	2 675
1993 RP <sub>3</sub>	1993 09 14.20017	21 12 18.75	+02 31 32.6	16.0 2 675	1993 RY <sub>3</sub>	1993 09 14.16563	21 37 35.40	+03 48 56.8	16.0	2 675
1993 RQ <sub>3</sub>	* 1993 09 12.18819	21 14 17.45	+01 45 19.4	15.7 2 675	1993 RY <sub>3</sub>	1993 09 14.20017	21 37 34.77	+03 48 26.8	15.9	2 675
1993 RQ <sub>3</sub>	1993 09 12.21545	21 14 17.28	+01 45 00.3	15.9 2 675	1993 SL <sub>3</sub>	1993 10 10.30035	01 12 34.93	+10 02 10.6		9 675
1993 RQ <sub>3</sub>	1993 09 14.16563	21 14 08.21	+01 23 12.8	16.5 2 675	1993 SL <sub>3</sub>	1993 10 10.33767	01 12 31.20	+10 02 26.5		9 675
1993 RQ <sub>3</sub>	1993 09 14.20017	21 14 08.07	+01 22 50.5	16.2 2 675	1993 SL <sub>3</sub>	1993 10 13.29722	01 07 42.13	+10 23 34.2		9 675
1993 RR <sub>3</sub>	1993 08 21.31128	21 30 18.63	+03 38 48.7	16.0 2 675	1993 SL <sub>3</sub>	1993 10 13.33628	01 07 38.21	+10 23 51.3		9 675
1993 RR <sub>3</sub>	1993 08 21.33212	21 30 17.48	+03 38 41.9	2 675	1993 SL <sub>3</sub>	1993 12 14.13403	00 28 10.17	+16 19 30.4	16.0	2 675
1993 RR <sub>3</sub>	1993 08 23.29878	21 28 44.32	+03 26 18.6	2 675	1993 SL <sub>3</sub>	1993 12 14.16441	00 28 10.93	+16 19 42.1		2 675
1993 RR <sub>3</sub>	1993 08 23.32674	21 28 42.82	+03 26 06.3	2 675	1993 SL <sub>3</sub>	1993 12 16.12569	00 29 07.01	+16 32 38.3		2 675
1993 RR <sub>3</sub>	* 1993 09 12.18819	21 15 56.69	+00 58 07.7	15.8 2 675	1993 SL <sub>3</sub>	1993 12 16.15000	00 29 07.81	+16 32 47.1		2 675
1993 RR <sub>3</sub>	1993 09 12.21545	21 15 55.94	+00 57 53.9	16.1 2 675	1993 SM <sub>3</sub>	1993 10 10.30035	01 22 33.76	+05 52 38.9		9 675

1993 SM <sub>3</sub>	1993 10 10.33767	01 22 32.06	+05 52 28.7		9 675	1993 TC <sub>1</sub>	1993 10 14.31736	01 35 34.44	+06 10 48.8		9 675
1993 SM <sub>3</sub>	1993 10 13.29722	01 20 19.56	+05 37 49.0		9 675	1993 TC <sub>1</sub>	1993 10 15.27257	01 34 35.49	+06 09 46.7		9 675
1993 SM <sub>3</sub>	1993 10 13.33628	01 20 17.71	+05 37 37.2		9 675	1993 TD <sub>1</sub>	1993 10 13.29722	01 38 49.81	+08 29 04.8		9 675
1993 SN <sub>3</sub>	1993 10 10.30035	01 24 54.45	+08 14 13.4	16.8	9 675	1993 TD <sub>1</sub>	1993 10 13.33628	01 38 46.63	+08 29 16.7		9 675
1993 SN <sub>3</sub>	1993 10 10.33767	01 24 52.76	+08 14 02.7		9 675	1993 TE <sub>1</sub>	1993 10 14.28125	01 41 38.21	+07 54 11.8		9 675
1993 SN <sub>3</sub>	1993 10 13.29722	01 22 40.55	+07 59 49.6		9 675	1993 TA <sub>3</sub>	1993 10 14.28125	01 38 49.34	+03 46 09.4	17.8	9 675
1993 SN <sub>3</sub>	1993 10 13.33628	01 22 38.81	+07 59 38.0		9 675	1993 TA <sub>3</sub>	1993 10 14.31736	01 38 47.15	+03 45 55.1		9 675
1993 SO <sub>3</sub>	1993 10 10.30035	01 25 19.41	+06 32 48.9	17.2	9 675	1993 TA <sub>3</sub>	1993 10 15.27257	01 37 52.56	+03 39 22.0		9 675
1993 SO <sub>3</sub>	1993 10 10.33767	01 25 17.37	+06 32 47.1		9 675	1993 TC <sub>3</sub>	1993 10 13.37135	01 46 06.60	+07 27 46.8	16.5	9 675
1993 SO <sub>3</sub>	1993 10 13.29722	01 22 38.74	+06 30 11.8		9 675	1993 TC <sub>3</sub>	1993 10 13.41493	01 46 04.16	+07 27 29.2		9 675
1993 SO <sub>3</sub>	1993 10 13.33628	01 22 36.56	+06 30 09.6		9 675	1993 TC <sub>3</sub>	1993 10 14.28125	01 45 21.52	+07 21 26.3		9 675
1993 SP <sub>3</sub>	1993 10 10.30035	01 37 50.90	+06 58 45.0	17.2	9 675	1993 TC <sub>3</sub>	1993 10 14.31736	01 45 19.56	+07 21 11.5		9 675
1993 SP <sub>3</sub>	1993 10 10.33767	01 37 49.09	+06 58 26.5		9 675	1993 TC <sub>3</sub>	1993 10 15.27257	01 44 31.77	+07 14 33.5		9 675
1993 SP <sub>3</sub>	1993 10 13.29722	01 35 33.34	+06 34 20.7		9 675	1993 TC <sub>3</sub>	1993 10 15.28611	01 44 31.13	+07 14 27.8		9 675
1993 SP <sub>3</sub>	1993 10 13.33628	01 35 31.35	+06 34 01.8		9 675	1993 TD <sub>3</sub>	1993 10 14.28125	01 45 56.06	+04 12 09.2	17.0	9 675
1993 SP <sub>3</sub>	1993 10 14.28125	01 34 47.24	+06 26 17.6	17.0	9 675	1993 TD <sub>3</sub>	1993 10 14.31736	01 45 54.40	+04 11 54.0		9 675
1993 SP <sub>3</sub>	1993 10 14.31736	01 34 45.41	+06 26 00.4		9 675	1993 TD <sub>3</sub>	1993 10 15.27257	01 45 13.11	+04 05 02.2		9 675
1993 SP <sub>3</sub>	1993 10 15.27257	01 34 00.39	+06 18 14.5		9 675	1993 TE <sub>3</sub>	1993 10 10.30035	01 31 44.84	+12 27 40.3		9 675
1993 SQ <sub>3</sub>	1993 10 10.30035	01 37 23.61	+07 24 39.4	17.5	9 675	1993 TE <sub>3</sub>	1993 10 10.33767	01 31 42.35	+12 27 39.7		9 675
1993 SQ <sub>3</sub>	1993 10 10.33767	01 37 21.86	+07 24 29.2		9 675	1993 TE <sub>3</sub>	1993 10 13.29722	01 28 23.64	+12 26 40.8		9 675
1993 SQ <sub>3</sub>	1993 10 13.29722	01 35 07.18	+07 13 37.8		9 675	1993 TE <sub>3</sub>	1993 10 13.33628	01 28 20.96	+12 26 38.8		9 675
1993 SQ <sub>3</sub>	1993 10 13.33628	01 35 05.37	+07 13 29.3		9 675	1993 TH <sub>3</sub>	1993 10 10.30035	01 30 18.42	+09 55 17.2	17.2	9 675
1993 TE	1993 10 10.30035	01 32 18.12	+06 55 59.7		9 675	1993 TH <sub>3</sub>	1993 10 10.33767	01 30 15.91	+09 54 52.8		9 675
1993 TE	1993 10 10.33767	01 32 16.60	+06 55 31.9		9 675	1993 TH <sub>3</sub>	1993 10 13.29722	01 27 04.86	+09 23 03.9		9 675
1993 TE	1993 10 13.29722	01 30 23.73	+06 19 04.0		9 675	1993 TH <sub>3</sub>	1993 10 13.33628	01 27 02.18	+09 22 39.0		9 675
1993 TE	1993 10 13.33628	01 30 22.07	+06 18 35.3		9 675	1993 TK <sub>11</sub>	1993 10 14.28125	01 45 59.38	+07 45 54.3		9 675
1993 TF	1993 10 14.28125	01 42 31.84	+07 10 56.9		9 675	1993 TK <sub>11</sub>	1993 10 15.27257	01 45 08.63	+07 37 27.0		9 675
1993 TF	1993 10 14.31736	01 42 29.85	+07 10 47.4		9 675	1993 TP <sub>11</sub>	1993 10 13.29722	01 36 45.50	+10 45 43.4		9 675
1993 TF	1993 10 15.27257	01 41 39.32	+07 06 23.8		9 675	1993 TP <sub>11</sub>	1993 10 13.33628	01 36 43.39	+10 45 39.2		9 675
1993 TN	1993 10 13.28333	01 17 23.03	+01 16 19.3	16.0	9 675	1993 TP <sub>12</sub>	1993 10 10.30035	01 20 22.00	+05 46 46.5	17.2	9 675
1993 TN	1993 10 13.32257	01 17 20.70	+01 16 08.8		9 675	1993 TP <sub>12</sub>	1993 10 10.33767	01 20 20.07	+05 46 23.4		9 675
1993 TN	1993 10 15.25833	01 15 31.56	+01 07 41.0		9 675	1993 TP <sub>12</sub>	1993 10 13.29722	01 17 55.84	+05 15 58.2		9 675
1993 TO	1993 10 10.30035	01 22 05.98	+06 41 44.5	16.5	9 675	1993 TP <sub>12</sub>	1993 10 13.33628	01 17 53.87	+05 15 34.7		9 675
1993 TO	1993 10 10.33767	01 22 03.30	+06 41 55.3		9 675	1993 TW <sub>12</sub>	1993 10 14.28125	01 30 49.43	+03 15 49.7	17.5	9 675
1993 TO	1993 10 13.29722	01 18 39.65	+06 55 58.3		9 675	1993 TW <sub>12</sub>	1993 10 14.31736	01 30 47.13	+03 15 45.9		9 675
1993 TO	1993 10 13.33628	01 18 36.84	+06 56 09.1		9 675	1993 TW <sub>12</sub>	1993 10 15.27257	01 29 46.91	+03 13 52.5		9 675
1993 TR	1993 10 13.29722	01 29 59.57	+12 10 35.7		9 675	1993 TX <sub>12</sub>	* 1993 10 13.29027	00 48 24.10	+15 18 38.7	17.0	9 675
1993 TR	1993 10 13.33628	01 29 57.53	+12 10 27.2		9 675	1993 TX <sub>12</sub>	1993 10 13.32934	00 48 21.84	+15 18 19.2		9 675
1993 TX	1993 10 14.28125	01 47 38.51	+02 16 31.6		9 675	1993 TX <sub>12</sub>	1993 10 15.25087	00 46 37.05	+15 02 00.0		9 675
1993 TX	1993 10 14.31736	01 47 36.11	+02 16 43.2		9 675	1993 TY <sub>12</sub>	* 1993 10 13.29027	00 48 26.47	+15 04 13.4	17.5	9 675
1993 TX	1993 10 15.27257	01 46 36.13	+02 22 02.6		9 675	1993 TY <sub>12</sub>	1993 10 13.32934	00 48 24.83	+15 03 58.7		9 675
1993 TA <sub>1</sub>	1993 10 10.30035	01 29 52.29	+06 51 10.2	17.2	9 675	1993 TY <sub>12</sub>	1993 10 15.25087	00 47 13.24	+14 51 36.1		9 675
1993 TA <sub>1</sub>	1993 10 10.33767	01 29 50.75	+06 51 00.3		9 675	1993 TZ <sub>12</sub>	* 1993 10 13.29027	00 49 45.57	+16 43 14.3	16.8	9 675
1993 TA <sub>1</sub>	1993 10 13.29722	01 27 51.89	+06 41 22.4		9 675	1993 TZ <sub>12</sub>	1993 10 13.32934	00 49 43.71	+16 42 51.7		9 675
1993 TA <sub>1</sub>	1993 10 13.33628	01 27 50.26	+06 41 14.6		9 675	1993 TZ <sub>12</sub>	1993 10 15.25087	00 48 19.69	+16 23 24.2		9 675
1993 TB <sub>1</sub>	1993 10 10.30035	01 35 10.74	+09 22 27.9		9 675	1993 TA <sub>13</sub>	* 1993 10 13.29027	00 52 45.27	+11 02 26.2	17.5	9 675
1993 TB <sub>1</sub>	1993 10 10.33767	01 35 08.74	+09 22 13.1		9 675	1993 TA <sub>13</sub>	1993 10 13.32934	00 52 43.17	+11 02 20.9		9 675
1993 TB <sub>1</sub>	1993 10 13.29722	01 32 36.55	+09 01 48.4		9 675	1993 TA <sub>13</sub>	1993 10 15.25087	00 51 04.07	+10 57 53.9		9 675
1993 TB <sub>1</sub>	1993 10 13.33628	01 32 34.42	+09 01 32.0		9 675	1993 TB <sub>13</sub>	* 1993 10 13.29027	00 53 27.21	+12 19 16.4	16.8	9 675
1993 TC <sub>1</sub>	1993 10 13.29722	01 36 37.12	+06 11 57.9		9 675	1993 TB <sub>13</sub>	1993 10 13.32934	00 53 24.87	+12 19 02.4		9 675
1993 TC <sub>1</sub>	1993 10 13.33628	01 36 34.54	+06 11 55.6		9 675	1993 TB <sub>13</sub>	1993 10 15.25087	00 51 36.54	+12 07 19.6		9 675
1993 TC <sub>1</sub>	1993 10 14.28125	01 35 36.78	+06 10 51.0		9 675	1993 TC <sub>13</sub>	* 1993 10 13.29027	00 54 33.62	+12 25 45.1	17.5	9 675

1993 TC <sub>13</sub>	1993 10 13.32934	00 54 31.48	+12 25 40.5		9 675	1993 TT <sub>13</sub>	1993 10 14.23367	00 48 19.18	-22 40 01.4		9 675
1993 TC <sub>13</sub>	1993 10 15.25087	00 52 52.16	+12 20 58.7		9 675	1993 TT <sub>13</sub>	1993 10 14.26667	00 48 17.65	-22 40 05.6		9 675
1993 TD <sub>13</sub>	* 1993 10 13.29027	00 55 37.07	+10 07 45.9	17.2	9 675	1993 TH <sub>16</sub>	1993 10 10.30035	01 12 12.37	+06 31 28.3	16.8	9 675
1993 TD <sub>13</sub>	1993 10 13.32934	00 55 35.14	+10 07 32.5		9 675	1993 TH <sub>16</sub>	1993 10 10.33767	01 12 10.60	+06 30 59.5		9 675
1993 TD <sub>13</sub>	1993 10 15.25087	00 54 07.39	+09 57 36.2		9 675	1993 TH <sub>16</sub>	1993 10 13.29722	01 10 01.27	+05 52 44.7		9 675
1993 TE <sub>13</sub>	* 1993 10 13.29027	00 58 57.66	+10 15 27.4	17.0	9 675	1993 TH <sub>16</sub>	1993 10 13.33628	01 09 59.50	+05 52 13.6		9 675
1993 TE <sub>13</sub>	1993 10 13.32934	00 58 55.38	+10 15 15.5		9 675	1993 TS <sub>17</sub>	1993 10 10.30035	01 15 29.85	+07 19 34.3	17.2	9 675
1993 TE <sub>13</sub>	1993 10 15.25087	00 57 13.79	+10 05 34.9		9 675	1993 TS <sub>17</sub>	1993 10 10.33767	01 15 27.65	+07 19 38.6		9 675
1993 TF <sub>13</sub>	* 1993 10 13.29027	01 02 45.44	+10 11 12.7	16.8	9 675	1993 TS <sub>17</sub>	1993 10 13.29722	01 12 41.10	+07 24 26.4		9 675
1993 TF <sub>13</sub>	1993 10 13.32934	01 02 42.95	+10 11 05.1		9 675	1993 TS <sub>17</sub>	1993 10 13.33628	01 12 38.82	+07 24 29.9		9 675
1993 TF <sub>13</sub>	1993 10 15.25087	01 00 47.00	+10 05 47.5		9 675	1993 TR <sub>18</sub>	1993 10 10.30035	01 17 47.51	+06 57 11.8	18.0	9 675
1993 TG <sub>13</sub>	* 1993 10 13.29027	01 05 24.45	+14 06 21.5	16.5	9 675	1993 TR <sub>18</sub>	1993 10 10.33767	01 17 45.30	+06 57 02.1		9 675
1993 TG <sub>13</sub>	1993 10 13.32934	01 05 22.63	+14 06 08.3		9 675	1993 TR <sub>18</sub>	1993 10 13.29722	01 14 54.62	+06 42 58.1		9 675
1993 TG <sub>13</sub>	1993 10 15.25087	01 04 01.18	+13 55 31.0		9 675	1993 TR <sub>18</sub>	1993 10 13.33628	01 14 52.25	+06 42 47.8		9 675
1993 TH <sub>13</sub>	* 1993 10 13.29027	01 08 19.27	+13 04 25.4	17.0	9 675	1993 TU <sub>18</sub>	1993 10 10.30035	01 18 16.06	+07 43 15.0	17.2	9 675
1993 TH <sub>13</sub>	1993 10 13.32934	01 08 17.57	+13 03 57.1		9 675	1993 TU <sub>18</sub>	1993 10 10.33767	01 18 14.06	+07 42 52.3		9 675
1993 TH <sub>13</sub>	1993 10 15.25087	01 06 57.09	+12 41 17.5		9 675	1993 TC <sub>19</sub>	1993 10 10.30035	01 19 00.03	+07 40 07.9	17.8	9 675
1993 TJ <sub>13</sub>	* 1993 10 13.29027	01 10 48.42	+13 52 57.0	17.0	9 675	1993 TC <sub>19</sub>	1993 10 10.33767	01 18 58.31	+07 39 58.4		9 675
1993 TJ <sub>13</sub>	1993 10 13.32934	01 10 45.69	+13 52 51.3		9 675	1993 TC <sub>19</sub>	1993 10 13.29722	01 16 41.13	+07 27 00.9		9 675
1993 TJ <sub>13</sub>	1993 10 15.25087	01 08 36.45	+13 48 49.1		9 675	1993 TC <sub>19</sub>	1993 10 13.33628	01 16 39.30	+07 26 50.2		9 675
1993 TK <sub>13</sub>	* 1993 10 14.28125	01 37 02.05	+01 08 00.7	17.0	9 675	1993 TV <sub>20</sub>	1993 10 10.30035	01 23 49.31	+05 37 21.5	17.8	9 675
1993 TK <sub>13</sub>	1993 10 14.31736	01 37 00.08	+01 07 43.7		9 675	1993 TV <sub>20</sub>	1993 10 10.33767	01 23 45.43	+05 37 51.7		9 675
1993 TK <sub>13</sub>	1993 10 15.27257	01 36 10.72	+01 00 20.2		9 675	1993 TV <sub>20</sub>	1993 10 13.29722	01 18 43.44	+06 16 04.2		9 675
1993 TL <sub>13</sub>	* 1993 10 14.28125	01 38 32.81	+02 42 17.2	17.5	9 675	1993 TV <sub>20</sub>	1993 10 13.33628	01 18 39.36	+06 16 34.3		9 675
1993 TL <sub>13</sub>	1993 10 14.31736	01 38 30.35	+02 42 13.4		9 675	1993 TX <sub>20</sub>	* 1993 10 10.30035	01 09 10.03	+09 26 58.4		9 675
1993 TL <sub>13</sub>	1993 10 15.27257	01 37 28.23	+02 40 43.5		9 675	1993 TX <sub>20</sub>	1993 10 10.33767	01 09 07.83	+09 26 49.2		9 675
1993 TM <sub>13</sub>	* 1993 10 14.28125	01 42 16.50	+01 41 10.7	17.8	9 675	1993 TX <sub>20</sub>	1993 10 13.29722	01 06 16.88	+09 14 54.0		9 675
1993 TM <sub>13</sub>	1993 10 14.31736	01 42 14.15	+01 41 05.6		9 675	1993 TX <sub>20</sub>	1993 10 13.33628	01 06 14.59	+09 14 43.9		9 675
1993 TM <sub>13</sub>	1993 10 15.27257	01 41 16.99	+01 39 08.0		9 675	1993 TY <sub>20</sub>	* 1993 10 10.30035	01 09 22.82	+08 51 51.4	16.8	9 675
1993 TN <sub>13</sub>	* 1993 10 14.28125	01 49 33.96	+05 16 48.2	17.2	9 675	1993 TY <sub>20</sub>	1993 10 10.33767	01 09 21.00	+08 51 36.5		9 675
1993 TN <sub>13</sub>	1993 10 14.31736	01 49 32.09	+05 16 33.7		9 675	1993 TY <sub>20</sub>	1993 10 13.29722	01 06 56.57	+08 31 56.4		9 675
1993 TN <sub>13</sub>	1993 10 15.27257	01 48 46.43	+05 10 19.6		9 675	1993 TY <sub>20</sub>	1993 10 13.33628	01 06 54.57	+08 31 41.1		9 675
1993 TO <sub>13</sub>	* 1993 10 14.28125	01 50 27.35	+06 46 15.2	17.0	9 675	1993 TZ <sub>20</sub>	* 1993 10 10.30035	01 10 31.02	+10 38 48.1	17.0	9 675
1993 TO <sub>13</sub>	1993 10 14.31736	01 50 24.59	+06 46 13.2		9 675	1993 TZ <sub>20</sub>	1993 10 10.33767	01 10 28.95	+10 38 29.6		9 675
1993 TO <sub>13</sub>	1993 10 15.27257	01 49 16.25	+06 45 45.7		9 675	1993 TZ <sub>20</sub>	1993 10 13.29722	01 07 45.01	+10 14 39.3		9 675
1993 TP <sub>13</sub>	* 1993 10 14.28125	02 01 05.37	+03 58 15.3	17.2	9 675	1993 TZ <sub>20</sub>	1993 10 13.33628	01 07 42.74	+10 14 20.7		9 675
1993 TP <sub>13</sub>	1993 10 14.31736	02 01 03.20	+03 58 04.7		9 675	1993 TA <sub>21</sub>	* 1993 10 10.30035	01 10 44.89	+11 16 01.9	17.8	9 675
1993 TP <sub>13</sub>	1993 10 15.27257	02 00 10.16	+03 52 43.3		9 675	1993 TA <sub>21</sub>	1993 10 10.33767	01 10 43.60	+11 15 51.6		9 675
1993 TQ <sub>13</sub>	* 1993 10 09.23021	00 42 56.02	-24 21 27.4	17.2	9 675	1993 TA <sub>21</sub>	1993 10 13.29722	01 08 55.36	+11 03 41.4		9 675
1993 TQ <sub>13</sub>	1993 10 09.27170	00 42 54.44	-24 21 47.8		9 675	1993 TA <sub>21</sub>	1993 10 13.33628	01 08 53.84	+11 03 32.3		9 675
1993 TQ <sub>13</sub>	1993 10 14.23367	00 40 20.56	-24 54 10.2		9 675	1993 TB <sub>21</sub>	* 1993 10 10.30035	01 12 27.30	+09 07 57.6	17.5	9 675
1993 TQ <sub>13</sub>	1993 10 14.26667	00 40 19.47	-24 54 20.5		9 675	1993 TB <sub>21</sub>	1993 10 10.33767	01 12 25.37	+09 07 52.1		9 675
1993 TR <sub>13</sub>	* 1993 10 09.23021	00 43 06.49	-19 22 58.0	17.0	9 675	1993 TB <sub>21</sub>	1993 10 13.29722	01 09 54.21	+09 00 49.0		9 675
1993 TR <sub>13</sub>	1993 10 09.27170	00 43 04.40	-19 23 11.4		9 675	1993 TB <sub>21</sub>	1993 10 13.33628	01 09 52.16	+09 00 44.1		9 675
1993 TR <sub>13</sub>	1993 10 14.23367	00 39 11.61	-19 44 42.8		9 675	1993 TC <sub>21</sub>	* 1993 10 10.30035	01 18 48.10	+10 59 48.5	17.2	9 675
1993 TR <sub>13</sub>	1993 10 14.26667	00 39 09.91	-19 44 51.5		9 675	1993 TC <sub>21</sub>	1993 10 10.33767	01 18 46.48	+10 59 18.6		9 675
1993 TS <sub>13</sub>	* 1993 10 09.23021	00 43 24.83	-18 31 23.1	17.8	9 675	1993 TC <sub>21</sub>	1993 10 13.29722	01 16 40.17	+10 19 39.8		9 675
1993 TS <sub>13</sub>	1993 10 09.27170	00 43 22.55	-18 31 27.1		9 675	1993 TC <sub>21</sub>	1993 10 13.33628	01 16 38.36	+10 19 08.7		9 675
1993 TS <sub>13</sub>	1993 10 14.23367	00 39 16.29	-18 32 06.0		9 675	1993 TD <sub>21</sub>	* 1993 10 10.30035	01 20 27.76	+10 56 41.0	17.5	9 675
1993 TS <sub>13</sub>	1993 10 14.26667	00 39 14.62	-18 32 05.1		9 675	1993 TD <sub>21</sub>	1993 10 10.33767	01 20 25.45	+10 56 21.7		9 675
1993 TT <sub>13</sub>	* 1993 10 09.23021	00 52 07.76	-22 26 55.3	17.8	9 675	1993 TD <sub>21</sub>	1993 10 13.29722	01 17 30.46	+10 31 42.7		9 675
1993 TT <sub>13</sub>	1993 10 09.27170	00 52 05.66	-22 27 05.9		9 675	1993 TD <sub>21</sub>	1993 10 13.33628	01 17 28.06	+10 31 24.3		9 675



1993 TE <sub>21</sub>	* 1993 10 10.30035	01 21 17.66	+10 02 47.3	17.8	9 675	1993 TT <sub>21</sub>	* 1993 10 10.30035	01 38 06.16	+10 41 34.4	17.5	9 675
1993 TE <sub>21</sub>	1993 10 10.33767	01 21 15.81	+10 02 33.2		9 675	1993 TT <sub>21</sub>	1993 10 10.33767	01 38 04.57	+10 41 12.5		9 675
1993 TE <sub>21</sub>	1993 10 13.29722	01 18 57.24	+09 43 45.8		9 675	1993 TT <sub>21</sub>	1993 10 13.29722	01 35 58.87	+10 14 34.4		9 675
1993 TE <sub>21</sub>	1993 10 13.33628	01 18 55.32	+09 43 31.1		9 675	1993 TT <sub>21</sub>	1993 10 13.33628	01 35 57.10	+10 14 13.1		9 675
1993 TF <sub>21</sub>	* 1993 10 10.30035	01 23 18.52	+09 45 43.3	17.5	9 675	1993 TU <sub>21</sub>	1993 10 10.30035	01 25 08.48	+11 20 08.7	18.2	9 675
1993 TF <sub>21</sub>	1993 10 10.33767	01 23 16.00	+09 45 35.6		9 675	1993 TU <sub>21</sub>	1993 10 10.33767	01 25 06.20	+11 19 59.7		9 675
1993 TF <sub>21</sub>	1993 10 13.29722	01 20 01.64	+09 35 16.4		9 675	1993 TU <sub>21</sub>	* 1993 10 13.29722	01 22 12.98	+11 07 05.2		9 675
1993 TF <sub>21</sub>	1993 10 13.33628	01 19 58.98	+09 35 08.0		9 675	1993 TU <sub>21</sub>	1993 10 13.33628	01 22 10.61	+11 06 54.8		9 675
1993 TH <sub>21</sub>	* 1993 10 10.30035	01 23 50.49	+11 07 00.2	17.5	9 675	1993 TV <sub>21</sub>	1993 10 10.30035	01 35 39.51	+10 36 32.4	17.5	9 675
1993 TH <sub>21</sub>	1993 10 10.33767	01 23 48.47	+11 06 53.6		9 675	1993 TV <sub>21</sub>	1993 10 10.33767	01 35 37.43	+10 36 17.5		9 675
1993 TH <sub>21</sub>	1993 10 13.29722	01 21 06.57	+11 00 16.6		9 675	1993 TV <sub>21</sub>	1993 10 13.29722	01 32 53.79	+10 17 29.0		9 675
1993 TH <sub>21</sub>	1993 10 13.33628	01 21 04.32	+11 00 11.2		9 675	1993 TV <sub>21</sub>	1993 10 13.33628	01 32 51.56	+10 17 15.2		9 675
1993 TJ <sub>21</sub>	* 1993 10 10.30035	01 25 48.10	+06 27 33.7	18.2	9 675	1993 TV <sub>21</sub>	* 1993 10 13.37135	01 32 49.46	+10 17 01.6	17.0	9 675
1993 TJ <sub>21</sub>	1993 10 10.33767	01 25 46.15	+06 27 30.5		9 675	1993 TV <sub>21</sub>	1993 10 13.41493	01 32 47.00	+10 16 45.5		9 675
1993 TJ <sub>21</sub>	1993 10 13.29722	01 23 12.47	+06 23 46.9		9 675	1993 TW <sub>21</sub>	1993 10 10.30035	01 36 51.11	+11 01 05.5	17.2	9 675
1993 TJ <sub>21</sub>	1993 10 13.33628	01 23 10.42	+06 23 44.0		9 675	1993 TW <sub>21</sub>	1993 10 10.33767	01 36 48.61	+11 00 59.0		9 675
1993 TK <sub>21</sub>	* 1993 10 10.30035	01 27 04.14	+06 11 21.1	18.5	9 675	1993 TW <sub>21</sub>	1993 10 13.29722	01 33 37.23	+10 54 05.5		9 675
1993 TK <sub>21</sub>	1993 10 10.33767	01 27 01.83	+06 11 18.9		9 675	1993 TW <sub>21</sub>	1993 10 13.33628	01 33 34.55	+10 54 00.5		9 675
1993 TK <sub>21</sub>	1993 10 13.29722	01 23 53.12	+06 08 41.8		9 675	1993 TW <sub>21</sub>	* 1993 10 13.37135	01 33 32.20	+10 53 53.4	17.2	9 675
1993 TK <sub>21</sub>	1993 10 13.33628	01 23 50.52	+06 08 40.0		9 675	1993 TW <sub>21</sub>	1993 10 13.41493	01 33 29.22	+10 53 49.2		9 675
1993 TL <sub>21</sub>	* 1993 10 10.30035	01 27 04.94	+11 33 55.3	17.0	9 675	1993 UE	1993 10 09.23021	00 51 12.49	-21 47 22.6		9 675
1993 TL <sub>21</sub>	1993 10 10.33767	01 27 02.97	+11 33 35.3		9 675	1993 UE	1993 10 09.27170	00 51 10.41	-21 47 32.5		9 675
1993 TL <sub>21</sub>	1993 10 13.29722	01 24 31.75	+11 07 13.0		9 675	1993 UE	1993 10 14.23367	00 47 27.76	-21 59 10.1		9 675
1993 TL <sub>21</sub>	1993 10 13.33628	01 24 29.63	+11 06 51.7		9 675	1993 UE	1993 10 14.26667	00 47 26.26	-21 59 11.7		9 675
1993 TM <sub>21</sub>	* 1993 10 10.30035	01 27 17.53	+06 13 07.2	18.0	9 675	1993 UF	1993 10 09.23021	00 51 03.52	-21 07 47.6		9 675
1993 TM <sub>21</sub>	1993 10 10.33767	01 27 15.25	+06 13 06.1		9 675	1993 UF	1993 10 09.27170	00 51 01.56	-21 08 05.4		9 675
1993 TM <sub>21</sub>	1993 10 13.29722	01 24 26.51	+06 12 36.3		9 675	1993 UF	1993 10 14.23367	00 47 30.87	-21 35 34.4		9 675
1993 TM <sub>21</sub>	1993 10 13.33628	01 24 24.21	+06 12 35.8		9 675	1993 UF	1993 10 14.26667	00 47 29.37	-21 35 42.8		9 675
1993 TN <sub>21</sub>	* 1993 10 10.30035	01 27 47.97	+09 00 25.9	17.2	9 675	1993 UG	1993 10 14.28125	01 31 14.76	+02 12 51.5		9 675
1993 TN <sub>21</sub>	1993 10 10.33767	01 27 45.76	+09 00 16.2		9 675	1993 UG	1993 10 14.31736	01 31 10.55	+02 13 22.3		9 675
1993 TN <sub>21</sub>	1993 10 13.29722	01 24 55.05	+08 47 47.3		9 675	1993 UG	1993 10 15.27257	01 29 23.03	+02 26 53.8		9 675
1993 TN <sub>21</sub>	1993 10 13.33628	01 24 52.67	+08 47 37.3		9 675	1993 UN	1993 10 10.30035	01 16 47.91	+06 54 21.6		9 675
1993 TO <sub>21</sub>	* 1993 10 10.30035	01 28 16.61	+08 42 00.9	17.8	9 675	1993 UN	1993 10 10.33767	01 16 45.50	+06 54 07.9		9 675
1993 TO <sub>21</sub>	1993 10 10.33767	01 28 14.86	+08 41 44.6		9 675	1993 UN	1993 10 13.29722	01 13 44.93	+06 35 49.7		9 675
1993 TO <sub>21</sub>	1993 10 13.29722	01 26 11.08	+08 22 20.0		9 675	1993 UN	1993 10 13.33628	01 13 42.42	+06 35 34.5		9 675
1993 TO <sub>21</sub>	1993 10 13.33628	01 26 09.28	+08 22 05.0		9 675	1993 UG <sub>1</sub>	1993 10 14.28125	01 38 33.13	+04 56 03.8	17.0	9 675
1993 TP <sub>21</sub>	* 1993 10 10.30035	01 30 26.63	+11 46 27.9	17.5	9 675	1993 UG <sub>1</sub>	1993 10 14.31736	01 38 31.54	+04 55 32.9		9 675
1993 TP <sub>21</sub>	1993 10 10.33767	01 30 24.15	+11 46 26.8		9 675	1993 UG <sub>1</sub>	1993 10 15.27257	01 37 52.54	+04 41 35.3		9 675
1993 TP <sub>21</sub>	1993 10 13.29722	01 27 17.06	+11 44 54.8		9 675	1993 UH <sub>1</sub>	1993 10 14.28125	01 50 05.72	+03 59 25.3	17.0	9 675
1993 TP <sub>21</sub>	1993 10 13.33628	01 27 14.43	+11 44 53.0		9 675	1993 UH <sub>1</sub>	1993 10 14.31736	01 50 03.71	+03 58 43.8		9 675
1993 TQ <sub>21</sub>	* 1993 10 10.30035	01 31 07.04	+06 53 40.7	17.8	9 675	1993 UH <sub>1</sub>	1993 10 15.27257	01 49 14.44	+03 40 23.7		9 675
1993 TQ <sub>21</sub>	1993 10 10.33767	01 31 05.28	+06 53 26.7		9 675	1993 UX <sub>2</sub>	1993 10 09.23021	00 52 56.26	-21 13 57.4		9 675
1993 TQ <sub>21</sub>	1993 10 13.29722	01 28 52.67	+06 33 18.2		9 675	1993 UX <sub>2</sub>	1993 10 09.27170	00 52 54.12	-21 14 06.2		9 675
1993 TQ <sub>21</sub>	1993 10 13.33628	01 28 50.83	+06 33 01.8		9 675	1993 UX <sub>2</sub>	1993 10 14.23367	00 48 52.97	-21 28 38.8		9 675
1993 TR <sub>21</sub>	* 1993 10 10.30035	01 36 14.96	+10 07 40.6	17.5	9 675	1993 UX <sub>2</sub>	1993 10 14.26667	00 48 51.36	-21 28 42.5		9 675
1993 TR <sub>21</sub>	1993 10 10.33767	01 36 12.47	+10 07 32.4		9 675	1993 UY <sub>2</sub>	1993 10 09.23021	00 58 29.76	-22 36 00.3		9 675
1993 TR <sub>21</sub>	1993 10 13.29722	01 33 00.40	+09 57 37.3		9 675	1993 UY <sub>2</sub>	1993 10 09.27170	00 58 26.95	-22 35 52.9		9 675
1993 TR <sub>21</sub>	1993 10 13.33628	01 32 57.71	+09 57 29.7		9 675	1993 UY <sub>2</sub>	1993 10 14.23367	00 53 21.70	-22 14 45.6		9 675
1993 TS <sub>21</sub>	* 1993 10 10.30035	01 37 37.38	+08 02 38.6	17.8	9 675	1993 UY <sub>2</sub>	1993 10 14.26667	00 53 19.64	-22 14 36.4		9 675
1993 TS <sub>21</sub>	1993 10 10.33767	01 37 35.08	+08 02 30.7		9 675	1993 VO	1993 10 10.30035	01 14 52.82	+10 14 56.6		9 675
1993 TS <sub>21</sub>	1993 10 13.29722	01 34 35.82	+07 51 58.5		9 675	1993 VO	1993 10 10.33767	01 14 51.19	+10 14 32.8		9 675
1993 TS <sub>21</sub>	1993 10 13.33628	01 34 33.36	+07 51 49.8		9 675	1993 VO	1993 10 13.29722	01 12 46.96	+09 43 57.7		9 675

1993 VU	1993 12 16.20573	02 37 04.32	-03 39 03.2	16.5	2 675	1993 XO <sub>2</sub>	1993 12 16.14444	01 33 55.59	+23 56 01.6		2 675
1993 VU	1993 12 16.22344	02 37 04.43	-03 39 11.1		2 675	1993 XO <sub>2</sub>	1993 12 16.16111	01 33 55.74	+23 55 54.2		2 675
1993 VW	1993 12 14.12587	01 50 10.89	+02 50 04.4	16.5	2 675	1993 XP <sub>2</sub>	* 1993 12 14.43524	07 16 29.25	+10 15 15.6	15.5	2 675
1993 VW	1993 12 14.17031	01 50 07.50	+02 48 53.9		2 675	1993 XP <sub>2</sub>	1993 12 14.45677	07 16 28.24	+10 15 14.5		2 675
1993 VW	1993 12 16.13194	01 48 03.60	+01 56 40.2		2 675	1993 XP <sub>2</sub>	1993 12 16.39427	07 15 00.74	+10 14 14.7		2 675
1993 VW	1993 12 16.15538	01 48 02.07	+01 56 03.2		2 675	1993 XP <sub>2</sub>	1993 12 16.41771	07 14 59.53	+10 14 14.2		2 675
1993 VC <sub>1</sub>	1993 12 16.21753	03 03 27.61	+09 00 54.8	16.5	2 675	1993 XQ <sub>2</sub>	* 1993 12 14.43524	07 21 50.23	+10 38 27.4	15.2	2 675
1993 VC <sub>1</sub>	1993 12 16.23472	03 03 27.50	+09 00 40.9		2 675	1993 XQ <sub>2</sub>	1993 12 14.45677	07 21 49.31	+10 38 32.0		2 675
1993 VF <sub>1</sub>	1993 11 18.38454	03 23 40.84	+09 42 42.9	15.5	3 675	1993 XQ <sub>2</sub>	1993 12 16.39427	07 20 32.70	+10 48 16.1		2 675
1993 VF <sub>1</sub>	1993 11 18.42899	03 23 36.73	+09 43 12.0		3 675	1993 XQ <sub>2</sub>	1993 12 16.41771	07 20 31.66	+10 48 22.7		2 675
1993 VF <sub>1</sub>	1993 11 19.49618	03 22 01.72	+09 55 25.2		3 675	1993 XR <sub>2</sub>	* 1993 12 14.43524	07 22 21.68	+10 58 27.9	15.7	2 675
1993 WH	* 1993 11 16.31875	02 51 31.72	+29 13 22.5	18	3 675	1993 XR <sub>2</sub>	1993 12 14.45677	07 22 20.78	+10 58 22.2		2 675
1993 WH	1993 11 18.36719	02 49 20.55	+28 24 10.0		3 675	1993 XR <sub>2</sub>	1993 12 16.39427	07 21 02.24	+10 52 08.6		2 675
1993 WH	1993 11 19.34166	02 48 20.61	+28 00 36.0		3 675	1993 XR <sub>2</sub>	1993 12 16.41771	07 21 01.11	+10 52 05.0		2 675
1993 WH	1993 11 19.37899	02 48 18.17	+27 59 41.1		3 675	1994 AU	1994 01 08.27309	07 19 17.89	+26 57 32.1		9 675
1993 WH	1993 11 20.35260	02 47 19.80	+27 36 04.6		3 675	1994 AU	1994 01 08.30313	07 19 15.78	+26 57 36.3		9 675
1993 XL <sub>1</sub>	* 1993 12 07.30277	05 06 26.67	+08 53 37.9	14.5	3 675	1994 AK <sub>1</sub>	* 1994 01 08.27309	07 07 08.02	+31 58 41.5	15.5	3 675
1993 XL <sub>1</sub>	1993 12 09.33697	05 04 18.75	+08 05 20.6		3 675	1994 AK <sub>1</sub>	1994 01 08.30313	07 07 03.93	+31 57 58.9		3 675
1993 XL <sub>1</sub>	1993 12 11.32048	05 02 14.86	+07 19 24.9		3 675	1994 AK <sub>1</sub>	1994 01 09.31285	07 04 53.22	+31 34 12.6		3 675
1993 XT <sub>1</sub>	* 1993 12 14.36232	05 24 35.46	+01 25 24.6	16.5	2 675	1994 AK <sub>1</sub>	1994 01 09.34531	07 04 48.90	+31 33 26.9		3 675
1993 XT <sub>1</sub>	1993 12 14.37951	05 24 34.09	+01 25 10.6		2 675	1994 AL <sub>1</sub>	* 1994 01 08.27309	07 10 35.89	+29 56 46.0	16.5	3 675
1993 XT <sub>1</sub>	1993 12 16.24184	05 22 17.32	+00 59 46.4		2 675	1994 AL <sub>1</sub>	1994 01 08.30313	07 10 32.68	+29 57 56.7		3 675
1993 XT <sub>1</sub>	1993 12 16.26597	05 22 15.44	+00 59 24.7		2 675	1994 AL <sub>1</sub>	1994 01 09.31285	07 08 50.06	+30 36 09.8		3 675
1993 XU <sub>1</sub>	* 1993 12 14.41059	05 45 25.00	-04 06 35.7	15.5	2 675	1994 AL <sub>1</sub>	1994 01 09.34531	07 08 46.60	+30 37 22.6		3 675
1993 XU <sub>1</sub>	1993 12 14.42865	05 45 23.85	-04 06 59.0		2 675	1994 AW <sub>1</sub>	* 1994 01 11.34497	07 35 12.41	+19 34 15.1	14	2 675
1993 XU <sub>1</sub>	1993 12 16.24826	05 43 34.14	-04 48 06.8		2 675	1994 AW <sub>1</sub>	1994 01 11.37899	07 34 59.98	+19 30 42.5	14.0	2 675
1993 XX <sub>1</sub>	* 1993 12 14.48247	08 19 16.60	+32 10 54.7	16.5	2 675	1994 AW <sub>1</sub>	1994 01 11.40451	07 34 50.80	+19 27 59.2		2 675
1993 XX <sub>1</sub>	1993 12 14.50069	08 19 16.37	+32 11 07.4		2 675	1994 AW <sub>1</sub>	1994 01 12.25139	07 30 05.24	+17 59 46.4		2 675
1993 XX <sub>1</sub>	1993 12 16.43854	08 18 35.63	+32 29 47.2		2 675	1994 AW <sub>1</sub>	1994 01 12.42882	07 29 02.98	+17 41 24.0		2 675
1993 XY <sub>1</sub>	* 1993 12 14.43524	07 18 02.92	+08 44 36.0	16.0	2 675	1994 AW <sub>1</sub>	1994 01 13.15503	07 25 07.57	+16 26 13.1		2 675
1993 XY <sub>1</sub>	1993 12 14.45677	07 18 01.95	+08 44 24.6		2 675	1994 AW <sub>1</sub>	1994 01 16.29062	07 09 00.62	+11 11 29.6		2 675
1993 XY <sub>1</sub>	1993 12 16.39427	07 16 30.49	+08 27 30.6		2 675	1994 AW <sub>1</sub>	1994 01 16.32257	07 08 50.76	+11 08 23.6		2 675
1993 XY <sub>1</sub>	1993 12 16.41771	07 16 29.21	+08 27 21.5		2 675	1994 AU <sub>2</sub>	* 1994 01 12.16146	03 45 23.23	+28 57 53.5	15.0	2 675
1993 XZ <sub>1</sub>	* 1993 12 14.43524	07 18 16.83	+12 10 33.9	16.5	2 675	1994 AU <sub>2</sub>	1994 01 12.18785	03 45 24.21	+28 57 19.4		2 675
1993 XZ <sub>1</sub>	1993 12 14.45677	07 18 15.69	+12 10 25.3		2 675	1994 AU <sub>2</sub>	1994 01 13.16094	03 46 06.05	+28 37 06.7		2 675
1993 XZ <sub>1</sub>	1993 12 16.39427	07 16 33.53	+11 54 34.8		2 675	1994 AU <sub>2</sub>	1994 01 13.18385	03 46 07.05	+28 36 38.2		2 675
1993 XZ <sub>1</sub>	1993 12 16.41771	07 16 32.16	+11 54 25.4		2 675	2079 P-L	* 1960 09 24.45000	01 00 12.41	+10 54 31.5	18.0	4 675
1993 XA <sub>2</sub>	* 1993 12 14.43524	07 18 23.06	+11 17 48.6	16.0	2 675	2079 P-L	1960 09 26.37010	00 58 39.74	+10 49 16.7		4 675
1993 XA <sub>2</sub>	1993 12 14.45677	07 18 22.24	+11 17 52.0		2 675	2079 P-L	1960 09 28.45140	00 56 56.46	+10 43 10.3		4 675
1993 XA <sub>2</sub>	1993 12 16.39427	07 16 54.85	+11 21 10.1		2 675	2079 P-L	1960 09 29.44510	00 56 06.50	+10 40 04.8		4 675
1993 XA <sub>2</sub>	1993 12 16.41771	07 16 53.72	+11 21 14.0		2 675	2079 P-L	1960 10 22.27920	00 36 58.33	+09 13 49.5		4 675
1993 XB <sub>2</sub>	* 1993 12 14.43524	07 19 06.71	+10 57 55.2	15.5	2 675	2079 P-L	1960 10 25.37570	00 34 44.51	+09 01 55.8		4 675
1993 XB <sub>2</sub>	1993 12 14.45677	07 19 05.92	+10 58 05.1		2 675	2079 P-L	1960 10 26.36840	00 34 03.70	+08 58 15.2		4 675
1993 XB <sub>2</sub>	1993 12 16.39427	07 17 40.53	+11 11 37.4		2 675	2079 P-L	1993 10 13.29027	01 00 19.86	+11 53 20.8		9 675
1993 XB <sub>2</sub>	1993 12 16.41771	07 17 39.35	+11 11 49.7		2 675	2079 P-L	1993 10 13.32934	01 00 17.70	+11 53 11.0		9 675
1993 XN <sub>2</sub>	* 1993 12 10.36197	06 39 42.25	+61 11 21.2	16.5	3 675	2079 P-L	1993 10 15.25087	00 58 37.59	+11 45 40.4		9 675
1993 XN <sub>2</sub>	1993 12 10.39253	06 39 34.57	+61 12 25.2		3 675	2563 P-L	1954 07 28.43681	23 44 09.95	-02 07 46.7		6 675
1993 XN <sub>2</sub>	1993 12 11.38802	06 35 36.46	+61 45 36.0		3 675	2563 P-L	1954 07 28.46111	23 44 09.88	-02 07 49.3		6 675
1993 XN <sub>2</sub>	1993 12 11.41961	06 35 28.34	+61 46 35.9		3 675	4025 P-L	* 1960 09 24.37573	00 21 27.16	+05 42 17.2	17.7	4 675
1993 XN <sub>2</sub>	1994 01 03.15417	05 19 25.62	+65 34 30.0	17.7	3 675	4025 P-L	1960 09 25.42780	00 20 32.42	+05 31 25.9		4 675
1993 XN <sub>2</sub>	1994 01 04.10382	05 17 40.88	+65 30 18.4	17.5	3 675	4025 P-L	1960 09 26.30558	00 19 47.01	+05 22 17.8		4 675
1993 XO <sub>2</sub>	* 1993 12 14.14123	01 33 30.05	+24 10 18.3	16.0	2 675	4025 P-L	1960 09 28.32780	00 18 01.34	+05 01 02.7		4 675

4025 P-L	1960 09 28.36808	00 17 59.14	+05 00 37.8	4 675	1094 T-1	1971 03 25.27326	12 04 22.28	-01 38 39.7		4 675
4025 P-L	1960 10 17.27085	00 03 07.99	+01 45 50.9	4 675	1094 T-1	* 1971 03 25.31562	12 04 19.91	-01 38 26.9	18.4	4 675
4025 P-L	1960 10 22.22293	00 00 19.50	+01 01 52.5	4 675	1094 T-1	1971 03 26.26771	12 03 23.60	-01 33 20.8		4 675
4025 P-L	1960 10 24.35836	23 59 18.65	+00 44 27.0	4 675	1094 T-1	1971 03 27.32500	12 02 21.05	-01 27 41.9		4 675
4025 P-L	1960 10 26.32573	23 58 29.88	+00 29 17.1	4 675	2045 T-1	1971 03 24.37118	12 00 16.08	+04 27 45.2		4 675
4028 P-L	1991 03 13.21111	10 22 51.01	+01 17 17.7	9 675	2045 T-1	1971 03 25.24340	11 59 35.55	+04 32 26.6		4 675
4028 P-L	1991 03 13.24219	10 22 49.60	+01 17 33.1	9 675	2045 T-1	* 1971 03 25.28715	11 59 33.43	+04 32 41.3	18.2	4 675
4038 P-L	* 1960 09 24.37573	00 27 43.17	+05 28 52.4	18.5 4 675	2045 T-1	1971 03 26.25208	11 58 48.40	+04 37 49.8		4 675
4038 P-L	1960 09 25.42780	00 26 44.01	+05 23 04.5	4 675	2045 T-1	1971 03 27.31181	11 57 58.98	+04 43 23.4		4 675
4038 P-L	1960 09 26.30558	00 25 54.53	+05 18 10.3	4 675	2104 T-2	1973 09 19.19948	00 37 15.56	+05 51 49.5		4 675
4038 P-L	1960 09 28.36808	00 23 56.88	+05 06 27.0	4 675	2104 T-2	1973 09 19.25006	00 37 13.22	+05 51 35.6		4 675
4038 P-L	1960 10 17.27085	00 06 49.53	+03 17 36.9	4 675	2104 T-2	1973 09 20.26458	00 36 29.22	+05 46 51.9		4 675
4038 P-L	1960 10 22.22293	00 03 08.84	+02 52 29.2	4 675	2104 T-2	1973 09 24.36181	00 33 25.70	+05 27 07.2		4 675
4038 P-L	1960 10 24.35836	00 01 43.35	+02 42 32.2	4 675	2104 T-2	1973 09 24.42847	00 33 22.55	+05 26 47.1		4 675
4038 P-L	1960 10 26.32573	00 00 30.90	+02 33 55.3	4 675	2104 T-2	1973 09 25.25642	00 32 44.69	+05 22 38.0		4 675
4081 P-L	1992 02 26.28247	10 02 50.57	+03 02 14.1	9 675	2104 T-2	1973 09 25.32031	00 32 41.72	+05 22 19.3		4 675
4081 P-L	1992 02 26.31528	10 02 48.44	+03 02 29.3	9 675	2104 T-2	1973 09 29.26632	00 29 38.53	+05 02 03.4		4 675
4619 P-L	* 1960 09 24.41183	00 21 11.75	+02 12 26.1	19.0 4 675	2104 T-2	* 1973 09 29.33073	00 29 35.47	+05 01 45.3	18.6	4 675
4619 P-L	1960 09 26.31530	00 19 17.30	+02 02 14.7	4 675	2104 T-2	1973 09 30.22257	00 28 53.91	+04 57 04.3		4 675
4619 P-L	1960 09 27.40836	00 18 10.78	+01 56 23.8	4 675	2104 T-2	1973 09 30.28785	00 28 50.68	+04 56 43.4		4 675
4619 P-L	1960 09 28.32780	00 17 15.19	+01 51 26.2	4 675	2104 T-2	1973 10 04.30208	00 25 43.60	+04 35 34.7		4 675
4619 P-L	1960 09 28.39725	00 17 10.83	+01 51 03.6	4 675	2104 T-2	1973 10 04.36476	00 25 40.50	+04 35 14.7		4 675
4619 P-L	1960 10 22.23406	23 56 11.51	+00 01 10.1	4 675	2104 T-2	1973 10 05.32917	00 24 56.08	+04 30 07.1		4 675
4619 P-L	1960 10 25.25350	23 54 23.93	-00 07 31.5	4 675	2104 T-2	1973 10 05.39132	00 24 53.16	+04 29 50.5		4 675
4619 P-L	1960 10 26.31531	23 53 49.90	-00 10 10.8	4 675	2170 T-2	1993 09 12.18819	21 23 02.90	-01 49 07.8	16.7	2 675
6077 P-L	* 1960 09 24.33613	00 09 21.48	+02 44 00.0	18.7 4 675	2170 T-2	1993 09 12.21545	21 23 02.09	-01 49 25.1	16.8	2 675
6077 P-L	1960 09 25.32502	00 08 35.46	+02 40 04.2	4 675	2170 T-2	1993 09 14.16563	21 22 15.71	-02 10 12.1	15.8	2 675
6077 P-L	1960 09 26.27573	00 07 51.29	+02 36 16.8	4 675	2170 T-2	1993 09 14.20017	21 22 15.07	-02 10 35.8	16.5	2 675
6077 P-L	1960 09 28.32780	00 06 15.99	+02 28 04.5	4 675	3020 T-2	1990 03 19.14028	08 25 02.35	+33 09 53.9		6 675
6077 P-L	1960 10 17.21390	23 53 06.06	+01 17 57.2	4 675	3020 T-2	1990 03 19.18194	08 25 01.92	+33 09 46.0		6 675
6077 P-L	1960 10 22.15559	23 50 27.02	+01 03 34.0	4 675	4172 T-2	1973 09 19.22500	00 41 56.98	-02 14 24.4		4 675
6077 P-L	1960 10 24.18787	23 49 29.49	+00 58 23.1	4 675	4172 T-2	1973 09 19.27865	00 41 54.27	-02 14 44.3		4 675
6077 P-L	1960 10 26.26113	23 48 35.88	+00 53 32.9	4 675	4172 T-2	1973 09 20.30278	00 41 03.18	-02 21 02.2		4 675
6103 P-L	* 1960 09 24.33613	00 07 59.52	+00 59 33.2	18.8 4 675	4172 T-2	1973 09 24.38750	00 37 34.30	-02 46 13.7		4 675
6103 P-L	1960 09 25.32502	00 07 10.62	+00 56 26.0	4 675	4172 T-2	1973 09 24.45434	00 37 30.80	-02 46 38.5		4 675
6103 P-L	1960 09 26.27573	00 06 23.73	+00 53 25.2	4 675	4172 T-2	1973 09 25.28125	00 36 47.89	-02 51 43.0		4 675
6103 P-L	1960 09 28.32780	00 04 42.25	+00 46 58.5	4 675	4172 T-2	1973 09 25.34601	00 36 44.39	-02 52 07.1		4 675
6103 P-L	1960 10 17.21390	23 50 39.83	-00 04 12.7	4 675	4172 T-2	* 1973 09 29.29219	00 33 15.93	-03 15 56.2	18.7	4 675
6103 P-L	1960 10 22.15559	23 47 52.45	-00 12 45.9	4 675	4172 T-2	1973 09 29.35694	00 33 12.43	-03 16 19.0		4 675
6103 P-L	1960 10 24.18787	23 46 52.59	-00 15 27.8	4 675	4172 T-2	1973 09 30.24826	00 32 25.21	-03 21 32.0		4 675
6103 P-L	1960 10 26.26113	23 45 57.22	-00 17 38.6	4 675	4172 T-2	1973 09 30.31476	00 32 21.53	-03 21 55.3		4 675
6570 P-L	* 1960 09 24.35002	23 56 38.61	-00 18 52.0	17.8 4 675	4172 T-2	1973 10 04.32708	00 28 48.36	-03 44 53.4		4 675
6570 P-L	1960 09 26.28543	23 54 57.56	-00 33 24.4	4 675	4172 T-2	1973 10 04.38889	00 28 44.85	-03 45 13.4		4 675
6570 P-L	1960 09 27.34237	23 54 02.56	-00 41 16.7	4 675	4172 T-2	1973 10 05.35382	00 27 54.10	-03 50 30.5		4 675
6570 P-L	1960 09 28.33822	23 53 11.05	-00 48 42.3	4 675	4172 T-2	1973 10 05.41597	00 27 50.78	-03 50 50.5		4 675
6570 P-L	1960 10 17.22501	23 39 36.51	-02 50 05.2	4 675	2326 T-3	1993 10 10.30035	01 22 43.31	+12 50 18.7		9 675
6570 P-L	1960 10 22.16324	23 37 27.10	-03 11 50.5	4 675	2326 T-3	1993 10 10.33767	01 22 41.30	+12 50 09.5		9 675
6570 P-L	1960 10 24.23753	23 36 46.23	-03 19 19.5	4 675	2326 T-3	1993 10 13.29722	01 20 00.66	+12 34 04.6		9 675
6570 P-L	1960 10 26.27157	23 36 14.33	-03 25 42.2	4 675	2326 T-3	1993 10 13.33628	01 19 58.36	+12 33 52.8		9 675
7063 P-L	1991 02 09.43194	11 10 25.31	-01 35 11.0	9 675	3224 T-3	1977 10 07.27031	01 28 28.62	+05 30 40.2		4 675
7063 P-L	1991 02 09.48003	11 10 23.19	-01 35 03.3	9 675	3224 T-3	1977 10 11.28819	01 24 40.90	+04 59 36.6		4 675
1094 T-1	1971 03 24.38924	12 05 14.69	-01 43 23.8	4 675	3224 T-3	1977 10 11.35642	01 24 36.90	+04 59 04.8		4 675

3224 T-3	1977 10 12.28681	01 23 43.50	+04 51 53.5	4 675	1972 TC	1993 12 17.12359	03 27 07.38	+18 41 34.8		691
3224 T-3	1977 10 12.35347	01 23 39.39	+04 51 22.3	4 675	1972 TC	1993 12 17.15849	03 27 06.48	+18 41 16.0	15.9 V	691
3224 T-3	* 1977 10 16.27309	01 19 53.11	+04 21 28.6	17.8 4 675	1979 FD <sub>2</sub>	1993 12 09.48712	10 21 58.79	+09 14 07.0		691
3224 T-3	1977 10 16.28368	01 19 52.35	+04 21 26.4	4 675	1979 FD <sub>2</sub>	1993 12 09.50598	10 21 59.86	+09 14 01.8	17.5 V	691
3224 T-3	1977 10 16.33872	01 19 49.12	+04 21 00.4	4 675	1979 FD <sub>2</sub>	1993 12 09.51349	10 22 00.28	+09 13 59.7		691
3224 T-3	1977 10 16.34931	01 19 48.40	+04 20 57.1	4 675	1981 EY <sub>9</sub>	1993 12 08.14970	02 02 35.78	+18 29 23.0	18.4 V	691
3224 T-3	1977 10 17.27552	01 18 55.31	+04 14 01.4	4 675	1981 EY <sub>9</sub>	1993 12 08.17138	02 02 35.37	+18 29 17.5		691
3224 T-3	1977 10 17.28628	01 18 54.63	+04 13 57.7	4 675	1981 EY <sub>9</sub>	1993 12 08.19178	02 02 34.98	+18 29 11.8		691
3224 T-3	1977 10 17.34236	01 18 51.26	+04 13 31.4	4 675	1981 EL <sub>10</sub>	1993 12 17.34068	09 12 23.49	+16 13 03.5		691
3224 T-3	1977 10 17.35313	01 18 50.60	+04 13 26.9	4 675	1981 EL <sub>10</sub>	1993 12 17.36915	09 12 23.05	+16 13 02.8	19.2 V	691
3224 T-3	1977 10 21.38698	01 15 02.29	+03 44 15.5	4 675	1981 EL <sub>10</sub>	1993 12 17.39985	09 12 22.51	+16 13 02.8		691
3224 T-3	1977 10 21.39792	01 15 01.61	+03 44 15.3	4 675	1981 EC <sub>16</sub>	1993 11 06.30221	01 50 37.61	+16 28 12.8	18.0 V	691
3224 T-3	1977 10 21.44705	01 14 58.91	+03 43 49.9	4 675	1981 EC <sub>16</sub>	1993 11 06.34248	01 50 35.34	+16 27 57.0		691
3224 T-3	1977 10 21.45799	01 14 58.15	+03 43 50.6	4 675	1981 EC <sub>16</sub>	1993 11 06.38283	01 50 33.12	+16 27 41.3		691
3224 T-3	1977 10 22.38542	01 14 07.04	+03 37 21.6	4 675	1982 QK <sub>3</sub>	1993 11 10.13977	02 02 26.98	+17 21 23.6	16.5 V	691
3224 T-3	1977 10 22.39844	01 14 06.55	+03 37 16.7	4 675	1982 QK <sub>3</sub>	1993 11 10.17933	02 02 24.87	+17 21 12.3		691
3224 T-3	1977 10 22.44878	01 14 03.68	+03 36 54.5	4 675	1982 QK <sub>3</sub>	1993 11 10.21828	02 02 22.79	+17 21 00.9		691
3224 T-3	1977 10 22.45920	01 14 03.05	+03 36 52.0	4 675	1982 UD <sub>2</sub>	1993 11 20.43711	09 47 16.72	+16 19 16.2	17.9 V	691
4094 T-3	1993 10 14.28125	01 43 43.74	+05 14 27.4	9 675	1982 UD <sub>2</sub>	1993 11 20.47058	09 47 17.89	+16 19 11.8		691
4094 T-3	1993 10 14.31736	01 43 41.59	+05 14 20.0	9 675	1982 UD <sub>2</sub>	1993 11 20.50396	09 47 19.01	+16 19 07.3		691
5182 T-3	1992 02 26.28247	10 13 19.08	+03 22 42.5	9 675	1985 RV	1993 12 08.26457	04 45 44.40	+23 55 45.1	18.7 V	691
5182 T-3	1992 02 26.31528	10 13 17.63	+03 22 56.9	9 675	1985 RV	1993 12 08.33731	04 45 39.36	+23 55 21.5		691
					1985 RV	1994 01 04.15736	04 21 53.58	+21 40 16.0	19.7 V	691
					1985 RV	1994 01 04.17635	04 21 53.03	+21 40 11.8	19.6 V	691
					1985 RV	1994 01 04.19420	04 21 52.27	+21 40 06.6	19.6 V	691
					1986 CV <sub>1</sub>	1993 11 10.48952	08 11 56.98	+25 15 10.7	16.7 V	691
					1986 CV <sub>1</sub>	1993 11 10.50370	08 11 57.26	+25 15 07.7		691
					1986 CV <sub>1</sub>	1993 11 10.51810	08 11 57.53	+25 15 05.4		691
					1986 QA <sub>4</sub>	1993 11 20.40852	09 05 24.49	+16 06 40.8	19.5 V	691
					1986 QA <sub>4</sub>	1993 11 20.44197	09 05 25.07	+16 06 39.4		691
					1986 QA <sub>4</sub>	1993 11 20.47534	09 05 25.62	+16 06 37.0		691
					1986 QA <sub>4</sub>	1993 12 17.33652	09 06 13.25	+16 10 35.1		691
					1986 QA <sub>4</sub>	1993 12 17.36498	09 06 12.65	+16 10 38.6		691
					1986 QA <sub>4</sub>	1993 12 17.39569	09 06 12.22	+16 10 41.2	18.9 V	691
					1987 SS <sub>17</sub>	1993 11 17.32073	03 39 54.07	+28 28 33.5		691
					1987 SS <sub>17</sub>	1993 11 17.34109	03 39 52.96	+28 28 31.1	17.0 V	691
					1987 SS <sub>17</sub>	1993 11 17.36609	03 39 51.43	+28 28 27.9		691
					1988 KC	1993 12 14.23934	04 15 30.29	+14 44 45.3		691
					1988 KC	1993 12 14.27374	04 15 28.47	+14 44 36.2	16.6 V	691
					1988 KC	1993 12 14.30770	04 15 26.64	+14 44 27.2		691
					1988 NR	1993 11 17.33407	03 59 09.95	+28 36 39.9		691
					1988 NR	1993 11 17.35444	03 59 08.68	+28 36 29.9	17.0 V	691
					1988 NR	1993 11 17.37942	03 59 07.04	+28 36 17.1		691
					1988 RU <sub>3</sub>	1993 12 16.09745	03 45 49.01	+15 18 32.9	18.0 V	691
					1988 RU <sub>3</sub>	1993 12 16.13091	03 45 47.49	+15 18 30.8		691
					1988 RU <sub>3</sub>	1993 12 16.16482	03 45 46.05	+15 18 28.8		691
					1989 TN	1993 12 14.33608	03 28 36.76	+15 39 29.5		691
					1989 TN	1993 12 14.36757	03 28 35.43	+15 39 29.0	17.7 V	691
					1989 TN	1993 12 14.39864	03 28 34.09	+15 39 28.5		691
					1989 TN	1993 12 16.08473	03 27 27.58	+15 39 04.3	17.7 V	691
					1989 TN	1993 12 16.11820	03 27 26.24	+15 39 03.9		691
					1989 TN	1993 12 16.15211	03 27 24.86	+15 39 04.3		691

**688 Lowell Observatory, Anderson Mesa Station**

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

Observer B. A. Skiff

Measurer B. A. Skiff

0.33-m astrograph

1985 KE	1982 11 15.31042	04 55 54.25	+21 10 25.1	688
1985 KE	1982 11 15.34097	04 55 52.96	+21 10 19.8	688
1993 VW	1982 11 15.31042	04 35 41.60	+18 42 22.8	688
1993 VW	1982 11 15.34097	04 35 40.52	+18 41 38.7	R 688

**690 Lowell Observatory**

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

Observer C. W. Tombaugh

Measurer C. M. Olmstead

0.3-m astrograph

1992 UX <sub>4</sub>	1929 11 27.20278	04 08 07.49	+18 41 15.0	P 690
1992 UX <sub>4</sub>	1929 12 03.18750	04 03 48.72	+17 04 00.2	F 690

**691 Kitt Peak, Steward Observatory**

T. Gehrels, Space Sciences Building, University of Arizona, Tucson, AZ 85721,  
U.S.A.

Observers T. Gehrels, R. Jedicke, J. V. Scotti

0.91-m Spacewatch telescope

GSC

1936 NB	1993 12 16.39160	09 09 16.35	+14 00 06.3	17.7 V	691
1936 NB	1993 12 16.42429	09 09 15.66	+14 00 02.8		691
1936 NB	1993 12 16.45698	09 09 14.98	+13 59 59.0		691
1972 TC	1993 12 17.08913	03 27 08.26	+18 41 53.9		691

1989 WA <sub>2</sub>	1993 12 16.08100	03 22 04.17	+15 13 08.5	15.6 V	691	1993 OR <sub>9</sub>	1993 06 21.41386	20 07 54.33	-17 49 28.5	18.1 V	691
1989 WA <sub>2</sub>	1993 12 16.11447	03 22 02.66	+15 13 23.0		691	1993 OR <sub>9</sub>	1993 06 21.43180	20 07 53.72	-17 49 30.5		691
1989 WA <sub>2</sub>	1993 12 16.14837	03 22 01.15	+15 13 37.3		691	1993 OR <sub>9</sub>	1993 06 21.44709	20 07 53.18	-17 49 32.0		691
1991 AM	1994 01 04.16703	04 05 00.48	-15 03 19.5	19.9 V	691	1993 OV <sub>10</sub>	1993 06 21.41631	20 11 26.42	-18 06 42.9	19.4 V	691
1991 AM	1994 01 04.18525	04 04 59.59	-15 03 00.9	20.0 V	691	1993 OV <sub>10</sub>	1993 06 21.43425	20 11 25.97	-18 06 43.3		691
1991 AM	1994 01 04.20311	04 04 58.74	-15 02 42.3	19.9 V	691	1993 OV <sub>10</sub>	1993 06 21.44954	20 11 25.52	-18 06 43.8		691
1991 PE	1993 11 20.41421	09 14 13.02	+16 00 02.8	19.2 V	691	1993 QR <sub>4</sub>	1993 09 10.24202	23 21 52.53	-06 39 04.2	17.2 V	691
1991 PE	1993 11 20.44767	09 14 13.36	+16 00 01.7		691	1993 QR <sub>4</sub>	1993 09 10.27587	23 21 50.64	-06 39 13.1		691
1991 PE	1993 11 20.48104	09 14 13.80	+16 00 00.3		691	1993 QR <sub>4</sub>	1993 09 10.31272	23 21 48.59	-06 39 23.0		691
1991 PE	1993 12 17.36997	09 13 34.53	+16 14 00.6	18.5 V	691	1993 RQ <sub>6</sub>	1993 09 18.37436	00 30 27.19	+04 44 48.2		691
1991 PE	1993 12 17.40067	09 13 33.90	+16 14 03.9		691	1993 RQ <sub>6</sub>	1993 09 18.40796	00 30 25.65	+04 44 39.7	17.6 V	691
1991 WA	1993 12 14.08778	02 33 40.31	+21 42 08.1	17.2 V	691	1993 RQ <sub>6</sub>	1993 09 18.44191	00 30 24.11	+04 44 30.8		691
1991 WA	1993 12 14.12287	02 33 37.02	+21 43 29.7	17.6 V	691	1993 RZ <sub>6</sub>	1993 09 18.37462	00 31 12.14	+04 42 26.1		691
1991 WA	1993 12 14.15633	02 33 33.80	+21 44 48.8	17.0 V	691	1993 RZ <sub>6</sub>	1993 09 18.40822	00 31 10.19	+04 42 20.3	17.3 V	691
1991 WA	1993 12 15.06805	02 32 17.20	+22 18 58.8	17.1 V	691	1993 RZ <sub>6</sub>	1993 09 18.44217	00 31 08.26	+04 42 14.0		691
1991 WA	1993 12 15.07641	02 32 16.51	+22 19 17.3		691	1993 RC <sub>7</sub>	1993 09 18.37483	00 31 39.10	+04 40 12.2	18.9 V	691
1991 WA	1993 12 15.08431	02 32 15.80	+22 19 34.3	16.9 V	691	1993 RC <sub>7</sub>	1993 09 18.40842	00 31 37.33	+04 40 03.0		691
1992 DN <sub>5</sub>	* 1992 02 28.44528	11 54 55.92	+00 23 25.9	20.6 V	691	1993 RC <sub>7</sub>	1993 09 18.44236	00 31 35.55	+04 39 53.5		691
1992 DN <sub>5</sub>	1992 02 28.46590	11 54 54.91	+00 23 33.1		691	1993 RR <sub>7</sub>	1993 09 18.37711	00 34 56.09	+04 43 54.2		691
1992 DN <sub>5</sub>	1992 02 28.50040	11 54 53.16	+00 23 44.9		691	1993 RR <sub>7</sub>	1993 09 18.41070	00 34 54.63	+04 43 38.0	18.4 V	691
1992 FK <sub>3</sub>	* 1992 03 30.27289	12 15 52.39	-00 53 58.0	19.0 V	691	1993 RR <sub>7</sub>	1993 09 18.44464	00 34 53.15	+04 43 21.6		691
1992 FK <sub>3</sub>	1992 03 30.29019	12 15 51.39	-00 53 50.0		691	1993 SN <sub>3</sub>	1993 09 19.37967	01 38 00.15	+09 39 50.3	17.1 V	691
1992 FK <sub>3</sub>	1992 03 30.30694	12 15 50.47	-00 53 42.3		691	1993 SN <sub>3</sub>	1993 09 19.41305	01 37 59.20	+09 39 43.7		691
1992 HW <sub>6</sub>	* 1992 04 27.19371	13 35 56.52	-03 00 40.8		691	1993 SN <sub>3</sub>	1993 09 19.44614	01 37 58.22	+09 39 37.3		691
1992 HW <sub>6</sub>	1992 04 27.21964	13 35 54.95	-03 00 33.5	18.8 V	691	1993 SP <sub>3</sub>	1993 09 19.38717	01 48 49.85	+09 24 24.6		691
1992 HW <sub>6</sub>	1992 04 27.24365	13 35 53.56	-03 00 26.7		691	1993 SP <sub>3</sub>	1993 09 19.42055	01 48 49.29	+09 24 14.2	17.1 V	691
1992 JG <sub>4</sub>	* 1992 05 04.43575	14 43 20.72	+06 12 38.0	16.1 V	691	1993 SP <sub>3</sub>	1993 09 19.45365	01 48 48.73	+09 24 03.4		691
1992 JG <sub>4</sub>	1992 05 04.44416	14 43 20.33	+06 12 41.5		691	1993 SE <sub>5</sub>	1993 09 14.27198	23 18 28.21	-03 23 18.6	18.2 V	691
1992 JG <sub>4</sub>	1992 05 04.45244	14 43 19.96	+06 12 45.1		691	1993 SE <sub>5</sub>	1993 09 14.30662	23 18 26.25	-03 23 31.9		691
1992 SR <sub>12</sub>	1993 12 14.43700	08 54 37.25	+20 55 40.7	17.0 V	691	1993 SE <sub>5</sub>	1993 09 14.34148	23 18 24.33	-03 23 44.3		691
1992 SR <sub>12</sub>	1993 12 14.47313	08 54 36.67	+20 55 45.3		691	1993 TE <sub>3</sub>	1993 10 24.27068	01 16 13.71	+12 17 59.6	15.5 V	691
1992 SR <sub>12</sub>	1993 12 14.51242	08 54 36.11	+20 55 50.5		691	1993 TE <sub>3</sub>	1993 10 24.27864	01 16 13.19	+12 17 59.3		691
1992 SA <sub>25</sub>	1992 10 02.21452	00 01 16.53	+05 18 04.9		691	1993 TE <sub>3</sub>	1993 10 24.28655	01 16 12.66	+12 17 58.8		691
1992 SA <sub>25</sub>	1992 10 02.24313	00 01 15.69	+05 17 39.9	15.6 V	691	1993 TE <sub>3</sub>	1993 11 09.08578	01 02 18.38	+12 04 46.7		691
1992 SA <sub>25</sub>	1992 10 02.27592	00 01 14.72	+05 17 07.8		691	1993 TE <sub>3</sub>	1993 11 09.12556	01 02 16.72	+12 04 45.9	16.0 V	691
1992 SC <sub>25</sub>	1992 10 02.21624	00 03 45.27	+05 30 41.1	17.1 V	691	1993 TE <sub>3</sub>	1993 11 09.16541	01 02 15.04	+12 04 45.1		691
1992 SC <sub>25</sub>	1992 10 02.24484	00 03 43.94	+05 30 24.7		691	1993 TV <sub>3</sub>	1993 11 08.14174	01 04 42.13	+11 28 50.4		691
1992 SC <sub>25</sub>	1992 10 02.27763	00 03 42.39	+05 30 06.2		691	1993 TV <sub>3</sub>	1993 11 08.18150	01 04 40.63	+11 28 44.5		691
1992 SR <sub>25</sub>	1992 10 02.22559	00 17 15.81	+05 21 51.7	17.0 V	691	1993 TV <sub>3</sub>	1993 11 08.22194	01 04 39.19	+11 28 38.6	18.2 V	691
1992 SR <sub>25</sub>	1992 10 02.25420	00 17 14.21	+05 21 48.6		691	1993 TH <sub>4</sub>	1993 11 06.27578	01 10 26.61	+11 08 07.1	18.1 V	691
1992 SR <sub>25</sub>	1992 10 02.28698	00 17 12.39	+05 21 45.5		691	1993 TH <sub>4</sub>	1993 11 06.32085	01 10 24.81	+11 07 58.0		691
1993 KH	1994 01 05.32604	09 15 45.33	+53 23 47.3	19.0 V	691	1993 TJ <sub>4</sub>	1993 11 08.14541	01 09 59.85	+11 48 44.0	18.1 V	691
1993 KH	1994 01 05.32943	09 15 44.60	+53 23 51.8		691	1993 TJ <sub>4</sub>	1993 11 08.18516	01 09 58.31	+11 48 38.6		691
1993 KH	1994 01 05.33433	09 15 43.57	+53 23 58.7		691	1993 TJ <sub>4</sub>	1993 11 08.22561	01 09 56.77	+11 48 33.2		691
1993 OD <sub>3</sub>	1993 06 22.36104	20 12 53.82	-17 21 57.6		691	1993 TM <sub>4</sub>	1993 11 06.30307	01 51 52.00	+15 58 35.5		691
1993 OD <sub>3</sub>	1993 06 22.37661	20 12 53.34	-17 22 01.1	18.6 V	691	1993 TM <sub>4</sub>	1993 11 06.34335	01 51 50.33	+15 58 18.3	18.6 V	691
1993 OU <sub>7</sub>	1993 06 21.40999	20 02 18.99	-17 50 15.4	17.7 V	691	1993 TM <sub>4</sub>	1993 11 06.38370	01 51 48.72	+15 58 00.9		691
1993 OU <sub>7</sub>	1993 06 21.42792	20 02 18.33	-17 50 16.7		691	1993 TE <sub>5</sub>	1993 11 21.26503	02 23 11.91	+18 55 00.9		691
1993 OU <sub>7</sub>	1993 06 21.44322	20 02 17.73	-17 50 18.2		691	1993 TE <sub>5</sub>	1993 11 21.29863	02 23 10.21	+18 54 48.0	16.4 V	691
1993 OJ <sub>8</sub>	1993 06 21.41204	20 05 16.26	-18 10 20.0	17.3 V	691	1993 TE <sub>5</sub>	1993 11 21.33223	02 23 08.68	+18 54 34.8		691
1993 OJ <sub>8</sub>	1993 06 21.42997	20 05 15.67	-18 10 20.3		691	1993 TL <sub>5</sub>	1993 11 10.10983	01 09 18.91	+12 38 28.6	19.4 V	691
1993 OJ <sub>8</sub>	1993 06 21.44526	20 05 15.17	-18 10 20.2		691	1993 TL <sub>5</sub>	1993 11 10.14934	01 09 17.14	+12 38 16.8		691

1993 TL <sub>5</sub>	1993 11 10.18860	01 09 15.40	+12 38 05.0		691	1993 VO <sub>5</sub>	1993 11 06.45779	03 44 56.95	+28 43 54.3		691
1993 TP <sub>9</sub>	1993 11 08.11752	01 40 25.19	+16 50 03.7		691	1993 VO <sub>5</sub>	1993 11 06.50059	03 44 54.66	+28 43 44.9	18.5 V	691
1993 TP <sub>9</sub>	1993 11 08.16041	01 40 22.81	+16 49 55.2	17.6 V	691	1993 VO <sub>5</sub>	1993 11 09.42940	03 42 14.72	+28 32 49.7		691
1993 TP <sub>9</sub>	1993 11 08.20089	01 40 20.60	+16 49 47.3		691	1993 VO <sub>5</sub>	1993 11 09.47047	03 42 12.35	+28 32 38.1	18.2 V	691
1993 TS <sub>9</sub>	1993 11 06.30216	01 50 32.94	+16 22 02.8	20.2 V	691	1993 VO <sub>5</sub>	1993 11 09.50694	03 42 10.33	+28 32 29.0		691
1993 TS <sub>9</sub>	1993 11 06.34243	01 50 30.99	+16 21 49.2		691	1993 VP <sub>5</sub>	* 1993 11 08.11679	01 39 21.55	+16 53 37.6	18.5 V	691
1993 TS <sub>9</sub>	1993 11 06.38278	01 50 29.04	+16 21 33.7		691	1993 VP <sub>5</sub>	1993 11 08.15968	01 39 19.12	+16 53 35.8		691
1993 TT <sub>9</sub>	1993 11 09.21732	01 54 29.03	+16 14 52.5	20.1 V	691	1993 VP <sub>5</sub>	1993 11 08.20016	01 39 16.87	+16 53 34.1		691
1993 TT <sub>9</sub>	1993 11 09.22593	01 54 28.73	+16 14 50.2		691	1993 VP <sub>5</sub>	1993 11 09.14451	01 38 25.64	+16 52 44.1	19.0 V	691
1993 TT <sub>9</sub>	1993 11 09.23424	01 54 28.39	+16 14 48.5		691	1993 VP <sub>5</sub>	1993 11 09.18462	01 38 23.41	+16 52 42.1		691
1993 TU <sub>9</sub>	1993 11 06.30434	01 53 41.36	+16 19 51.1		691	1993 VQ <sub>5</sub>	* 1993 11 08.11818	01 41 22.19	+16 53 07.5	19.7 V	691
1993 TU <sub>9</sub>	1993 11 06.34461	01 53 39.48	+16 19 39.7	19.5 V	691	1993 VQ <sub>5</sub>	1993 11 08.16107	01 41 19.48	+16 53 00.7		691
1993 TU <sub>9</sub>	1993 11 06.38496	01 53 37.60	+16 19 27.5		691	1993 VQ <sub>5</sub>	1993 11 08.20154	01 41 16.95	+16 52 54.6		691
1993 TX <sub>9</sub>	1993 11 08.12692	01 53 59.15	+16 23 18.5		691	1993 VQ <sub>5</sub>	1993 11 09.10598	01 40 22.98	+16 50 26.3	20.1 V	691
1993 TX <sub>9</sub>	1993 11 08.16982	01 53 57.13	+16 23 05.8		691	1993 VQ <sub>5</sub>	1993 11 09.14565	01 40 20.51	+16 50 20.6		691
1993 TX <sub>9</sub>	1993 11 08.21030	01 53 55.15	+16 22 53.8	20.0 V	691	1993 VQ <sub>5</sub>	1993 11 09.18574	01 40 18.01	+16 50 13.9		691
1993 TX <sub>9</sub>	1993 11 09.21639	01 53 08.78	+16 17 50.2	20.0 V	691	1993 VR <sub>5</sub>	* 1993 11 08.12657	01 53 29.34	+16 42 58.7		691
1993 TX <sub>9</sub>	1993 11 09.23331	01 53 07.98	+16 17 45.6		691	1993 VR <sub>5</sub>	1993 11 08.16947	01 53 26.96	+16 42 55.5	17.0 V	691
1993 TB <sub>10</sub>	1993 11 09.25544	02 37 48.18	+21 55 14.1	20.0 V	691	1993 VR <sub>5</sub>	1993 11 08.20995	01 53 24.70	+16 42 52.4		691
1993 TB <sub>10</sub>	1993 11 09.29728	02 37 45.56	+21 55 04.1		691	1993 VR <sub>5</sub>	1993 11 09.21606	01 52 30.36	+16 41 34.4	17.2 V	691
1993 TB <sub>10</sub>	1993 11 09.33882	02 37 42.96	+21 54 53.1		691	1993 VR <sub>5</sub>	1993 11 09.22466	01 52 29.87	+16 41 33.6		691
1993 TB <sub>10</sub>	1993 11 10.27055	02 36 48.48	+21 50 52.4		691	1993 VR <sub>5</sub>	1993 11 09.23298	01 52 29.42	+16 41 33.0		691
1993 TB <sub>10</sub>	1993 11 10.27886	02 36 48.01	+21 50 50.4	20.0 V	691	1993 VR <sub>5</sub>	1993 11 09.37328	01 52 21.72	+16 41 21.8		691
1993 TB <sub>10</sub>	1993 11 10.28759	02 36 47.47	+21 50 47.8		691	1993 VR <sub>5</sub>	1993 11 09.38156	01 52 21.30	+16 41 21.4	17.2 V	691
1993 TA <sub>19</sub>	1993 09 19.37864	01 36 30.63	+09 28 35.7	18.3 V	691	1993 VR <sub>5</sub>	1993 11 09.38967	01 52 20.83	+16 41 20.9		691
1993 TA <sub>19</sub>	1993 09 19.41201	01 36 29.28	+09 28 26.3		691	1993 VS <sub>5</sub>	* 1993 11 08.12723	01 54 26.55	+16 23 46.8		691
1993 TA <sub>19</sub>	1993 09 19.44510	01 36 27.90	+09 28 17.0		691	1993 VS <sub>5</sub>	1993 11 08.17013	01 54 24.07	+16 23 41.1	20.6 V	691
1993 VC	1993 11 20.25712	02 09 23.42	+15 27 47.2		691	1993 VS <sub>5</sub>	1993 11 08.21060	01 54 21.75	+16 23 38.5		691
1993 VC	1993 11 20.26545	02 09 23.98	+15 27 44.8		691	1993 VS <sub>5</sub>	1993 11 09.21659	01 53 26.17	+16 21 49.0		691
1993 VC	1993 11 20.27340	02 09 24.55	+15 27 42.2	19.7 V	691	1993 VS <sub>5</sub>	1993 11 09.22520	01 53 25.68	+16 21 48.2		691
1993 VC	1993 12 08.23640	02 39 44.67	+14 35 10.3	20.2 V	691	1993 VS <sub>5</sub>	1993 11 09.23351	01 53 25.18	+16 21 47.9	20.3 V	691
1993 VC	1993 12 08.24401	02 39 45.51	+14 35 09.9	20.1 V	691	1993 VS <sub>5</sub>	1993 11 09.37362	01 53 17.39	+16 21 31.4		691
1993 VC	1993 12 08.25218	02 39 46.40	+14 35 09.6	19.7 V	691	1993 VS <sub>5</sub>	1993 11 09.38191	01 53 16.87	+16 21 31.6	20.3 V	691
1993 VC	1994 01 04.12601	03 40 46.46	+15 30 21.2	20.5 V	691	1993 VS <sub>5</sub>	1993 11 09.39002	01 53 16.43	+16 21 30.4		691
1993 VC	1994 01 04.13361	03 40 47.57	+15 30 22.5	20.3 V	691	1993 VT <sub>5</sub>	* 1993 11 08.12738	01 54 39.25	+16 25 53.1	20.0 V	691
1993 VC	1994 01 04.14303	03 40 48.94	+15 30 25.1	20.5 V	691	1993 VT <sub>5</sub>	1993 11 08.17027	01 54 36.78	+16 25 41.0		691
1993 VM	1993 11 20.33545	03 31 32.96	+13 59 55.6	16.6 V	691	1993 VT <sub>5</sub>	1993 11 08.21075	01 54 34.45	+16 25 29.2		691
1993 VM	1993 11 20.35757	03 31 31.56	+13 59 49.4		691	1993 VT <sub>5</sub>	1993 11 09.21674	01 53 38.67	+16 20 40.8		691
1993 VM	1993 11 20.38457	03 31 29.76	+13 59 42.1		691	1993 VT <sub>5</sub>	1993 11 09.22534	01 53 38.21	+16 20 38.9		691
1993 VN	1993 11 21.36962	03 33 23.41	+15 42 56.0	16.2 V	691	1993 VT <sub>5</sub>	1993 11 09.23366	01 53 37.71	+16 20 36.0	19.9 V	691
1993 VN	1993 11 21.40339	03 33 21.19	+15 42 48.0		691	1993 VT <sub>5</sub>	1993 11 09.37376	01 53 29.73	+16 19 55.9	20.0 V	691
1993 VN	1993 11 21.43619	03 33 19.14	+15 42 39.9		691	1993 VT <sub>5</sub>	1993 11 09.38205	01 53 29.28	+16 19 53.2		691
1993 VL <sub>3</sub>	1993 11 21.36916	03 32 43.20	+16 01 42.0	16.5 V	691	1993 VT <sub>5</sub>	1993 11 09.39016	01 53 28.81	+16 19 50.7		691
1993 VL <sub>3</sub>	1993 11 21.40293	03 32 41.32	+16 01 37.4		691	1993 VU <sub>5</sub>	* 1993 11 08.12773	01 55 09.89	+16 34 29.0		691
1993 VL <sub>3</sub>	1993 11 21.43573	03 32 39.56	+16 01 32.8		691	1993 VU <sub>5</sub>	1993 11 08.17063	01 55 07.28	+16 34 20.1		691
1993 VN <sub>5</sub>	* 1993 11 06.39301	02 53 59.80	+24 49 33.0	18.5 V	691	1993 VU <sub>5</sub>	1993 11 08.21110	01 55 04.84	+16 34 11.0	17.3 V	691
1993 VN <sub>5</sub>	1993 11 06.43662	02 53 57.54	+24 49 07.3		691	1993 VU <sub>5</sub>	1993 11 09.21705	01 54 06.07	+16 30 34.7	17.2 V	691
1993 VN <sub>5</sub>	1993 11 06.47947	02 53 55.37	+24 48 42.4		691	1993 VU <sub>5</sub>	1993 11 09.22566	01 54 05.55	+16 30 32.6		691
1993 VN <sub>5</sub>	1993 11 09.26533	02 51 39.17	+24 21 36.6		691	1993 VU <sub>5</sub>	1993 11 09.23397	01 54 05.05	+16 30 31.1		691
1993 VN <sub>5</sub>	1993 11 09.30712	02 51 37.01	+24 21 12.0		691	1993 VU <sub>5</sub>	1993 11 09.37408	01 53 56.68	+16 30 00.6	17.3 V	691
1993 VN <sub>5</sub>	1993 11 09.34825	02 51 34.91	+24 20 47.7	18.1 V	691	1993 VU <sub>5</sub>	1993 11 09.38236	01 53 56.19	+16 29 58.8		691
1993 VO <sub>5</sub>	* 1993 11 06.41400	03 44 59.38	+28 44 03.9		691	1993 VU <sub>5</sub>	1993 11 09.39047	01 53 55.70	+16 29 57.1		691

1993 VU <sub>5</sub>	1993 11 10.29258	01 53 04.26	+16 26 43.6	17.4 V	691	1993 VB <sub>6</sub>	1993 11 10.31035	01 55 51.00	+16 11 36.2		691
1993 VU <sub>5</sub>	1993 11 10.30067	01 53 03.79	+16 26 41.7		691	1993 VB <sub>6</sub>	1993 11 11.38952	01 54 53.34	+16 09 15.5	18.5 V	691
1993 VU <sub>5</sub>	1993 11 10.30876	01 53 03.32	+16 26 40.0		691	1993 VB <sub>6</sub>	1993 11 11.39755	01 54 52.90	+16 09 14.5		691
1993 VV <sub>5</sub>	* 1993 11 08.12899	01 56 59.04	+16 30 33.6		691	1993 VB <sub>6</sub>	1993 11 11.40558	01 54 52.45	+16 09 13.2		691
1993 VV <sub>5</sub>	1993 11 08.17189	01 56 56.87	+16 30 19.2		691	1993 VC <sub>6</sub>	* 1993 11 09.21928	01 57 19.06	+16 14 40.7	18.9 V	691
1993 VV <sub>5</sub>	1993 11 08.21237	01 56 54.83	+16 30 04.6	19.5 V	691	1993 VC <sub>6</sub>	1993 11 09.22789	01 57 18.61	+16 14 39.0		691
1993 VV <sub>5</sub>	1993 11 09.37550	01 56 00.36	+16 23 19.3	19.5 V	691	1993 VC <sub>6</sub>	1993 11 09.23620	01 57 18.16	+16 14 37.1		691
1993 VV <sub>5</sub>	1993 11 09.38379	01 55 59.94	+16 23 16.1		691	1993 VC <sub>6</sub>	1993 11 09.37632	01 57 10.96	+16 14 04.4	18.9 V	691
1993 VV <sub>5</sub>	1993 11 09.39190	01 55 59.55	+16 23 12.9		691	1993 VC <sub>6</sub>	1993 11 09.38460	01 57 10.52	+16 14 02.2		691
1993 VV <sub>5</sub>	1993 11 10.29380	01 55 19.23	+16 18 01.2		691	1993 VC <sub>6</sub>	1993 11 09.39271	01 57 10.10	+16 14 00.1		691
1993 VV <sub>5</sub>	1993 11 10.30188	01 55 18.87	+16 17 58.3	19.5 V	691	1993 VC <sub>6</sub>	1993 11 10.29456	01 56 25.49	+16 10 31.9	18.9 V	691
1993 VV <sub>5</sub>	1993 11 10.30997	01 55 18.47	+16 17 55.2		691	1993 VC <sub>6</sub>	1993 11 10.30265	01 56 25.08	+16 10 30.3		691
1993 VV <sub>5</sub>	1993 11 11.38940	01 54 31.22	+16 11 44.6		691	1993 VC <sub>6</sub>	1993 11 10.31073	01 56 24.66	+16 10 28.2		691
1993 VV <sub>5</sub>	1993 11 11.39743	01 54 30.84	+16 11 41.1		691	1993 VC <sub>6</sub>	1993 11 11.38996	01 55 31.88	+16 06 19.7	19.1 V	691
1993 VV <sub>5</sub>	1993 11 11.40546	01 54 30.50	+16 11 38.4	19.8 V	691	1993 VC <sub>6</sub>	1993 11 11.39799	01 55 31.48	+16 06 17.7		691
1993 VW <sub>5</sub>	* 1993 11 08.14550	01 10 07.18	+11 54 02.5	20.1 V	691	1993 VC <sub>6</sub>	1993 11 11.40602	01 55 31.06	+16 06 15.8		691
1993 VW <sub>5</sub>	1993 11 08.18523	01 10 04.09	+11 54 16.3		691	1993 VD <sub>6</sub>	* 1993 11 09.21940	01 57 29.51	+16 28 36.0		691
1993 VW <sub>5</sub>	1993 11 08.22566	01 10 01.04	+11 54 31.7		691	1993 VD <sub>6</sub>	1993 11 09.22801	01 57 29.05	+16 28 32.1	20.1 V	691
1993 VW <sub>5</sub>	1993 11 09.09040	01 08 58.59	+11 59 41.0	20.0 V	691	1993 VD <sub>6</sub>	1993 11 09.23632	01 57 28.63	+16 28 28.7		691
1993 VW <sub>5</sub>	1993 11 09.17000	01 08 52.70	+12 00 09.3		691	1993 VD <sub>6</sub>	1993 11 10.29472	01 56 39.64	+16 20 43.9		691
1993 VX <sub>5</sub>	* 1993 11 08.14818	01 14 00.00	+11 54 35.5	18.9 V	691	1993 VD <sub>6</sub>	1993 11 10.30281	01 56 39.24	+16 20 40.1		691
1993 VX <sub>5</sub>	1993 11 08.18793	01 13 58.04	+11 54 43.0		691	1993 VD <sub>6</sub>	1993 11 10.31090	01 56 38.86	+16 20 36.6	20.2 V	691
1993 VX <sub>5</sub>	1993 11 08.22837	01 13 56.09	+11 54 50.3		691	1993 VD <sub>6</sub>	1993 11 11.39018	01 55 50.59	+16 12 47.1		691
1993 VX <sub>5</sub>	1993 11 09.09338	01 13 17.38	+11 57 29.9	18.9 V	691	1993 VD <sub>6</sub>	1993 11 11.39821	01 55 50.22	+16 12 43.3	20.2 V	691
1993 VX <sub>5</sub>	1993 11 09.13316	01 13 15.55	+11 57 37.5		691	1993 VD <sub>6</sub>	1993 11 11.40623	01 55 49.82	+16 12 40.0		691
1993 VX <sub>5</sub>	1993 11 09.17301	01 13 13.70	+11 57 45.4		691	1993 VE <sub>6</sub>	* 1993 11 09.21946	01 57 34.79	+16 33 13.7		691
1993 VY <sub>5</sub>	* 1993 11 08.26380	02 48 03.47	+24 02 40.9	19.3 V	691	1993 VE <sub>6</sub>	1993 11 09.22807	01 57 34.29	+16 33 12.5	21.1 V	691
1993 VY <sub>5</sub>	1993 11 08.36077	02 47 57.25	+24 02 20.5		691	1993 VE <sub>6</sub>	1993 11 09.23638	01 57 33.72	+16 33 11.6		691
1993 VY <sub>5</sub>	1993 11 08.41259	02 47 53.95	+24 02 09.6		691	1993 VE <sub>6</sub>	1993 11 09.37648	01 57 25.30	+16 32 44.7	20.9 V	691
1993 VY <sub>5</sub>	1993 11 19.39646	02 37 08.71	+23 19 36.4		691	1993 VE <sub>6</sub>	1993 11 09.38477	01 57 24.78	+16 32 43.2		691
1993 VY <sub>5</sub>	1993 11 19.40485	02 37 08.28	+23 19 33.8	20.2 V	691	1993 VE <sub>6</sub>	1993 11 09.39288	01 57 24.33	+16 32 41.7		691
1993 VY <sub>5</sub>	1993 11 19.41340	02 37 07.75	+23 19 32.3		691	1993 VE <sub>6</sub>	1993 11 10.29465	01 56 33.16	+16 29 57.8		691
1993 VZ <sub>5</sub>	* 1993 11 08.39038	03 04 08.43	+25 33 56.3	18.1 V	691	1993 VE <sub>6</sub>	1993 11 10.30273	01 56 32.70	+16 29 56.5	21.4 V	691
1993 VZ <sub>5</sub>	1993 11 08.45805	03 04 04.83	+25 33 38.8		691	1993 VE <sub>6</sub>	1993 11 10.31082	01 56 32.18	+16 29 55.0		691
1993 VZ <sub>5</sub>	1993 11 08.50086	03 04 02.59	+25 33 28.1		691	1993 VF <sub>6</sub>	* 1993 11 09.21947	01 57 35.40	+16 16 02.0	17.8 V	691
1993 VZ <sub>5</sub>	1993 11 09.39933	03 03 16.06	+25 29 45.6		691	1993 VF <sub>6</sub>	1993 11 09.22807	01 57 34.97	+16 16 00.1		691
1993 VZ <sub>5</sub>	1993 11 09.44835	03 03 13.42	+25 29 32.9	18.5 V	691	1993 VF <sub>6</sub>	1993 11 09.23639	01 57 34.60	+16 15 58.1		691
1993 VZ <sub>5</sub>	1993 11 09.48957	03 03 11.24	+25 29 22.2		691	1993 VF <sub>6</sub>	1993 11 09.37652	01 57 28.04	+16 15 25.7	17.9 V	691
1993 VA <sub>6</sub>	* 1993 11 09.21762	01 54 54.79	+16 42 58.2	19.8 V	691	1993 VF <sub>6</sub>	1993 11 09.38480	01 57 27.65	+16 15 23.9		691
1993 VA <sub>6</sub>	1993 11 09.22622	01 54 54.40	+16 42 55.8		691	1993 VF <sub>6</sub>	1993 11 09.39291	01 57 27.27	+16 15 21.7		691
1993 VA <sub>6</sub>	1993 11 09.23454	01 54 53.96	+16 42 52.5		691	1993 VF <sub>6</sub>	1993 11 11.39027	01 55 58.87	+16 07 48.5	18.1 V	691
1993 VA <sub>6</sub>	1993 11 10.29292	01 54 03.81	+16 36 59.7	19.9 V	691	1993 VF <sub>6</sub>	1993 11 11.39830	01 55 58.52	+16 07 46.8		691
1993 VA <sub>6</sub>	1993 11 10.30101	01 54 03.45	+16 36 56.8		691	1993 VF <sub>6</sub>	1993 11 11.40633	01 55 58.17	+16 07 45.0		691
1993 VA <sub>6</sub>	1993 11 10.30910	01 54 03.06	+16 36 54.1		691	1993 VG <sub>6</sub>	* 1993 11 09.22066	01 59 18.56	+16 29 25.8		691
1993 VB <sub>6</sub>	* 1993 11 09.21895	01 56 50.27	+16 13 59.0		691	1993 VG <sub>6</sub>	1993 11 09.22927	01 59 18.17	+16 29 23.5	21.0 V	691
1993 VB <sub>6</sub>	1993 11 09.22755	01 56 49.76	+16 13 58.0		691	1993 VG <sub>6</sub>	1993 11 09.23758	01 59 17.72	+16 29 21.1		691
1993 VB <sub>6</sub>	1993 11 09.23587	01 56 49.31	+16 13 57.0	18.3 V	691	1993 VG <sub>6</sub>	1993 11 10.29601	01 58 30.94	+16 24 01.1		691
1993 VB <sub>6</sub>	1993 11 09.37598	01 56 41.47	+16 13 38.1	18.2 V	691	1993 VG <sub>6</sub>	1993 11 10.30409	01 58 30.57	+16 23 58.9		691
1993 VB <sub>6</sub>	1993 11 09.38426	01 56 41.01	+16 13 37.0		691	1993 VG <sub>6</sub>	1993 11 10.31218	01 58 30.21	+16 23 56.2	21.2 V	691
1993 VB <sub>6</sub>	1993 11 09.39237	01 56 40.55	+16 13 35.8		691	1993 VH <sub>6</sub>	* 1993 11 09.22069	01 59 21.15	+16 36 22.0		691
1993 VB <sub>6</sub>	1993 11 10.29417	01 55 51.90	+16 11 38.4	18.4 V	691	1993 VH <sub>6</sub>	1993 11 09.22929	01 59 20.72	+16 36 18.8		691
1993 VB <sub>6</sub>	1993 11 10.30226	01 55 51.45	+16 11 37.4		691	1993 VH <sub>6</sub>	1993 11 09.23761	01 59 20.31	+16 36 15.3	19.9 V	691

1993 VH <sub>6</sub>	1993 11 09.37773	01 59 13.69	+16 35 20.6	19.9 V	691	1993 VP <sub>6</sub>	1993 11 10.26811	02 33 17.27	+21 33 38.2	18.9 V	691
1993 VH <sub>6</sub>	1993 11 09.38602	01 59 13.01	+16 35 20.0		691	1993 VP <sub>6</sub>	1993 11 10.27643	02 33 16.73	+21 33 35.1		691
1993 VH <sub>6</sub>	1993 11 09.39413	01 59 12.91	+16 35 14.3		691	1993 VP <sub>6</sub>	1993 11 10.28515	02 33 16.17	+21 33 31.4		691
1993 VH <sub>6</sub>	1993 11 10.29602	01 58 32.27	+16 29 23.9	20.2 V	691	1993 VQ <sub>6</sub>	* 1993 11 09.25317	02 34 31.84	+21 44 57.8		691
1993 VH <sub>6</sub>	1993 11 10.30411	01 58 31.92	+16 29 20.8		691	1993 VQ <sub>6</sub>	1993 11 09.29502	02 34 29.63	+21 44 48.3	20.6 V	691
1993 VH <sub>6</sub>	1993 11 10.31220	01 58 31.51	+16 29 17.6		691	1993 VQ <sub>6</sub>	1993 11 09.33656	02 34 27.36	+21 44 40.2		691
1993 VJ <sub>6</sub>	* 1993 11 09.22072	01 59 23.65	+16 21 53.3	20.3 V	691	1993 VQ <sub>6</sub>	1993 11 10.26836	02 33 38.83	+21 41 42.1		691
1993 VJ <sub>6</sub>	1993 11 09.22932	01 59 23.18	+16 21 51.4		691	1993 VQ <sub>6</sub>	1993 11 10.27667	02 33 38.38	+21 41 41.0	20.5 V	691
1993 VJ <sub>6</sub>	1993 11 09.23764	01 59 22.73	+16 21 49.3		691	1993 VQ <sub>6</sub>	1993 11 10.28540	02 33 37.89	+21 41 39.2		691
1993 VJ <sub>6</sub>	1993 11 09.37776	01 59 15.59	+16 21 19.2		691	1993 VR <sub>6</sub>	* 1993 11 09.25322	02 34 35.87	+21 34 49.4		691
1993 VJ <sub>6</sub>	1993 11 09.38604	01 59 15.17	+16 21 17.4		691	1993 VR <sub>6</sub>	1993 11 09.29507	02 34 33.32	+21 34 46.6		691
1993 VJ <sub>6</sub>	1993 11 09.39415	01 59 14.77	+16 21 15.4	20.3 V	691	1993 VR <sub>6</sub>	1993 11 09.33660	02 34 31.01	+21 34 44.6	18.7 V	691
1993 VJ <sub>6</sub>	1993 11 10.29603	01 58 32.83	+16 18 09.8	20.2 V	691	1993 VR <sub>6</sub>	1993 11 10.26836	02 33 38.55	+21 33 48.1	18.4 V	691
1993 VJ <sub>6</sub>	1993 11 10.30412	01 58 32.43	+16 18 07.7		691	1993 VR <sub>6</sub>	1993 11 10.27667	02 33 38.05	+21 33 47.9		691
1993 VJ <sub>6</sub>	1993 11 10.31220	01 58 32.04	+16 18 06.3		691	1993 VR <sub>6</sub>	1993 11 10.28540	02 33 37.55	+21 33 47.0		691
1993 VK <sub>6</sub>	* 1993 11 09.25064	02 30 52.73	+21 52 27.8		691	1993 VS <sub>6</sub>	* 1993 11 09.25325	02 34 39.14	+21 54 14.8	20.4 V	691
1993 VK <sub>6</sub>	1993 11 09.29249	02 30 50.52	+21 52 20.8	16.8 V	691	1993 VS <sub>6</sub>	1993 11 09.29510	02 34 36.54	+21 53 56.0		691
1993 VK <sub>6</sub>	1993 11 09.33403	02 30 48.35	+21 52 13.6		691	1993 VS <sub>6</sub>	1993 11 09.33663	02 34 33.98	+21 53 38.1		691
1993 VK <sub>6</sub>	1993 11 10.26584	02 30 00.66	+21 49 33.2		691	1993 VS <sub>6</sub>	1993 11 10.26837	02 33 39.25	+21 46 49.3	20.4 V	691
1993 VK <sub>6</sub>	1993 11 10.27416	02 30 00.25	+21 49 31.5	16.9 V	691	1993 VS <sub>6</sub>	1993 11 10.27668	02 33 38.73	+21 46 45.6		691
1993 VK <sub>6</sub>	1993 11 10.28288	02 29 59.78	+21 49 29.9		691	1993 VS <sub>6</sub>	1993 11 10.28541	02 33 38.20	+21 46 41.9		691
1993 VL <sub>6</sub>	* 1993 11 09.25087	02 31 13.05	+21 41 08.3	19.7 V	691	1993 VT <sub>6</sub>	* 1993 11 09.25370	02 35 18.10	+21 55 38.6		691
1993 VL <sub>6</sub>	1993 11 09.29272	02 31 10.28	+21 41 03.3		691	1993 VT <sub>6</sub>	1993 11 09.29556	02 35 15.87	+21 55 10.0		691
1993 VL <sub>6</sub>	1993 11 09.33425	02 31 07.57	+21 40 58.2		691	1993 VT <sub>6</sub>	1993 11 09.33709	02 35 13.63	+21 54 41.0	19.9 V	691
1993 VL <sub>6</sub>	1993 11 10.26594	02 30 08.69	+21 39 03.1		691	1993 VT <sub>6</sub>	1993 11 10.26891	02 34 26.51	+21 43 54.7		691
1993 VL <sub>6</sub>	1993 11 10.27425	02 30 08.16	+21 39 01.6	19.5 V	691	1993 VT <sub>6</sub>	1993 11 10.27723	02 34 26.06	+21 43 49.2	20.0 V	691
1993 VL <sub>6</sub>	1993 11 10.28298	02 30 07.60	+21 39 00.9		691	1993 VT <sub>6</sub>	1993 11 10.28595	02 34 25.57	+21 43 43.1		691
1993 VM <sub>6</sub>	1993 10 24.34568	02 44 35.47	+25 04 54.1	19.4 V	691	1993 VU <sub>6</sub>	* 1993 11 09.25489	02 37 00.72	+21 51 58.9	18.0 V	691
1993 VM <sub>6</sub>	1993 10 24.35375	02 44 35.08	+25 04 48.6		691	1993 VU <sub>6</sub>	1993 11 09.29674	02 36 58.33	+21 51 55.0		691
1993 VM <sub>6</sub>	1993 10 24.36165	02 44 34.72	+25 04 43.2		691	1993 VU <sub>6</sub>	1993 11 09.33827	02 36 55.94	+21 51 51.1		691
1993 VM <sub>6</sub>	* 1993 11 09.25147	02 32 04.34	+21 46 31.3		691	1993 VU <sub>6</sub>	1993 11 10.27004	02 36 04.58	+21 50 21.0	18.0 V	691
1993 VM <sub>6</sub>	1993 11 09.29332	02 32 02.36	+21 45 57.9	19.1 V	691	1993 VU <sub>6</sub>	1993 11 10.27836	02 36 04.14	+21 50 20.9		691
1993 VM <sub>6</sub>	1993 11 09.33486	02 32 00.37	+21 45 24.7		691	1993 VU <sub>6</sub>	1993 11 10.28709	02 36 03.66	+21 50 19.5		691
1993 VM <sub>6</sub>	1993 11 10.26673	02 31 17.20	+21 32 59.2		691	1993 VV <sub>6</sub>	* 1993 11 09.25516	02 37 24.03	+21 42 13.4	21.2 V	691
1993 VM <sub>6</sub>	1993 11 10.27504	02 31 16.83	+21 32 52.8	19.1 V	691	1993 VV <sub>6</sub>	1993 11 09.29700	02 37 21.39	+21 41 54.3		691
1993 VM <sub>6</sub>	1993 11 10.28377	02 31 16.41	+21 32 45.6		691	1993 VV <sub>6</sub>	1993 11 09.33854	02 37 18.79	+21 41 34.2		691
1993 VM <sub>6</sub>	1993 11 21.26525	02 23 30.72	+19 05 40.3	19.2 V	691	1993 VV <sub>6</sub>	1993 11 10.27024	02 36 21.53	+21 33 58.1	19.7 V	691
1993 VM <sub>6</sub>	1993 11 21.29885	02 23 29.35	+19 05 13.6		691	1993 VV <sub>6</sub>	1993 11 10.27855	02 36 21.07	+21 33 54.3		691
1993 VM <sub>6</sub>	1993 11 21.33245	02 23 28.14	+19 04 46.9		691	1993 VV <sub>6</sub>	1993 11 10.28728	02 36 20.55	+21 33 50.5		691
1993 VN <sub>6</sub>	* 1993 11 09.25236	02 33 21.55	+21 29 51.4	19.9 V	691	1993 VW <sub>6</sub>	* 1993 11 09.25516	02 37 24.70	+21 47 06.1		691
1993 VN <sub>6</sub>	1993 11 09.29421	02 33 19.43	+21 29 37.5		691	1993 VW <sub>6</sub>	1993 11 09.29702	02 37 22.49	+21 46 48.6	20.7 V	691
1993 VN <sub>6</sub>	1993 11 10.26760	02 32 32.91	+21 24 24.4	20.1 V	691	1993 VW <sub>6</sub>	1993 11 09.33855	02 37 20.35	+21 46 30.7		691
1993 VN <sub>6</sub>	1993 11 10.27591	02 32 32.47	+21 24 22.0		691	1993 VW <sub>6</sub>	1993 11 10.27038	02 36 34.03	+21 39 49.4		691
1993 VN <sub>6</sub>	1993 11 10.28464	02 32 32.03	+21 24 18.8		691	1993 VW <sub>6</sub>	1993 11 10.27870	02 36 33.61	+21 39 46.1	20.8 V	691
1993 VO <sub>6</sub>	* 1993 11 09.25259	02 33 41.44	+21 49 33.5	17.8 V	691	1993 VW <sub>6</sub>	1993 11 10.28743	02 36 33.18	+21 39 42.1		691
1993 VO <sub>6</sub>	1993 11 09.29443	02 33 38.66	+21 49 39.2		691	1993 VX <sub>6</sub>	* 1993 11 09.25541	02 37 45.77	+21 39 22.9		691
1993 VO <sub>6</sub>	1993 11 09.33596	02 33 35.89	+21 49 44.8		691	1993 VX <sub>6</sub>	1993 11 09.29726	02 37 43.33	+21 39 19.9	19.9 V	691
1993 VO <sub>6</sub>	1993 11 10.26764	02 32 36.78	+21 51 51.7	17.9 V	691	1993 VX <sub>6</sub>	1993 11 09.33879	02 37 40.88	+21 39 16.6		691
1993 VO <sub>6</sub>	1993 11 10.27596	02 32 36.21	+21 51 53.2		691	1993 VX <sub>6</sub>	1993 11 10.27055	02 36 48.44	+21 38 06.6		691
1993 VO <sub>6</sub>	1993 11 10.28469	02 32 35.64	+21 51 53.9		691	1993 VX <sub>6</sub>	1993 11 10.27886	02 36 48.01	+21 38 05.9	20.6 V	691
1993 VP <sub>6</sub>	* 1993 11 09.25301	02 34 18.38	+21 40 22.5	18.7 V	691	1993 VX <sub>6</sub>	1993 11 10.28759	02 36 47.48	+21 38 05.7		691
1993 VP <sub>6</sub>	1993 11 09.33639	02 34 13.14	+21 39 49.1		691	1993 VY <sub>6</sub>	* 1993 11 09.25550	02 37 53.59	+21 33 01.9		691



1993 VY <sub>6</sub>	1993 11 09.29734	02 37 50.79	+21 32 45.9	17.3 V	691	1993 VG <sub>7</sub>	1993 11 10.31175	01 57 53.10	+16 16 43.1		691
1993 VY <sub>6</sub>	1993 11 09.33887	02 37 47.99	+21 32 29.6		691	1993 VG <sub>7</sub>	1993 11 11.39107	01 57 08.16	+16 07 18.0	20.2 V	691
1993 VY <sub>6</sub>	1993 11 10.27056	02 36 49.63	+21 26 27.2	17.5 V	691	1993 VG <sub>7</sub>	1993 11 11.39910	01 57 07.85	+16 07 13.6		691
1993 VY <sub>6</sub>	1993 11 10.27888	02 36 49.10	+21 26 23.9		691	1993 VG <sub>7</sub>	1993 11 11.40713	01 57 07.29	+16 07 03.7		691
1993 VY <sub>6</sub>	1993 11 10.28760	02 36 48.52	+21 26 20.9		691	1993 VH <sub>7</sub>	* 1993 11 09.37809	01 59 44.20	+16 28 26.4	20.3 V	691
1993 VZ <sub>6</sub>	* 1993 11 09.26903	02 56 59.70	+24 43 29.5		691	1993 VH <sub>7</sub>	1993 11 09.38637	01 59 43.73	+16 28 26.0		691
1993 VZ <sub>6</sub>	1993 11 09.31081	02 56 56.60	+24 43 25.0		691	1993 VH <sub>7</sub>	1993 11 09.39448	01 59 43.31	+16 28 25.2		691
1993 VZ <sub>6</sub>	1993 11 09.35193	02 56 53.56	+24 43 20.0	17.0 V	691	1993 VH <sub>7</sub>	1993 11 10.29632	01 58 57.54	+16 28 01.2	20.3 V	691
1993 VZ <sub>6</sub>	1993 11 17.29221	02 47 39.28	+24 24 06.1	17.4 V	691	1993 VH <sub>7</sub>	1993 11 10.30440	01 58 57.15	+16 28 00.9		691
1993 VZ <sub>6</sub>	1993 11 17.30083	02 47 38.67	+24 24 04.6		691	1993 VH <sub>7</sub>	1993 11 10.31249	01 58 56.72	+16 28 00.8		691
1993 VZ <sub>6</sub>	1993 11 17.30870	02 47 38.13	+24 24 03.2		691	1993 VJ <sub>7</sub>	* 1993 11 09.37816	01 59 50.65	+16 41 49.4	19.5 V	691
1993 VA <sub>7</sub>	* 1993 11 09.27008	02 58 30.72	+24 46 46.6		691	1993 VJ <sub>7</sub>	1993 11 09.38645	01 59 50.29	+16 41 44.9		691
1993 VA <sub>7</sub>	1993 11 09.31187	02 58 28.12	+24 46 40.4		691	1993 VJ <sub>7</sub>	1993 11 09.39456	01 59 49.98	+16 41 42.0		691
1993 VA <sub>7</sub>	1993 11 09.35299	02 58 25.52	+24 46 35.5	20.9 V	691	1993 VJ <sub>7</sub>	1993 11 11.39209	01 58 36.28	+16 26 22.0	19.7 V	691
1993 VA <sub>7</sub>	1993 11 17.29421	02 50 32.88	+24 25 59.3	20.4 V	691	1993 VJ <sub>7</sub>	1993 11 11.40012	01 58 35.95	+16 26 18.1		691
1993 VA <sub>7</sub>	1993 11 17.30283	02 50 32.35	+24 25 58.3		691	1993 VJ <sub>7</sub>	1993 11 11.40815	01 58 35.65	+16 26 14.3		691
1993 VA <sub>7</sub>	1993 11 17.31071	02 50 31.91	+24 25 56.9		691	1993 VK <sub>7</sub>	* 1993 11 09.42781	03 39 56.49	+28 05 56.7		691
1993 VB <sub>7</sub>	* 1993 11 09.27023	02 58 43.65	+24 41 37.3		691	1993 VK <sub>7</sub>	1993 11 09.46886	03 39 53.53	+28 05 57.0	18.8 V	691
1993 VB <sub>7</sub>	1993 11 09.31201	02 58 40.72	+24 41 29.4		691	1993 VK <sub>7</sub>	1993 11 09.50533	03 39 51.04	+28 05 57.5		691
1993 VB <sub>7</sub>	1993 11 09.35313	02 58 37.89	+24 41 21.7	19.7 V	691	1993 VK <sub>7</sub>	1993 11 10.23272	03 39 01.34	+28 06 10.9	18.7 V	691
1993 VB <sub>7</sub>	1993 11 17.29384	02 50 00.52	+24 11 22.8	18.7 V	691	1993 VK <sub>7</sub>	1993 11 10.24558	03 39 00.43	+28 06 11.1		691
1993 VB <sub>7</sub>	1993 11 17.30246	02 49 59.97	+24 11 19.7		691	1993 VK <sub>7</sub>	1993 11 10.25844	03 38 59.51	+28 06 11.4		691
1993 VB <sub>7</sub>	1993 11 17.31033	02 49 59.47	+24 11 16.7		691	1993 VL <sub>7</sub>	* 1993 11 10.12972	01 47 56.35	+17 44 06.0		691
1993 VC <sub>7</sub>	* 1993 11 09.27305	03 02 47.77	+24 29 19.8		691	1993 VL <sub>7</sub>	1993 11 10.16928	01 47 53.99	+17 44 06.5	19.6 V	691
1993 VC <sub>7</sub>	1993 11 09.31483	03 02 45.03	+24 29 17.4		691	1993 VL <sub>7</sub>	1993 11 10.20822	01 47 51.64	+17 44 06.9		691
1993 VC <sub>7</sub>	1993 11 09.35596	03 02 42.36	+24 29 14.8	17.9 V	691	1993 VL <sub>7</sub>	1993 11 20.14540	01 39 33.64	+17 43 10.3	20.1 V	691
1993 VC <sub>7</sub>	1993 11 17.29703	02 54 37.27	+24 17 24.5		691	1993 VL <sub>7</sub>	1993 11 20.17906	01 39 32.14	+17 43 12.4		691
1993 VC <sub>7</sub>	1993 11 17.30565	02 54 36.73	+24 17 23.4	18.7 V	691	1993 VL <sub>7</sub>	1993 11 20.21244	01 39 30.74	+17 43 11.6		691
1993 VC <sub>7</sub>	1993 11 17.31353	02 54 36.24	+24 17 22.2		691	1993 VM <sub>7</sub>	* 1993 11 10.13244	01 51 52.38	+17 34 14.0		691
1993 VD <sub>7</sub>	* 1993 11 09.37441	01 54 25.59	+16 35 21.4		691	1993 VM <sub>7</sub>	1993 11 10.17200	01 51 50.29	+17 34 13.6	19.5 V	691
1993 VD <sub>7</sub>	1993 11 09.38269	01 54 25.14	+16 35 18.9	20.4 V	691	1993 VM <sub>7</sub>	1993 11 10.21095	01 51 48.22	+17 34 11.6		691
1993 VD <sub>7</sub>	1993 11 09.39081	01 54 24.74	+16 35 16.3		691	1993 VM <sub>7</sub>	1993 11 20.14850	01 44 02.35	+17 26 12.7	19.8 V	691
1993 VD <sub>7</sub>	1993 11 10.29279	01 53 40.56	+16 30 57.7	20.6 V	691	1993 VM <sub>7</sub>	1993 11 20.18217	01 44 00.98	+17 26 12.7		691
1993 VD <sub>7</sub>	1993 11 10.30088	01 53 40.14	+16 30 55.0		691	1993 VM <sub>7</sub>	1993 11 20.21555	01 43 59.53	+17 26 10.6		691
1993 VD <sub>7</sub>	1993 11 10.30897	01 53 39.73	+16 30 52.9		691	1993 VN <sub>7</sub>	* 1993 11 10.13410	01 54 16.45	+17 17 52.4	19.7 V	691
1993 VE <sub>7</sub>	* 1993 11 09.37521	01 55 34.84	+16 35 42.5		691	1993 VN <sub>7</sub>	1993 11 10.17366	01 54 14.08	+17 17 51.4		691
1993 VE <sub>7</sub>	1993 11 09.38349	01 55 34.42	+16 35 40.3	20.9 V	691	1993 VN <sub>7</sub>	1993 11 10.21261	01 54 11.85	+17 17 50.1		691
1993 VE <sub>7</sub>	1993 11 09.39161	01 55 34.05	+16 35 38.2		691	1993 VN <sub>7</sub>	1993 11 20.14984	01 45 58.43	+17 13 58.2	20.4 V	691
1993 VE <sub>7</sub>	1993 11 10.29347	01 54 51.17	+16 31 29.2		691	1993 VN <sub>7</sub>	1993 11 20.18351	01 45 57.03	+17 13 58.1		691
1993 VE <sub>7</sub>	1993 11 10.30156	01 54 50.83	+16 31 26.7	20.7 V	691	1993 VN <sub>7</sub>	1993 11 20.21688	01 45 55.54	+17 13 58.1		691
1993 VE <sub>7</sub>	1993 11 10.30965	01 54 50.38	+16 31 24.8		691	1993 VO <sub>7</sub>	* 1993 11 10.13763	01 59 21.99	+17 38 34.7		691
1993 VF <sub>7</sub>	* 1993 11 09.37641	01 57 18.58	+16 24 21.0		691	1993 VO <sub>7</sub>	1993 11 10.17719	01 59 19.44	+17 38 30.2		691
1993 VF <sub>7</sub>	1993 11 09.38469	01 57 18.06	+16 24 19.6		691	1993 VO <sub>7</sub>	1993 11 10.21613	01 59 16.95	+17 38 26.9	19.7 V	691
1993 VF <sub>7</sub>	1993 11 09.39280	01 57 17.64	+16 24 18.4	20.9 V	691	1993 VO <sub>7</sub>	1993 11 20.15249	01 49 48.10	+17 22 21.6		691
1993 VF <sub>7</sub>	1993 11 10.29460	01 56 29.06	+16 22 07.6	21.1 V	691	1993 VO <sub>7</sub>	1993 11 20.18615	01 49 46.25	+17 22 19.7	20.7 V	691
1993 VF <sub>7</sub>	1993 11 10.30269	01 56 28.60	+16 22 06.5		691	1993 VO <sub>7</sub>	1993 11 20.21953	01 49 44.46	+17 22 15.7		691
1993 VF <sub>7</sub>	1993 11 10.31077	01 56 28.17	+16 22 05.0		691	1993 VP <sub>7</sub>	* 1993 11 10.29431	01 56 03.52	+16 18 39.8	20.7 V	691
1993 VG <sub>7</sub>	* 1993 11 09.37726	01 58 32.66	+16 24 55.3		691	1993 VP <sub>7</sub>	1993 11 10.30239	01 56 03.06	+16 18 38.3		691
1993 VG <sub>7</sub>	1993 11 09.38555	01 58 32.28	+16 24 50.8		691	1993 VP <sub>7</sub>	1993 11 10.31048	01 56 02.60	+16 18 36.6		691
1993 VG <sub>7</sub>	1993 11 09.39366	01 58 31.93	+16 24 46.3	20.1 V	691	1993 VP <sub>7</sub>	1993 11 11.38963	01 55 02.84	+16 14 50.1	20.6 V	691
1993 VG <sub>7</sub>	1993 11 10.29558	01 57 53.81	+16 16 51.5		691	1993 VP <sub>7</sub>	1993 11 11.39765	01 55 02.35	+16 14 48.4		691
1993 VG <sub>7</sub>	1993 11 10.30367	01 57 53.44	+16 16 47.3	20.0 V	691	1993 VP <sub>7</sub>	1993 11 11.40568	01 55 01.90	+16 14 46.4		691

1993 VQ <sub>7</sub>	* 1993 11 10.29516	01 57 17.32	+16 12 08.8	691	1993 WN	1993 11 20.25694	02 09 07.25	+15 38 20.5	17.9 V	691
1993 VQ <sub>7</sub>	1993 11 10.30324	01 57 16.97	+16 12 07.6	691	1993 WN	1993 11 20.26526	02 09 06.94	+15 38 18.0		691
1993 VQ <sub>7</sub>	1993 11 10.31133	01 57 16.50	+16 12 07.3	20.8 V	1993 WN	1993 11 20.27319	02 09 06.63	+15 38 15.6		691
1993 VQ <sub>7</sub>	1993 11 11.39057	01 56 24.57	+16 10 16.1		1993 WO	* 1993 11 17.27701	02 10 23.97	+15 37 17.5		691
1993 VQ <sub>7</sub>	1993 11 11.39860	01 56 24.12	+16 10 14.4		1993 WO	1993 11 17.28451	02 10 23.58	+15 37 16.0	21.5 V	691
1993 VQ <sub>7</sub>	1993 11 11.40662	01 56 23.76	+16 10 13.8	20.8 V	1993 WO	1993 11 20.25615	02 07 59.18	+15 23 53.1		691
1993 VR <sub>7</sub>	* 1993 11 10.29697	01 59 54.39	+16 19 02.9		1993 WO	1993 11 20.26447	02 07 58.76	+15 23 50.9	20.8 V	691
1993 VR <sub>7</sub>	1993 11 10.30506	01 59 54.01	+16 19 02.1	19.7 V	1993 WO	1993 11 20.27240	02 07 58.37	+15 23 49.2		691
1993 VR <sub>7</sub>	1993 11 10.31314	01 59 53.60	+16 19 01.1		1993 XM <sub>1</sub>	* 1993 12 10.43903	10 50 06.50	+22 02 51.3	19.2 V	691
1993 VR <sub>7</sub>	1993 11 11.39239	01 59 02.14	+16 16 56.3	19.8 V	1993 XM <sub>1</sub>	1993 12 10.47283	10 50 06.82	+22 02 56.0	19.1 V	691
1993 VR <sub>7</sub>	1993 11 11.40042	01 59 01.76	+16 16 55.1		1993 XM <sub>1</sub>	1993 12 10.50986	10 50 07.16	+22 03 00.7	19.1 V	691
1993 VR <sub>7</sub>	1993 11 11.40844	01 59 01.37	+16 16 54.5		1993 XM <sub>1</sub>	1993 12 17.46748	10 50 54.96	+22 19 42.6	19.0 V	691
1993 VS <sub>7</sub>	* 1993 11 10.34976	02 29 20.93	+21 58 08.0		1993 XM <sub>1</sub>	1993 12 17.50180	10 50 54.98	+22 19 48.1	19.1 V	691
1993 VS <sub>7</sub>	1993 11 10.39091	02 29 19.00	+21 57 30.0	19.4 V	1993 XM <sub>1</sub>	1993 12 17.53933	10 50 55.20	+22 19 53.9	19.0 V	691
1993 VS <sub>7</sub>	1993 11 10.45952	02 29 15.93	+21 56 27.8		1993 XM <sub>1</sub>	1993 12 18.42868	10 50 59.02	+22 22 16.0		691
1993 VS <sub>7</sub>	1993 11 21.26445	02 22 21.73	+19 14 41.6		1993 XM <sub>1</sub>	1993 12 18.49941	10 50 59.20	+22 22 27.4	19.0 V	691
1993 VS <sub>7</sub>	1993 11 21.29806	02 22 20.54	+19 14 12.3	19.8 V	1993 XM <sub>1</sub>	1993 12 18.54089	10 50 59.34	+22 22 34.2		691
1993 VS <sub>7</sub>	1993 11 21.33166	02 22 19.48	+19 13 42.0		1993 XC <sub>2</sub>	* 1993 12 10.44756	10 23 27.90	+22 09 48.3	18.9 V	691
1993 WG	1993 11 23.30567	02 26 40.69	+17 51 40.9		1993 XC <sub>2</sub>	1993 12 10.45585	10 23 28.37	+22 09 49.9		691
1993 WG	1993 11 23.32951	02 26 40.46	+17 51 25.4		1993 XC <sub>2</sub>	1993 12 10.46374	10 23 28.84	+22 09 51.8		691
1993 WG	1993 11 23.39285	02 26 39.84	+17 50 41.0		1993 XC <sub>2</sub>	1993 12 17.45274	10 29 38.63	+22 37 27.8	18.6 V	691
1993 WG	1993 11 23.40975	02 26 39.69	+17 50 29.4		1993 XC <sub>2</sub>	1993 12 17.48708	10 29 40.24	+22 37 37.1		691
1993 WG	1993 12 08.15747	02 28 37.97	+15 29 01.3	19.6 V	1993 XC <sub>2</sub>	1993 12 17.52463	10 29 41.89	+22 37 47.6		691
1993 WG	1993 12 08.17828	02 28 38.38	+15 28 52.3	19.9 V	1993 XD <sub>2</sub>	* 1993 12 14.22359	03 52 46.02	+14 37 29.6	19.1 V	691
1993 WG	1993 12 08.19895	02 28 38.80	+15 28 42.8	20.2 V	1993 XD <sub>2</sub>	1993 12 14.25797	03 52 42.74	+14 38 05.3		691
1993 WJ	* 1993 11 17.26599	02 06 34.08	+15 28 05.9		1993 XD <sub>2</sub>	1993 12 14.29191	03 52 39.56	+14 38 40.2		691
1993 WJ	1993 11 17.27435	02 06 33.66	+15 28 05.8		1993 XD <sub>2</sub>	1993 12 16.10032	03 49 58.12	+15 10 15.4		691
1993 WJ	1993 11 17.28185	02 06 33.29	+15 28 04.8	19.5 V	1993 XD <sub>2</sub>	1993 12 16.13377	03 49 55.08	+15 10 51.1		691
1993 WJ	1993 11 20.25406	02 04 20.06	+15 20 12.6		1993 XD <sub>2</sub>	1993 12 16.16766	03 49 52.03	+15 11 27.2	19.3 V	691
1993 WJ	1993 11 20.26239	02 04 19.65	+15 20 11.6	18.6 V	1993 XE <sub>2</sub>	* 1993 12 14.33195	03 22 38.99	+15 39 08.6		691
1993 WJ	1993 11 20.27032	02 04 19.31	+15 20 10.1		1993 XE <sub>2</sub>	1993 12 14.36344	03 22 37.66	+15 39 03.4	20.2 V	691
1993 WK	* 1993 11 17.26821	02 09 46.55	+15 54 27.0	20.3 V	1993 XE <sub>2</sub>	1993 12 14.39451	03 22 36.42	+15 38 58.2		691
1993 WK	1993 11 17.27657	02 09 46.14	+15 54 25.1		1993 XE <sub>2</sub>	1993 12 16.08062	03 21 31.91	+15 34 02.7	19.7 V	691
1993 WK	1993 11 17.28407	02 09 45.69	+15 54 23.7		1993 XE <sub>2</sub>	1993 12 16.11409	03 21 30.60	+15 33 56.4		691
1993 WK	1993 11 20.25561	02 07 12.43	+15 40 56.0	19.6 V	1993 XE <sub>2</sub>	1993 12 16.14801	03 21 29.27	+15 33 51.3		691
1993 WK	1993 11 20.26393	02 07 12.02	+15 40 54.1		1993 XF <sub>2</sub>	* 1993 12 14.33282	03 23 54.35	+15 54 45.9		691
1993 WK	1993 11 20.27186	02 07 11.62	+15 40 51.7		1993 XF <sub>2</sub>	1993 12 14.36432	03 23 53.60	+15 54 27.0	18.0 V	691
1993 WL	* 1993 11 17.26831	02 09 54.97	+15 29 02.3	20.8 V	1993 XF <sub>2</sub>	1993 12 14.39539	03 23 52.93	+15 54 08.8		691
1993 WL	1993 11 17.27667	02 09 54.54	+15 28 59.5		1993 XF <sub>2</sub>	1993 12 16.08189	03 23 21.79	+15 37 40.8		691
1993 WL	1993 11 17.28417	02 09 54.17	+15 28 57.6		1993 XF <sub>2</sub>	1993 12 16.11537	03 23 21.11	+15 37 22.1	18.1 V	691
1993 WL	1993 11 20.25593	02 07 39.87	+15 12 37.2	20.5 V	1993 XF <sub>2</sub>	1993 12 16.14929	03 23 20.46	+15 37 02.6		691
1993 WL	1993 11 20.26425	02 07 39.52	+15 12 34.9		1993 XG <sub>2</sub>	* 1993 12 14.33470	03 26 37.69	+15 47 25.4	20.2 V	691
1993 WL	1993 11 20.27218	02 07 39.16	+15 12 32.2		1993 XG <sub>2</sub>	1993 12 14.36619	03 26 36.31	+15 47 30.2		691
1993 WM	* 1993 11 17.26888	02 10 44.20	+15 33 18.1	19.1 V	1993 XG <sub>2</sub>	1993 12 14.39726	03 26 34.93	+15 47 35.4		691
1993 WM	1993 11 17.27724	02 10 43.72	+15 33 18.0		1993 XG <sub>2</sub>	1993 12 17.19680	03 24 39.66	+15 54 48.0		691
1993 WM	1993 11 17.28473	02 10 43.32	+15 33 18.1		1993 XG <sub>2</sub>	1993 12 17.20566	03 24 39.31	+15 54 49.1	20.2 V	691
1993 WM	1993 11 20.25630	02 08 12.15	+15 31 39.3	18.4 V	1993 XG <sub>2</sub>	1993 12 17.21419	03 24 38.90	+15 54 50.8		691
1993 WM	1993 11 20.26462	02 08 11.76	+15 31 39.0		1993 XH <sub>2</sub>	* 1993 12 14.33519	03 27 19.66	+15 54 46.6		691
1993 WM	1993 11 20.27255	02 08 11.35	+15 31 39.0		1993 XH <sub>2</sub>	1993 12 14.36668	03 27 18.43	+15 54 44.7	18.9 V	691
1993 WN	* 1993 11 17.26912	02 11 05.71	+15 53 45.7	18.3 V	1993 XH <sub>2</sub>	1993 12 14.39775	03 27 17.18	+15 54 43.3		691
1993 WN	1993 11 17.27749	02 11 05.33	+15 53 43.4		1993 XH <sub>2</sub>	1993 12 17.19744	03 25 35.02	+15 52 20.2	19.0 V	691
1993 WN	1993 11 17.28498	02 11 04.98	+15 53 41.0		1993 XH <sub>2</sub>	1993 12 17.20630	03 25 34.73	+15 52 20.0		691

1993 XH <sub>2</sub>	1993 12 17.21483	03 25 34.39	+15 52 19.4		691	1993 YX	* 1993 12 16.24344	03 22 05.98	+18 00 58.5		691
1993 XJ <sub>2</sub>	* 1993 12 14.33543	03 27 40.43	+16 05 58.1	17.7 V	691	1993 YX	1993 12 16.27692	03 22 04.68	+18 00 56.8	18.7 V	691
1993 XJ <sub>2</sub>	1993 12 14.36692	03 27 39.13	+16 05 52.3		691	1993 YX	1993 12 16.31082	03 22 03.31	+18 00 54.6		691
1993 XJ <sub>2</sub>	1993 12 14.39799	03 27 37.80	+16 05 46.3		691	1993 YX	1993 12 17.22311	03 21 29.52	+18 00 13.1	18.7 V	691
1993 XJ <sub>2</sub>	1993 12 17.19761	03 25 49.28	+15 56 55.8		691	1993 YX	1993 12 17.25727	03 21 28.18	+18 00 11.6		691
1993 XJ <sub>2</sub>	1993 12 17.20646	03 25 48.96	+15 56 54.1	17.6 V	691	1993 YX	1993 12 17.30141	03 21 26.54	+18 00 09.8		691
1993 XJ <sub>2</sub>	1993 12 17.21500	03 25 48.63	+15 56 52.5		691	1993 YY	* 1993 12 16.24430	03 23 20.69	+18 08 59.1		691
1993 XK <sub>2</sub>	* 1993 12 14.33586	03 28 18.14	+15 52 49.0		691	1993 YY	1993 12 16.27778	03 23 19.23	+18 09 02.2	17.9 V	691
1993 XK <sub>2</sub>	1993 12 14.36735	03 28 16.58	+15 52 52.0		691	1993 YY	1993 12 16.31168	03 23 17.76	+18 09 04.9		691
1993 XK <sub>2</sub>	1993 12 14.39842	03 28 15.02	+15 52 54.5	19.6 V	691	1993 YY	1993 12 17.22394	03 22 41.05	+18 10 35.5	17.9 V	691
1993 XK <sub>2</sub>	1993 12 17.19780	03 26 05.90	+15 57 08.3		691	1993 YY	1993 12 17.25809	03 22 39.57	+18 10 38.4		691
1993 XK <sub>2</sub>	1993 12 17.20665	03 26 05.49	+15 57 09.4	19.6 V	691	1993 YY	1993 12 17.30224	03 22 37.79	+18 10 43.0		691
1993 XK <sub>2</sub>	1993 12 17.21519	03 26 05.13	+15 57 10.1		691	1993 YZ	* 1993 12 16.24497	03 24 18.44	+18 04 24.6		691
1993 XL <sub>2</sub>	* 1993 12 14.33624	03 28 50.42	+15 38 02.0	19.5 V	691	1993 YZ	1993 12 16.27846	03 24 17.68	+18 04 13.1		691
1993 XL <sub>2</sub>	1993 12 14.36773	03 28 49.25	+15 37 54.4		691	1993 YZ	1993 12 16.31237	03 24 16.85	+18 04 00.5	17.9 V	691
1993 XL <sub>2</sub>	1993 12 14.39880	03 28 48.05	+15 37 46.8		691	1993 YZ	1993 12 17.22483	03 23 58.79	+17 58 43.8		691
1993 XL <sub>2</sub>	1993 12 16.08500	03 27 50.57	+15 31 10.1		691	1993 YZ	1993 12 17.25900	03 23 58.00	+17 58 31.9	18.1 V	691
1993 XL <sub>2</sub>	1993 12 16.11847	03 27 49.25	+15 31 03.5		691	1993 YZ	1993 12 17.30315	03 23 57.07	+17 58 16.6		691
1993 XL <sub>2</sub>	1993 12 16.15238	03 27 48.18	+15 30 55.1	19.4 V	691	1993 YA <sub>1</sub>	* 1993 12 16.24549	03 25 03.62	+17 50 43.6		691
1993 XM <sub>2</sub>	* 1993 12 14.33754	03 30 43.18	+15 37 57.6		691	1993 YA <sub>1</sub>	1993 12 16.27898	03 25 02.74	+17 50 38.1	18.9 V	691
1993 XM <sub>2</sub>	1993 12 14.36903	03 30 42.10	+15 37 54.2	19.5 V	691	1993 YA <sub>1</sub>	1993 12 16.31289	03 25 01.86	+17 50 32.0		691
1993 XM <sub>2</sub>	1993 12 14.40010	03 30 40.96	+15 37 50.8		691	1993 YA <sub>1</sub>	1993 12 17.22532	03 24 40.82	+18 04 00.3		691
1993 XM <sub>2</sub>	1993 12 16.08637	03 29 49.31	+15 35 16.6	18.3 V	691	1993 YA <sub>1</sub>	1993 12 17.25948	03 24 39.93	+17 47 54.4		691
1993 XM <sub>2</sub>	1993 12 16.11984	03 29 48.25	+15 35 14.3		691	1993 YA <sub>1</sub>	1993 12 17.30363	03 24 38.87	+17 47 47.1	19.0 V	691
1993 XM <sub>2</sub>	1993 12 16.15375	03 29 47.17	+15 35 11.6		691	1993 YB <sub>1</sub>	* 1993 12 16.24574	03 25 25.26	+18 04 54.3		691
1993 YA	* 1993 12 16.08390	03 26 15.37	+15 21 52.7	19.5 V	691	1993 YB <sub>1</sub>	1993 12 16.27922	03 25 24.03	+18 04 53.5	20.1 V	691
1993 YA	1993 12 16.11735	03 26 12.87	+15 23 05.1	19.7 V	691	1993 YB <sub>1</sub>	1993 12 16.31313	03 25 22.78	+18 04 52.7		691
1993 YA	1993 12 16.15125	03 26 10.30	+15 24 17.9	19.9 V	691	1993 YB <sub>1</sub>	1993 12 17.22545	03 24 52.05	+18 04 42.1	20.1 V	691
1993 YA	1993 12 17.19701	03 24 57.62	+16 01 30.2	20.1 V	691	1993 YB <sub>1</sub>	1993 12 17.25961	03 24 50.83	+18 04 41.8		691
1993 YA	1993 12 17.20586	03 24 56.98	+16 01 48.9	19.7 V	691	1993 YB <sub>1</sub>	1993 12 17.30375	03 24 49.33	+18 04 41.4		691
1993 YA	1993 12 17.21439	03 24 56.37	+16 02 06.4	20.3 V	691	1993 YC <sub>1</sub>	* 1993 12 16.24600	03 25 48.17	+18 03 10.1	17.8 V	691
1993 YB	* 1993 12 16.38271	08 56 26.60	+13 55 27.9	19.0 V	691	1993 YC <sub>1</sub>	1993 12 16.27949	03 25 47.11	+18 03 21.2		691
1993 YB	1993 12 16.41541	08 56 26.94	+13 56 11.6	19.2 V	691	1993 YC <sub>1</sub>	1993 12 16.31340	03 25 46.05	+18 03 31.7		691
1993 YB	1993 12 16.44812	08 56 27.31	+13 56 56.0	19.3 V	691	1993 YC <sub>1</sub>	1993 12 17.22578	03 25 21.04	+18 08 35.8		691
1993 YB	1993 12 17.42802	08 56 41.31	+14 19 23.9	19.5 V	691	1993 YC <sub>1</sub>	1993 12 17.25994	03 25 20.00	+18 08 46.9	18.0 V	691
1993 YB	1993 12 17.43665	08 56 41.40	+14 19 35.9	19.6 V	691	1993 YC <sub>1</sub>	1993 12 17.30409	03 25 18.74	+18 09 01.5		691
1993 YB	1993 12 17.44489	08 56 41.45	+14 19 47.4	19.7 V	691	1993 YD <sub>1</sub>	* 1993 12 16.24684	03 27 00.31	+17 59 45.2		691
1993 YB	1993 12 18.39829	08 56 52.87	+14 42 15.6		691	1993 YD <sub>1</sub>	1993 12 16.28032	03 26 58.97	+17 59 44.6	20.1 V	691
1993 YB	1993 12 18.40746	08 56 52.91	+14 42 28.7	19.7 V	691	1993 YD <sub>1</sub>	1993 12 16.31422	03 26 57.57	+17 59 43.7		691
1993 YB	1993 12 18.41614	08 56 52.98	+14 42 41.6		691	1993 YD <sub>1</sub>	1993 12 17.22650	03 26 22.98	+17 59 30.0		691
1993 YV	* 1993 12 16.24316	03 21 41.62	+18 15 34.3	20.9 V	691	1993 YD <sub>1</sub>	1993 12 17.26066	03 26 21.62	+17 59 29.4	20.1 V	691
1993 YV	1993 12 16.27664	03 21 40.52	+18 15 29.6		691	1993 YD <sub>1</sub>	1993 12 17.30480	03 26 19.92	+17 59 29.0		691
1993 YV	1993 12 16.31055	03 21 39.30	+18 15 24.1		691	1993 YE <sub>1</sub>	* 1993 12 16.24853	03 29 27.27	+18 16 18.2	17.6 V	691
1993 YV	1993 12 17.22292	03 21 12.77	+18 13 15.9	21.0 V	691	1993 YE <sub>1</sub>	1993 12 16.28202	03 29 26.23	+18 16 09.8		691
1993 YV	1993 12 17.25708	03 21 11.61	+18 13 10.4		691	1993 YE <sub>1</sub>	1993 12 16.31593	03 29 25.19	+18 16 00.1		691
1993 YV	1993 12 17.30123	03 21 10.35	+18 13 03.9		691	1993 YE <sub>1</sub>	1993 12 17.22832	03 29 01.07	+18 12 10.2	17.5 V	691
1993 YW	* 1993 12 16.24322	03 21 46.84	+18 09 33.4		691	1993 YE <sub>1</sub>	1993 12 17.26248	03 29 00.06	+18 12 01.6		691
1993 YW	1993 12 16.27670	03 21 45.75	+18 09 30.7	20.0 V	691	1993 YE <sub>1</sub>	1993 12 17.30663	03 28 58.74	+18 11 50.2		691
1993 YW	1993 12 16.31061	03 21 44.58	+18 09 27.4		691	1993 YF <sub>1</sub>	* 1993 12 16.24884	03 29 54.21	+18 05 33.5	20.7 V	691
1993 YW	1993 12 17.22295	03 21 15.43	+18 08 18.7	20.2 V	691	1993 YF <sub>1</sub>	1993 12 16.28233	03 29 53.05	+18 05 19.0		691
1993 YW	1993 12 17.25711	03 21 14.25	+18 08 15.6		691	1993 YF <sub>1</sub>	1993 12 17.22859	03 29 23.84	+17 58 25.8	20.8 V	691
1993 YW	1993 12 17.30125	03 21 12.88	+18 08 12.6		691	1993 YF <sub>1</sub>	1993 12 17.26275	03 29 22.78	+17 58 11.5		691

1993 YF <sub>1</sub>	1993 12 17.30689	03 29 21.29	+17 57 52.2		691	1993 YP <sub>1</sub>	1993 12 17.26745	03 36 10.19	+18 10 39.6	20.3 V	691
1993 YG <sub>1</sub>	* 1993 12 16.24958	03 30 58.05	+18 16 02.0	20.5 V	691	1993 YP <sub>1</sub>	1993 12 17.31159	03 36 08.15	+18 10 43.1		691
1993 YG <sub>1</sub>	1993 12 16.28307	03 30 56.91	+18 15 58.2		691	1993 YQ <sub>1</sub>	* 1993 12 16.25372	03 36 56.34	+18 00 27.9	20.6 V	691
1993 YG <sub>1</sub>	1993 12 16.31697	03 30 55.71	+18 15 54.8		691	1993 YQ <sub>1</sub>	1993 12 16.28720	03 36 54.80	+18 00 23.7		691
1993 YG <sub>1</sub>	1993 12 17.22929	03 30 25.14	+18 14 35.1		691	1993 YQ <sub>1</sub>	1993 12 16.32110	03 36 53.32	+18 00 18.4		691
1993 YG <sub>1</sub>	1993 12 17.26345	03 30 24.03	+18 14 33.0		691	1993 YQ <sub>1</sub>	1993 12 17.23333	03 36 14.63	+17 58 15.6		691
1993 YG <sub>1</sub>	1993 12 17.30760	03 30 22.50	+18 14 28.8	20.5 V	691	1993 YQ <sub>1</sub>	1993 12 17.26748	03 36 13.18	+17 58 11.0		691
1993 YH <sub>1</sub>	* 1993 12 16.24987	03 31 23.10	+18 04 04.9		691	1993 YQ <sub>1</sub>	1993 12 17.31163	03 36 11.22	+17 58 05.2	20.4 V	691
1993 YH <sub>1</sub>	1993 12 16.28335	03 31 21.68	+18 04 10.6	20.1 V	691	1993 YR <sub>1</sub>	* 1993 12 16.25376	03 36 59.86	+17 59 54.7		691
1993 YH <sub>1</sub>	1993 12 16.31725	03 31 20.25	+18 04 16.1		691	1993 YR <sub>1</sub>	1993 12 16.28724	03 36 58.65	+17 59 53.7		691
1993 YH <sub>1</sub>	1993 12 17.22951	03 30 43.44	+18 06 44.3		691	1993 YR <sub>1</sub>	1993 12 16.32115	03 36 57.46	+17 59 52.0	17.2 V	691
1993 YH <sub>1</sub>	1993 12 17.26366	03 30 42.09	+18 06 50.1		691	1993 YR <sub>1</sub>	1993 12 17.23348	03 36 27.63	+17 59 20.8		691
1993 YH <sub>1</sub>	1993 12 17.30780	03 30 40.19	+18 06 57.1	20.1 V	691	1993 YR <sub>1</sub>	1993 12 17.26764	03 36 26.47	+17 59 19.6	17.4 V	691
1993 YJ <sub>1</sub>	* 1993 12 16.25102	03 33 02.47	+18 09 15.5		691	1993 YR <sub>1</sub>	1993 12 17.31179	03 36 24.96	+17 59 18.1		691
1993 YJ <sub>1</sub>	1993 12 16.28450	03 33 01.04	+18 09 16.0	20.4 V	691	1993 YS <sub>1</sub>	* 1993 12 16.25491	03 38 39.65	+17 54 47.3	20.1 V	691
1993 YJ <sub>1</sub>	1993 12 16.31840	03 32 59.71	+18 09 16.5		691	1993 YS <sub>1</sub>	1993 12 16.28839	03 38 37.94	+17 54 50.9		691
1993 YJ <sub>1</sub>	1993 12 17.23069	03 32 25.79	+18 09 40.3		691	1993 YS <sub>1</sub>	1993 12 16.32229	03 38 36.29	+17 54 53.9		691
1993 YJ <sub>1</sub>	1993 12 17.26484	03 32 24.44	+18 09 41.1		691	1993 YS <sub>1</sub>	1993 12 17.23446	03 37 52.72	+17 56 31.2	20.1 V	691
1993 YJ <sub>1</sub>	1993 12 17.30899	03 32 22.75	+18 09 42.1	20.7 V	691	1993 YS <sub>1</sub>	1993 12 17.26861	03 37 51.07	+17 56 34.9		691
1993 YK <sub>1</sub>	* 1993 12 16.25158	03 33 51.33	+17 56 11.6		691	1993 YS <sub>1</sub>	1993 12 17.31275	03 37 48.89	+17 56 39.0		691
1993 YK <sub>1</sub>	1993 12 16.28506	03 33 50.04	+17 56 07.0		691	1993 YT <sub>1</sub>	* 1993 12 16.25504	03 38 50.79	+17 48 20.2		691
1993 YK <sub>1</sub>	1993 12 16.31897	03 33 48.70	+17 56 03.0	19.9 V	691	1993 YT <sub>1</sub>	1993 12 16.28852	03 38 49.26	+17 48 22.3		691
1993 YK <sub>1</sub>	1993 12 17.23125	03 33 14.14	+17 54 23.6		691	1993 YT <sub>1</sub>	1993 12 16.32242	03 38 47.82	+17 48 26.0	20.7 V	691
1993 YK <sub>1</sub>	1993 12 17.26540	03 33 12.83	+17 54 20.7		691	1993 YT <sub>1</sub>	1993 12 17.26881	03 38 08.15	+17 49 43.8	20.7 V	691
1993 YK <sub>1</sub>	1993 12 17.30955	03 33 10.98	+17 54 15.1	20.3 V	691	1993 YT <sub>1</sub>	1993 12 17.31295	03 38 06.17	+17 49 47.4		691
1993 YL <sub>1</sub>	* 1993 12 16.25279	03 35 35.97	+18 05 37.7	19.2 V	691	1993 YU <sub>1</sub>	* 1993 12 16.25576	03 39 52.94	+17 56 11.5	20.3 V	691
1993 YL <sub>1</sub>	1993 12 16.28627	03 35 34.57	+18 05 44.0		691	1993 YU <sub>1</sub>	1993 12 16.28924	03 39 51.70	+17 56 02.4		691
1993 YL <sub>1</sub>	1993 12 16.32017	03 35 33.15	+18 05 49.3		691	1993 YU <sub>1</sub>	1993 12 16.32314	03 39 50.48	+17 55 53.1		691
1993 YL <sub>1</sub>	1993 12 17.23244	03 34 57.69	+18 08 29.9	19.2 V	691	1993 YU <sub>1</sub>	1993 12 17.23547	03 39 20.20	+17 51 48.7	20.1 V	691
1993 YL <sub>1</sub>	1993 12 17.26660	03 34 56.31	+18 08 35.5		691	1993 YU <sub>1</sub>	1993 12 17.26963	03 39 19.01	+17 51 39.6		691
1993 YL <sub>1</sub>	1993 12 17.31074	03 34 54.46	+18 08 43.4		691	1993 YU <sub>1</sub>	1993 12 17.31378	03 39 17.46	+17 51 27.8		691
1993 YM <sub>1</sub>	* 1993 12 16.25291	03 35 46.70	+18 12 43.4	19.7 V	691	1993 YV <sub>1</sub>	* 1993 12 16.25769	03 42 40.38	+17 58 17.5		691
1993 YM <sub>1</sub>	1993 12 16.32030	03 35 44.12	+18 12 35.3		691	1993 YV <sub>1</sub>	1993 12 16.29117	03 42 38.66	+18 17 47.0	19.6 V	691
1993 YM <sub>1</sub>	1993 12 17.23262	03 35 13.15	+18 10 52.6	20.0 V	691	1993 YV <sub>1</sub>	1993 12 16.32507	03 42 36.99	+18 17 38.0		691
1993 YM <sub>1</sub>	1993 12 17.26678	03 35 11.94	+18 10 48.6		691	1993 YV <sub>1</sub>	1993 12 17.23725	03 41 54.13	+18 13 45.7		691
1993 YM <sub>1</sub>	1993 12 17.31092	03 35 10.28	+18 10 43.6		691	1993 YV <sub>1</sub>	1993 12 17.27140	03 41 52.43	+18 13 37.6	19.7 V	691
1993 YN <sub>1</sub>	* 1993 12 16.25342	03 36 30.40	+18 12 23.4		691	1993 YV <sub>1</sub>	1993 12 17.31554	03 41 50.25	+18 13 26.1		691
1993 YN <sub>1</sub>	1993 12 16.28690	03 36 29.02	+18 12 20.7	19.6 V	691	1993 YW <sub>1</sub>	* 1993 12 16.25914	03 44 45.97	+17 54 20.4		691
1993 YN <sub>1</sub>	1993 12 16.32080	03 36 27.66	+18 12 17.0		691	1993 YW <sub>1</sub>	1993 12 16.29262	03 44 44.53	+17 54 19.4	18.9 V	691
1993 YN <sub>1</sub>	1993 12 17.23309	03 35 54.15	+18 11 02.5	19.8 V	691	1993 YW <sub>1</sub>	1993 12 16.32652	03 44 43.15	+17 54 18.6		691
1993 YN <sub>1</sub>	1993 12 17.26725	03 35 52.80	+18 10 59.5		691	1993 YW <sub>1</sub>	1993 12 17.23880	03 44 08.55	+17 53 51.4	19.1 V	691
1993 YN <sub>1</sub>	1993 12 17.31139	03 35 51.11	+18 10 55.7		691	1993 YW <sub>1</sub>	1993 12 17.27296	03 44 07.25	+17 53 50.2		691
1993 YO <sub>1</sub>	* 1993 12 16.25358	03 36 44.09	+18 12 36.0		691	1993 YW <sub>1</sub>	1993 12 17.31710	03 44 05.48	+17 53 49.0		691
1993 YO <sub>1</sub>	1993 12 16.28706	03 36 42.70	+18 12 29.9	19.5 V	691	1993 YX <sub>1</sub>	* 1993 12 16.26092	03 47 20.65	+18 04 39.8		691
1993 YO <sub>1</sub>	1993 12 16.32096	03 36 41.39	+18 12 23.0		691	1993 YX <sub>1</sub>	1993 12 16.29440	03 47 18.86	+18 04 39.7		691
1993 YO <sub>1</sub>	1993 12 17.23325	03 36 07.61	+18 09 35.4		691	1993 YX <sub>1</sub>	1993 12 16.32830	03 47 17.07	+18 04 40.5	20.0 V	691
1993 YO <sub>1</sub>	1993 12 17.26741	03 36 06.31	+18 09 28.2	19.7 V	691	1993 YX <sub>1</sub>	1993 12 17.24044	03 46 30.13	+18 05 05.1		691
1993 YO <sub>1</sub>	1993 12 17.31155	03 36 04.61	+18 09 20.1		691	1993 YX <sub>1</sub>	1993 12 17.27459	03 46 28.39	+18 05 06.0	19.8 V	691
1993 YP <sub>1</sub>	* 1993 12 16.25371	03 36 55.40	+18 08 59.7		691	1993 YX <sub>1</sub>	1993 12 17.31872	03 46 26.01	+18 05 06.7		691
1993 YP <sub>1</sub>	1993 12 16.28719	03 36 53.78	+18 09 03.4	20.4 V	691	1993 YY <sub>1</sub>	* 1993 12 16.26199	03 48 52.80	+18 13 17.7		691
1993 YP <sub>1</sub>	1993 12 16.32109	03 36 52.17	+18 09 06.2		691	1993 YY <sub>1</sub>	1993 12 16.29547	03 48 51.47	+18 13 13.4	20.4 V	691
1993 YP <sub>1</sub>	1993 12 17.23330	03 36 11.78	+18 10 35.9		691	1993 YY <sub>1</sub>	1993 12 16.32937	03 48 50.04	+18 13 09.3		691

1993 YY <sub>1</sub>	1993 12 17.24163	03 48 13.69	+18 11 19.9	20.1 V	691	1993 YH <sub>2</sub>	1993 12 16.33441	03 56 06.24	+18 13 55.0	691
1993 YY <sub>1</sub>	1993 12 17.27579	03 48 12.34	+18 11 16.3		691	1993 YH <sub>2</sub>	1993 12 17.24666	03 55 28.95	+18 15 17.5	19.3 V 691
1993 YY <sub>1</sub>	1993 12 17.31993	03 48 10.62	+18 11 10.6		691	1993 YH <sub>2</sub>	1993 12 17.28081	03 55 27.47	+18 15 20.5	691
1993 YZ <sub>1</sub>	* 1993 12 16.26273	03 49 57.23	+17 52 01.0	18.2 V	691	1993 YH <sub>2</sub>	1993 12 17.32495	03 55 25.63	+18 15 24.4	691
1993 YZ <sub>1</sub>	1993 12 16.29621	03 49 55.78	+17 52 00.7		691	1993 YJ <sub>2</sub>	* 1993 12 16.26713	03 56 18.33	+18 12 03.0	19.9 V 691
1993 YZ <sub>1</sub>	1993 12 16.33011	03 49 54.29	+17 52 00.6		691	1993 YJ <sub>2</sub>	1993 12 16.30061	03 56 16.80	+18 11 58.1	691
1993 YZ <sub>1</sub>	1993 12 17.24238	03 49 18.79	+17 52 00.5		691	1993 YJ <sub>2</sub>	1993 12 16.33451	03 56 15.22	+18 11 53.4	691
1993 YZ <sub>1</sub>	1993 12 17.27654	03 49 17.36	+17 52 00.8	18.4 V	691	1993 YJ <sub>2</sub>	1993 12 17.24674	03 55 35.87	+18 09 46.0	691
1993 YZ <sub>1</sub>	1993 12 17.32068	03 49 15.60	+17 52 00.6		691	1993 YJ <sub>2</sub>	1993 12 17.28089	03 55 34.34	+18 09 41.2	19.8 V 691
1993 YA <sub>2</sub>	* 1993 12 16.26281	03 50 04.30	+18 15 40.2		691	1993 YJ <sub>2</sub>	1993 12 17.32503	03 55 32.36	+18 09 34.8	691
1993 YA <sub>2</sub>	1993 12 16.29629	03 50 02.65	+18 15 40.9	19.9 V	691	1993 YK <sub>2</sub>	* 1993 12 16.26727	03 56 30.21	+18 10 28.6	19.5 V 691
1993 YA <sub>2</sub>	1993 12 16.33019	03 50 00.90	+18 15 41.7		691	1993 YK <sub>2</sub>	1993 12 16.30075	03 56 28.58	+18 10 20.0	691
1993 YA <sub>2</sub>	1993 12 17.24239	03 49 19.75	+18 16 01.6		691	1993 YK <sub>2</sub>	1993 12 16.33465	03 56 26.89	+18 10 10.2	691
1993 YA <sub>2</sub>	1993 12 17.27655	03 49 18.12	+18 16 03.1		691	1993 YK <sub>2</sub>	1993 12 17.24685	03 55 45.43	+18 06 04.0	691
1993 YA <sub>2</sub>	1993 12 17.32069	03 49 16.10	+18 16 03.5	20.4 V	691	1993 YK <sub>2</sub>	1993 12 17.28100	03 55 43.77	+18 05 55.3	691
1993 YB <sub>2</sub>	* 1993 12 16.26302	03 50 22.26	+17 59 11.2		691	1993 YK <sub>2</sub>	1993 12 17.32514	03 55 41.74	+18 05 42.9	19.6 V 691
1993 YB <sub>2</sub>	1993 12 16.29650	03 50 20.97	+17 59 01.4	19.7 V	691	1993 YL <sub>2</sub>	* 1993 12 16.26757	03 56 56.75	+17 55 49.4	20.6 V 691
1993 YB <sub>2</sub>	1993 12 16.33041	03 50 19.60	+17 58 52.2		691	1993 YL <sub>2</sub>	1993 12 16.30106	03 56 55.20	+17 55 45.1	691
1993 YB <sub>2</sub>	1993 12 17.24269	03 49 45.59	+17 54 35.9		691	1993 YL <sub>2</sub>	1993 12 16.33496	03 56 53.79	+17 55 41.7	691
1993 YB <sub>2</sub>	1993 12 17.27685	03 49 44.25	+17 54 26.4	19.7 V	691	1993 YL <sub>2</sub>	1993 12 17.24720	03 56 15.81	+17 53 53.4	691
1993 YB <sub>2</sub>	1993 12 17.32100	03 49 42.65	+17 54 13.5		691	1993 YL <sub>2</sub>	1993 12 17.28135	03 56 14.32	+17 53 49.4	691
1993 YC <sub>2</sub>	* 1993 12 16.26371	03 51 22.33	+18 02 02.8	20.4 V	691	1993 YL <sub>2</sub>	1993 12 17.32550	03 56 12.46	+17 53 43.5	20.6 V 691
1993 YC <sub>2</sub>	1993 12 16.29720	03 51 20.96	+18 01 58.2		691	1993 YM <sub>2</sub>	* 1993 12 16.26979	04 00 08.74	+17 53 43.3	19.2 V 691
1993 YC <sub>2</sub>	1993 12 17.24337	03 50 44.25	+18 00 06.1		691	1993 YM <sub>2</sub>	1993 12 16.30327	04 00 06.98	+17 53 35.3	691
1993 YC <sub>2</sub>	1993 12 17.27752	03 50 42.87	+18 00 02.1		691	1993 YM <sub>2</sub>	1993 12 16.33717	04 00 05.16	+17 53 27.9	691
1993 YC <sub>2</sub>	1993 12 17.32167	03 50 41.19	+17 59 56.8	20.9 V	691	1993 YM <sub>2</sub>	1993 12 17.24932	03 59 19.69	+17 49 56.6	19.3 V 691
1993 YD <sub>2</sub>	* 1993 12 16.26455	03 52 35.11	+18 00 53.4	20.0 V	691	1993 YM <sub>2</sub>	1993 12 17.28347	03 59 17.89	+17 49 48.5	691
1993 YD <sub>2</sub>	1993 12 16.29804	03 52 33.74	+18 00 49.9		691	1993 YM <sub>2</sub>	1993 12 17.32761	03 59 15.62	+17 49 38.4	691
1993 YD <sub>2</sub>	1993 12 16.33194	03 52 32.33	+18 00 46.5		691	4068 P-L	1993 12 13.22030	03 04 39.14	+23 14 05.0	691
1993 YD <sub>2</sub>	1993 12 17.24420	03 51 56.19	+17 59 19.0	20.2 V	691	4068 P-L	1993 12 13.25498	03 04 37.89	+23 13 57.2	691
1993 YD <sub>2</sub>	1993 12 17.27835	03 51 54.78	+17 59 15.9		691	4068 P-L	1993 12 13.28940	03 04 36.65	+23 13 48.6	17.3 V 691
1993 YD <sub>2</sub>	1993 12 17.32250	03 51 53.05	+17 59 11.9		691	9058 P-L	1993 11 10.11490	01 16 37.62	+12 25 29.9	17.0 V 691
1993 YE <sub>2</sub>	* 1993 12 16.26497	03 53 10.82	+18 17 14.0	19.5 V	691	9058 P-L	1993 11 10.19368	01 16 35.12	+12 25 07.8	691
1993 YE <sub>2</sub>	1993 12 16.29845	03 53 09.79	+18 16 53.7		691	4283 T-1	1993 11 17.33588	04 01 47.01	+28 45 05.2	17.1 V 691
1993 YE <sub>2</sub>	1993 12 16.33236	03 53 08.65	+18 16 34.0		691	4283 T-1	1993 11 17.35625	04 01 45.41	+28 45 08.9	691
1993 YE <sub>2</sub>	1993 12 17.24473	03 52 42.18	+18 07 40.2		691	4283 T-1	1993 11 17.38123	04 01 43.59	+28 45 12.6	691
1993 YE <sub>2</sub>	1993 12 17.27889	03 52 41.10	+18 07 20.4	19.8 V	691	1136 T-2	1992 05 02.29427	14 09 54.09	-09 18 41.6	691
1993 YE <sub>2</sub>	1993 12 17.32304	03 52 39.79	+18 06 54.7		691	1136 T-2	1992 05 02.31883	14 09 52.77	-09 18 33.8	17.5 V 691
1993 YF <sub>2</sub>	* 1993 12 16.26640	03 55 15.33	+18 02 06.0		691	1136 T-2	1992 05 02.34579	14 09 51.35	-09 18 24.8	691
1993 YF <sub>2</sub>	1993 12 16.29988	03 55 13.48	+18 02 00.6	18.9 V	691	1360 T-2	1993 12 17.10176	03 45 35.06	+18 31 21.6	18.6 V 691
1993 YF <sub>2</sub>	1993 12 16.33378	03 55 11.63	+18 01 55.2		691	1360 T-2	1993 12 17.13621	03 45 33.64	+18 31 17.2	691
1993 YF <sub>2</sub>	1993 12 17.24591	03 54 24.42	+17 59 28.6	19.0 V	691	1360 T-2	1993 12 17.17110	03 45 32.23	+18 31 13.2	691
1993 YF <sub>2</sub>	1993 12 17.28006	03 54 22.57	+17 59 23.2		691	3181 T-2	1993 11 21.36838	03 31 35.78	+15 39 55.0	691
1993 YF <sub>2</sub>	1993 12 17.32420	03 54 20.26	+17 59 15.7		691	3181 T-2	1993 11 21.40215	03 31 33.88	+15 39 50.8	17.3 V 691
1993 YG <sub>2</sub>	* 1993 12 16.26649	03 55 22.39	+17 58 50.5	17.4 V	691	3181 T-2	1993 11 21.43496	03 31 32.11	+15 39 46.1	691
1993 YG <sub>2</sub>	1993 12 16.29996	03 55 20.78	+17 58 46.8		691	5192 T-3	1993 11 21.37348	03 38 57.54	+15 49 47.3	15.9 V 691
1993 YG <sub>2</sub>	1993 12 16.33387	03 55 19.27	+17 58 42.4		691	5192 T-3	1993 11 21.40725	03 38 55.63	+15 49 48.5	691
1993 YG <sub>2</sub>	1993 12 17.24610	03 54 40.90	+17 56 58.2		691	5192 T-3	1993 11 21.44005	03 38 53.68	+15 49 49.6	691
1993 YG <sub>2</sub>	1993 12 17.28025	03 54 39.34	+17 56 54.6	17.6 V	691					
1993 YG <sub>2</sub>	1993 12 17.32440	03 54 37.43	+17 56 49.3		691					
1993 YH <sub>2</sub>	* 1993 12 16.26703	03 56 09.21	+18 13 49.2		691					
1993 YH <sub>2</sub>	1993 12 16.30051	03 56 07.69	+18 13 52.0	19.3 V	691					

**696 F. L. Whipple Observatory, Mount Hopkins**

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Cambridge, MA 02138, U.S.A.  
Observer J. C. McDowell

Measurers J. C. McDowell, G. V. Williams  
1.2-m reflector + CCD

1993 MF	1993 11 23.14653	00 56 08.96	+12 04 03.3	696
1993 MF	1993 11 23.15341	00 56 09.38	+12 03 59.8	696

**760 Goethe Link**

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Observers R. T. Grenchik, A. R. Klemola, J. E. Michlovic, C. L. Perry,  
D. V. Pytko

Measurers B. A. Skiff, P. W. Tracadas  
0.25-m refractor

PDS scanning microdensitometer  
PPM, global solutions

1952 UF <sub>1</sub>	1952 10 24.20351	02 54 44.23	+25 51 28.0	P 760
1952 UF <sub>1</sub>	1952 10 24.27364	02 54 40.17	+25 51 31.5	I 760
1962 RC	1962 09 06.31389	23 57 24.50	+24 49 45.6	760
1962 RC	1962 09 06.35764	23 57 22.42	+24 49 46.4	760
1963 LA	1963 05 19.21806	16 01 34.91	-11 37 42.6	760
1965 JA	1965 05 02.10069	13 04 25.72	+01 27 52.2	760
1965 JA	1965 05 02.14306	13 04 23.57	+01 27 45.5	760
1965 JA	1965 05 04.13889	13 02 48.18	+01 23 03.2	760
1965 JA	1965 05 04.24375	13 02 43.01	+01 22 46.7	760
1980 VX <sub>1</sub>	1952 10 24.27364	02 58 02.32	+25 29 36.6	760
1986 XH	1952 10 24.20351	02 54 45.66	+31 10 42.0	760
1986 XH	1952 10 24.27364	02 54 41.96	+31 10 19.2	760
6573 P-L	1963 05 19.21806	15 54 49.22	-14 35 31.0	760
3070 T-2	1965 05 02.10069	13 01 28.29	+00 49 08.6	V 760
3070 T-2	1965 05 02.14306	13 01 26.64	+00 49 14.8	V 760
3070 T-2	1965 05 04.24375	13 00 12.12	+00 54 14.4	760

**776 Foggy Bottom Observatory**

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Measurers T. J. Balonek, S. Leonard  
0.40-m *f*/13 Cassegrain reflector + CCD

1991 TB <sub>1</sub>	1992 03 14.19895	13 01 19.27	+45 31 56.1	776
1991 TB <sub>1</sub>	1992 03 14.20450	13 01 15.12	+45 31 04.8	776
1991 TB <sub>1</sub>	1992 03 14.20630	13 01 13.78	+45 30 47.8	776
1991 TB <sub>1</sub>	1992 03 15.08881	12 51 05.43	+43 10 10.6	776
1991 TB <sub>1</sub>	1992 03 15.09252	12 51 03.03	+43 09 35.6	776
1991 TB <sub>1</sub>	1992 03 15.09704	12 50 59.81	+43 08 51.2	776
1991 TB <sub>1</sub>	1992 03 15.10463	12 50 54.57	+43 07 39.2	776

**801 Oak Ridge**

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1.5-m reflector + CCD

GSC

1949 PN	1993 12 12.98646	23 44 47.26	+11 57 31.1	801
1949 PN	1993 12 16.97580	23 48 44.85	+12 12 12.8	V 801

1949 PN	1993 12 16.99053	23 48 45.72	+12 12 14.3	801
1957 JP	1993 12 13.21975	05 11 49.34	+32 12 53.5	801
1957 JP	1993 12 17.20782	05 07 15.30	+32 20 08.3	I 801
1957 JP	1993 12 17.22183	05 07 14.30	+32 20 10.9	801
1964 BF	1993 11 13.37883	07 32 41.05	+18 48 33.5	801
1964 BF	1993 11 13.41720	07 32 41.62	+18 48 36.3	801
1964 BF	1993 12 13.33544	07 26 02.27	+20 23 32.7	801
1964 BF	1993 12 13.35164	07 26 01.49	+20 23 37.3	801
1964 BF	1993 12 17.32524	07 22 45.85	+20 43 53.1	801
1964 BF	1993 12 17.34718	07 22 44.69	+20 43 59.4	801
1971 TY <sub>2</sub>	1993 07 22.18549	19 45 18.49	-17 42 25.8	I 801
1971 TY <sub>2</sub>	1993 07 22.20734	19 45 17.37	-17 42 26.7	801
1975 TK <sub>6</sub>	1993 12 17.24315	05 34 05.77	+25 34 52.2	801
1975 TK <sub>6</sub>	1993 12 17.25451	05 34 04.94	+25 34 54.6	801
1975 TK <sub>6</sub>	1993 12 18.22109	05 32 59.62	+25 38 41.4	801
1975 TK <sub>6</sub>	1993 12 18.23507	05 32 58.65	+25 38 44.5	801
1975 XP <sub>3</sub>	1993 12 17.14168	04 03 49.88	+25 53 54.2	801
1975 XP <sub>3</sub>	1993 12 17.15897	04 03 49.00	+25 53 51.4	801
1975 XP <sub>3</sub>	1993 12 18.14471	04 03 01.45	+25 51 16.5	801
1975 XP <sub>3</sub>	1993 12 18.15998	04 03 00.68	+25 51 14.0	801
1976 SW <sub>3</sub>	1993 12 18.10449	03 36 31.35	+11 34 40.6	801
1976 SW <sub>3</sub>	1993 12 18.13523	03 36 30.41	+11 34 40.1	801
1976 YO <sub>2</sub>	1993 12 17.15712	04 13 26.99	+21 20 05.1	801
1976 YO <sub>2</sub>	1993 12 17.17568	04 13 25.84	+21 20 13.2	801
1976 YO <sub>2</sub>	1993 12 18.15110	04 12 28.20	+21 26 09.7	801
1976 YO <sub>2</sub>	1993 12 18.16676	04 12 27.38	+21 26 14.5	801
1976 YL <sub>3</sub>	1993 12 17.27411	05 58 52.77	+19 35 07.4	801
1976 YL <sub>3</sub>	1993 12 18.27399	05 57 58.78	+19 35 09.9	801
1978 PD <sub>3</sub>	1993 12 17.19131	04 52 53.95	+32 48 06.0	801
1978 PD <sub>3</sub>	1993 12 17.20382	04 52 53.02	+32 48 02.8	801
1978 PD <sub>3</sub>	1993 12 18.20098	04 51 45.75	+32 43 38.8	801
1978 PD <sub>3</sub>	1993 12 18.21383	04 51 44.85	+32 43 35.3	801
1978 VE <sub>15</sub>	1993 12 13.35384	08 06 39.99	+22 52 16.2	801
1978 VE <sub>15</sub>	1993 12 13.37311	08 06 39.34	+22 52 21.8	801
1979 KG	1993 12 17.07749	02 52 23.43	-03 40 52.1	801
1979 KG	1993 12 17.10008	02 52 23.03	-03 40 40.6	801
1979 KG	1993 12 18.03473	02 52 10.79	-03 32 33.2	801
1979 KG	1993 12 18.05253	02 52 10.55	-03 32 23.8	801
1980 FO <sub>1</sub>	1993 12 13.30551	06 37 05.59	+24 26 32.0	801
1980 FO <sub>1</sub>	1993 12 13.32247	06 37 04.63	+24 26 32.6	801
1980 FO <sub>1</sub>	1993 12 18.26171	06 32 36.20	+24 29 14.9	801
1980 FO <sub>1</sub>	1993 12 18.27854	06 32 35.24	+24 29 15.4	801
1980 RG <sub>1</sub>	1993 12 18.06707	02 33 03.40	+14 20 07.1	r 801
1980 RG <sub>1</sub>	1993 12 18.08230	02 33 03.83	+14 20 05.9	r 801
1980 TG <sub>4</sub>	1993 10 14.28671	03 30 45.81	+28 53 59.5	801
1980 TG <sub>4</sub>	1993 10 14.30236	03 30 44.92	+28 54 04.5	801
1980 TG <sub>4</sub>	1993 12 13.07183	02 32 53.15	+29 29 43.2	U 801
1980 TG <sub>4</sub>	1993 12 13.09988	02 32 52.39	+29 29 38.7	U 801
1980 TG <sub>4</sub>	1993 12 18.02968	02 31 07.40	+29 17 50.0	801
1980 TG <sub>4</sub>	1993 12 18.07392	02 31 06.61	+29 17 44.0	801
1981 EQ <sub>28</sub>	1993 12 13.34381	07 41 08.75	+16 44 06.8	801
1981 EQ <sub>28</sub>	1993 12 13.36564	07 41 07.98	+16 44 08.1	801

1981 UM <sub>22</sub>	1993 12 17.31394	06 45 35.42	+18 32 16.0	801	1987 QV <sub>10</sub>	1993 12 18.21723	05 00 57.95	+07 55 28.7	801
1981 UM <sub>22</sub>	1993 12 17.33633	06 45 34.34	+18 32 17.6	801	1987 QY <sub>10</sub>	1993 11 11.31977	06 24 21.51	+10 01 28.8	801
1982 BE <sub>1</sub>	1993 12 13.31007	06 47 08.87	+15 25 57.1	801	1987 SS <sub>9</sub>	1993 12 13.09277	03 17 22.28	+14 56 27.2	801
1982 BE <sub>1</sub>	1993 12 13.32668	06 47 08.06	+15 26 00.1	801	1987 SS <sub>9</sub>	1993 12 13.11167	03 17 21.56	+14 56 27.0	801
1982 BE <sub>1</sub>	1993 12 18.28691	06 42 56.31	+15 42 16.5	801	1987 SS <sub>9</sub>	1993 12 18.09177	03 15 09.93	+14 55 31.7	801
1982 BE <sub>1</sub>	1993 12 18.30868	06 42 55.12	+15 42 20.6	801	1987 SS <sub>9</sub>	1993 12 18.12601	03 15 09.09	+14 55 32.1	801
1982 DK	1993 12 10.28536	06 22 55.02	+19 55 57.8	I 801	1988 PJ <sub>1</sub>	1993 12 18.18041	04 08 25.29	+40 54 46.6	801
1982 DK	1993 12 10.30058	06 22 54.12	+19 56 02.3	I 801	1988 PJ <sub>1</sub>	1993 12 18.18690	04 08 24.88	+40 54 43.5	801
1982 DK	1993 12 17.28338	06 15 52.16	+20 33 12.8	801	1988 VB	1993 12 10.27552	06 33 09.11	+33 36 32.4	801
1982 DK	1993 12 17.30301	06 15 50.87	+20 33 18.6	801	1988 VB	1993 12 10.28912	06 33 08.33	+33 36 34.7	801
1982 JE <sub>1</sub>	1993 12 17.03096	01 46 02.23	+07 52 16.6	r 801	1988 VB	1993 12 17.28559	06 25 37.05	+34 06 19.2	801
1982 JE <sub>1</sub>	1993 12 17.05046	01 46 02.66	+07 52 26.0	r 801	1988 VB	1993 12 17.30488	06 25 35.76	+34 06 22.6	801
1982 UV <sub>1</sub>	1993 12 13.07399	02 35 27.04	+11 20 19.0	801	1988 XW <sub>1</sub>	1993 12 17.08751	02 59 44.52	+14 11 00.7	801
1982 UV <sub>1</sub>	1993 12 13.10887	02 35 26.30	+11 20 18.3	801	1988 XW <sub>1</sub>	1993 12 17.11341	02 59 43.79	+14 11 04.8	801
1982 UV <sub>1</sub>	1993 12 17.07331	02 34 33.29	+11 22 59.2	801	1988 XW <sub>1</sub>	1993 12 18.04640	02 59 19.51	+14 13 31.7	801
1982 UV <sub>1</sub>	1993 12 17.13255	02 34 32.59	+11 23 05.2	801	1988 XW <sub>1</sub>	1993 12 18.07644	02 59 18.70	+14 13 36.5	801
1982 UJ <sub>7</sub>	1993 12 17.18238	04 47 00.55	+20 05 32.6	801	1989 AH	1993 12 13.19551	04 14 44.05	+03 51 36.9	801
1982 UJ <sub>7</sub>	1993 12 17.19860	04 46 59.71	+20 05 32.2	801	1989 AH	1993 12 17.14917	04 11 34.64	+04 12 12.8	801
1982 UJ <sub>7</sub>	1993 12 18.19358	04 46 09.68	+20 05 10.5	801	1989 AH	1993 12 17.16735	04 11 33.80	+04 12 18.7	801
1982 UJ <sub>7</sub>	1993 12 18.21084	04 46 08.77	+20 05 10.2	801	1989 AO <sub>6</sub>	1993 10 19.41690	07 02 38.04	+30 49 33.0	801
1983 RY <sub>4</sub>	1993 12 17.35895	08 41 46.15	+11 11 48.6	801	1989 SL <sub>1</sub>	1993 12 17.36108	08 51 26.54	+16 13 11.4	801
1983 RY <sub>4</sub>	1993 12 17.38341	08 41 45.36	+11 11 45.5	801	1989 SL <sub>1</sub>	1993 12 17.43059	08 51 25.88	+16 13 22.2	801
1983 WJ	1993 12 17.25797	05 53 30.65	+22 31 09.1	801	1989 TX <sub>15</sub>	1993 12 10.26731	06 14 43.04	+32 56 13.9	801
1983 WJ	1993 12 17.27166	05 53 29.82	+22 31 09.8	801	1989 TX <sub>15</sub>	1993 12 17.27775	06 06 16.68	+33 13 39.6	801
1984 DY	1993 12 13.10387	03 03 00.55	+18 10 49.7	801	1989 TX <sub>15</sub>	1993 12 17.29847	06 06 15.04	+33 13 41.8	801
1984 DY	1993 12 17.09025	03 01 03.28	+18 02 22.4	801	1989 UZ <sub>4</sub>	1993 12 17.04127	01 46 04.85	+02 24 41.7	801
1984 DY	1993 12 17.11638	03 01 02.50	+18 02 19.2	801	1989 UZ <sub>4</sub>	1993 12 17.06728	01 46 05.31	+02 24 49.0	801
1984 OA	1993 12 13.01399	01 46 23.67	-13 45 05.8	801	1989 VV	1993 12 18.19591	04 47 21.96	+22 02 21.3	801
1984 OA	1993 12 13.03104	01 46 23.88	-13 44 56.0	801	1989 VV	1993 12 18.20887	04 47 21.14	+22 02 20.8	801
1984 OA	1993 12 17.04756	01 47 33.10	-12 59 34.9	801	1989 WL	1993 12 17.39456	08 20 10.86	+23 43 51.5	801
1985 RL <sub>1</sub>	1993 12 13.19832	04 23 56.59	+11 13 19.8	801	1989 WL	1993 12 17.43617	08 20 10.10	+23 44 05.3	801
1985 RL <sub>1</sub>	1993 12 18.15288	04 19 40.84	+10 55 59.5	801	1989 WB <sub>2</sub>	1993 12 13.02700	02 01 27.00	+19 41 51.0	801
1985 RL <sub>1</sub>	1993 12 18.16911	04 19 40.03	+10 55 56.6	801	1989 WB <sub>2</sub>	1993 12 13.05581	02 01 26.84	+19 41 42.7	801
1985 TR	1993 12 13.31396	06 54 33.84	+29 28 29.2	801	1989 WB <sub>2</sub>	1993 12 17.06049	02 01 33.24	+19 25 24.0	801
1985 TR	1993 12 13.33160	06 54 32.80	+29 28 32.8	801	1989 WB <sub>2</sub>	1993 12 17.10757	02 01 33.45	+19 25 13.4	801
1985 TR	1993 12 17.31668	06 50 44.74	+29 39 31.2	801	1989 YH	1993 12 17.05551	01 59 09.79	+24 20 15.6	801
1985 TR	1993 12 17.33920	06 50 43.25	+29 39 35.4	801	1989 YH	1993 12 17.09334	01 59 10.11	+24 20 05.4	801
1985 UH <sub>3</sub>	1993 12 17.26684	05 56 43.32	+19 03 07.6	801	1989 YH	1993 12 18.02439	01 59 20.43	+24 15 52.7	801
1985 UH <sub>3</sub>	1993 12 17.27956	05 56 42.40	+19 03 07.9	801	1989 YH	1993 12 18.05880	01 59 20.78	+24 15 43.3	801
1985 YH	1993 12 18.03804	02 54 10.56	+27 01 03.7	801	1989 YM	1993 12 13.21703	05 11 23.95	+36 37 38.9	801
1985 YH	1993 12 18.05486	02 54 10.12	+27 00 55.4	801	1989 YM	1993 12 13.22775	05 11 23.29	+36 37 33.4	801
1986 AG <sub>1</sub>	1993 12 18.17596	03 36 36.01	+49 26 01.7	801	1989 YM	1993 12 17.19694	05 06 47.85	+36 10 50.0	w 801
1986 AG <sub>1</sub>	1993 12 18.18431	03 36 35.55	+49 25 51.3	801	1989 YM	1993 12 17.20982	05 06 46.89	+36 10 42.8	w 801
1986 UY	1993 12 13.35674	08 09 26.24	+28 33 05.4	801	1989 YM	1993 12 18.20442	05 05 39.49	+36 03 33.7	801
1986 UY	1993 12 13.37594	08 09 25.61	+28 33 08.9	801	1989 YM	1993 12 18.21557	05 05 38.71	+36 03 28.6	801
1987 ML <sub>1</sub>	1993 12 17.25255	05 49 05.08	+08 50 19.8	801	1990 BR <sub>1</sub>	1993 10 19.37069	05 43 12.85	+06 09 01.9	801
1987 ML <sub>1</sub>	1993 12 17.26487	05 49 04.29	+08 50 21.9	801	1990 BR <sub>1</sub>	1993 12 18.20671	05 16 43.55	+03 40 50.1	801
1987 ML <sub>1</sub>	1993 12 18.23324	05 48 07.80	+08 52 59.6	801	1990 BR <sub>1</sub>	1993 12 18.21896	05 16 42.84	+03 40 52.9	801
1987 ML <sub>1</sub>	1993 12 18.25082	05 48 06.60	+08 53 04.7	801	1990 DB	1993 12 13.16608	03 46 42.97	+16 28 08.7	801
1987 QV <sub>10</sub>	1993 12 17.19483	05 01 49.25	+07 53 59.0	801	1990 DB	1993 12 13.18561	03 46 42.14	+16 28 07.2	801
1987 QV <sub>10</sub>	1993 12 17.21170	05 01 48.38	+07 54 00.2	801	1990 DB	1993 12 18.13975	03 43 28.29	+16 20 05.3	801
1987 QV <sub>10</sub>	1993 12 18.20295	05 00 58.68	+07 55 27.4	801	1990 DB	1993 12 18.15763	03 43 27.61	+16 20 03.8	801

1990 DM <sub>2</sub>	1993 12 10.26141	06 21 36.21	+24 56 49.5	801	1992 LP	1993 12 18.27618	06 12 27.28	+22 20 56.6	801
1990 DM <sub>2</sub>	1993 12 10.27806	06 21 35.27	+24 56 49.2	801	1992 MM	1993 11 17.01186	23 45 00.06	-05 42 11.3	801
1990 FP	1993 12 17.40395	11 29 29.37	+19 12 20.8	801	1992 MM	1993 11 17.04795	23 45 00.31	-05 42 04.5	801
1990 FP	1993 12 17.42278	11 29 30.60	+19 12 24.5	801	1992 PF <sub>2</sub>	1993 12 17.25005	05 45 28.52	+16 38 21.5	801
1990 FR	1993 12 17.39076	09 46 05.44	+15 00 53.1	801	1992 PF <sub>2</sub>	1993 12 17.26243	05 45 27.56	+16 38 21.5	801
1990 FR	1993 12 17.40647	09 46 06.16	+15 00 58.6	801	1992 PF <sub>2</sub>	1993 12 18.23021	05 44 22.24	+16 36 56.0	801
1990 FD <sub>1</sub>	1993 12 17.38684	09 57 21.74	+19 27 26.0	801	1992 PF <sub>2</sub>	1993 12 18.24676	05 44 21.08	+16 36 55.0	801
1990 FD <sub>1</sub>	1993 12 17.40910	09 57 22.24	+19 27 33.6	801	1992 QG	1993 12 17.32234	07 04 53.98	+11 58 37.4	801
1990 HM <sub>1</sub>	1993 12 13.10674	03 02 54.75	+11 47 33.7	801	1992 QG	1993 12 17.34477	07 04 52.75	+11 58 39.7	801
1990 HM <sub>1</sub>	1993 12 18.05015	03 00 18.86	+11 56 59.6	801	1992 QG	1993 12 18.29316	07 04 02.37	+11 59 29.8	V 801
1990 HM <sub>1</sub>	1993 12 18.07846	03 00 18.10	+11 57 04.4	801	1992 QG	1993 12 18.31677	07 04 00.99	+11 59 31.6	V 801
1990 UR <sub>1</sub>	1993 12 17.36732	08 53 04.17	-12 56 18.7	801	1992 SZ <sub>14</sub>	1993 12 17.24650	05 46 45.22	+14 24 27.3	801
1990 UR <sub>1</sub>	1993 12 17.38089	08 53 03.83	-12 56 31.4	801	1992 SZ <sub>14</sub>	1993 12 17.25999	05 46 44.47	+14 24 26.8	801
1990 VB <sub>15</sub>	1993 12 17.98681	00 12 04.15	-03 27 50.1	r 801	1992 SZ <sub>14</sub>	1993 12 18.22301	05 45 52.30	+14 22 05.6	801
1990 YC	1993 12 13.00638	01 38 10.36	+07 40 42.8	801	1992 SZ <sub>14</sub>	1993 12 18.23718	05 45 51.51	+14 22 03.6	801
1990 YC	1993 12 13.03443	01 38 10.90	+07 40 50.7	801	1992 SP <sub>24</sub>	1993 12 13.30316	06 37 45.24	+20 39 15.7	801
1990 YC	1993 12 17.02832	01 39 57.58	+08 02 52.1	801	1992 SP <sub>24</sub>	1993 12 13.31947	06 37 44.41	+20 39 14.6	801
1990 YC	1993 12 17.04502	01 39 58.08	+08 02 57.3	801	1992 SP <sub>24</sub>	1993 12 18.26433	06 33 39.83	+20 32 11.0	801
1991 CU <sub>1</sub>	1993 12 13.18046	03 45 24.33	+23 07 29.4	801	1992 SP <sub>24</sub>	1993 12 18.28100	06 33 38.97	+20 32 09.5	801
1991 CU <sub>1</sub>	1993 12 18.11103	03 41 19.95	+22 41 06.2	801	1992 SN <sub>25</sub>	1992 10 29.01149	23 48 19.93	+09 17 48.4	18 801
1991 CU <sub>1</sub>	1993 12 18.13289	03 41 18.92	+22 40 59.3	801	1992 SN <sub>25</sub>	1992 10 29.06939	23 48 17.89	+09 17 47.9	801
1991 EG	1993 12 13.15072	03 29 52.48	+22 23 45.3	801	1993 MF	1993 12 17.02251	01 23 01.17	+11 04 51.0	801
1991 EG	1993 12 18.09909	03 25 50.01	+22 23 20.8	801	1993 MF	1993 12 17.03549	01 23 02.08	+11 04 50.0	801
1991 GA	1993 12 13.20638	05 15 51.93	+32 05 30.6	801	1993 QO	1993 12 17.93573	22 34 26.16	+16 34 56.9	801
1991 GA	1993 12 13.22424	05 15 50.65	+32 05 30.8	801	1993 QO	1993 12 17.94528	22 34 27.41	+16 35 02.7	801
1991 GA	1993 12 17.21611	05 10 59.46	+32 08 33.6	801	1993 VW	1993 12 13.01980	01 51 27.32	+03 20 05.7	r 801
1991 GA	1993 12 17.22883	05 10 58.52	+32 08 33.5	801	1993 VW	1993 12 13.02941	01 51 26.56	+03 19 49.6	r 801
1991 GP <sub>1</sub>	1993 12 18.10718	03 41 28.57	+00 42 18.4	801	1993 VW	1993 12 17.05332	01 47 09.95	+01 32 33.8	801
1991 GP <sub>1</sub>	1993 12 18.12949	03 41 27.71	+00 42 21.5	801	1993 VW	1993 12 17.06221	01 47 09.37	+01 32 19.3	801
1991 HO	1993 12 18.14891	04 09 43.09	+16 55 19.8	801	1993 VY	1993 12 12.97708	00 24 50.82	+13 55 13.1	r 801
1991 HO	1993 12 18.16443	04 09 42.27	+16 55 21.8	801	1993 VY	1993 12 12.98845	00 24 51.06	+13 55 22.3	r 801
1991 JG	1993 12 13.19001	03 45 57.90	+20 29 01.0	801	1993 VY	1993 12 17.99035	00 27 34.38	+15 07 09.5	801
1991 JG	1993 12 18.14220	03 41 51.69	+20 31 49.3	801	1993 VY	1993 12 18.00741	00 27 34.98	+15 07 24.1	801
1991 JG	1993 12 18.15524	03 41 51.13	+20 31 49.6	801	1993 WD	1993 12 12.95541	21 58 09.46	+36 11 43.4	801
1991 LE <sub>1</sub>	1993 12 17.39991	11 03 06.15	+23 38 12.5	801	1993 WD	1993 12 12.96017	21 58 08.30	+36 11 42.8	801
1991 LE <sub>1</sub>	1993 12 17.41873	11 03 06.87	+23 38 22.5	801	1993 WD	1993 12 17.93811	21 41 15.25	+36 09 40.6	801
1991 PQ	1993 12 13.30814	06 40 08.52	+38 46 30.1	801	1993 WD	1993 12 17.94756	21 41 13.55	+36 09 40.0	801
1991 PQ	1993 12 13.32498	06 40 07.56	+38 46 28.2	801	4068 P-L	1993 12 13.11498	03 04 42.78	+23 14 28.0	801
1991 PQ	1993 12 18.28351	06 35 19.36	+38 38 00.8	801	4068 P-L	1993 12 13.13788	03 04 41.93	+23 14 21.7	801
1991 PQ	1993 12 18.30566	06 35 18.00	+38 37 58.0	801	4068 P-L	1993 12 18.08741	03 02 23.09	+22 56 16.8	801
1991 PW <sub>12</sub>	1993 12 17.31991	06 53 40.76	+23 49 15.8	801	4068 P-L	1993 12 18.11957	03 02 22.30	+22 56 10.3	801
1991 PW <sub>12</sub>	1993 12 17.34159	06 53 39.73	+23 49 15.9	801	5211 T-2	1993 12 17.05828	02 01 45.70	+11 36 06.1	801
1991 PW <sub>12</sub>	1993 12 18.29054	06 52 54.35	+23 50 20.6	801	5211 T-2	1993 12 17.09585	02 01 46.04	+11 35 59.7	801
1991 PW <sub>12</sub>	1993 12 18.31468	06 52 53.13	+23 50 21.8	801	1214 T-3	1993 12 17.14384	04 04 54.40	+34 21 37.2	801
1992 JN <sub>1</sub>	1993 10 14.28958	03 44 36.61	+03 34 30.9	801	1214 T-3	1993 12 17.16120	04 04 53.52	+34 21 31.8	801
1992 JN <sub>1</sub>	1993 10 14.31159	03 44 35.75	+03 34 27.8	801	1214 T-3	1993 12 18.14668	04 04 06.62	+34 16 34.2	801
1992 JN <sub>1</sub>	1993 12 13.09686	02 52 38.24	+04 29 40.3	801	1214 T-3	1993 12 18.16177	04 04 05.87	+34 16 29.5	801
1992 JN <sub>1</sub>	1993 12 17.07574	02 50 45.17	+04 51 00.9	801	2158 T-3	1993 10 12.16287	00 00 47.58	+03 36 17.1	801
1992 JN <sub>1</sub>	1993 12 17.09800	02 50 44.58	+04 51 10.5	801	2158 T-3	1993 10 12.18682	00 00 46.41	+03 36 08.7	801
1992 LP	1993 12 10.28171	06 21 49.86	+22 06 03.6	801					
1992 LP	1993 12 10.29737	06 21 48.79	+22 06 04.9	801					
1992 LP	1993 12 18.26010	06 12 28.40	+22 20 56.0	801					

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1971 TY <sub>2</sub>	1993 07 13.16736	19 53 21.97	-17 37 29.6	18.4	809	1986 QG <sub>2</sub>	1993 07 26.31111	19 37 53.88	-18 54 07.5	809
1971 TY <sub>2</sub>	1993 07 13.18056	19 53 21.30	-17 37 30.8		809	1986 QG <sub>2</sub>	1993 07 26.32431	19 37 53.21	-18 54 12.6	809
1971 TY <sub>2</sub>	1993 07 13.19375	19 53 20.58	-17 37 31.8		809	1987 WV <sub>1</sub>	1993 07 26.25486	19 23 31.37	-21 24 42.5	18.5 809
1975 RP	1993 10 09.14861	01 11 36.57	+07 30 38.4	17.8	809	1987 WV <sub>1</sub>	1993 07 26.26806	19 23 30.46	-21 24 44.9	809
1975 RP	1993 10 09.16181	01 11 35.97	+07 30 34.9		809	1987 WV <sub>1</sub>	1993 07 26.28125	19 23 29.61	-21 24 46.5	809
1975 RP	1993 10 09.17500	01 11 35.27	+07 30 30.8		809	1988 CG	1993 10 09.14861	01 17 52.33	+03 02 38.6	18.2 809
1975 RP	1993 10 11.11319	01 10 08.50	+07 21 06.4		809	1988 CG	1993 10 09.16181	01 17 51.59	+03 02 33.4	809
1975 RP	1993 10 11.12639	01 10 07.86	+07 21 02.7		809	1988 CG	1993 10 09.17500	01 17 50.83	+03 02 27.9	809
1975 RP	1993 10 11.13958	01 10 07.24	+07 20 58.6		809	1988 CG	1993 10 11.11319	01 16 01.85	+02 47 30.1	809
1978 RZ	1993 10 09.14861	01 19 43.67	+03 23 12.3	18.0	809	1988 CG	1993 10 11.12639	01 16 01.14	+02 47 25.5	809
1978 RZ	1993 10 09.16181	01 19 43.02	+03 23 07.9		809	1988 CG	1993 10 11.13958	01 16 00.33	+02 47 19.2	809
1978 RZ	1993 10 09.17500	01 19 42.33	+03 23 04.3		809	1988 FS <sub>2</sub>	1993 09 15.13056	00 40 10.22	+04 00 32.2	18.2 809
1978 RZ	1993 10 11.11319	01 18 10.59	+03 13 07.3		809	1988 FS <sub>2</sub>	1993 09 15.14097	00 40 09.64	+04 00 29.7	809
1978 RZ	1993 10 11.12639	01 18 09.90	+03 13 02.9		809	1988 FS <sub>2</sub>	1993 09 15.15139	00 40 09.07	+04 00 26.2	809
1978 RZ	1993 10 11.13958	01 18 09.23	+03 12 58.9		809	1988 FS <sub>2</sub>	1993 09 17.21944	00 38 22.91	+03 51 04.4	809
1978 RE <sub>3</sub>	1993 07 23.20000	19 40 56.93	-21 42 11.0	18.3	809	1988 FS <sub>2</sub>	1993 09 17.22986	00 38 22.42	+03 51 01.5	809
1978 RE <sub>3</sub>	1993 07 23.21250	19 40 56.14	-21 42 13.2		809	1988 FS <sub>2</sub>	1993 09 17.24028	00 38 21.82	+03 50 58.5	809
1978 RE <sub>3</sub>	1993 07 23.22569	19 40 55.28	-21 42 13.6		809	1988 RE <sub>2</sub>	1993 07 13.16736	19 58 13.93	-20 31 23.6	18.3 809
1978 RE <sub>3</sub>	1993 07 26.29792	19 37 44.49	-21 47 16.9	18.4	809	1988 RE <sub>2</sub>	1993 07 13.18056	19 58 13.28	-20 31 25.2	809
1978 RE <sub>3</sub>	1993 07 26.31111	19 37 43.55	-21 47 16.7		809	1988 RE <sub>2</sub>	1993 07 13.19375	19 58 12.55	-20 31 27.6	809
1978 RE <sub>3</sub>	1993 07 26.32431	19 37 42.69	-21 47 18.9		809	1988 RE <sub>2</sub>	1993 07 26.29792	19 47 19.11	-21 07 38.4	18.3 809
1981 EU <sub>18</sub>	1993 07 13.16736	20 01 09.46	-20 41 04.1	18.3	809	1988 RE <sub>2</sub>	1993 07 26.31111	19 47 18.40	-21 07 39.7	809
1981 EU <sub>18</sub>	1993 07 13.18056	20 01 08.68	-20 41 06.5		809	1988 RE <sub>2</sub>	1993 07 26.32431	19 47 17.64	-21 07 41.8	809
1981 EU <sub>18</sub>	1993 07 13.19375	20 01 08.03	-20 41 08.8		809	1988 RM <sub>7</sub>	1993 07 23.20000	19 25 01.45	-22 08 27.0	18.3 809
1981 EK <sub>23</sub>	1993 10 09.14861	01 05 35.54	+05 45 14.7	18.0	809	1988 RM <sub>7</sub>	1993 07 23.21250	19 25 00.83	-22 08 27.2	809
1981 EK <sub>23</sub>	1993 10 09.16181	01 05 34.76	+05 45 08.5		809	1988 RM <sub>7</sub>	1993 07 23.22569	19 24 59.87	-22 08 28.5	809
1981 EK <sub>23</sub>	1993 10 09.17500	01 05 33.98	+05 45 02.4		809	1988 RM <sub>7</sub>	1993 07 26.25486	19 22 38.14	-22 11 09.1	18.4 809
1981 EK <sub>23</sub>	1993 10 11.11319	01 03 50.54	+05 30 17.5		809	1988 RM <sub>7</sub>	1993 07 26.26806	19 22 37.36	-22 11 10.0	809
1981 EK <sub>23</sub>	1993 10 11.12639	01 03 49.75	+05 30 11.9		809	1988 RM <sub>7</sub>	1993 07 26.28125	19 22 36.80	-22 11 10.4	809
1981 EK <sub>23</sub>	1993 10 11.13958	01 03 48.96	+05 30 05.8		809	1988 RV <sub>10</sub>	1993 07 26.28125	19 22 36.80	-22 11 10.4	809
1983 XW	1993 07 26.25486	19 16 54.23	-22 50 01.7	18.3	809	1988 RV <sub>10</sub>	1993 07 23.20000	19 35 51.50	-19 16 47.4	18.3 809
1983 XW	1993 07 26.26806	19 16 53.54	-22 50 02.6		809	1988 RV <sub>10</sub>	1993 07 23.21250	19 35 50.93	-19 16 49.3	809
1983 XW	1993 07 26.28125	19 16 52.89	-22 50 03.3		809	1988 RV <sub>10</sub>	1993 07 23.22569	19 35 50.30	-19 16 51.8	809
1984 AR	1993 09 15.13056	00 29 07.54	+02 29 19.8	18.0	809	1988 RV <sub>10</sub>	1993 07 26.25486	19 33 31.52	-19 24 27.3	18.1 809
1984 AR	1993 09 15.14097	00 29 07.01	+02 29 17.5		809	1988 RV <sub>10</sub>	1993 07 26.26806	19 33 30.82	-19 24 29.6	809
1984 AR	1993 09 15.15139	00 29 06.55	+02 29 14.5		809	1988 RV <sub>10</sub>	1993 07 26.28125	19 33 30.13	-19 24 31.1	809
1985 QD <sub>6</sub>	1993 07 13.16736	19 45 57.05	-19 30 42.5	18.0	809	1989 GZ <sub>1</sub>	1993 07 23.20000	19 33 39.87	-19 05 06.4	18.3 809
1985 QD <sub>6</sub>	1993 07 13.18056	19 45 56.31	-19 30 47.7		809	1989 GZ <sub>1</sub>	1993 07 23.21250	19 33 39.03	-19 05 06.9	809
1985 QD <sub>6</sub>	1993 07 13.19375	19 45 55.58	-19 30 52.8		809	1989 GZ <sub>1</sub>	1993 07 23.22569	19 33 38.22	-19 05 07.9	809
1985 QD <sub>6</sub>	1993 07 23.20000	19 37 09.50	-20 34 35.6	18.0	809	1989 GZ <sub>1</sub>	1993 07 26.25486	19 30 40.43	-19 09 44.3	18.5 809
1985 QD <sub>6</sub>	1993 07 23.21250	19 37 08.78	-20 34 40.5		809	1989 GZ <sub>1</sub>	1993 07 26.26806	19 30 39.44	-19 09 46.5	809
1985 QD <sub>6</sub>	1993 07 23.22569	19 37 07.99	-20 34 46.2		809	1989 GZ <sub>1</sub>	1993 07 26.28125	19 30 38.69	-19 09 47.6	809
1985 QD <sub>6</sub>	1993 07 26.25486	19 34 30.34	-20 54 13.4	18.0	809	1989 GZ <sub>1</sub>	1993 07 26.29792	19 30 37.80	-19 09 49.8	18.5 809
1985 QD <sub>6</sub>	1993 07 26.26806	19 34 29.55	-20 54 18.5		809	1989 GZ <sub>1</sub>	1993 07 26.31111	19 30 36.90	-19 09 50.5	809
1985 QD <sub>6</sub>	1993 07 26.28125	19 34 28.75	-20 54 22.5		809	1989 GZ <sub>1</sub>	1993 07 26.32431	19 30 36.08	-19 09 52.1	809
1985 QD <sub>6</sub>	1993 07 26.29792	19 34 27.61	-20 54 32.7	18.0	809	1989 GT <sub>3</sub>	1993 07 13.16736	19 58 36.58	-19 36 51.1	17.9 809
1985 QD <sub>6</sub>	1993 07 26.31111	19 34 26.99	-20 54 37.5		809	1989 GT <sub>3</sub>	1993 07 13.18056	19 58 35.69	-19 36 53.1	809
1985 QD <sub>6</sub>	1993 07 26.32431	19 34 26.21	-20 54 43.1		809	1989 GT <sub>3</sub>	1993 07 13.19375	19 58 34.84	-19 36 55.1	809
1986 QG <sub>2</sub>	1993 07 26.29792	19 37 54.61	-18 54 01.3	18.4	809	1989 SD <sub>1</sub>	1993 07 23.20000	19 31 03.59	-22 56 14.2	18.2 809
					809	1989 SD <sub>1</sub>	1993 07 23.21250	19 31 02.89	-22 56 16.8	809
					809	1989 SD <sub>1</sub>	1993 07 23.22569	19 31 02.19	-22 56 18.2	809
					809	1989 SD <sub>1</sub>	1993 07 26.25486	19 28 29.94	-23 04 29.7	18.2 809
					809	1989 SD <sub>1</sub>	1993 07 26.26806	19 28 29.21	-23 04 30.8	809

1989 SD <sub>1</sub>	1993 07 26.28125	19 28 28.48	-23 04 32.8		809	1990 WJ <sub>3</sub>	1993 09 17.21944	00 26 55.49	+04 37 15.3		809
1989 SD <sub>1</sub>	1993 07 26.29792	19 28 27.86	-23 04 32.6	18.4	809	1990 WJ <sub>3</sub>	1993 09 17.22986	00 26 54.83	+04 37 11.1		809
1989 SD <sub>1</sub>	1993 07 26.31111	19 28 27.16	-23 04 33.9		809	1990 WJ <sub>3</sub>	1993 09 17.24028	00 26 54.18	+04 37 05.8		809
1989 SD <sub>1</sub>	1993 07 26.32431	19 28 26.48	-23 04 35.7		809	1991 AF <sub>1</sub>	1993 07 23.20000	19 39 25.42	-22 28 37.1	18.3	809
1989 SR <sub>2</sub>	1993 07 13.16736	20 01 15.21	-21 56 15.1	18.3	809	1991 AF <sub>1</sub>	1993 07 23.21250	19 39 24.75	-22 28 36.6		809
1989 SR <sub>2</sub>	1993 07 13.18056	20 01 14.50	-21 56 17.6		809	1991 AF <sub>1</sub>	1993 07 23.22569	19 39 23.90	-22 28 35.7		809
1989 SR <sub>2</sub>	1993 07 13.19375	20 01 13.77	-21 56 21.1		809	1991 AF <sub>1</sub>	1993 07 26.29792	19 36 42.98	-22 27 15.5	18.2	809
1989 TJ <sub>1</sub>	1993 07 26.25486	19 28 28.13	-22 42 17.0	18.3	809	1991 AF <sub>1</sub>	1993 07 26.31111	19 36 42.32	-22 27 15.3		809
1989 TJ <sub>1</sub>	1993 07 26.26806	19 28 27.32	-22 42 18.3		809	1991 AF <sub>1</sub>	1993 07 26.32431	19 36 41.51	-22 27 14.5		809
1989 TJ <sub>1</sub>	1993 07 26.28125	19 28 26.56	-22 42 18.1		809	1992 CA <sub>2</sub>	1993 07 23.20000	19 36 49.62	-18 32 37.1	18.1	809
1989 TJ <sub>1</sub>	1993 07 26.29792	19 28 25.82	-22 42 17.3	18.4	809	1992 CA <sub>2</sub>	1993 07 23.21250	19 36 48.78	-18 32 40.2		809
1989 TJ <sub>1</sub>	1993 07 26.31111	19 28 25.03	-22 42 17.4		809	1992 CA <sub>2</sub>	1993 07 23.22569	19 36 47.95	-18 32 43.4		809
1989 TJ <sub>1</sub>	1993 07 26.32431	19 28 24.33	-22 42 18.8		809	1992 CA <sub>2</sub>	1993 07 26.29792	19 33 43.59	-18 46 22.9	18.3	809
1990 OT <sub>4</sub>	1993 02 17.17014	08 54 58.33	+12 16 53.3	18.5	809	1992 CA <sub>2</sub>	1993 07 26.31111	19 33 42.73	-18 46 26.8		809
1990 OT <sub>4</sub>	1993 02 17.18333	08 54 57.62	+12 16 59.3		809	1992 CA <sub>2</sub>	1993 07 26.32431	19 33 41.82	-18 46 30.6		809
1990 OT <sub>4</sub>	1993 02 17.19653	08 54 56.95	+12 17 03.1		809	1992 OV <sub>6</sub>	1992 07 26.30000	22 03 36.54	-09 53 00.4		809
1990 RS <sub>2</sub>	1993 07 23.20000	19 28 50.76	-21 46 52.0	18.3	809	1992 OV <sub>6</sub>	1992 07 26.31597	22 03 35.83	-09 53 03.6		809
1990 RS <sub>2</sub>	1993 07 23.21250	19 28 49.86	-21 46 54.0		809	1992 OC <sub>7</sub>	1992 07 26.30000	22 08 41.18	-10 20 59.5		809
1990 RS <sub>2</sub>	1993 07 23.22569	19 28 48.99	-21 46 53.8		809	1992 OC <sub>7</sub>	1992 07 26.31597	22 08 40.51	-10 21 00.9		809
1990 RS <sub>2</sub>	1993 07 26.25486	19 25 34.11	-21 50 09.4	18.3	809	1993 BB <sub>7</sub>	1993 02 17.17014	08 51 59.45	+13 20 06.1	18.3	809
1990 RS <sub>2</sub>	1993 07 26.26806	19 25 33.16	-21 50 10.5		809	1993 BB <sub>7</sub>	1993 02 17.18333	08 51 58.83	+13 20 11.7		809
1990 RS <sub>2</sub>	1993 07 26.28125	19 25 32.23	-21 50 10.9		809	1993 BB <sub>7</sub>	1993 02 17.19653	08 51 58.18	+13 20 16.4		809
1990 SS <sub>5</sub>	1993 07 13.16736	19 52 25.68	-21 38 31.6	18.2	809	1993 BL <sub>7</sub>	1993 02 17.17014	08 53 34.27	+13 36 11.8	18.5	809
1990 SS <sub>5</sub>	1993 07 13.18056	19 52 24.88	-21 38 34.4		809	1993 BL <sub>7</sub>	1993 02 17.18333	08 53 33.64	+13 36 14.8		809
1990 SS <sub>5</sub>	1993 07 13.19375	19 52 24.00	-21 38 37.3		809	1993 BL <sub>7</sub>	1993 02 17.19653	08 53 32.84	+13 36 18.6		809
1990 SS <sub>5</sub>	1993 07 23.20000	19 41 40.12	-22 12 36.3	18.4	809	1993 BO <sub>7</sub>	1993 02 17.17014	09 04 16.93	+12 01 22.8	18.2	809
1990 SS <sub>5</sub>	1993 07 23.21250	19 41 39.28	-22 12 39.2		809	1993 BO <sub>7</sub>	1993 02 17.18333	09 04 16.43	+12 01 26.0		809
1990 SS <sub>5</sub>	1993 07 23.22569	19 41 38.49	-22 12 42.3		809	1993 BO <sub>7</sub>	1993 02 17.19653	09 04 16.20	+12 01 29.8		809
1990 SS <sub>5</sub>	1993 07 26.29792	19 38 22.74	-22 22 20.2	18.5	809	1993 BU <sub>7</sub>	1993 02 17.17014	08 54 30.69	+13 01 17.7	18.6	809
1990 SS <sub>5</sub>	1993 07 26.31111	19 38 21.88	-22 22 23.0		809	1993 BU <sub>7</sub>	1993 02 17.18333	08 54 29.91	+13 01 21.5		809
1990 SS <sub>5</sub>	1993 07 26.32431	19 38 20.91	-22 22 24.2		809	1993 BU <sub>7</sub>	1993 02 17.19653	08 54 29.21	+13 01 24.2		809
1990 TL <sub>6</sub>	1993 07 26.29792	19 37 04.70	-22 44 34.5	18.1	809	1993 BA <sub>8</sub>	1993 02 17.17014	09 02 31.59	+12 13 21.5	18.2	809
1990 TL <sub>6</sub>	1993 07 26.31111	19 37 03.86	-22 44 34.0		809	1993 BA <sub>8</sub>	1993 02 17.18333	09 02 30.94	+12 13 24.7		809
1990 TL <sub>6</sub>	1993 07 26.32431	19 37 02.89	-22 44 32.8		809	1993 BA <sub>8</sub>	1993 02 17.19653	09 02 30.19	+12 13 29.1		809
1990 VL <sub>2</sub>	1993 07 13.16736	19 45 06.22	-19 35 03.0	18.2	809	1993 BE <sub>8</sub>	1993 02 17.17014	08 59 48.56	+12 02 46.6	18.6	809
1990 VL <sub>2</sub>	1993 07 13.18056	19 45 05.38	-19 35 06.3		809	1993 BE <sub>8</sub>	1993 02 17.18333	08 59 47.61	+12 02 51.0		809
1990 VL <sub>2</sub>	1993 07 13.19375	19 45 04.65	-19 35 08.5		809	1993 BE <sub>8</sub>	1993 02 17.19653	08 59 46.79	+12 02 56.7		809
1990 VL <sub>2</sub>	1993 07 23.20000	19 35 24.74	-20 09 57.2	18.4	809	1993 BX <sub>13</sub>	1993 02 17.17014	09 04 39.95	+10 49 04.2	18.5	809
1990 VL <sub>2</sub>	1993 07 23.21250	19 35 24.00	-20 09 59.4		809	1993 BX <sub>13</sub>	1993 02 17.18333	09 04 38.95	+10 49 11.7		809
1990 VL <sub>2</sub>	1993 07 23.22569	19 35 23.23	-20 10 02.2		809	1993 BX <sub>13</sub>	1993 02 17.19653	09 04 38.22	+10 49 15.3		809
1990 VL <sub>2</sub>	1993 07 26.25486	19 32 32.04	-20 20 13.4	18.5	809	1993 NL	1993 07 23.20000	19 20 32.75	-19 34 15.4	18.6	809
1990 VL <sub>2</sub>	1993 07 26.26806	19 32 31.27	-20 20 15.3		809	1993 NL	1993 07 23.21250	19 20 32.19	-19 34 17.8		809
1990 VL <sub>2</sub>	1993 07 26.28125	19 32 30.50	-20 20 18.6		809	1993 NL	1993 07 23.22569	19 20 31.44	-19 34 19.9		809
1990 VL <sub>2</sub>	1993 07 26.29792	19 32 29.56	-20 20 18.1	18.4	809	1993 NO	1993 07 19.13958	19 27 27.84	-22 31 00.7	18.1	809
1990 VL <sub>2</sub>	1993 07 26.31111	19 32 28.74	-20 20 20.3		809	1993 NO	1993 07 19.15278	19 27 26.99	-22 31 02.1		809
1990 VL <sub>2</sub>	1993 07 26.32431	19 32 28.11	-20 20 23.7		809	1993 NO	1993 07 19.16597	19 27 26.17	-22 31 03.4		809
1990 VB <sub>14</sub>	1993 07 13.16736	19 51 52.00	-20 56 15.2	18.4	809	1993 NO	1993 07 23.20000	19 23 28.73	-22 38 18.6	18.4	809
1990 VB <sub>14</sub>	1993 07 13.18056	19 51 51.17	-20 56 16.1		809	1993 NO	1993 07 23.21250	19 23 27.90	-22 38 19.8		809
1990 VB <sub>14</sub>	1993 07 13.19375	19 51 50.28	-20 56 18.6		809	1993 NO	1993 07 23.22569	19 23 27.20	-22 38 20.9		809
1990 WJ <sub>3</sub>	1993 09 15.13056	00 28 42.79	+04 52 16.7	18.0	809	1993 NO	1993 07 26.25486	19 20 34.50	-22 43 22.4	18.5	809
1990 WJ <sub>3</sub>	1993 09 15.14097	00 28 42.17	+04 52 12.5		809	1993 NO	1993 07 26.26806	19 20 33.70	-22 43 23.3		809
1990 WJ <sub>3</sub>	1993 09 15.15139	00 28 41.62	+04 52 08.1		809	1993 NO	1993 07 26.28125	19 20 32.98	-22 43 24.1		809

1993 NT	1993 07 23.20000	19 28 18.04	-20 29 17.7	18.3	809	1993 NL <sub>1</sub>	1993 07 26.26806	19 28 47.22	-22 37 01.5	809
1993 NT	1993 07 23.21250	19 28 17.36	-20 29 17.1		809	1993 NL <sub>1</sub>	1993 07 26.28125	19 28 46.55	-22 37 03.5	809
1993 NT	1993 07 23.22569	19 28 16.73	-20 29 18.4		809	1993 NL <sub>1</sub>	1993 07 26.29792	19 28 45.78	-22 37 04.5	18.3 809
1993 NT	1993 07 26.25486	19 25 52.36	-20 30 41.8	18.3	809	1993 NL <sub>1</sub>	1993 07 26.31111	19 28 45.01	-22 37 06.8	809
1993 NT	1993 07 26.26806	19 25 51.64	-20 30 41.9		809	1993 NL <sub>1</sub>	1993 07 26.32431	19 28 44.31	-22 37 08.2	809
1993 NT	1993 07 26.28125	19 25 51.04	-20 30 42.0		809	1993 NM <sub>1</sub>	1993 07 23.20000	19 32 08.10	-22 11 08.4	18.4 809
1993 NV	1993 07 23.20000	19 28 30.68	-20 55 28.8	18.3	809	1993 NM <sub>1</sub>	1993 07 23.21250	19 32 07.49	-22 11 13.4	809
1993 NV	1993 07 23.21250	19 28 30.02	-20 55 29.2		809	1993 NM <sub>1</sub>	1993 07 23.22569	19 32 06.68	-22 11 20.4	809
1993 NV	1993 07 23.22569	19 28 29.32	-20 55 30.8		809	1993 NM <sub>1</sub>	1993 07 26.29792	19 29 15.58	-22 37 02.4	18.3 809
1993 NV	1993 07 26.25486	19 25 57.91	-21 00 30.9	18.4	809	1993 NM <sub>1</sub>	1993 07 26.31111	19 29 14.74	-22 37 08.3	809
1993 NV	1993 07 26.26806	19 25 57.16	-21 00 32.3		809	1993 NM <sub>1</sub>	1993 07 26.32431	19 29 14.01	-22 37 14.5	809
1993 NV	1993 07 26.28125	19 25 56.46	-21 00 33.0		809	1993 NN <sub>1</sub>	1993 07 23.20000	19 31 55.27	-20 25 15.9	18.1 809
1993 NX	1993 07 23.20000	19 29 52.70	-18 26 48.1	18.1	809	1993 NN <sub>1</sub>	1993 07 23.21250	19 31 54.52	-20 25 12.7	809
1993 NX	1993 07 23.21250	19 29 52.04	-18 26 48.9		809	1993 NN <sub>1</sub>	1993 07 23.22569	19 31 53.76	-20 25 11.5	809
1993 NX	1993 07 23.22569	19 29 51.36	-18 26 50.1		809	1993 NN <sub>1</sub>	1993 07 26.25486	19 29 05.00	-20 16 46.4	18.3 809
1993 NX	1993 07 26.25486	19 27 27.85	-18 31 21.8	18.4	809	1993 NN <sub>1</sub>	1993 07 26.26806	19 29 04.25	-20 16 44.3	809
1993 NX	1993 07 26.26806	19 27 27.10	-18 31 23.1		809	1993 NN <sub>1</sub>	1993 07 26.28125	19 29 03.47	-20 16 41.6	809
1993 NX	1993 07 26.28125	19 27 26.41	-18 31 23.5		809	1993 NN <sub>1</sub>	1993 07 26.29792	19 29 02.45	-20 16 37.6	18.3 809
1993 NY	1993 07 23.20000	19 28 19.34	-21 02 43.9	18.5	809	1993 NN <sub>1</sub>	1993 07 26.31111	19 29 01.57	-20 16 34.4	809
1993 NY	1993 07 23.21250	19 28 18.57	-21 02 44.9		809	1993 NN <sub>1</sub>	1993 07 26.32431	19 29 00.91	-20 16 33.4	809
1993 NY	1993 07 23.22569	19 28 17.83	-21 02 45.0		809	1993 NQ <sub>1</sub>	1993 07 23.20000	19 31 10.57	-20 13 30.0	18.3 809
1993 NA <sub>1</sub>	1993 07 23.20000	19 28 02.45	-19 16 04.4	17.8	809	1993 NQ <sub>1</sub>	1993 07 23.21250	19 31 09.77	-20 13 30.8	809
1993 NA <sub>1</sub>	1993 07 23.21250	19 28 01.68	-19 16 03.8		809	1993 NQ <sub>1</sub>	1993 07 23.22569	19 31 08.85	-20 13 30.7	809
1993 NA <sub>1</sub>	1993 07 23.22569	19 28 00.87	-19 16 02.4		809	1993 NQ <sub>1</sub>	1993 07 26.29792	19 27 50.47	-20 13 01.9	18.2 809
1993 NA <sub>1</sub>	1993 07 26.25486	19 24 58.73	-19 11 09.7	18.0	809	1993 NQ <sub>1</sub>	1993 07 26.31111	19 27 49.59	-20 13 01.0	809
1993 NA <sub>1</sub>	1993 07 26.26806	19 24 57.92	-19 11 09.2		809	1993 NQ <sub>1</sub>	1993 07 26.32431	19 27 48.77	-20 13 01.1	809
1993 NA <sub>1</sub>	1993 07 26.28125	19 24 57.17	-19 11 07.4		809	1993 NR <sub>1</sub>	1993 07 23.20000	19 33 44.26	-22 14 52.6	18.4 809
1993 NF <sub>1</sub>	1993 07 23.20000	19 31 32.56	-21 50 20.1	18.2	809	1993 NR <sub>1</sub>	1993 07 23.21250	19 33 43.61	-22 14 56.5	809
1993 NF <sub>1</sub>	1993 07 23.21250	19 31 31.85	-21 50 30.3		809	1993 NR <sub>1</sub>	1993 07 23.22569	19 33 42.91	-22 14 58.3	809
1993 NF <sub>1</sub>	1993 07 23.22569	19 31 31.12	-21 50 41.3		809	1993 NR <sub>1</sub>	1993 07 26.29792	19 31 03.32	-22 27 15.3	18.5 809
1993 NG <sub>1</sub>	1993 07 23.20000	19 29 01.01	-22 34 56.5	18.5	809	1993 NR <sub>1</sub>	1993 07 26.31111	19 31 02.66	-22 27 16.2	809
1993 NG <sub>1</sub>	1993 07 23.21250	19 29 00.14	-22 34 56.6		809	1993 NR <sub>1</sub>	1993 07 26.32431	19 31 02.06	-22 27 18.7	809
1993 NG <sub>1</sub>	1993 07 23.22569	19 28 59.40	-22 34 56.0		809	1993 NS <sub>1</sub>	1993 07 23.20000	19 34 04.01	-21 03 51.8	18.4 809
1993 NJ <sub>1</sub>	1993 07 23.20000	19 31 19.44	-19 48 15.0	18.3	809	1993 NS <sub>1</sub>	1993 07 23.21250	19 34 03.44	-21 03 54.4	809
1993 NJ <sub>1</sub>	1993 07 23.21250	19 31 18.80	-19 48 18.1		809	1993 NS <sub>1</sub>	1993 07 23.22569	19 34 02.84	-21 03 56.5	809
1993 NJ <sub>1</sub>	1993 07 23.22569	19 31 18.06	-19 48 21.1		809	1993 NS <sub>1</sub>	1993 07 26.25486	19 31 27.13	-21 18 05.3	18.5 809
1993 NJ <sub>1</sub>	1993 07 26.25486	19 28 46.38	-20 02 22.2	18.2	809	1993 NS <sub>1</sub>	1993 07 26.26806	19 31 26.38	-21 18 09.4	809
1993 NJ <sub>1</sub>	1993 07 26.26806	19 28 45.70	-20 02 25.7		809	1993 NS <sub>1</sub>	1993 07 26.28125	19 31 25.74	-21 18 12.0	809
1993 NJ <sub>1</sub>	1993 07 26.28125	19 28 44.96	-20 02 28.8		809	1993 NT <sub>1</sub>	1993 07 23.20000	19 33 47.76	-22 33 33.3	18.2 809
1993 NJ <sub>1</sub>	1993 07 26.29792	19 28 43.87	-20 02 33.4	18.3	809	1993 NT <sub>1</sub>	1993 07 23.21250	19 33 47.10	-22 33 35.8	809
1993 NJ <sub>1</sub>	1993 07 26.31111	19 28 43.29	-20 02 36.3		809	1993 NT <sub>1</sub>	1993 07 23.22569	19 33 46.33	-22 33 38.6	809
1993 NJ <sub>1</sub>	1993 07 26.32431	19 28 42.57	-20 02 40.4		809	1993 NT <sub>1</sub>	1993 07 26.25486	19 31 10.14	-22 44 32.0	18.0 809
1993 NK <sub>1</sub>	1993 07 23.20000	19 30 38.49	-19 40 37.7	18.4	809	1993 NT <sub>1</sub>	1993 07 26.26806	19 31 09.43	-22 44 34.2	809
1993 NK <sub>1</sub>	1993 07 23.21250	19 30 37.74	-19 40 43.4		809	1993 NT <sub>1</sub>	1993 07 26.28125	19 31 08.73	-22 44 36.7	809
1993 NK <sub>1</sub>	1993 07 23.22569	19 30 36.95	-19 40 50.4		809	1993 NT <sub>1</sub>	1993 07 26.29792	19 31 07.91	-22 44 37.4	18.2 809
1993 NK <sub>1</sub>	1993 07 26.29792	19 27 45.56	-20 05 48.0	18.4	809	1993 NT <sub>1</sub>	1993 07 26.31111	19 31 07.14	-22 44 39.4	809
1993 NK <sub>1</sub>	1993 07 26.31111	19 27 44.89	-20 05 53.5		809	1993 NT <sub>1</sub>	1993 07 26.32431	19 31 06.49	-22 44 42.8	809
1993 NK <sub>1</sub>	1993 07 26.32431	19 27 44.19	-20 05 58.3		809	1993 NU <sub>1</sub>	1993 07 23.20000	19 32 45.17	-18 34 06.0	18.3 809
1993 NL <sub>1</sub>	1993 07 23.20000	19 31 26.23	-22 27 44.1	18.2	809	1993 NU <sub>1</sub>	1993 07 23.21250	19 32 44.42	-18 34 09.7	809
1993 NL <sub>1</sub>	1993 07 23.21250	19 31 25.59	-22 27 46.3		809	1993 NU <sub>1</sub>	1993 07 23.22569	19 32 43.55	-18 34 11.2	809
1993 NL <sub>1</sub>	1993 07 23.22569	19 31 24.79	-22 27 48.6		809	1993 NV <sub>1</sub>	1993 07 23.20000	19 33 10.72	-22 22 38.2	18.3 809
1993 NL <sub>1</sub>	1993 07 26.25486	19 28 48.08	-22 36 59.0	18.3	809	1993 NV <sub>1</sub>	1993 07 23.21250	19 33 09.90	-22 22 37.4	809

1993 NV <sub>1</sub>	1993 07 23.22569	19 33 09.18	-22 22 37.0		809	1993 ND <sub>2</sub>	1993 07 26.29792	19 35 29.62	-19 34 39.6	18.6	809
1993 NV <sub>1</sub>	1993 07 26.25486	19 30 15.33	-22 21 15.8	18.3	809	1993 ND <sub>2</sub>	1993 07 26.31111	19 35 28.88	-19 34 39.8		809
1993 NV <sub>1</sub>	1993 07 26.26806	19 30 14.45	-22 21 16.1		809	1993 ND <sub>2</sub>	1993 07 26.32431	19 35 28.15	-19 34 39.2		809
1993 NV <sub>1</sub>	1993 07 26.28125	19 30 13.67	-22 21 15.4		809	1993 NF <sub>2</sub>	* 1993 07 13.16736	19 50 26.16	-21 04 47.0	18.5	809
1993 NV <sub>1</sub>	1993 07 26.29792	19 30 12.78	-22 21 11.2	18.4	809	1993 NF <sub>2</sub>	1993 07 13.18056	19 50 25.43	-21 04 52.0		809
1993 NV <sub>1</sub>	1993 07 26.31111	19 30 11.88	-22 21 10.6		809	1993 NF <sub>2</sub>	1993 07 13.19375	19 50 24.82	-21 04 56.6		809
1993 NV <sub>1</sub>	1993 07 26.32431	19 30 11.08	-22 21 10.6		809	1993 NF <sub>2</sub>	1993 07 24.16042	19 41 26.51	-22 01 09.2		809
1993 NW <sub>1</sub>	1993 07 26.25486	19 32 03.77	-19 23 29.4	18.4	809	1993 NF <sub>2</sub>	1993 07 26.29792	19 39 43.35	-22 11 43.2	18.7	809
1993 NW <sub>1</sub>	1993 07 26.26806	19 32 03.10	-19 23 30.0		809	1993 NF <sub>2</sub>	1993 07 26.31111	19 39 42.67	-22 11 48.1		809
1993 NW <sub>1</sub>	1993 07 26.28125	19 32 02.30	-19 23 31.0		809	1993 NF <sub>2</sub>	1993 07 26.32431	19 39 42.11	-22 11 51.0		809
1993 NW <sub>1</sub>	1993 07 26.29792	19 32 01.69	-19 23 33.2	18.5	809	1993 NG <sub>2</sub>	* 1993 07 13.16736	19 51 36.20	-21 21 55.5	18.3	809
1993 NW <sub>1</sub>	1993 07 26.31111	19 32 00.98	-19 23 33.4		809	1993 NG <sub>2</sub>	1993 07 13.18056	19 51 35.55	-21 21 59.0		809
1993 NW <sub>1</sub>	1993 07 26.32431	19 32 00.42	-19 23 35.6		809	1993 NG <sub>2</sub>	1993 07 13.19375	19 51 34.84	-21 22 01.4		809
1993 NX <sub>1</sub>	1993 07 23.20000	19 35 03.21	-23 13 15.4	18.7	809	1993 NG <sub>2</sub>	1993 07 26.29792	19 41 12.18	-22 06 02.5	18.3	809
1993 NX <sub>1</sub>	1993 07 23.21250	19 35 02.69	-23 13 17.0		809	1993 NG <sub>2</sub>	1993 07 26.31111	19 41 11.52	-22 06 04.3		809
1993 NX <sub>1</sub>	1993 07 23.22569	19 35 01.93	-23 13 18.9		809	1993 NG <sub>2</sub>	1993 07 26.32431	19 41 10.82	-22 06 06.8		809
1993 NZ <sub>1</sub>	1993 07 20.19583	19 37 55.59	-21 13 29.6	18.3	809	1993 NH <sub>2</sub>	* 1993 07 13.16736	19 52 09.53	-20 31 30.7	19.2	809
1993 NZ <sub>1</sub>	1993 07 20.20903	19 37 54.86	-21 13 29.9		809	1993 NH <sub>2</sub>	1993 07 13.18056	19 52 08.74	-20 31 33.5		809
1993 NZ <sub>1</sub>	1993 07 20.22222	19 37 54.10	-21 13 29.6		809	1993 NH <sub>2</sub>	1993 07 13.19375	19 52 08.11	-20 31 35.1		809
1993 NZ <sub>1</sub>	1993 07 23.20000	19 35 18.84	-21 12 31.9	18.3	809	1993 NH <sub>2</sub>	1993 07 26.29792	19 40 37.71	-20 55 34.0	19.0	809
1993 NZ <sub>1</sub>	1993 07 23.21250	19 35 18.18	-21 12 31.1		809	1993 NH <sub>2</sub>	1993 07 26.31111	19 40 37.06	-20 55 34.1		809
1993 NZ <sub>1</sub>	1993 07 23.22569	19 35 17.52	-21 12 30.8		809	1993 NH <sub>2</sub>	1993 07 26.32431	19 40 36.42	-20 55 37.1		809
1993 NZ <sub>1</sub>	1993 07 24.16042	19 34 29.10	-21 12 10.0	18.2	809	1993 NJ <sub>2</sub>	* 1993 07 13.16736	19 52 30.65	-19 45 27.0	18.4	809
1993 NZ <sub>1</sub>	1993 07 26.25486	19 32 42.20	-21 11 18.7	18.5	809	1993 NJ <sub>2</sub>	1993 07 13.18056	19 52 29.98	-19 45 29.2		809
1993 NZ <sub>1</sub>	1993 07 26.26806	19 32 41.43	-21 11 17.8		809	1993 NJ <sub>2</sub>	1993 07 13.19375	19 52 29.31	-19 45 31.4		809
1993 NZ <sub>1</sub>	1993 07 26.28125	19 32 40.75	-21 11 18.1		809	1993 NJ <sub>2</sub>	1993 07 24.16042	19 43 27.18	-20 09 48.4		809
1993 NZ <sub>1</sub>	1993 07 26.29792	19 32 39.68	-21 11 17.4	18.4	809	1993 NJ <sub>2</sub>	1993 07 26.29792	19 41 44.57	-20 14 22.4	18.5	809
1993 NZ <sub>1</sub>	1993 07 26.31111	19 32 38.87	-21 11 17.4		809	1993 NJ <sub>2</sub>	1993 07 26.31111	19 41 43.83	-20 14 23.1		809
1993 NZ <sub>1</sub>	1993 07 26.32431	19 32 38.23	-21 11 16.4		809	1993 NJ <sub>2</sub>	1993 07 26.32431	19 41 43.21	-20 14 24.5		809
1993 NA <sub>2</sub>	1993 07 23.20000	19 34 47.92	-19 23 30.5	18.4	809	1993 NK <sub>2</sub>	* 1993 07 13.16736	19 54 52.91	-19 42 10.2	18.4	809
1993 NA <sub>2</sub>	1993 07 23.21250	19 34 47.19	-19 23 34.0		809	1993 NK <sub>2</sub>	1993 07 13.18056	19 54 51.99	-19 42 10.7		809
1993 NA <sub>2</sub>	1993 07 23.22569	19 34 46.52	-19 23 38.6		809	1993 NK <sub>2</sub>	1993 07 13.19375	19 54 51.19	-19 42 12.5		809
1993 NA <sub>2</sub>	1993 07 26.25486	19 32 01.21	-19 39 10.4	18.2	809	1993 NK <sub>2</sub>	1993 07 20.19583	19 47 50.48	-19 45 29.2	18.3	809
1993 NA <sub>2</sub>	1993 07 26.26806	19 32 00.42	-19 39 13.4		809	1993 NK <sub>2</sub>	1993 07 20.20903	19 47 49.65	-19 45 28.9		809
1993 NA <sub>2</sub>	1993 07 26.28125	19 31 59.66	-19 39 18.2		809	1993 NK <sub>2</sub>	1993 07 20.22222	19 47 48.85	-19 45 29.5		809
1993 NB <sub>2</sub>	1993 07 13.16736	19 45 18.46	-21 25 47.5	18.2	809	1993 NK <sub>2</sub>	1993 07 26.29792	19 41 49.97	-19 47 57.0	18.6	809
1993 NB <sub>2</sub>	1993 07 13.18056	19 45 17.60	-21 25 50.3		809	1993 NK <sub>2</sub>	1993 07 26.31111	19 41 49.09	-19 47 56.4		809
1993 NB <sub>2</sub>	1993 07 13.19375	19 45 16.76	-21 25 51.6		809	1993 NK <sub>2</sub>	1993 07 26.32431	19 41 48.45	-19 47 57.4		809
1993 NB <sub>2</sub>	1993 07 23.20000	19 35 09.90	-21 43 58.5	18.4	809	1993 NL <sub>2</sub>	* 1993 07 13.16736	19 56 49.69	-19 02 23.3	18.0	809
1993 NB <sub>2</sub>	1993 07 23.21250	19 35 09.14	-21 44 00.3		809	1993 NL <sub>2</sub>	1993 07 13.18056	19 56 48.95	-19 02 32.1		809
1993 NB <sub>2</sub>	1993 07 23.22569	19 35 08.36	-21 44 01.7		809	1993 NL <sub>2</sub>	1993 07 13.19375	19 56 48.16	-19 02 40.8		809
1993 NB <sub>2</sub>	1993 07 24.16042	19 34 12.38	-21 45 32.7		809	1993 NL <sub>2</sub>	1993 07 20.19583	19 50 26.18	-20 20 32.5	18.0	809
1993 NB <sub>2</sub>	1993 07 26.25486	19 32 08.30	-21 48 50.3	18.5	809	1993 NL <sub>2</sub>	1993 07 20.20903	19 50 25.38	-20 20 41.0		809
1993 NB <sub>2</sub>	1993 07 26.26806	19 32 07.51	-21 48 50.5		809	1993 NL <sub>2</sub>	1993 07 20.22222	19 50 24.60	-20 20 49.6		809
1993 NB <sub>2</sub>	1993 07 26.28125	19 32 06.71	-21 48 51.8		809	1993 NL <sub>2</sub>	1993 07 24.16042	19 46 46.30	-21 04 42.5		809
1993 NC <sub>2</sub>	1993 07 13.16736	19 47 47.95	-18 57 14.8	18.2	809	1993 NL <sub>2</sub>	1993 07 26.29792	19 44 48.74	-21 28 19.1	18.2	809
1993 NC <sub>2</sub>	1993 07 13.18056	19 47 47.09	-18 57 13.5		809	1993 NL <sub>2</sub>	1993 07 26.31111	19 44 47.98	-21 28 26.9		809
1993 NC <sub>2</sub>	1993 07 13.19375	19 47 46.31	-18 57 12.3		809	1993 NL <sub>2</sub>	1993 07 26.32431	19 44 47.22	-21 28 35.1		809
1993 NC <sub>2</sub>	1993 07 24.16042	19 37 20.40	-18 37 21.4		809	1993 NM <sub>2</sub>	* 1993 07 13.16736	19 56 50.47	-19 21 17.9	18.2	809
1993 ND <sub>2</sub>	1993 07 13.16736	19 48 13.35	-19 13 47.5	18.4	809	1993 NM <sub>2</sub>	1993 07 13.18056	19 56 49.76	-19 21 25.2		809
1993 ND <sub>2</sub>	1993 07 13.18056	19 48 12.48	-19 13 49.4		809	1993 NM <sub>2</sub>	1993 07 13.19375	19 56 49.16	-19 21 34.3		809
1993 ND <sub>2</sub>	1993 07 13.19375	19 48 11.64	-19 13 50.5		809	1993 NM <sub>2</sub>	1993 07 20.19583	19 51 13.24	-20 29 05.5	18.1	809

1993 NM <sub>2</sub>	1993 07 20.20903	19 51 12.52	-20 29 13.3		809	1993 OA <sub>4</sub>	1993 07 13.19375	20 05 25.86	-19 46 45.7		809
1993 NM <sub>2</sub>	1993 07 20.22222	19 51 11.85	-20 29 21.1		809	1993 OA <sub>4</sub>	1993 07 20.19583	19 59 28.16	-20 12 38.3	18.2	809
1993 NM <sub>2</sub>	1993 07 26.29792	19 46 17.95	-21 27 47.9	18.4	809	1993 OA <sub>4</sub>	1993 07 20.20903	19 59 27.47	-20 12 40.8		809
1993 NM <sub>2</sub>	1993 07 26.31111	19 46 17.33	-21 27 54.2		809	1993 OA <sub>4</sub>	1993 07 20.22222	19 59 26.70	-20 12 43.8		809
1993 NM <sub>2</sub>	1993 07 26.32431	19 46 16.52	-21 28 02.4		809	1993 OE <sub>4</sub>	1993 07 13.16736	20 06 00.29	-20 12 30.5	18.4	809
1993 OW	1993 07 13.16736	19 56 27.46	-22 21 40.9	18.0	809	1993 OE <sub>4</sub>	1993 07 13.18056	20 05 59.69	-20 12 39.0		809
1993 OW	1993 07 13.18056	19 56 26.61	-22 21 59.6		809	1993 OE <sub>4</sub>	1993 07 13.19375	20 05 58.99	-20 12 47.9		809
1993 OW	1993 07 13.19375	19 56 25.87	-22 22 19.7		809	1993 ON <sub>7</sub>	1993 07 13.16736	20 03 09.13	-18 39 25.3	18.3	809
1993 OC <sub>3</sub>	1993 07 26.29792	19 47 13.99	-22 04 49.9	18.3	809	1993 ON <sub>7</sub>	1993 07 13.18056	20 03 08.31	-18 39 25.2		809
1993 OC <sub>3</sub>	1993 07 26.31111	19 47 13.23	-22 04 49.0		809	1993 ON <sub>7</sub>	1993 07 13.19375	20 03 07.58	-18 39 24.1		809
1993 OC <sub>3</sub>	1993 07 26.32431	19 47 12.32	-22 04 48.3		809	1993 OO <sub>7</sub>	1993 07 13.16736	20 04 53.87	-18 42 50.8	18.0	809
1993 OD <sub>3</sub>	1993 07 13.16736	19 58 59.01	-18 56 51.6	18.3	809	1993 OO <sub>7</sub>	1993 07 13.18056	20 04 53.02	-18 42 50.0		809
1993 OD <sub>3</sub>	1993 07 13.18056	19 58 58.30	-18 56 55.9		809	1993 OO <sub>7</sub>	1993 07 13.19375	20 04 52.18	-18 42 49.6		809
1993 OD <sub>3</sub>	1993 07 13.19375	19 58 57.69	-18 57 00.1		809	1993 OO <sub>7</sub>	1993 07 20.19583	19 57 38.67	-18 36 34.0	18.0	809
1993 OE <sub>3</sub>	1993 07 13.16736	20 01 53.41	-21 41 51.9	18.0	809	1993 OO <sub>7</sub>	1993 07 20.20903	19 57 37.82	-18 36 33.4		809
1993 OE <sub>3</sub>	1993 07 13.18056	20 01 52.47	-21 41 50.9		809	1993 OO <sub>7</sub>	1993 07 20.22222	19 57 36.91	-18 36 32.7		809
1993 OE <sub>3</sub>	1993 07 13.19375	20 01 51.58	-21 41 49.5		809	1993 OS <sub>7</sub>	1993 07 13.16736	19 44 59.45	-20 22 40.8	18.1	809
1993 OE <sub>3</sub>	1993 07 26.29792	19 48 00.44	-21 14 35.5	18.1	809	1993 OS <sub>7</sub>	1993 07 13.18056	19 44 58.64	-20 22 47.2		809
1993 OE <sub>3</sub>	1993 07 26.31111	19 47 59.55	-21 14 32.3		809	1993 OS <sub>7</sub>	1993 07 13.19375	19 44 57.82	-20 22 54.6		809
1993 OE <sub>3</sub>	1993 07 26.32431	19 47 58.63	-21 14 29.7		809	1993 OS <sub>7</sub>	1993 07 23.20000	19 35 42.05	-21 45 33.6	18.0	809
1993 OF <sub>3</sub>	1993 07 13.16736	20 01 47.79	-21 44 58.7	18.3	809	1993 OS <sub>7</sub>	1993 07 23.21250	19 35 41.31	-21 45 38.6		809
1993 OF <sub>3</sub>	1993 07 13.18056	20 01 46.98	-21 45 00.5		809	1993 OS <sub>7</sub>	1993 07 23.22569	19 35 40.52	-21 45 46.1		809
1993 OF <sub>3</sub>	1993 07 13.19375	20 01 46.10	-21 45 02.3		809	1993 OS <sub>7</sub>	1993 07 26.25486	19 32 58.22	-22 10 02.2	18.4	809
1993 OH <sub>3</sub>	1993 07 13.16736	20 02 48.85	-20 45 31.0	18.6	809	1993 OS <sub>7</sub>	1993 07 26.26806	19 32 57.44	-22 10 07.9		809
1993 OH <sub>3</sub>	1993 07 13.18056	20 02 47.83	-20 45 29.9		809	1993 OS <sub>7</sub>	1993 07 26.28125	19 32 56.71	-22 10 13.6		809
1993 OH <sub>3</sub>	1993 07 13.19375	20 02 47.13	-20 45 29.2		809	1993 OS <sub>7</sub>	1993 07 26.29792	19 32 55.56	-22 10 24.9	18.3	809
1993 OL <sub>3</sub>	1993 07 13.16736	20 02 40.24	-20 04 37.9	18.3	809	1993 OS <sub>7</sub>	1993 07 26.31111	19 32 54.73	-22 10 30.9		809
1993 OL <sub>3</sub>	1993 07 13.18056	20 02 39.28	-20 04 39.6		809	1993 OS <sub>7</sub>	1993 07 26.32431	19 32 54.11	-22 10 36.0		809
1993 OL <sub>3</sub>	1993 07 13.19375	20 02 38.52	-20 04 40.2		809	1993 OT <sub>7</sub>	1993 07 13.16736	19 44 28.37	-19 40 46.1	18.4	809
1993 OM <sub>3</sub>	1993 07 13.16736	20 02 51.85	-19 15 24.3	18.0	809	1993 OT <sub>7</sub>	1993 07 13.18056	19 44 27.61	-19 40 48.8		809
1993 OM <sub>3</sub>	1993 07 13.18056	20 02 50.96	-19 15 30.3		809	1993 OT <sub>7</sub>	1993 07 13.19375	19 44 26.95	-19 40 51.6		809
1993 OM <sub>3</sub>	1993 07 13.19375	20 02 50.12	-19 15 35.2		809	1993 OT <sub>7</sub>	1993 07 23.20000	19 36 15.99	-20 10 46.4	18.5	809
1993 ON <sub>3</sub>	1993 07 13.16736	20 02 34.43	-21 53 00.5	18.4	809	1993 OT <sub>7</sub>	1993 07 23.21250	19 36 15.33	-20 10 48.1		809
1993 ON <sub>3</sub>	1993 07 13.18056	20 02 33.65	-21 53 01.3		809	1993 OT <sub>7</sub>	1993 07 23.22569	19 36 14.66	-20 10 50.2		809
1993 ON <sub>3</sub>	1993 07 13.19375	20 02 32.87	-21 53 02.4		809	1993 OT <sub>7</sub>	1993 07 26.29792	19 33 48.77	-20 19 45.0	18.5	809
1993 OO <sub>3</sub>	1993 07 13.16736	20 03 11.70	-20 38 51.1	18.2	809	1993 OT <sub>7</sub>	1993 07 26.31111	19 33 48.04	-20 19 47.3		809
1993 OO <sub>3</sub>	1993 07 13.18056	20 03 10.75	-20 38 52.8		809	1993 OT <sub>7</sub>	1993 07 26.32431	19 33 47.33	-20 19 50.1		809
1993 OO <sub>3</sub>	1993 07 13.19375	20 03 10.01	-20 38 53.9		809	1993 OU <sub>7</sub>	1993 07 13.16736	19 45 26.21	-18 39 01.2	18.0	809
1993 OV <sub>3</sub>	1993 07 13.16736	20 02 59.24	-19 48 03.3	18.0	809	1993 OU <sub>7</sub>	1993 07 13.18056	19 45 25.44	-18 39 02.9		809
1993 OV <sub>3</sub>	1993 07 13.18056	20 02 58.65	-19 48 06.5		809	1993 OU <sub>7</sub>	1993 07 13.19375	19 45 24.66	-18 39 05.0		809
1993 OV <sub>3</sub>	1993 07 13.19375	20 02 58.12	-19 48 10.1		809	1993 OU <sub>7</sub>	1993 07 23.20000	19 36 21.68	-19 06 36.0	18.2	809
1993 OW <sub>3</sub>	1993 07 13.16736	20 04 30.05	-18 51 19.8	17.8	809	1993 OU <sub>7</sub>	1993 07 23.21250	19 36 20.97	-19 06 37.7		809
1993 OW <sub>3</sub>	1993 07 13.18056	20 04 29.41	-18 51 23.3		809	1993 OU <sub>7</sub>	1993 07 23.22569	19 36 20.22	-19 06 40.1		809
1993 OW <sub>3</sub>	1993 07 13.19375	20 04 28.69	-18 51 27.5		809	1993 OU <sub>7</sub>	1993 07 26.25486	19 33 40.55	-19 14 58.5	18.2	809
1993 OY <sub>3</sub>	1993 07 13.16736	20 06 28.68	-18 34 30.2	18.5	809	1993 OU <sub>7</sub>	1993 07 26.26806	19 33 39.76	-19 15 00.1		809
1993 OY <sub>3</sub>	1993 07 13.18056	20 06 27.79	-18 34 32.2		809	1993 OU <sub>7</sub>	1993 07 26.28125	19 33 39.05	-19 15 01.9		809
1993 OY <sub>3</sub>	1993 07 13.19375	20 06 26.94	-18 34 36.4		809	1993 OU <sub>7</sub>	1993 07 26.29792	19 33 38.51	-19 14 59.9	18.3	809
1993 OZ <sub>3</sub>	1993 07 13.16736	20 06 01.24	-21 34 22.7	18.5	809	1993 OU <sub>7</sub>	1993 07 26.31111	19 33 37.71	-19 15 02.9		809
1993 OZ <sub>3</sub>	1993 07 13.18056	20 06 00.51	-21 34 26.2		809	1993 OU <sub>7</sub>	1993 07 26.32431	19 33 37.01	-19 15 04.7		809
1993 OZ <sub>3</sub>	1993 07 13.19375	20 05 59.72	-21 34 28.6		809	1993 OX <sub>7</sub>	1993 07 26.29792	19 34 15.50	-19 07 08.2	18.4	809
1993 OA <sub>4</sub>	1993 07 13.16736	20 05 27.30	-19 46 38.5	18.4	809	1993 OX <sub>7</sub>	1993 07 26.31111	19 34 14.83	-19 07 14.4		809
1993 OA <sub>4</sub>	1993 07 13.18056	20 05 26.59	-19 46 41.7		809	1993 OX <sub>7</sub>	1993 07 26.32431	19 34 14.10	-19 07 20.3		809

1993 OA <sub>8</sub>	1993 07 23.20000	19 37 30.14	-22 06 27.2	18.5	809	1993 OR <sub>8</sub>	1993 07 13.18056	19 49 14.39	-19 22 27.3	809
1993 OA <sub>8</sub>	1993 07 23.21250	19 37 29.33	-22 06 25.8		809	1993 OR <sub>8</sub>	1993 07 13.19375	19 49 13.63	-19 22 29.3	809
1993 OA <sub>8</sub>	1993 07 23.22569	19 37 28.55	-22 06 24.3		809	1993 OR <sub>8</sub>	1993 07 19.19028	19 44 10.33	-19 39 19.9	18.6 809
1993 OD <sub>8</sub>	1993 07 13.16736	19 48 10.21	-20 00 49.4	18.2	809	1993 OR <sub>8</sub>	1993 07 19.20347	19 44 09.58	-19 39 21.5	809
1993 OD <sub>8</sub>	1993 07 13.18056	19 48 09.33	-20 00 49.3		809	1993 OR <sub>8</sub>	1993 07 19.21667	19 44 08.92	-19 39 24.4	809
1993 OD <sub>8</sub>	1993 07 13.19375	19 48 08.49	-20 00 49.4		809	1993 OS <sub>8</sub>	1993 07 26.29792	19 38 13.06	-22 55 15.2	18.5 809
1993 OD <sub>8</sub>	1993 07 23.20000	19 37 51.94	-19 59 14.8	18.1	809	1993 OS <sub>8</sub>	1993 07 26.31111	19 38 12.34	-22 55 13.8	809
1993 OD <sub>8</sub>	1993 07 23.21250	19 37 51.17	-19 59 14.7		809	1993 OS <sub>8</sub>	1993 07 26.32431	19 38 11.59	-22 55 14.2	809
1993 OD <sub>8</sub>	1993 07 23.22569	19 37 50.31	-19 59 14.2		809	1993 OT <sub>8</sub>	1993 07 26.29792	19 38 30.40	-20 01 51.0	18.5 809
1993 OD <sub>8</sub>	1993 07 26.29792	19 34 44.86	-19 58 27.1	18.0	809	1993 OT <sub>8</sub>	1993 07 26.31111	19 38 29.80	-20 01 53.2	809
1993 OD <sub>8</sub>	1993 07 26.31111	19 34 43.93	-19 58 26.0		809	1993 OT <sub>8</sub>	1993 07 26.32431	19 38 29.09	-20 01 55.0	809
1993 OD <sub>8</sub>	1993 07 26.32431	19 34 43.17	-19 58 26.4		809	1993 OU <sub>8</sub>	1993 07 13.16736	19 49 52.14	-19 16 17.7	18.4 809
1993 OF <sub>8</sub>	1993 07 13.16736	19 48 33.44	-20 40 53.9	18.5	809	1993 OU <sub>8</sub>	1993 07 13.18056	19 49 51.40	-19 16 21.3	809
1993 OF <sub>8</sub>	1993 07 13.18056	19 48 32.63	-20 40 52.7		809	1993 OU <sub>8</sub>	1993 07 13.19375	19 49 50.65	-19 16 24.9	809
1993 OF <sub>8</sub>	1993 07 13.19375	19 48 31.72	-20 40 52.1		809	1993 OX <sub>8</sub>	1993 07 13.16736	19 49 17.21	-19 07 59.7	18.2 809
1993 OJ <sub>8</sub>	1993 07 23.20000	19 39 14.82	-18 58 28.4	18.0	809	1993 OX <sub>8</sub>	1993 07 13.18056	19 49 16.52	-19 08 04.9	809
1993 OJ <sub>8</sub>	1993 07 23.21250	19 39 14.07	-18 58 29.5		809	1993 OX <sub>8</sub>	1993 07 13.19375	19 49 15.92	-19 08 11.5	809
1993 OJ <sub>8</sub>	1993 07 23.22569	19 39 13.32	-18 58 31.5		809	1993 OX <sub>8</sub>	1993 07 26.29792	19 39 45.97	-20 41 49.6	18.4 809
1993 OJ <sub>8</sub>	1993 07 26.29792	19 36 31.14	-19 04 38.2	18.3	809	1993 OX <sub>8</sub>	1993 07 26.31111	19 39 45.27	-20 41 55.4	809
1993 OJ <sub>8</sub>	1993 07 26.31111	19 36 30.38	-19 04 40.3		809	1993 OX <sub>8</sub>	1993 07 26.32431	19 39 44.70	-20 42 00.8	809
1993 OJ <sub>8</sub>	1993 07 26.32431	19 36 29.66	-19 04 41.4		809	1993 OZ <sub>8</sub>	1993 07 13.16736	19 50 12.71	-17 49 10.6	18.3 809
1993 OL <sub>8</sub>	1993 07 13.16736	19 48 00.99	-19 18 32.1	18.2	809	1993 OZ <sub>8</sub>	1993 07 13.18056	19 50 11.94	-17 49 12.2	809
1993 OL <sub>8</sub>	1993 07 13.18056	19 48 00.26	-19 18 41.1		809	1993 OZ <sub>8</sub>	1993 07 13.19375	19 50 11.25	-17 49 15.2	809
1993 OL <sub>8</sub>	1993 07 13.19375	19 47 59.60	-19 18 49.9		809	1993 OE <sub>9</sub>	1993 07 13.16736	19 52 45.35	-21 18 14.8	18.3 809
1993 OL <sub>8</sub>	1993 07 26.29792	19 37 43.60	-21 35 25.2	18.3	809	1993 OE <sub>9</sub>	1993 07 13.18056	19 52 44.30	-21 18 16.8	809
1993 OL <sub>8</sub>	1993 07 26.31111	19 37 42.97	-21 35 31.3		809	1993 OE <sub>9</sub>	1993 07 13.19375	19 52 43.51	-21 18 18.0	809
1993 OL <sub>8</sub>	1993 07 26.32431	19 37 42.23	-21 35 40.6		809	1993 OE <sub>9</sub>	1993 07 26.29792	19 38 40.90	-21 34 08.5	18.3 809
1993 OM <sub>8</sub>	1993 07 13.16736	19 48 31.36	-18 03 12.0	18.3	809	1993 OE <sub>9</sub>	1993 07 26.31111	19 38 39.96	-21 34 08.3	809
1993 OM <sub>8</sub>	1993 07 13.18056	19 48 30.63	-18 03 13.3		809	1993 OE <sub>9</sub>	1993 07 26.32431	19 38 38.95	-21 34 08.3	809
1993 OM <sub>8</sub>	1993 07 13.19375	19 48 29.97	-18 03 15.5		809	1993 OF <sub>9</sub>	1993 07 26.29792	19 39 56.56	-22 42 04.9	18.2 809
1993 OM <sub>8</sub>	1993 07 26.29792	19 37 41.49	-18 31 07.8	18.3	809	1993 OF <sub>9</sub>	1993 07 26.31111	19 39 55.80	-22 42 03.3	809
1993 OM <sub>8</sub>	1993 07 26.31111	19 37 40.83	-18 31 09.2		809	1993 OF <sub>9</sub>	1993 07 26.32431	19 39 55.08	-22 42 02.3	809
1993 OM <sub>8</sub>	1993 07 26.32431	19 37 40.09	-18 31 10.1		809	1993 OG <sub>9</sub>	1993 07 13.16736	19 52 29.05	-17 37 08.8	18.4 809
1993 ON <sub>8</sub>	1993 07 13.16736	19 50 09.33	-21 39 14.5	18.4	809	1993 OG <sub>9</sub>	1993 07 13.18056	19 52 28.14	-17 37 13.6	809
1993 ON <sub>8</sub>	1993 07 13.18056	19 50 08.40	-21 39 17.7		809	1993 OG <sub>9</sub>	1993 07 13.19375	19 52 27.45	-17 37 18.8	809
1993 ON <sub>8</sub>	1993 07 13.19375	19 50 07.56	-21 39 23.2		809	1993 OG <sub>9</sub>	1993 07 26.29792	19 39 14.07	-18 57 53.0	18.5 809
1993 ON <sub>8</sub>	1993 07 23.20000	19 39 48.08	-22 22 37.6	18.5	809	1993 OG <sub>9</sub>	1993 07 26.31111	19 39 13.25	-18 57 56.2	809
1993 ON <sub>8</sub>	1993 07 23.21250	19 39 47.24	-22 22 40.5		809	1993 OG <sub>9</sub>	1993 07 26.32431	19 39 12.46	-18 58 00.4	809
1993 ON <sub>8</sub>	1993 07 23.22569	19 39 46.43	-22 22 43.9		809	1993 OH <sub>9</sub>	1993 07 13.16736	19 52 10.87	-17 50 53.0	18.3 809
1993 ON <sub>8</sub>	1993 07 26.29792	19 36 43.35	-22 34 53.2	18.4	809	1993 OH <sub>9</sub>	1993 07 13.18056	19 52 10.04	-17 50 56.6	809
1993 ON <sub>8</sub>	1993 07 26.31111	19 36 42.47	-22 34 55.8		809	1993 OH <sub>9</sub>	1993 07 13.19375	19 52 09.19	-17 50 59.8	809
1993 ON <sub>8</sub>	1993 07 26.32431	19 36 41.65	-22 34 58.7		809	1993 OJ <sub>9</sub>	1993 07 13.16736	19 51 34.89	-17 57 45.4	18.4 809
1993 OQ <sub>8</sub>	1993 07 13.16736	19 49 53.12	-21 22 14.8	18.3	809	1993 OJ <sub>9</sub>	1993 07 13.18056	19 51 34.19	-17 57 48.2	809
1993 OQ <sub>8</sub>	1993 07 13.18056	19 49 52.30	-21 22 18.4		809	1993 OJ <sub>9</sub>	1993 07 13.19375	19 51 33.45	-17 57 51.9	809
1993 OQ <sub>8</sub>	1993 07 13.19375	19 49 51.47	-21 22 22.0		809	1993 OK <sub>9</sub>	1993 07 13.16736	19 51 34.67	-19 44 35.8	18.3 809
1993 OQ <sub>8</sub>	1993 07 23.20000	19 39 55.84	-22 02 54.7	18.4	809	1993 OK <sub>9</sub>	1993 07 13.18056	19 51 33.93	-19 44 38.0	809
1993 OQ <sub>8</sub>	1993 07 23.21250	19 39 55.10	-22 02 59.2		809	1993 OK <sub>9</sub>	1993 07 13.19375	19 51 33.21	-19 44 41.0	809
1993 OQ <sub>8</sub>	1993 07 23.22569	19 39 54.32	-22 03 00.0		809	1993 OK <sub>9</sub>	1993 07 26.29792	19 40 21.70	-20 26 25.7	18.2 809
1993 OQ <sub>8</sub>	1993 07 26.29792	19 36 53.53	-22 14 47.3	18.4	809	1993 OK <sub>9</sub>	1993 07 26.31111	19 40 20.94	-20 26 28.0	809
1993 OQ <sub>8</sub>	1993 07 26.31111	19 36 52.70	-22 14 49.1		809	1993 OK <sub>9</sub>	1993 07 26.32431	19 40 20.20	-20 26 28.1	809
1993 OQ <sub>8</sub>	1993 07 26.32431	19 36 51.91	-22 14 51.7		809	1993 OL <sub>9</sub>	1993 07 13.16736	19 51 44.75	-19 32 38.2	18.5 809
1993 OR <sub>8</sub>	1993 07 13.16736	19 49 15.09	-19 22 25.2	18.7	809	1993 OL <sub>9</sub>	1993 07 13.18056	19 51 44.01	-19 32 39.9	809

1993 OL <sub>9</sub>	1993 07 13.19375	19 51 43.31	-19 32 42.5		809	1993 OG <sub>10</sub>	1993 07 13.16736	19 57 56.28	-21 03 35.0	18.2	809
1993 ON <sub>9</sub>	1993 07 13.16736	19 53 31.98	-20 02 03.3	18.3	809	1993 OG <sub>10</sub>	1993 07 13.18056	19 57 55.42	-21 03 36.1		809
1993 ON <sub>9</sub>	1993 07 13.18056	19 53 31.03	-20 02 05.2		809	1993 OG <sub>10</sub>	1993 07 13.19375	19 57 54.59	-21 03 38.2		809
1993 ON <sub>9</sub>	1993 07 13.19375	19 53 30.15	-20 02 06.4		809	1993 OG <sub>10</sub>	1993 07 26.29792	19 44 30.96	-21 26 16.1	18.3	809
1993 ON <sub>9</sub>	1993 07 20.19583	19 45 41.40	-20 13 18.6	18.2	809	1993 OG <sub>10</sub>	1993 07 26.31111	19 44 30.10	-21 26 16.7		809
1993 ON <sub>9</sub>	1993 07 20.20903	19 45 40.62	-20 13 19.4		809	1993 OG <sub>10</sub>	1993 07 26.32431	19 44 29.30	-21 26 17.2		809
1993 ON <sub>9</sub>	1993 07 20.22222	19 45 39.70	-20 13 20.4		809	1993 OH <sub>10</sub>	1993 07 13.16736	19 58 09.43	-22 20 16.9	18.5	809
1993 ON <sub>9</sub>	1993 07 26.29792	19 38 57.75	-20 22 11.8	18.3	809	1993 OH <sub>10</sub>	1993 07 13.18056	19 58 08.67	-22 20 16.9		809
1993 ON <sub>9</sub>	1993 07 26.31111	19 38 56.94	-20 22 12.9		809	1993 OH <sub>10</sub>	1993 07 13.19375	19 58 07.92	-22 20 18.7		809
1993 ON <sub>9</sub>	1993 07 26.32431	19 38 56.04	-20 22 12.4		809	1993 OH <sub>10</sub>	1993 07 26.29792	19 45 45.35	-22 32 15.9	18.6	809
1993 OQ <sub>9</sub>	1993 07 13.16736	19 53 52.86	-20 17 09.1	18.3	809	1993 OH <sub>10</sub>	1993 07 26.31111	19 45 44.54	-22 32 16.3		809
1993 OQ <sub>9</sub>	1993 07 13.18056	19 53 51.93	-20 17 08.1		809	1993 OH <sub>10</sub>	1993 07 26.32431	19 45 43.71	-22 32 16.9		809
1993 OQ <sub>9</sub>	1993 07 13.19375	19 53 51.08	-20 17 06.8		809	1993 OJ <sub>10</sub>	1993 07 13.16736	19 58 53.23	-21 21 19.6	18.3	809
1993 OR <sub>9</sub>	1993 07 13.16736	19 52 10.90	-18 42 26.6	18.2	809	1993 OJ <sub>10</sub>	1993 07 13.18056	19 58 52.35	-21 21 16.3		809
1993 OR <sub>9</sub>	1993 07 13.18056	19 52 10.22	-18 42 29.6		809	1993 OJ <sub>10</sub>	1993 07 13.19375	19 58 51.58	-21 21 14.1		809
1993 OR <sub>9</sub>	1993 07 13.19375	19 52 09.48	-18 42 31.7		809	1993 OK <sub>10</sub>	1993 07 13.16736	19 59 44.07	-19 05 05.9	18.0	809
1993 OR <sub>9</sub>	1993 07 26.29792	19 41 06.43	-19 20 23.3	18.3	809	1993 OK <sub>10</sub>	1993 07 13.18056	19 59 43.19	-19 05 05.9		809
1993 OR <sub>9</sub>	1993 07 26.31111	19 41 05.57	-19 20 26.6		809	1993 OK <sub>10</sub>	1993 07 13.19375	19 59 42.28	-19 05 05.4		809
1993 OR <sub>9</sub>	1993 07 26.32431	19 41 04.68	-19 20 28.3		809	1993 OK <sub>10</sub>	1993 07 26.29792	19 45 10.63	-18 59 39.0	18.1	809
1993 OS <sub>9</sub>	1993 07 13.16736	19 53 17.93	-20 08 24.7	18.2	809	1993 OK <sub>10</sub>	1993 07 26.31111	19 45 09.64	-18 59 37.9		809
1993 OS <sub>9</sub>	1993 07 13.18056	19 53 16.94	-20 08 31.8		809	1993 OK <sub>10</sub>	1993 07 26.32431	19 45 08.71	-18 59 37.3		809
1993 OS <sub>9</sub>	1993 07 13.19375	19 53 16.21	-20 08 36.2		809	1993 OM <sub>10</sub>	1993 07 13.16736	19 57 58.81	-19 06 07.3	18.5	809
1993 OS <sub>9</sub>	1993 07 26.29792	19 40 39.75	-21 35 46.7	18.4	809	1993 OM <sub>10</sub>	1993 07 13.18056	19 57 58.07	-19 06 09.2		809
1993 OS <sub>9</sub>	1993 07 26.31111	19 40 38.84	-21 35 50.7		809	1993 OM <sub>10</sub>	1993 07 13.19375	19 57 57.37	-19 06 11.3		809
1993 OS <sub>9</sub>	1993 07 26.32431	19 40 38.06	-21 35 56.0		809	1993 OP <sub>10</sub>	1993 07 26.29792	19 47 08.17	-22 52 48.7	18.4	809
1993 OU <sub>9</sub>	1993 07 13.16736	19 53 24.82	-20 13 42.2	18.5	809	1993 OP <sub>10</sub>	1993 07 26.31111	19 47 07.38	-22 52 51.0		809
1993 OU <sub>9</sub>	1993 07 13.18056	19 53 24.04	-20 13 47.8		809	1993 OP <sub>10</sub>	1993 07 26.32431	19 47 06.68	-22 52 53.6		809
1993 OU <sub>9</sub>	1993 07 13.19375	19 53 23.29	-20 13 55.1		809	1993 OQ <sub>10</sub>	1993 07 13.16736	19 59 14.61	-18 09 13.9	18.5	809
1993 OU <sub>9</sub>	1993 07 26.29792	19 42 03.84	-21 49 03.2	18.6	809	1993 OQ <sub>10</sub>	1993 07 13.18056	19 59 13.88	-18 09 16.3		809
1993 OU <sub>9</sub>	1993 07 26.31111	19 42 03.16	-21 49 08.1		809	1993 OQ <sub>10</sub>	1993 07 13.19375	19 59 13.14	-18 09 16.9		809
1993 OU <sub>9</sub>	1993 07 26.32431	19 42 02.34	-21 49 13.7		809	1993 OS <sub>10</sub>	1993 07 13.16736	19 59 48.77	-18 11 58.3	18.1	809
1993 OW <sub>9</sub>	1993 07 13.16736	19 53 58.72	-21 36 01.3	18.7	809	1993 OS <sub>10</sub>	1993 07 13.18056	19 59 47.97	-18 11 59.7		809
1993 OW <sub>9</sub>	1993 07 13.18056	19 53 57.99	-21 36 06.8		809	1993 OS <sub>10</sub>	1993 07 13.19375	19 59 47.26	-18 12 00.4		809
1993 OW <sub>9</sub>	1993 07 13.19375	19 53 57.16	-21 36 11.8		809	1993 OU <sub>10</sub>	1993 07 13.16736	19 59 43.82	-22 40 50.2	18.4	809
1993 OX <sub>9</sub>	1993 07 13.16736	19 55 11.23	-21 34 29.1	18.3	809	1993 OU <sub>10</sub>	1993 07 13.18056	19 59 43.08	-22 40 53.3		809
1993 OX <sub>9</sub>	1993 07 13.18056	19 55 10.36	-21 34 30.1		809	1993 OU <sub>10</sub>	1993 07 13.19375	19 59 42.39	-22 40 55.6		809
1993 OX <sub>9</sub>	1993 07 13.19375	19 55 09.51	-21 34 32.3		809	1993 OV <sub>10</sub>	1993 07 13.16736	19 58 53.19	-18 28 09.0	18.3	809
1993 OY <sub>9</sub>	1993 07 13.16736	19 54 09.50	-22 14 45.8	18.3	809	1993 OV <sub>10</sub>	1993 07 13.18056	19 58 52.54	-18 28 10.7		809
1993 OY <sub>9</sub>	1993 07 13.18056	19 54 08.79	-22 14 45.2		809	1993 OV <sub>10</sub>	1993 07 13.19375	19 58 52.00	-18 28 11.2		809
1993 OY <sub>9</sub>	1993 07 13.19375	19 54 08.06	-22 14 45.7		809	1993 OV <sub>10</sub>	1993 07 24.22708	19 51 04.96	-18 44 11.3		809
1993 OY <sub>9</sub>	1993 07 26.29792	19 42 22.31	-22 12 43.4	18.4	809	1993 OW <sub>10</sub>	1993 07 13.16736	20 01 25.08	-21 26 31.4	18.7	809
1993 OY <sub>9</sub>	1993 07 26.31111	19 42 21.46	-22 12 42.8		809	1993 OW <sub>10</sub>	1993 07 13.18056	20 01 24.19	-21 26 35.6		809
1993 OY <sub>9</sub>	1993 07 26.32431	19 42 20.77	-22 12 42.0		809	1993 OW <sub>10</sub>	1993 07 13.19375	20 01 23.31	-21 26 39.6		809
1993 OA <sub>10</sub>	1993 07 26.29792	19 42 10.65	-22 51 44.0	18.3	809	1993 OW <sub>10</sub>	1993 07 24.22708	19 50 11.45	-22 16 14.1		809
1993 OA <sub>10</sub>	1993 07 26.31111	19 42 09.78	-22 51 42.6		809	1993 OY <sub>10</sub>	1993 07 13.16736	20 00 42.79	-20 27 10.9	18.5	809
1993 OA <sub>10</sub>	1993 07 26.32431	19 42 08.83	-22 51 41.0		809	1993 OY <sub>10</sub>	1993 07 13.18056	20 00 42.06	-20 27 14.8		809
1993 OB <sub>10</sub>	1993 07 13.16736	19 55 45.17	-21 06 44.0	18.4	809	1993 OY <sub>10</sub>	1993 07 13.19375	20 00 41.40	-20 27 17.1		809
1993 OB <sub>10</sub>	1993 07 13.18056	19 55 44.30	-21 06 43.9		809	1993 OA <sub>11</sub>	1993 07 13.16736	20 02 35.15	-18 11 04.5	18.2	809
1993 OB <sub>10</sub>	1993 07 13.19375	19 55 43.44	-21 06 43.2		809	1993 OA <sub>11</sub>	1993 07 13.18056	20 02 34.34	-18 11 07.0		809
1993 OB <sub>10</sub>	1993 07 26.29792	19 42 17.03	-20 55 32.1	18.5	809	1993 OA <sub>11</sub>	1993 07 13.19375	20 02 33.47	-18 11 09.0		809
1993 OB <sub>10</sub>	1993 07 26.31111	19 42 16.27	-20 55 31.3		809	1993 OE <sub>11</sub>	1993 07 13.16736	20 03 50.09	-21 04 15.3	18.6	809
1993 OB <sub>10</sub>	1993 07 26.32431	19 42 15.36	-20 55 30.2		809	1993 OE <sub>11</sub>	1993 07 13.18056	20 03 49.30	-21 04 19.3		809

1993 OE <sub>11</sub>	1993 07 20.24375	19 57 44.64	-21 40 54.9	18.5	809	1993 OZ <sub>12</sub>	1993 07 23.21250	19 22 27.11	-18 35 28.6	809
1993 OE <sub>11</sub>	1993 07 20.25694	19 57 43.89	-21 40 58.4		809	1993 OZ <sub>12</sub>	1993 07 23.22569	19 22 26.30	-18 35 30.5	809
1993 OE <sub>11</sub>	1993 07 20.27014	19 57 43.12	-21 41 02.9		809	1993 OA <sub>13</sub>	1993 07 12.08125	19 34 34.40	-18 54 27.6	18.3 809
1993 OX <sub>11</sub>	1993 07 12.08125	19 25 00.67	-22 36 39.5	18.4	809	1993 OA <sub>13</sub>	1993 07 12.09444	19 34 33.62	-18 54 31.1	809
1993 OX <sub>11</sub>	1993 07 12.09444	19 24 59.98	-22 36 41.0		809	1993 OA <sub>13</sub>	1993 07 12.10764	19 34 32.75	-18 54 35.3	809
1993 OX <sub>11</sub>	1993 07 12.10764	19 24 59.25	-22 36 42.3		809	1993 OA <sub>13</sub>	1993 07 23.20000	19 23 42.72	-19 49 27.5	18.4 809
1993 OX <sub>11</sub>	1993 07 26.25486	19 13 23.01	-22 48 40.8	18.5	809	1993 OA <sub>13</sub>	1993 07 23.21250	19 23 41.95	-19 49 31.4	809
1993 OX <sub>11</sub>	1993 07 26.26806	19 13 22.28	-22 48 41.6		809	1993 OA <sub>13</sub>	1993 07 23.22569	19 23 41.17	-19 49 35.6	809
1993 OX <sub>11</sub>	1993 07 26.28125	19 13 21.53	-22 48 41.2		809	1993 OA <sub>13</sub>	1993 07 26.25486	19 20 53.24	-20 04 05.1	18.4 809
1993 OZ <sub>11</sub>	1993 07 26.25486	19 13 58.69	-23 03 45.8	18.4	809	1993 OA <sub>13</sub>	1993 07 26.26806	19 20 52.58	-20 04 09.0	809
1993 OZ <sub>11</sub>	1993 07 26.26806	19 13 58.07	-23 03 48.5		809	1993 OA <sub>13</sub>	1993 07 26.28125	19 20 51.78	-20 04 11.8	809
1993 OZ <sub>11</sub>	1993 07 26.28125	19 13 57.42	-23 03 52.0		809	1993 OB <sub>13</sub>	1993 07 23.20000	19 24 17.19	-18 57 39.3	18.1 809
1993 OF <sub>12</sub>	1993 07 26.25486	19 14 39.51	-22 52 25.7	18.2	809	1993 OB <sub>13</sub>	1993 07 23.21250	19 24 16.56	-18 57 41.4	809
1993 OF <sub>12</sub>	1993 07 26.26806	19 14 38.75	-22 52 28.8		809	1993 OB <sub>13</sub>	1993 07 23.22569	19 24 15.91	-18 57 43.0	809
1993 OF <sub>12</sub>	1993 07 26.28125	19 14 38.06	-22 52 32.8		809	1993 OB <sub>13</sub>	1993 07 26.25486	19 21 52.32	-19 04 44.4	18.3 809
1993 OH <sub>12</sub>	1993 07 12.08125	19 28 45.30	-18 57 04.0	18.3	809	1993 OB <sub>13</sub>	1993 07 26.26806	19 21 51.57	-19 04 46.7	809
1993 OH <sub>12</sub>	1993 07 12.09444	19 28 44.52	-18 57 05.2		809	1993 OB <sub>13</sub>	1993 07 26.28125	19 21 50.93	-19 04 48.8	809
1993 OH <sub>12</sub>	1993 07 12.10764	19 28 43.71	-18 57 06.3		809	1993 OE <sub>13</sub>	1993 07 12.08125	19 35 09.45	-19 34 28.7	17.9 809
1993 OH <sub>12</sub>	1993 07 26.25486	19 15 50.73	-19 09 25.1	18.3	809	1993 OE <sub>13</sub>	1993 07 12.09444	19 35 08.70	-19 34 32.9	809
1993 OH <sub>12</sub>	1993 07 26.26806	19 15 50.07	-19 09 25.8		809	1993 OE <sub>13</sub>	1993 07 12.10764	19 35 07.94	-19 34 37.9	809
1993 OH <sub>12</sub>	1993 07 26.28125	19 15 49.35	-19 09 26.2		809	1993 OE <sub>13</sub>	1993 07 23.20000	19 24 31.59	-20 42 08.0	18.2 809
1993 OM <sub>12</sub>	1993 07 12.08125	19 30 19.06	-20 46 12.6	18.2	809	1993 OE <sub>13</sub>	1993 07 23.21250	19 24 30.92	-20 42 12.0	809
1993 OM <sub>12</sub>	1993 07 12.09444	19 30 18.22	-20 46 12.7		809	1993 OE <sub>13</sub>	1993 07 23.22569	19 24 30.19	-20 42 16.5	809
1993 OM <sub>12</sub>	1993 07 12.10764	19 30 17.34	-20 46 13.7		809	1993 OE <sub>13</sub>	1993 07 26.25486	19 21 48.72	-21 00 04.2	18.2 809
1993 OM <sub>12</sub>	1993 07 26.25486	19 16 12.02	-20 53 33.4	18.4	809	1993 OE <sub>13</sub>	1993 07 26.26806	19 21 47.92	-21 00 07.8	809
1993 OM <sub>12</sub>	1993 07 26.26806	19 16 11.25	-20 53 33.2		809	1993 OE <sub>13</sub>	1993 07 26.28125	19 21 47.22	-21 00 12.5	809
1993 OM <sub>12</sub>	1993 07 26.28125	19 16 10.51	-20 53 33.2		809	1993 OG <sub>13</sub>	1993 07 23.20000	19 25 06.50	-22 29 05.2	18.5 809
1993 ON <sub>12</sub>	1993 07 23.20000	19 19 43.93	-19 24 13.7	18.2	809	1993 OG <sub>13</sub>	1993 07 23.21250	19 25 05.65	-22 29 05.8	809
1993 ON <sub>12</sub>	1993 07 23.21250	19 19 43.29	-19 24 15.3		809	1993 OG <sub>13</sub>	1993 07 23.22569	19 25 04.80	-22 29 06.9	809
1993 ON <sub>12</sub>	1993 07 23.22569	19 19 42.63	-19 24 15.7		809	1993 OH <sub>13</sub>	1993 07 23.20000	19 25 28.70	-19 50 03.7	18.6 809
1993 OP <sub>12</sub>	1993 07 26.25486	19 16 41.72	-19 23 39.3	18.4	809	1993 OH <sub>13</sub>	1993 07 23.21250	19 25 27.83	-19 50 03.4	809
1993 OP <sub>12</sub>	1993 07 26.26806	19 16 40.94	-19 23 42.5		809	1993 OH <sub>13</sub>	1993 07 23.22569	19 25 27.04	-19 50 02.2	809
1993 OP <sub>12</sub>	1993 07 26.28125	19 16 40.24	-19 23 44.2		809	1993 OO <sub>13</sub>	* 1993 07 23.20000	19 20 18.47	-22 41 28.3	18.4 809
1993 OS <sub>12</sub>	1993 07 23.20000	19 20 50.58	-19 35 41.6	18.2	809	1993 OO <sub>13</sub>	1993 07 23.21250	19 20 17.70	-22 41 25.8	809
1993 OS <sub>12</sub>	1993 07 23.21250	19 20 49.90	-19 35 44.5		809	1993 OO <sub>13</sub>	1993 07 23.22569	19 20 16.80	-22 41 23.5	809
1993 OS <sub>12</sub>	1993 07 23.22569	19 20 49.25	-19 35 48.4		809	1993 OO <sub>13</sub>	1993 07 26.25486	19 17 14.30	-22 33 30.7	18.5 809
1993 OS <sub>12</sub>	1993 07 26.25486	19 18 22.39	-19 48 18.4	18.3	809	1993 OO <sub>13</sub>	1993 07 26.26806	19 17 13.46	-22 33 27.7	809
1993 OS <sub>12</sub>	1993 07 26.26806	19 18 21.70	-19 48 21.6		809	1993 OO <sub>13</sub>	1993 07 26.28125	19 17 12.81	-22 33 25.6	809
1993 OS <sub>12</sub>	1993 07 26.28125	19 18 21.11	-19 48 24.7		809	1993 OP <sub>13</sub>	1993 07 19.13958	19 30 18.08	-22 09 36.3	18.2 809
1993 OV <sub>12</sub>	1993 07 23.20000	19 21 50.03	-20 20 07.1	18.4	809	1993 OP <sub>13</sub>	1993 07 19.15278	19 30 17.32	-22 09 45.8	809
1993 OV <sub>12</sub>	1993 07 23.21250	19 21 49.43	-20 20 07.2		809	1993 OP <sub>13</sub>	1993 07 19.16597	19 30 16.62	-22 09 56.6	809
1993 OV <sub>12</sub>	1993 07 23.22569	19 21 48.77	-20 20 06.5		809	1993 OP <sub>13</sub>	1993 07 19.19028	19 30 15.58	-22 10 13.3	18.0 809
1993 OX <sub>12</sub>	1993 07 26.25486	19 20 29.49	-23 11 02.6	18.5	809	1993 OP <sub>13</sub>	1993 07 19.20347	19 30 14.79	-22 10 22.5	809
1993 OX <sub>12</sub>	1993 07 26.26806	19 20 28.83	-23 11 05.5		809	1993 OP <sub>13</sub>	1993 07 19.21667	19 30 14.08	-22 10 32.4	809
1993 OX <sub>12</sub>	1993 07 26.28125	19 20 28.24	-23 11 08.5		809	1993 OP <sub>13</sub>	* 1993 07 23.20000	19 26 59.51	-22 57 46.5	18.1 809
1993 OY <sub>12</sub>	1993 07 23.20000	19 22 03.43	-19 14 26.2	18.2	809	1993 OP <sub>13</sub>	1993 07 23.21250	19 26 58.91	-22 57 56.2	809
1993 OY <sub>12</sub>	1993 07 23.21250	19 22 02.69	-19 14 22.9		809	1993 OP <sub>13</sub>	1993 07 23.22569	19 26 58.14	-22 58 05.2	809
1993 OY <sub>12</sub>	1993 07 23.22569	19 22 01.87	-19 14 20.2		809	1993 OP <sub>13</sub>	1993 07 26.25486	19 24 37.16	-23 33 23.2	18.3 809
1993 OY <sub>12</sub>	1993 07 26.25486	19 19 03.82	-19 02 46.1	18.2	809	1993 OP <sub>13</sub>	1993 07 26.26806	19 24 36.47	-23 33 32.1	809
1993 OY <sub>12</sub>	1993 07 26.26806	19 19 03.04	-19 02 43.7		809	1993 OP <sub>13</sub>	1993 07 26.28125	19 24 35.78	-23 33 41.2	809
1993 OY <sub>12</sub>	1993 07 26.28125	19 19 02.33	-19 02 39.9		809	1993 OQ <sub>13</sub>	* 1993 07 23.20000	19 28 51.95	-23 09 37.4	18.0 809
1993 OZ <sub>12</sub>	1993 07 23.20000	19 22 27.81	-18 35 25.2	18.3	809	1993 OQ <sub>13</sub>	1993 07 23.21250	19 28 51.16	-23 09 38.6	809



1993 OQ <sub>13</sub>	1993 07 23.22569	19 28 50.41	-23 09 39.0		809	1993 RA <sub>4</sub>	* 1993 09 15.13056	00 20 00.36	+05 55 21.2	18.3	809
1993 OQ <sub>13</sub>	1993 07 26.25486	19 25 55.33	-23 10 25.9	18.1	809	1993 RA <sub>4</sub>	1993 09 15.14097	00 19 59.70	+05 55 20.2		809
1993 OQ <sub>13</sub>	1993 07 26.26806	19 25 54.40	-23 10 25.5		809	1993 RA <sub>4</sub>	1993 09 15.15139	00 19 59.06	+05 55 18.6		809
1993 OQ <sub>13</sub>	1993 07 26.28125	19 25 53.65	-23 10 25.0		809	1993 RA <sub>4</sub>	1993 09 17.21944	00 18 03.02	+05 51 43.4		809
1993 OR <sub>13</sub>	1993 07 12.22708	19 40 43.54	-20 21 15.0	18.2	809	1993 RA <sub>4</sub>	1993 09 17.22986	00 18 02.30	+05 51 42.2		809
1993 OR <sub>13</sub>	1993 07 12.24028	19 40 42.70	-20 21 23.8		809	1993 RA <sub>4</sub>	1993 09 17.24028	00 18 01.69	+05 51 41.1		809
1993 OR <sub>13</sub>	1993 07 12.25347	19 40 41.95	-20 21 30.0		809	1993 RB <sub>4</sub>	* 1993 09 15.13056	00 20 08.25	+04 40 47.5	18.7	809
1993 OR <sub>13</sub>	* 1993 07 23.20000	19 30 35.62	-22 01 33.7	18.3	809	1993 RB <sub>4</sub>	1993 09 15.14097	00 20 07.63	+04 40 46.6		809
1993 OR <sub>13</sub>	1993 07 23.21250	19 30 34.93	-22 01 40.4		809	1993 RB <sub>4</sub>	1993 09 15.15139	00 20 06.98	+04 40 45.5		809
1993 OR <sub>13</sub>	1993 07 23.22569	19 30 34.17	-22 01 46.8		809	1993 RB <sub>4</sub>	1993 09 17.21944	00 18 25.18	+04 37 04.0		809
1993 OR <sub>13</sub>	1993 07 26.29792	19 27 52.46	-22 28 48.4	18.3	809	1993 RB <sub>4</sub>	1993 09 17.22986	00 18 24.63	+04 37 03.1		809
1993 OR <sub>13</sub>	1993 07 26.31111	19 27 51.74	-22 28 54.6		809	1993 RB <sub>4</sub>	1993 09 17.24028	00 18 24.00	+04 37 00.8		809
1993 OR <sub>13</sub>	1993 07 26.32431	19 27 51.06	-22 29 02.4		809	1993 RC <sub>4</sub>	* 1993 09 15.13056	00 20 08.50	+06 40 06.9	18.5	809
1993 OS <sub>13</sub>	1993 07 19.19028	19 34 59.63	-19 32 14.3	18.3	809	1993 RC <sub>4</sub>	1993 09 15.14097	00 20 07.93	+06 40 04.2		809
1993 OS <sub>13</sub>	1993 07 19.20347	19 34 58.80	-19 32 17.1		809	1993 RC <sub>4</sub>	1993 09 15.15139	00 20 07.47	+06 40 02.1		809
1993 OS <sub>13</sub>	1993 07 19.21667	19 34 57.94	-19 32 18.7		809	1993 RC <sub>4</sub>	1993 09 17.21944	00 18 41.56	+06 32 46.1		809
1993 OS <sub>13</sub>	* 1993 07 23.20000	19 31 13.03	-19 41 09.3	18.5	809	1993 RC <sub>4</sub>	1993 09 17.22986	00 18 41.14	+06 32 43.6		809
1993 OS <sub>13</sub>	1993 07 23.21250	19 31 12.40	-19 41 11.3		809	1993 RC <sub>4</sub>	1993 09 17.24028	00 18 40.66	+06 32 42.0		809
1993 OS <sub>13</sub>	1993 07 23.22569	19 31 11.53	-19 41 13.2		809	1993 RD <sub>4</sub>	* 1993 09 15.13056	00 20 28.29	+04 47 10.0	18.4	809
1993 OS <sub>13</sub>	1993 07 26.25486	19 28 28.52	-19 47 47.2	18.4	809	1993 RD <sub>4</sub>	1993 09 15.14097	00 20 27.69	+04 47 07.1		809
1993 OS <sub>13</sub>	1993 07 26.26806	19 28 27.81	-19 47 48.2		809	1993 RD <sub>4</sub>	1993 09 15.15139	00 20 27.14	+04 47 05.9		809
1993 OS <sub>13</sub>	1993 07 26.28125	19 28 27.07	-19 47 49.9		809	1993 RD <sub>4</sub>	1993 09 17.21944	00 18 43.65	+04 40 25.1		809
1993 OT <sub>13</sub>	1993 07 19.19028	19 36 56.29	-22 28 00.7	18.0	809	1993 RD <sub>4</sub>	1993 09 17.22986	00 18 43.02	+04 40 23.2		809
1993 OT <sub>13</sub>	1993 07 19.20347	19 36 55.36	-22 28 01.3		809	1993 RD <sub>4</sub>	1993 09 17.24028	00 18 42.46	+04 40 20.7		809
1993 OT <sub>13</sub>	1993 07 19.21667	19 36 54.55	-22 28 01.6		809	1993 RE <sub>4</sub>	* 1993 09 15.13056	00 21 06.54	+04 43 58.6	18.7	809
1993 OT <sub>13</sub>	* 1993 07 23.20000	19 32 57.75	-22 29 15.5	18.1	809	1993 RE <sub>4</sub>	1993 09 15.14097	00 21 06.03	+04 43 58.5		809
1993 OT <sub>13</sub>	1993 07 23.21250	19 32 56.93	-22 29 15.5		809	1993 RE <sub>4</sub>	1993 09 15.15139	00 21 05.54	+04 43 55.7		809
1993 OT <sub>13</sub>	1993 07 23.22569	19 32 56.14	-22 29 15.5		809	1993 RE <sub>4</sub>	1993 09 17.21944	00 19 33.37	+04 38 55.3		809
1993 OT <sub>13</sub>	1993 07 26.25486	19 30 04.90	-22 29 39.1	18.1	809	1993 RE <sub>4</sub>	1993 09 17.22986	00 19 32.82	+04 38 53.5		809
1993 OT <sub>13</sub>	1993 07 26.26806	19 30 04.06	-22 29 39.6		809	1993 RE <sub>4</sub>	1993 09 17.24028	00 19 32.27	+04 38 52.6		809
1993 OT <sub>13</sub>	1993 07 26.28125	19 30 03.29	-22 29 38.7		809	1993 RF <sub>4</sub>	* 1993 09 15.13056	00 21 47.98	+04 02 18.3	18.4	809
1993 OT <sub>13</sub>	1993 07 26.29792	19 30 02.34	-22 29 34.4	18.4	809	1993 RF <sub>4</sub>	1993 09 15.14097	00 21 47.47	+04 02 14.1		809
1993 OT <sub>13</sub>	1993 07 26.31111	19 30 01.55	-22 29 33.5		809	1993 RF <sub>4</sub>	1993 09 15.15139	00 21 46.89	+04 02 09.9		809
1993 OT <sub>13</sub>	1993 07 26.32431	19 30 00.79	-22 29 33.5		809	1993 RF <sub>4</sub>	1993 09 17.21944	00 20 14.02	+03 48 47.5		809
1993 RF <sub>2</sub>	1993 09 15.13056	00 25 00.35	+03 45 22.7	18.0	809	1993 RF <sub>4</sub>	1993 09 17.22986	00 20 13.49	+03 48 44.0		809
1993 RF <sub>2</sub>	1993 09 15.14097	00 24 59.69	+03 45 21.9		809	1993 RF <sub>4</sub>	1993 09 17.24028	00 20 12.89	+03 48 38.8		809
1993 RF <sub>2</sub>	1993 09 15.15139	00 24 59.05	+03 45 20.0		809	1993 RG <sub>4</sub>	* 1993 09 15.13056	00 21 57.05	+06 53 26.7	18.4	809
1993 RF <sub>2</sub>	1993 09 17.21944	00 22 58.90	+03 41 56.4		809	1993 RG <sub>4</sub>	1993 09 15.14097	00 21 56.31	+06 53 26.5		809
1993 RF <sub>2</sub>	1993 09 17.22986	00 22 58.19	+03 41 55.7		809	1993 RG <sub>4</sub>	1993 09 15.15139	00 21 55.62	+06 53 25.5		809
1993 RF <sub>2</sub>	1993 09 17.24028	00 22 57.49	+03 41 54.3		809	1993 RG <sub>4</sub>	1993 09 17.21944	00 19 55.40	+06 52 15.6		809
1993 RH <sub>2</sub>	1993 09 15.13056	00 36 32.81	+02 40 25.2	18.0	809	1993 RG <sub>4</sub>	1993 09 17.22986	00 19 54.80	+06 52 15.3		809
1993 RH <sub>2</sub>	1993 09 15.14097	00 36 32.11	+02 40 28.5		809	1993 RG <sub>4</sub>	1993 09 17.24028	00 19 54.13	+06 52 14.6		809
1993 RH <sub>2</sub>	1993 09 15.15139	00 36 31.44	+02 40 31.0		809	1993 RH <sub>4</sub>	* 1993 09 15.13056	00 22 16.40	+03 54 57.1	18.3	809
1993 RH <sub>2</sub>	1993 09 17.21944	00 34 19.47	+02 50 08.0		809	1993 RH <sub>4</sub>	1993 09 15.14097	00 22 15.84	+03 54 55.3		809
1993 RH <sub>2</sub>	1993 09 17.22986	00 34 18.67	+02 50 11.0		809	1993 RH <sub>4</sub>	1993 09 15.15139	00 22 15.36	+03 54 52.3		809
1993 RH <sub>2</sub>	1993 09 17.24028	00 34 17.92	+02 50 13.9		809	1993 RH <sub>4</sub>	1993 09 17.21944	00 20 30.24	+03 48 07.2		809
1993 RZ <sub>3</sub>	* 1993 09 15.13056	00 20 00.24	+04 09 06.8	18.4	809	1993 RH <sub>4</sub>	1993 09 17.22986	00 20 29.65	+03 48 03.7		809
1993 RZ <sub>3</sub>	1993 09 15.14097	00 19 59.53	+04 09 03.2		809	1993 RH <sub>4</sub>	1993 09 17.24028	00 20 29.01	+03 48 01.3		809
1993 RZ <sub>3</sub>	1993 09 15.15139	00 19 58.92	+04 09 00.8		809	1993 RJ <sub>4</sub>	* 1993 09 15.13056	00 22 21.04	+04 03 28.4	18.3	809
1993 RZ <sub>3</sub>	1993 09 17.21944	00 17 58.05	+03 59 54.2		809	1993 RJ <sub>4</sub>	1993 09 15.14097	00 22 20.46	+04 03 25.4		809
1993 RZ <sub>3</sub>	1993 09 17.22986	00 17 57.29	+03 59 51.2		809	1993 RJ <sub>4</sub>	1993 09 15.15139	00 22 19.81	+04 03 24.0		809
1993 RZ <sub>3</sub>	1993 09 17.24028	00 17 56.64	+03 59 49.3		809	1993 RJ <sub>4</sub>	1993 09 17.21944	00 20 36.62	+03 56 28.6		809

1993 RJ <sub>4</sub>	1993 09 17.22986	00 20 35.99	+03 56 27.3		809	1993 RS <sub>4</sub>	1993 09 17.21944	00 22 00.77	+04 44 46.5		809
1993 RJ <sub>4</sub>	1993 09 17.24028	00 20 35.30	+03 56 24.9		809	1993 RS <sub>4</sub>	1993 09 17.22986	00 22 00.10	+04 44 42.7		809
1993 RK <sub>4</sub>	* 1993 09 15.13056	00 22 43.85	+04 58 39.1	18.7	809	1993 RS <sub>4</sub>	1993 09 17.24028	00 21 59.40	+04 44 39.9		809
1993 RK <sub>4</sub>	1993 09 15.14097	00 22 43.31	+04 58 37.2		809	1993 RT <sub>4</sub>	* 1993 09 15.13056	00 24 09.92	+04 57 52.4	18.6	809
1993 RK <sub>4</sub>	1993 09 15.15139	00 22 42.65	+04 58 33.5		809	1993 RT <sub>4</sub>	1993 09 15.14097	00 24 09.32	+04 57 46.2		809
1993 RK <sub>4</sub>	1993 09 17.21944	00 20 56.15	+04 48 24.7		809	1993 RT <sub>4</sub>	1993 09 15.15139	00 24 08.69	+04 57 43.6		809
1993 RK <sub>4</sub>	1993 09 17.22986	00 20 55.46	+04 48 21.1		809	1993 RT <sub>4</sub>	1993 09 17.21944	00 22 26.28	+04 45 56.5		809
1993 RK <sub>4</sub>	1993 09 17.24028	00 20 54.83	+04 48 17.9		809	1993 RT <sub>4</sub>	1993 09 17.22986	00 22 25.58	+04 45 51.2		809
1993 RL <sub>4</sub>	* 1993 09 15.13056	00 22 44.63	+06 03 04.0	18.3	809	1993 RT <sub>4</sub>	1993 09 17.24028	00 22 24.98	+04 45 48.2		809
1993 RL <sub>4</sub>	1993 09 15.14097	00 22 44.01	+06 03 00.1		809	1993 RU <sub>4</sub>	* 1993 09 15.13056	00 24 11.56	+06 35 04.4	18.4	809
1993 RL <sub>4</sub>	1993 09 15.15139	00 22 43.46	+06 02 56.5		809	1993 RU <sub>4</sub>	1993 09 15.14097	00 24 10.73	+06 35 05.5		809
1993 RL <sub>4</sub>	1993 09 17.21944	00 20 58.55	+05 51 15.0		809	1993 RU <sub>4</sub>	1993 09 15.15139	00 24 10.11	+06 35 05.7		809
1993 RL <sub>4</sub>	1993 09 17.22986	00 20 57.97	+05 51 11.9		809	1993 RU <sub>4</sub>	1993 09 17.21944	00 22 14.53	+06 37 15.3		809
1993 RL <sub>4</sub>	1993 09 17.24028	00 20 57.35	+05 51 07.7		809	1993 RU <sub>4</sub>	1993 09 17.22986	00 22 13.92	+06 37 15.8		809
1993 RM <sub>4</sub>	* 1993 09 15.13056	00 22 57.90	+05 13 25.7	18.5	809	1993 RU <sub>4</sub>	1993 09 17.24028	00 22 13.28	+06 37 15.6		809
1993 RM <sub>4</sub>	1993 09 15.14097	00 22 57.32	+05 13 21.0		809	1993 RV <sub>4</sub>	* 1993 09 15.13056	00 24 20.13	+04 26 58.0	18.3	809
1993 RM <sub>4</sub>	1993 09 15.15139	00 22 56.74	+05 13 17.6		809	1993 RV <sub>4</sub>	1993 09 15.14097	00 24 19.55	+04 26 54.5		809
1993 RM <sub>4</sub>	1993 09 17.21944	00 21 20.75	+05 02 14.4		809	1993 RV <sub>4</sub>	1993 09 15.15139	00 24 18.75	+04 26 50.7		809
1993 RM <sub>4</sub>	1993 09 17.22986	00 21 20.12	+05 02 10.3		809	1993 RV <sub>4</sub>	1993 09 17.21944	00 22 28.07	+04 15 18.6		809
1993 RM <sub>4</sub>	1993 09 17.24028	00 21 19.57	+05 02 06.0		809	1993 RV <sub>4</sub>	1993 09 17.22986	00 22 27.28	+04 15 14.3		809
1993 RN <sub>4</sub>	* 1993 09 15.13056	00 23 11.60	+03 48 29.4	18.2	809	1993 RV <sub>4</sub>	1993 09 17.24028	00 22 26.68	+04 15 10.8		809
1993 RN <sub>4</sub>	1993 09 15.14097	00 23 11.10	+03 48 22.8		809	1993 RW <sub>4</sub>	* 1993 09 15.13056	00 24 32.40	+03 50 33.1	18.3	809
1993 RN <sub>4</sub>	1993 09 15.15139	00 23 10.63	+03 48 16.1		809	1993 RW <sub>4</sub>	1993 09 15.14097	00 24 32.05	+03 50 29.9		809
1993 RN <sub>4</sub>	1993 09 17.21944	00 21 55.33	+03 27 53.9		809	1993 RW <sub>4</sub>	1993 09 15.15139	00 24 31.54	+03 50 27.3		809
1993 RN <sub>4</sub>	1993 09 17.22986	00 21 54.88	+03 27 48.3		809	1993 RW <sub>4</sub>	1993 09 17.21944	00 23 04.71	+03 40 42.4		809
1993 RN <sub>4</sub>	1993 09 17.24028	00 21 54.41	+03 27 41.7		809	1993 RW <sub>4</sub>	1993 09 17.22986	00 23 04.18	+03 40 39.8		809
1993 RO <sub>4</sub>	* 1993 09 15.13056	00 23 30.06	+05 17 37.1	18.5	809	1993 RW <sub>4</sub>	1993 09 17.24028	00 23 03.73	+03 40 36.1		809
1993 RO <sub>4</sub>	1993 09 15.14097	00 23 29.61	+05 17 33.4		809	1993 RX <sub>4</sub>	* 1993 09 15.13056	00 24 39.96	+05 10 19.3	18.5	809
1993 RO <sub>4</sub>	1993 09 15.15139	00 23 29.06	+05 17 28.4		809	1993 RX <sub>4</sub>	1993 09 15.14097	00 24 39.40	+05 10 12.8		809
1993 RO <sub>4</sub>	1993 09 17.21944	00 22 03.37	+05 03 20.9		809	1993 RX <sub>4</sub>	1993 09 15.15139	00 24 38.94	+05 10 06.6		809
1993 RO <sub>4</sub>	1993 09 17.22986	00 22 02.79	+05 03 16.7		809	1993 RX <sub>4</sub>	1993 09 17.21944	00 23 08.10	+04 50 19.6		809
1993 RO <sub>4</sub>	1993 09 17.24028	00 22 02.26	+05 03 10.9		809	1993 RX <sub>4</sub>	1993 09 17.22986	00 23 07.50	+04 50 13.1		809
1993 RP <sub>4</sub>	* 1993 09 15.13056	00 23 39.04	+05 19 51.4	19.0	809	1993 RX <sub>4</sub>	1993 09 17.24028	00 23 07.07	+04 50 07.1		809
1993 RP <sub>4</sub>	1993 09 15.14097	00 23 38.55	+05 19 45.5		809	1993 RY <sub>4</sub>	* 1993 09 15.13056	00 24 40.05	+06 04 20.8	18.3	809
1993 RP <sub>4</sub>	1993 09 15.15139	00 23 38.04	+05 19 39.5		809	1993 RY <sub>4</sub>	1993 09 15.14097	00 24 39.29	+06 04 19.9		809
1993 RP <sub>4</sub>	1993 09 17.21944	00 22 01.29	+05 03 34.0		809	1993 RY <sub>4</sub>	1993 09 15.15139	00 24 38.71	+06 04 17.8		809
1993 RP <sub>4</sub>	1993 09 17.22986	00 22 00.80	+05 03 29.3		809	1993 RY <sub>4</sub>	1993 09 17.21944	00 22 45.68	+05 59 52.2		809
1993 RP <sub>4</sub>	1993 09 17.24028	00 22 00.25	+05 03 24.2		809	1993 RY <sub>4</sub>	1993 09 17.22986	00 22 44.93	+05 59 51.3		809
1993 RQ <sub>4</sub>	* 1993 09 15.13056	00 23 39.12	+05 34 09.5	18.1	809	1993 RY <sub>4</sub>	1993 09 17.24028	00 22 44.35	+05 59 49.4		809
1993 RQ <sub>4</sub>	1993 09 15.14097	00 23 38.63	+05 34 06.6		809	1993 RZ <sub>4</sub>	* 1993 09 15.13056	00 25 40.65	+03 59 38.8	18.5	809
1993 RQ <sub>4</sub>	1993 09 15.15139	00 23 38.05	+05 34 03.2		809	1993 RZ <sub>4</sub>	1993 09 15.14097	00 25 40.07	+03 59 35.8		809
1993 RQ <sub>4</sub>	1993 09 17.21944	00 22 06.91	+05 23 00.5		809	1993 RZ <sub>4</sub>	1993 09 15.15139	00 25 39.37	+03 59 33.5		809
1993 RQ <sub>4</sub>	1993 09 17.22986	00 22 06.48	+05 22 56.9		809	1993 RZ <sub>4</sub>	1993 09 17.21944	00 23 45.35	+03 51 07.7		809
1993 RQ <sub>4</sub>	1993 09 17.24028	00 22 05.90	+05 22 54.1		809	1993 RZ <sub>4</sub>	1993 09 17.22986	00 23 44.64	+03 51 04.2		809
1993 RR <sub>4</sub>	* 1993 09 15.13056	00 23 45.88	+05 40 31.1	18.3	809	1993 RZ <sub>4</sub>	1993 09 17.24028	00 23 44.08	+03 51 01.5		809
1993 RR <sub>4</sub>	1993 09 15.14097	00 23 45.64	+05 40 31.9		809	1993 RA <sub>5</sub>	* 1993 09 15.13056	00 26 15.67	+07 32 07.7	18.5	809
1993 RR <sub>4</sub>	1993 09 15.15139	00 23 45.10	+05 40 29.0		809	1993 RA <sub>5</sub>	1993 09 15.14097	00 26 15.01	+07 32 08.2		809
1993 RR <sub>4</sub>	1993 09 17.21944	00 22 18.47	+05 30 50.3		809	1993 RA <sub>5</sub>	1993 09 15.15139	00 26 14.48	+07 32 09.7		809
1993 RR <sub>4</sub>	1993 09 17.22986	00 22 17.99	+05 30 46.8		809	1993 RA <sub>5</sub>	1993 09 17.21944	00 24 29.49	+07 35 46.2		809
1993 RS <sub>4</sub>	* 1993 09 15.13056	00 23 49.83	+04 55 04.2	18.3	809	1993 RA <sub>5</sub>	1993 09 17.22986	00 24 28.89	+07 35 46.9		809
1993 RS <sub>4</sub>	1993 09 15.14097	00 23 49.10	+04 55 01.2		809	1993 RA <sub>5</sub>	1993 09 17.24028	00 24 28.32	+07 35 47.9		809
1993 RS <sub>4</sub>	1993 09 15.15139	00 23 48.54	+04 54 58.1		809	1993 RB <sub>5</sub>	* 1993 09 15.13056	00 26 53.74	+03 26 15.2	18.3	809

1993 RB <sub>5</sub>	1993 09 15.14097	00 26 53.23	+03 26 11.8	809	1993 RK <sub>5</sub>	1993 09 17.24028	00 26 08.96	+05 09 53.8	809
1993 RB <sub>5</sub>	1993 09 15.15139	00 26 52.65	+03 26 08.2	809	1993 RL <sub>5</sub>	* 1993 09 15.13056	00 28 04.43	+07 08 54.4	18.0 809
1993 RB <sub>5</sub>	1993 09 17.21944	00 25 22.63	+03 15 07.1	809	1993 RL <sub>5</sub>	1993 09 15.14097	00 28 03.88	+07 08 51.7	809
1993 RB <sub>5</sub>	1993 09 17.22986	00 25 22.08	+03 15 04.4	809	1993 RL <sub>5</sub>	1993 09 15.15139	00 28 03.25	+07 08 49.7	809
1993 RB <sub>5</sub>	1993 09 17.24028	00 25 21.63	+03 15 00.6	809	1993 RL <sub>5</sub>	1993 09 17.21944	00 26 17.17	+07 00 43.6	809
1993 RC <sub>5</sub>	* 1993 09 15.13056	00 27 07.84	+05 19 05.6	18.4 809	1993 RL <sub>5</sub>	1993 09 17.22986	00 26 16.55	+07 00 41.1	809
1993 RC <sub>5</sub>	1993 09 15.14097	00 27 07.43	+05 19 01.5	809	1993 RL <sub>5</sub>	1993 09 17.24028	00 26 16.03	+07 00 38.6	809
1993 RC <sub>5</sub>	1993 09 15.15139	00 27 06.98	+05 18 59.2	809	1993 RM <sub>5</sub>	* 1993 09 15.13056	00 28 20.29	+05 01 12.0	18.7 809
1993 RC <sub>5</sub>	1993 09 17.21944	00 25 45.60	+05 08 54.9	809	1993 RM <sub>5</sub>	1993 09 15.14097	00 28 19.53	+05 01 10.0	809
1993 RC <sub>5</sub>	1993 09 17.22986	00 25 45.16	+05 08 52.6	809	1993 RM <sub>5</sub>	1993 09 15.15139	00 28 18.92	+05 01 09.3	809
1993 RC <sub>5</sub>	1993 09 17.24028	00 25 44.70	+05 08 48.2	809	1993 RM <sub>5</sub>	1993 09 17.21944	00 26 19.66	+04 58 16.4	809
1993 RD <sub>5</sub>	* 1993 09 15.13056	00 27 18.16	+05 20 40.0	18.5 809	1993 RM <sub>5</sub>	1993 09 17.22986	00 26 18.90	+04 58 16.3	809
1993 RD <sub>5</sub>	1993 09 15.14097	00 27 17.61	+05 20 36.9	809	1993 RM <sub>5</sub>	1993 09 17.24028	00 26 18.30	+04 58 15.9	809
1993 RD <sub>5</sub>	1993 09 15.15139	00 27 17.01	+05 20 33.3	809	1993 RN <sub>5</sub>	* 1993 09 15.13056	00 28 22.00	+03 43 01.0	18.5 809
1993 RD <sub>5</sub>	1993 09 17.21944	00 25 32.72	+05 09 07.6	809	1993 RN <sub>5</sub>	1993 09 15.14097	00 28 21.44	+03 42 58.6	809
1993 RD <sub>5</sub>	1993 09 17.22986	00 25 32.14	+05 09 04.9	809	1993 RN <sub>5</sub>	1993 09 15.15139	00 28 20.80	+03 42 57.8	809
1993 RD <sub>5</sub>	1993 09 17.24028	00 25 31.47	+05 09 00.7	809	1993 RN <sub>5</sub>	1993 09 17.21944	00 26 36.87	+03 38 01.3	809
1993 RE <sub>5</sub>	* 1993 09 15.13056	00 27 23.26	+03 15 43.9	18.3 809	1993 RN <sub>5</sub>	1993 09 17.22986	00 26 36.29	+03 38 00.3	809
1993 RE <sub>5</sub>	1993 09 15.14097	00 27 22.75	+03 15 40.0	809	1993 RN <sub>5</sub>	1993 09 17.24028	00 26 35.69	+03 37 58.1	809
1993 RE <sub>5</sub>	1993 09 15.15139	00 27 22.24	+03 15 36.2	809	1993 RO <sub>5</sub>	* 1993 09 15.13056	00 28 24.41	+06 25 20.5	18.3 809
1993 RE <sub>5</sub>	1993 09 17.21944	00 26 00.05	+03 02 00.8	809	1993 RO <sub>5</sub>	1993 09 15.14097	00 28 23.83	+06 25 14.8	809
1993 RE <sub>5</sub>	1993 09 17.22986	00 25 59.53	+03 01 55.7	809	1993 RO <sub>5</sub>	1993 09 15.15139	00 28 23.20	+06 25 10.0	809
1993 RE <sub>5</sub>	1993 09 17.24028	00 25 58.96	+03 01 52.1	809	1993 RO <sub>5</sub>	1993 09 17.21944	00 26 40.69	+06 08 23.9	809
1993 RF <sub>5</sub>	* 1993 09 15.13056	00 27 27.40	+06 43 42.6	18.3 809	1993 RO <sub>5</sub>	1993 09 17.22986	00 26 40.16	+06 08 19.2	809
1993 RF <sub>5</sub>	1993 09 15.14097	00 27 26.76	+06 43 40.6	809	1993 RO <sub>5</sub>	1993 09 17.24028	00 26 39.74	+06 08 14.9	809
1993 RF <sub>5</sub>	1993 09 15.15139	00 27 26.16	+06 43 38.1	809	1993 RP <sub>5</sub>	* 1993 09 15.13056	00 28 31.66	+07 26 48.2	18.4 809
1993 RF <sub>5</sub>	1993 09 17.21944	00 25 36.50	+06 36 13.2	809	1993 RP <sub>5</sub>	1993 09 15.14097	00 28 31.06	+07 26 43.8	809
1993 RF <sub>5</sub>	1993 09 17.22986	00 25 35.88	+06 36 10.8	809	1993 RP <sub>5</sub>	1993 09 15.15139	00 28 30.51	+07 26 40.9	809
1993 RF <sub>5</sub>	1993 09 17.24028	00 25 35.24	+06 36 09.1	809	1993 RP <sub>5</sub>	1993 09 17.21944	00 26 57.07	+07 14 55.0	809
1993 RG <sub>5</sub>	* 1993 09 15.13056	00 27 28.80	+05 13 10.5	18.2 809	1993 RP <sub>5</sub>	1993 09 17.22986	00 26 56.59	+07 14 52.2	809
1993 RG <sub>5</sub>	1993 09 15.14097	00 27 28.15	+05 13 08.0	809	1993 RP <sub>5</sub>	1993 09 17.24028	00 26 56.08	+07 14 47.6	809
1993 RG <sub>5</sub>	1993 09 15.15139	00 27 27.52	+05 13 04.8	809	1993 RQ <sub>5</sub>	* 1993 09 15.13056	00 28 35.01	+03 20 37.8	18.1 809
1993 RG <sub>5</sub>	1993 09 17.21944	00 25 36.03	+05 04 05.6	809	1993 RQ <sub>5</sub>	1993 09 15.14097	00 28 34.50	+03 20 33.1	809
1993 RG <sub>5</sub>	1993 09 17.22986	00 25 35.37	+05 04 01.7	809	1993 RQ <sub>5</sub>	1993 09 15.15139	00 28 34.06	+03 20 28.8	809
1993 RG <sub>5</sub>	1993 09 17.24028	00 25 34.81	+05 03 59.8	809	1993 RQ <sub>5</sub>	1993 09 17.21944	00 27 05.88	+03 05 37.0	809
1993 RH <sub>5</sub>	* 1993 09 15.13056	00 27 30.68	+05 36 25.6	18.4 809	1993 RQ <sub>5</sub>	1993 09 17.22986	00 27 05.44	+03 05 32.2	809
1993 RH <sub>5</sub>	1993 09 15.14097	00 27 30.00	+05 36 23.9	809	1993 RQ <sub>5</sub>	1993 09 17.24028	00 27 04.91	+03 05 28.1	809
1993 RH <sub>5</sub>	1993 09 15.15139	00 27 29.49	+05 36 23.4	809	1993 RR <sub>5</sub>	* 1993 09 15.13056	00 28 37.59	+07 09 46.7	18.5 809
1993 RH <sub>5</sub>	1993 09 17.21944	00 25 46.91	+05 32 31.9	809	1993 RR <sub>5</sub>	1993 09 15.14097	00 28 37.06	+07 09 44.7	809
1993 RH <sub>5</sub>	1993 09 17.22986	00 25 46.29	+05 32 30.3	809	1993 RR <sub>5</sub>	1993 09 15.15139	00 28 36.35	+07 09 42.6	809
1993 RH <sub>5</sub>	1993 09 17.24028	00 25 45.74	+05 32 29.0	809	1993 RR <sub>5</sub>	1993 09 17.21944	00 26 45.31	+07 01 25.6	809
1993 RJ <sub>5</sub>	* 1993 09 15.13056	00 27 40.57	+04 53 00.3	18.4 809	1993 RR <sub>5</sub>	1993 09 17.22986	00 26 44.62	+07 01 23.3	809
1993 RJ <sub>5</sub>	1993 09 15.14097	00 27 40.02	+04 52 56.5	809	1993 RR <sub>5</sub>	1993 09 17.24028	00 26 44.03	+07 01 20.1	809
1993 RJ <sub>5</sub>	1993 09 15.15139	00 27 39.58	+04 52 54.2	809	1993 RS <sub>5</sub>	* 1993 09 15.13056	00 28 45.06	+06 13 18.3	18.3 809
1993 RJ <sub>5</sub>	1993 09 17.21944	00 26 11.43	+04 43 29.1	809	1993 RS <sub>5</sub>	1993 09 15.14097	00 28 44.47	+06 13 13.5	809
1993 RJ <sub>5</sub>	1993 09 17.22986	00 26 10.91	+04 43 26.6	809	1993 RS <sub>5</sub>	1993 09 15.15139	00 28 43.95	+06 13 09.4	809
1993 RJ <sub>5</sub>	1993 09 17.24028	00 26 10.35	+04 43 22.9	809	1993 RS <sub>5</sub>	1993 09 17.21944	00 27 01.14	+05 58 40.9	809
1993 RK <sub>5</sub>	* 1993 09 15.13056	00 28 00.26	+05 23 27.6	18.5 809	1993 RS <sub>5</sub>	1993 09 17.22986	00 27 00.87	+05 58 35.8	809
1993 RK <sub>5</sub>	1993 09 15.14097	00 27 59.48	+05 23 23.5	809	1993 RS <sub>5</sub>	1993 09 17.24028	00 27 00.30	+05 58 32.3	809
1993 RK <sub>5</sub>	1993 09 15.15139	00 27 59.00	+05 23 20.4	809	1993 RT <sub>5</sub>	* 1993 09 15.13056	00 29 23.27	+02 27 26.8	18.2 809
1993 RK <sub>5</sub>	1993 09 17.21944	00 26 10.23	+05 10 02.7	809	1993 RT <sub>5</sub>	1993 09 15.14097	00 29 22.60	+02 27 28.0	809
1993 RK <sub>5</sub>	1993 09 17.22986	00 26 09.54	+05 09 58.5	809	1993 RT <sub>5</sub>	1993 09 15.15139	00 29 22.04	+02 27 28.6	809

1993 RT <sub>5</sub>	1993 09 17.21944	00 27 33.53	+02 29 23.9	809	1993 RC <sub>6</sub>	1993 09 15.14097	00 31 09.96	+04 53 59.4	809
1993 RT <sub>5</sub>	1993 09 17.22986	00 27 32.97	+02 29 24.1	809	1993 RC <sub>6</sub>	1993 09 15.15139	00 31 09.44	+04 53 56.6	809
1993 RT <sub>5</sub>	1993 09 17.24028	00 27 32.35	+02 29 23.6	809	1993 RC <sub>6</sub>	1993 09 17.21944	00 29 38.42	+04 45 06.8	809
1993 RU <sub>5</sub>	* 1993 09 15.13056	00 29 27.44	+05 09 57.3	18.7	1993 RC <sub>6</sub>	1993 09 17.22986	00 29 37.83	+04 45 04.2	809
1993 RU <sub>5</sub>	1993 09 15.14097	00 29 26.82	+05 09 54.6	809	1993 RC <sub>6</sub>	1993 09 17.24028	00 29 37.25	+04 45 01.7	809
1993 RU <sub>5</sub>	1993 09 15.15139	00 29 26.20	+05 09 51.9	809	1993 RD <sub>6</sub>	* 1993 09 15.13056	00 31 14.40	+04 28 05.5	18.4
1993 RU <sub>5</sub>	1993 09 17.21944	00 27 41.42	+05 01 00.5	809	1993 RD <sub>6</sub>	1993 09 15.14097	00 31 13.89	+04 28 01.6	809
1993 RU <sub>5</sub>	1993 09 17.22986	00 27 40.80	+05 00 57.4	809	1993 RD <sub>6</sub>	1993 09 15.15139	00 31 13.37	+04 27 56.5	809
1993 RU <sub>5</sub>	1993 09 17.24028	00 27 40.18	+05 00 54.8	809	1993 RD <sub>6</sub>	1993 09 17.21944	00 29 43.51	+04 14 19.2	809
1993 RV <sub>5</sub>	* 1993 09 15.13056	00 29 38.54	+03 54 41.7	18.6	1993 RD <sub>6</sub>	1993 09 17.22986	00 29 42.94	+04 14 13.9	809
1993 RV <sub>5</sub>	1993 09 15.14097	00 29 38.08	+03 54 37.5	809	1993 RD <sub>6</sub>	1993 09 17.24028	00 29 42.48	+04 14 11.7	809
1993 RV <sub>5</sub>	1993 09 15.15139	00 29 37.45	+03 54 32.5	809	1993 RE <sub>6</sub>	* 1993 09 15.13056	00 31 36.45	+03 10 00.2	18.7
1993 RV <sub>5</sub>	1993 09 17.21944	00 28 01.21	+03 42 25.6	809	1993 RE <sub>6</sub>	1993 09 15.14097	00 31 36.00	+03 09 55.3	809
1993 RV <sub>5</sub>	1993 09 17.22986	00 28 00.73	+03 42 22.3	809	1993 RE <sub>6</sub>	1993 09 15.15139	00 31 35.54	+03 09 51.7	809
1993 RV <sub>5</sub>	1993 09 17.24028	00 28 00.25	+03 42 18.3	809	1993 RE <sub>6</sub>	1993 09 17.21944	00 30 09.66	+02 55 02.5	809
1993 RW <sub>5</sub>	* 1993 09 15.13056	00 29 39.96	+05 03 09.4	18.5	1993 RE <sub>6</sub>	1993 09 17.22986	00 30 09.20	+02 54 58.0	809
1993 RW <sub>5</sub>	1993 09 15.14097	00 29 39.41	+05 03 08.1	809	1993 RE <sub>6</sub>	1993 09 17.24028	00 30 08.60	+02 54 51.8	809
1993 RW <sub>5</sub>	1993 09 15.15139	00 29 38.83	+05 03 05.4	809	1993 RF <sub>6</sub>	* 1993 09 15.13056	00 31 40.87	+05 11 38.1	18.2
1993 RW <sub>5</sub>	1993 09 17.21944	00 27 52.50	+04 53 42.7	809	1993 RF <sub>6</sub>	1993 09 15.14097	00 31 40.43	+05 11 32.7	809
1993 RW <sub>5</sub>	1993 09 17.22986	00 27 51.83	+04 53 41.8	809	1993 RF <sub>6</sub>	1993 09 15.15139	00 31 40.00	+05 11 24.6	809
1993 RW <sub>5</sub>	1993 09 17.24028	00 27 51.37	+04 53 38.7	809	1993 RF <sub>6</sub>	1993 09 17.21944	00 30 19.57	+04 49 09.9	809
1993 RX <sub>5</sub>	* 1993 09 15.13056	00 29 46.74	+04 07 09.2	18.3	1993 RF <sub>6</sub>	1993 09 17.22986	00 30 19.22	+04 49 04.0	809
1993 RX <sub>5</sub>	1993 09 15.14097	00 29 46.14	+04 07 04.5	809	1993 RF <sub>6</sub>	1993 09 17.24028	00 30 18.69	+04 48 56.1	809
1993 RX <sub>5</sub>	1993 09 15.15139	00 29 45.52	+04 06 59.3	809	1993 RG <sub>6</sub>	* 1993 09 15.13056	00 31 46.76	+05 25 46.2	18.5
1993 RX <sub>5</sub>	1993 09 17.21944	00 27 59.32	+03 52 18.4	809	1993 RG <sub>6</sub>	1993 09 15.14097	00 31 46.17	+05 25 44.3	809
1993 RX <sub>5</sub>	1993 09 17.22986	00 27 58.54	+03 52 13.5	809	1993 RG <sub>6</sub>	1993 09 15.15139	00 31 45.68	+05 25 42.3	809
1993 RX <sub>5</sub>	1993 09 17.24028	00 27 58.01	+03 52 08.8	809	1993 RG <sub>6</sub>	1993 09 17.21944	00 30 15.76	+05 20 12.2	809
1993 RY <sub>5</sub>	* 1993 09 15.13056	00 29 52.52	+07 03 52.6	18.3	1993 RG <sub>6</sub>	1993 09 17.22986	00 30 15.19	+05 20 09.8	809
1993 RY <sub>5</sub>	1993 09 15.14097	00 29 51.98	+07 03 45.4	809	1993 RG <sub>6</sub>	1993 09 17.24028	00 30 14.65	+05 20 08.8	809
1993 RY <sub>5</sub>	1993 09 15.15139	00 29 51.45	+07 03 40.5	809	1993 RH <sub>6</sub>	* 1993 09 15.13056	00 31 59.24	+05 41 55.9	18.2
1993 RY <sub>5</sub>	1993 09 17.21944	00 28 24.64	+06 42 47.0	809	1993 RH <sub>6</sub>	1993 09 15.14097	00 31 58.67	+05 41 53.4	809
1993 RY <sub>5</sub>	1993 09 17.22986	00 28 24.16	+06 42 39.4	809	1993 RH <sub>6</sub>	1993 09 15.15139	00 31 58.23	+05 41 50.9	809
1993 RY <sub>5</sub>	1993 09 17.24028	00 28 23.66	+06 42 33.6	809	1993 RH <sub>6</sub>	1993 09 17.21944	00 30 21.94	+05 31 43.5	809
1993 RZ <sub>5</sub>	* 1993 09 15.13056	00 30 03.78	+04 55 28.5	18.2	1993 RH <sub>6</sub>	1993 09 17.22986	00 30 21.46	+05 31 41.2	809
1993 RZ <sub>5</sub>	1993 09 15.14097	00 30 03.20	+04 55 24.3	809	1993 RH <sub>6</sub>	1993 09 17.24028	00 30 20.84	+05 31 37.7	809
1993 RZ <sub>5</sub>	1993 09 15.15139	00 30 02.67	+04 55 20.9	809	1993 RJ <sub>6</sub>	* 1993 09 15.13056	00 31 59.99	+05 31 55.1	18.3
1993 RZ <sub>5</sub>	1993 09 17.21944	00 28 27.80	+04 42 40.5	809	1993 RJ <sub>6</sub>	1993 09 15.14097	00 31 59.32	+05 31 57.5	809
1993 RZ <sub>5</sub>	1993 09 17.22986	00 28 27.23	+04 42 36.9	809	1993 RJ <sub>6</sub>	1993 09 15.15139	00 31 58.75	+05 31 59.3	809
1993 RZ <sub>5</sub>	1993 09 17.24028	00 28 26.70	+04 42 32.8	809	1993 RJ <sub>6</sub>	1993 09 17.21944	00 30 12.59	+05 38 19.3	809
1993 RA <sub>6</sub>	* 1993 09 15.13056	00 30 45.79	+04 55 23.1	18.6	1993 RJ <sub>6</sub>	1993 09 17.22986	00 30 12.02	+05 38 20.8	809
1993 RA <sub>6</sub>	1993 09 15.14097	00 30 45.28	+04 55 19.0	809	1993 RJ <sub>6</sub>	1993 09 17.24028	00 30 11.48	+05 38 21.4	809
1993 RA <sub>6</sub>	1993 09 15.15139	00 30 44.75	+04 55 16.0	809	1993 RK <sub>6</sub>	* 1993 09 15.13056	00 32 00.97	+07 09 28.0	18.4
1993 RA <sub>6</sub>	1993 09 17.21944	00 28 58.25	+04 44 33.6	809	1993 RK <sub>6</sub>	1993 09 15.14097	00 32 00.33	+07 09 28.3	809
1993 RA <sub>6</sub>	1993 09 17.22986	00 28 57.63	+04 44 29.5	809	1993 RK <sub>6</sub>	1993 09 15.15139	00 31 59.68	+07 09 27.9	809
1993 RA <sub>6</sub>	1993 09 17.24028	00 28 57.03	+04 44 26.6	809	1993 RK <sub>6</sub>	1993 09 17.21944	00 29 59.62	+07 10 00.0	809
1993 RB <sub>6</sub>	* 1993 09 15.13056	00 31 00.83	+07 39 21.4	18.6	1993 RK <sub>6</sub>	1993 09 17.22986	00 29 58.89	+07 09 59.0	809
1993 RB <sub>6</sub>	1993 09 15.14097	00 31 00.35	+07 39 18.0	809	1993 RK <sub>6</sub>	1993 09 17.24028	00 29 58.38	+07 10 00.6	809
1993 RB <sub>6</sub>	1993 09 15.15139	00 30 59.98	+07 39 15.4	809	1993 RL <sub>6</sub>	* 1993 09 15.13056	00 32 02.36	+04 06 03.5	18.2
1993 RB <sub>6</sub>	1993 09 17.21944	00 29 41.32	+07 28 59.3	809	1993 RL <sub>6</sub>	1993 09 15.14097	00 32 01.85	+04 05 58.8	809
1993 RB <sub>6</sub>	1993 09 17.22986	00 29 40.93	+07 28 55.2	809	1993 RL <sub>6</sub>	1993 09 15.15139	00 32 01.32	+04 05 53.9	809
1993 RB <sub>6</sub>	1993 09 17.24028	00 29 40.44	+07 28 52.5	809	1993 RL <sub>6</sub>	1993 09 17.21944	00 30 28.12	+03 49 55.8	809
1993 RC <sub>6</sub>	* 1993 09 15.13056	00 31 10.52	+04 54 02.4	18.1	1993 RL <sub>6</sub>	1993 09 17.22986	00 30 27.58	+03 49 51.5	809

1993 RL <sub>6</sub>	1993 09 17.24028	00 30 27.10	+03 49 47.0		809	1993 RU <sub>6</sub>	1993 09 17.21944	00 31 22.85	+02 45 49.1		809
1993 RM <sub>6</sub>	* 1993 09 15.13056	00 32 03.88	+04 29 53.6	18.7	809	1993 RU <sub>6</sub>	1993 09 17.22986	00 31 22.26	+02 45 48.6		809
1993 RM <sub>6</sub>	1993 09 15.14097	00 32 03.47	+04 29 48.2		809	1993 RU <sub>6</sub>	1993 09 17.24028	00 31 21.57	+02 45 47.3		809
1993 RM <sub>6</sub>	1993 09 15.15139	00 32 02.92	+04 29 44.6		809	1993 RV <sub>6</sub>	* 1993 09 15.13056	00 33 41.95	+06 40 33.3	18.2	809
1993 RM <sub>6</sub>	1993 09 17.21944	00 30 39.63	+04 15 41.2		809	1993 RV <sub>6</sub>	1993 09 15.14097	00 33 41.33	+06 40 35.1		809
1993 RM <sub>6</sub>	1993 09 17.22986	00 30 39.07	+04 15 35.1		809	1993 RV <sub>6</sub>	1993 09 15.15139	00 33 40.58	+06 40 37.5		809
1993 RM <sub>6</sub>	1993 09 17.24028	00 30 38.61	+04 15 32.0		809	1993 RV <sub>6</sub>	1993 09 17.21944	00 31 34.03	+06 47 31.1		809
1993 RN <sub>6</sub>	* 1993 09 15.13056	00 32 09.21	+06 22 44.2	18.2	809	1993 RV <sub>6</sub>	1993 09 17.22986	00 31 33.40	+06 47 32.8		809
1993 RN <sub>6</sub>	1993 09 15.14097	00 32 08.83	+06 22 37.6		809	1993 RV <sub>6</sub>	1993 09 17.24028	00 31 32.73	+06 47 34.8		809
1993 RN <sub>6</sub>	1993 09 15.15139	00 32 08.42	+06 22 31.6		809	1993 RW <sub>6</sub>	* 1993 09 15.13056	00 33 43.32	+05 50 34.3	18.2	809
1993 RN <sub>6</sub>	1993 09 17.21944	00 30 54.26	+06 01 15.5		809	1993 RW <sub>6</sub>	1993 09 15.14097	00 33 42.81	+05 50 30.8		809
1993 RN <sub>6</sub>	1993 09 17.22986	00 30 53.81	+06 01 07.9		809	1993 RW <sub>6</sub>	1993 09 15.15139	00 33 42.31	+05 50 28.5		809
1993 RN <sub>6</sub>	1993 09 17.24028	00 30 53.48	+06 01 02.8		809	1993 RW <sub>6</sub>	1993 09 17.21944	00 32 12.31	+05 39 48.9		809
1993 RO <sub>6</sub>	* 1993 09 15.13056	00 32 10.35	+04 27 08.4	18.6	809	1993 RW <sub>6</sub>	1993 09 17.22986	00 32 11.80	+05 39 45.6		809
1993 RO <sub>6</sub>	1993 09 15.14097	00 32 09.74	+04 27 04.2		809	1993 RW <sub>6</sub>	1993 09 17.24028	00 32 11.25	+05 39 42.7		809
1993 RO <sub>6</sub>	1993 09 15.15139	00 32 09.31	+04 27 01.5		809	1993 RX <sub>6</sub>	* 1993 09 15.13056	00 33 43.71	+07 29 17.2	18.3	809
1993 RO <sub>6</sub>	1993 09 17.21944	00 30 29.51	+04 17 42.7		809	1993 RX <sub>6</sub>	1993 09 15.14097	00 33 43.12	+07 29 16.7		809
1993 RO <sub>6</sub>	1993 09 17.22986	00 30 29.01	+04 17 40.3		809	1993 RX <sub>6</sub>	1993 09 15.15139	00 33 42.56	+07 29 16.7		809
1993 RO <sub>6</sub>	1993 09 17.24028	00 30 28.41	+04 17 38.1		809	1993 RX <sub>6</sub>	1993 09 17.21944	00 32 01.58	+07 26 56.8		809
1993 RP <sub>6</sub>	* 1993 09 15.13056	00 32 30.55	+05 48 58.8	18.3	809	1993 RX <sub>6</sub>	1993 09 17.22986	00 32 01.07	+07 26 56.2		809
1993 RP <sub>6</sub>	1993 09 15.14097	00 32 29.91	+05 48 57.1		809	1993 RX <sub>6</sub>	1993 09 17.24028	00 32 00.46	+07 26 53.6		809
1993 RP <sub>6</sub>	1993 09 15.15139	00 32 29.32	+05 48 54.6		809	1993 RY <sub>6</sub>	* 1993 09 15.13056	00 33 54.41	+07 09 18.2	18.1	809
1993 RP <sub>6</sub>	1993 09 17.21944	00 30 35.00	+05 41 43.5		809	1993 RY <sub>6</sub>	1993 09 15.14097	00 33 53.84	+07 09 14.5		809
1993 RP <sub>6</sub>	1993 09 17.22986	00 30 34.32	+05 41 41.1		809	1993 RY <sub>6</sub>	1993 09 15.15139	00 33 53.40	+07 09 09.4		809
1993 RP <sub>6</sub>	1993 09 17.24028	00 30 33.65	+05 41 38.2		809	1993 RY <sub>6</sub>	1993 09 17.21944	00 32 19.69	+06 53 20.2		809
1993 RQ <sub>6</sub>	* 1993 09 15.13056	00 32 46.48	+04 57 33.1	18.1	809	1993 RY <sub>6</sub>	1993 09 17.22986	00 32 19.15	+06 53 15.3		809
1993 RQ <sub>6</sub>	1993 09 15.14097	00 32 46.04	+04 57 31.1		809	1993 RY <sub>6</sub>	1993 09 17.24028	00 32 18.61	+06 53 10.9		809
1993 RQ <sub>6</sub>	1993 09 15.15139	00 32 45.58	+04 57 29.9		809	1993 RZ <sub>6</sub>	* 1993 09 15.13056	00 34 05.49	+04 50 37.2	18.3	809
1993 RQ <sub>6</sub>	1993 09 17.21944	00 31 17.50	+04 49 27.6		809	1993 RZ <sub>6</sub>	1993 09 15.14097	00 34 04.87	+04 50 35.4		809
1993 RQ <sub>6</sub>	1993 09 17.22986	00 31 17.01	+04 49 24.9		809	1993 RZ <sub>6</sub>	1993 09 15.15139	00 34 04.31	+04 50 33.8		809
1993 RQ <sub>6</sub>	1993 09 17.24028	00 31 16.54	+04 49 22.8		809	1993 RZ <sub>6</sub>	1993 09 17.21944	00 32 15.15	+04 45 31.8		809
1993 RR <sub>6</sub>	* 1993 09 15.13056	00 32 59.76	+05 16 52.0	18.6	809	1993 RZ <sub>6</sub>	1993 09 17.22986	00 32 14.58	+04 45 30.5		809
1993 RR <sub>6</sub>	1993 09 15.14097	00 32 59.28	+05 16 49.1		809	1993 RZ <sub>6</sub>	1993 09 17.24028	00 32 13.98	+04 45 28.8		809
1993 RR <sub>6</sub>	1993 09 15.15139	00 32 58.79	+05 16 46.9		809	1993 RA <sub>7</sub>	* 1993 09 15.13056	00 34 10.46	+05 46 42.6	18.3	809
1993 RR <sub>6</sub>	1993 09 17.21944	00 31 34.46	+05 09 38.5		809	1993 RA <sub>7</sub>	1993 09 15.14097	00 34 09.87	+05 46 40.3		809
1993 RR <sub>6</sub>	1993 09 17.22986	00 31 34.07	+05 09 37.1		809	1993 RA <sub>7</sub>	1993 09 15.15139	00 34 09.38	+05 46 38.1		809
1993 RR <sub>6</sub>	1993 09 17.24028	00 31 33.47	+05 09 34.3		809	1993 RA <sub>7</sub>	1993 09 17.21944	00 32 30.62	+05 37 48.1		809
1993 RS <sub>6</sub>	* 1993 09 15.13056	00 33 03.18	+07 35 23.4	18.4	809	1993 RA <sub>7</sub>	1993 09 17.22986	00 32 30.05	+05 37 45.2		809
1993 RS <sub>6</sub>	1993 09 15.14097	00 33 02.67	+07 35 21.0		809	1993 RA <sub>7</sub>	1993 09 17.24028	00 32 29.58	+05 37 42.2		809
1993 RS <sub>6</sub>	1993 09 15.15139	00 33 02.17	+07 35 18.5		809	1993 RB <sub>7</sub>	* 1993 09 15.13056	00 34 16.43	+05 29 16.4	18.0	809
1993 RS <sub>6</sub>	1993 09 17.21944	00 31 27.85	+07 25 23.0		809	1993 RB <sub>7</sub>	1993 09 15.14097	00 34 15.81	+05 29 10.2		809
1993 RS <sub>6</sub>	1993 09 17.22986	00 31 27.35	+07 25 19.9		809	1993 RB <sub>7</sub>	1993 09 15.15139	00 34 15.41	+05 29 05.6		809
1993 RS <sub>6</sub>	1993 09 17.24028	00 31 26.85	+07 25 16.7		809	1993 RB <sub>7</sub>	1993 09 17.21944	00 32 42.54	+05 11 31.3		809
1993 RT <sub>6</sub>	* 1993 09 15.13056	00 33 06.74	+05 18 50.9	18.6	809	1993 RB <sub>7</sub>	1993 09 17.22986	00 32 41.99	+05 11 25.7		809
1993 RT <sub>6</sub>	1993 09 15.14097	00 33 06.26	+05 18 47.8		809	1993 RB <sub>7</sub>	1993 09 17.24028	00 32 41.46	+05 11 20.8		809
1993 RT <sub>6</sub>	1993 09 15.15139	00 33 05.79	+05 18 46.0		809	1993 RC <sub>7</sub>	* 1993 09 15.13056	00 34 20.66	+04 53 57.6	18.6	809
1993 RT <sub>6</sub>	1993 09 17.21944	00 31 38.20	+05 09 29.7		809	1993 RC <sub>7</sub>	1993 09 15.14097	00 34 20.03	+04 53 55.0		809
1993 RT <sub>6</sub>	1993 09 17.22986	00 31 37.79	+05 09 26.3		809	1993 RC <sub>7</sub>	1993 09 15.15139	00 34 19.48	+04 53 52.6		809
1993 RT <sub>6</sub>	1993 09 17.24028	00 31 37.28	+05 09 23.7		809	1993 RC <sub>7</sub>	1993 09 17.21944	00 32 37.51	+04 45 13.7		809
1993 RU <sub>6</sub>	* 1993 09 15.13056	00 33 12.90	+02 45 56.2	18.2	809	1993 RC <sub>7</sub>	1993 09 17.22986	00 32 36.93	+04 45 11.6		809
1993 RU <sub>6</sub>	1993 09 15.14097	00 33 12.16	+02 45 56.6		809	1993 RC <sub>7</sub>	1993 09 17.24028	00 32 36.41	+04 45 09.0		809
1993 RU <sub>6</sub>	1993 09 15.15139	00 33 11.56	+02 45 56.5		809	1993 RD <sub>7</sub>	* 1993 09 15.13056	00 34 40.61	+06 18 37.9	18.2	809

1993 RD <sub>7</sub>	1993 09 15.14097	00 34 40.21	+06 18 34.7	809	1993 RM <sub>7</sub>	1993 09 17.24028	00 33 55.81	+04 21 18.0	809
1993 RD <sub>7</sub>	1993 09 15.15139	00 34 39.80	+06 18 31.3	809	1993 RN <sub>7</sub>	* 1993 09 15.13056	00 35 53.55	+06 18 59.6	18.0 809
1993 RD <sub>7</sub>	1993 09 17.21944	00 33 24.43	+06 07 31.6	809	1993 RN <sub>7</sub>	1993 09 15.14097	00 35 53.01	+06 18 55.2	809
1993 RD <sub>7</sub>	1993 09 17.22986	00 33 24.06	+06 07 28.4	809	1993 RN <sub>7</sub>	1993 09 15.15139	00 35 52.59	+06 18 52.4	809
1993 RD <sub>7</sub>	1993 09 17.24028	00 33 23.57	+06 07 25.6	809	1993 RN <sub>7</sub>	1993 09 17.21944	00 34 24.51	+06 06 50.2	809
1993 RE <sub>7</sub>	* 1993 09 15.13056	00 34 44.58	+03 42 36.7	18.1 809	1993 RN <sub>7</sub>	1993 09 17.22986	00 34 23.98	+06 06 45.9	809
1993 RE <sub>7</sub>	1993 09 15.14097	00 34 43.86	+03 42 36.3	809	1993 RN <sub>7</sub>	1993 09 17.24028	00 34 23.43	+06 06 43.0	809
1993 RE <sub>7</sub>	1993 09 15.15139	00 34 43.19	+03 42 37.6	809	1993 RO <sub>7</sub>	* 1993 09 15.13056	00 36 08.16	+02 58 47.8	18.5 809
1993 RE <sub>7</sub>	1993 09 17.21944	00 32 37.86	+03 44 38.2	809	1993 RO <sub>7</sub>	1993 09 15.14097	00 36 07.53	+02 58 44.5	809
1993 RE <sub>7</sub>	1993 09 17.22986	00 32 37.31	+03 44 38.6	809	1993 RO <sub>7</sub>	1993 09 15.15139	00 36 06.93	+02 58 42.9	809
1993 RE <sub>7</sub>	1993 09 17.24028	00 32 36.47	+03 44 38.9	809	1993 RO <sub>7</sub>	1993 09 17.21944	00 34 28.16	+02 51 45.8	809
1993 RF <sub>7</sub>	* 1993 09 15.13056	00 34 45.46	+07 11 49.7	18.2 809	1993 RO <sub>7</sub>	1993 09 17.22986	00 34 27.68	+02 51 42.9	809
1993 RF <sub>7</sub>	1993 09 15.14097	00 34 45.02	+07 11 48.0	809	1993 RO <sub>7</sub>	1993 09 17.24028	00 34 27.08	+02 51 42.6	809
1993 RF <sub>7</sub>	1993 09 15.15139	00 34 44.49	+07 11 44.6	809	1993 RP <sub>7</sub>	* 1993 09 15.13056	00 36 41.39	+05 20 24.7	18.6 809
1993 RF <sub>7</sub>	1993 09 17.21944	00 33 13.79	+07 02 59.3	809	1993 RP <sub>7</sub>	1993 09 15.14097	00 36 40.94	+05 20 21.1	809
1993 RF <sub>7</sub>	1993 09 17.22986	00 33 13.24	+07 02 57.3	809	1993 RP <sub>7</sub>	1993 09 15.15139	00 36 40.39	+05 20 16.8	809
1993 RF <sub>7</sub>	1993 09 17.24028	00 33 12.74	+07 02 54.6	809	1993 RP <sub>7</sub>	1993 09 17.21944	00 35 13.03	+05 06 58.8	809
1993 RG <sub>7</sub>	* 1993 09 15.13056	00 34 49.59	+03 19 51.5	18.5 809	1993 RP <sub>7</sub>	1993 09 17.22986	00 35 12.48	+05 06 55.5	809
1993 RG <sub>7</sub>	1993 09 15.14097	00 34 49.00	+03 19 52.3	809	1993 RP <sub>7</sub>	1993 09 17.24028	00 35 12.02	+05 06 52.1	809
1993 RG <sub>7</sub>	1993 09 15.15139	00 34 48.36	+03 19 53.6	809	1993 RQ <sub>7</sub>	* 1993 09 15.13056	00 36 51.26	+03 34 32.9	18.5 809
1993 RG <sub>7</sub>	1993 09 17.21944	00 32 55.03	+03 21 29.7	809	1993 RQ <sub>7</sub>	1993 09 15.14097	00 36 50.72	+03 34 29.0	809
1993 RG <sub>7</sub>	1993 09 17.22986	00 32 54.35	+03 21 29.7	809	1993 RQ <sub>7</sub>	1993 09 15.15139	00 36 50.16	+03 34 24.3	809
1993 RG <sub>7</sub>	1993 09 17.24028	00 32 53.68	+03 21 30.5	809	1993 RQ <sub>7</sub>	1993 09 17.21944	00 35 06.21	+03 19 34.5	809
1993 RH <sub>7</sub>	* 1993 09 15.13056	00 35 05.84	+03 33 52.7	18.6 809	1993 RQ <sub>7</sub>	1993 09 17.22986	00 35 05.64	+03 19 30.9	809
1993 RH <sub>7</sub>	1993 09 15.14097	00 35 05.13	+03 33 50.0	809	1993 RQ <sub>7</sub>	1993 09 17.24028	00 35 05.15	+03 19 26.4	809
1993 RH <sub>7</sub>	1993 09 15.15139	00 35 04.48	+03 33 48.0	809	1993 RR <sub>7</sub>	* 1993 09 15.13056	00 37 10.84	+05 08 44.8	18.5 809
1993 RH <sub>7</sub>	1993 09 17.21944	00 33 05.86	+03 26 42.8	809	1993 RR <sub>7</sub>	1993 09 15.14097	00 37 10.33	+05 08 40.9	809
1993 RH <sub>7</sub>	1993 09 17.22986	00 33 05.19	+03 26 41.1	809	1993 RR <sub>7</sub>	1993 09 15.15139	00 37 09.83	+05 08 35.2	809
1993 RH <sub>7</sub>	1993 09 17.24028	00 33 04.66	+03 26 37.7	809	1993 RR <sub>7</sub>	1993 09 17.21944	00 35 45.14	+04 52 57.7	809
1993 RJ <sub>7</sub>	* 1993 09 15.13056	00 35 26.41	+05 25 11.7	18.3 809	1993 RR <sub>7</sub>	1993 09 17.22986	00 35 44.61	+04 52 51.8	809
1993 RJ <sub>7</sub>	1993 09 15.14097	00 35 25.78	+05 25 08.3	809	1993 RR <sub>7</sub>	1993 09 17.24028	00 35 44.15	+04 52 47.8	809
1993 RJ <sub>7</sub>	1993 09 15.15139	00 35 25.21	+05 25 06.7	809	1993 RS <sub>7</sub>	* 1993 09 15.13056	00 37 22.81	+04 28 50.1	18.4 809
1993 RJ <sub>7</sub>	1993 09 17.21944	00 33 42.30	+05 17 01.7	809	1993 RS <sub>7</sub>	1993 09 15.14097	00 37 22.46	+04 28 46.5	809
1993 RJ <sub>7</sub>	1993 09 17.22986	00 33 41.68	+05 16 59.9	809	1993 RS <sub>7</sub>	1993 09 15.15139	00 37 22.13	+04 28 45.5	809
1993 RJ <sub>7</sub>	1993 09 17.24028	00 33 41.05	+05 16 57.4	809	1993 RS <sub>7</sub>	1993 09 17.21944	00 36 08.60	+04 18 57.2	809
1993 RK <sub>7</sub>	* 1993 09 15.13056	00 35 27.98	+03 37 23.0	18.5 809	1993 RS <sub>7</sub>	1993 09 17.22986	00 36 08.05	+04 18 53.2	809
1993 RK <sub>7</sub>	1993 09 15.14097	00 35 27.54	+03 37 21.0	809	1993 RS <sub>7</sub>	1993 09 17.24028	00 36 07.62	+04 18 49.6	809
1993 RK <sub>7</sub>	1993 09 15.15139	00 35 26.92	+03 37 18.0	809	1993 RT <sub>7</sub>	* 1993 09 15.13056	00 37 39.76	+06 49 29.8	18.3 809
1993 RK <sub>7</sub>	1993 09 17.21944	00 33 37.47	+03 27 56.8	809	1993 RT <sub>7</sub>	1993 09 15.14097	00 37 39.27	+06 49 28.5	809
1993 RK <sub>7</sub>	1993 09 17.22986	00 33 36.78	+03 27 53.8	809	1993 RT <sub>7</sub>	1993 09 15.15139	00 37 38.65	+06 49 26.5	809
1993 RK <sub>7</sub>	1993 09 17.24028	00 33 36.13	+03 27 50.2	809	1993 RT <sub>7</sub>	1993 09 17.21944	00 36 02.55	+06 43 01.4	809
1993 RL <sub>7</sub>	* 1993 09 15.13056	00 35 44.30	+03 10 15.4	18.6 809	1993 RT <sub>7</sub>	1993 09 17.22986	00 36 02.00	+06 42 59.4	809
1993 RL <sub>7</sub>	1993 09 15.14097	00 35 43.94	+03 10 12.7	809	1993 RT <sub>7</sub>	1993 09 17.24028	00 36 01.38	+06 42 58.3	809
1993 RL <sub>7</sub>	1993 09 15.15139	00 35 43.66	+03 10 09.5	809	1993 RU <sub>7</sub>	* 1993 09 15.13056	00 37 53.69	+06 38 00.0	18.3 809
1993 RL <sub>7</sub>	1993 09 17.21944	00 34 17.84	+03 00 19.4	809	1993 RU <sub>7</sub>	1993 09 15.14097	00 37 53.16	+06 37 58.0	809
1993 RL <sub>7</sub>	1993 09 17.22986	00 34 17.28	+03 00 17.0	809	1993 RU <sub>7</sub>	1993 09 15.15139	00 37 52.61	+06 37 55.3	809
1993 RL <sub>7</sub>	1993 09 17.24028	00 34 16.82	+03 00 12.6	809	1993 RU <sub>7</sub>	1993 09 17.21944	00 36 13.11	+06 28 54.8	809
1993 RM <sub>7</sub>	* 1993 09 15.13056	00 35 45.03	+04 33 19.6	18.4 809	1993 RU <sub>7</sub>	1993 09 17.22986	00 36 12.56	+06 28 50.3	809
1993 RM <sub>7</sub>	1993 09 15.14097	00 35 44.45	+04 33 16.1	809	1993 RU <sub>7</sub>	1993 09 17.24028	00 36 12.01	+06 28 48.2	809
1993 RM <sub>7</sub>	1993 09 15.15139	00 35 43.81	+04 33 11.7	809	1993 RV <sub>7</sub>	* 1993 09 15.13056	00 38 23.35	+05 08 27.1	18.2 809
1993 RM <sub>7</sub>	1993 09 17.21944	00 33 57.07	+04 21 26.1	809	1993 RV <sub>7</sub>	1993 09 15.14097	00 38 22.80	+05 08 25.9	809
1993 RM <sub>7</sub>	1993 09 17.22986	00 33 56.59	+04 21 21.9	809	1993 RV <sub>7</sub>	1993 09 15.15139	00 38 22.17	+05 08 24.9	809

1993 RV <sub>7</sub>	1993 09 17.21944	00 36 36.42	+05 03 27.8		809	1993 SJ <sub>3</sub>	1993 09 15.14097	00 21 05.51	+06 13 20.6		809
1993 RV <sub>7</sub>	1993 09 17.22986	00 36 35.77	+05 03 26.2		809	1993 SJ <sub>3</sub>	1993 09 15.15139	00 21 04.98	+06 13 16.4		809
1993 RV <sub>7</sub>	1993 09 17.24028	00 36 35.22	+05 03 25.4		809	1993 SJ <sub>3</sub>	1993 09 17.21944	00 19 23.75	+05 57 31.4		809
1993 RW <sub>7</sub>	* 1993 09 15.13056	00 38 30.22	+05 24 52.5	18.3	809	1993 SJ <sub>3</sub>	1993 09 17.22986	00 19 23.13	+05 57 26.4		809
1993 RW <sub>7</sub>	1993 09 15.14097	00 38 29.87	+05 24 48.6		809	1993 SJ <sub>3</sub>	1993 09 17.24028	00 19 22.66	+05 57 22.0		809
1993 RW <sub>7</sub>	1993 09 15.15139	00 38 29.54	+05 24 45.4		809	1993 SK <sub>3</sub>	1993 09 15.13056	00 25 41.64	+05 44 28.1	18.2	809
1993 RW <sub>7</sub>	1993 09 17.21944	00 37 21.21	+05 11 55.4		809	1993 SK <sub>3</sub>	1993 09 15.14097	00 25 41.15	+05 44 25.7		809
1993 RW <sub>7</sub>	1993 09 17.22986	00 37 20.86	+05 11 51.6		809	1993 SK <sub>3</sub>	1993 09 15.15139	00 25 40.62	+05 44 23.6		809
1993 RW <sub>7</sub>	1993 09 17.24028	00 37 20.48	+05 11 48.4		809	1993 SK <sub>3</sub>	1993 09 17.21944	00 24 13.67	+05 36 58.0		809
1993 RX <sub>7</sub>	* 1993 09 15.13056	00 38 38.62	+05 26 54.0	18.7	809	1993 SK <sub>3</sub>	1993 09 17.22986	00 24 13.17	+05 36 56.7		809
1993 RX <sub>7</sub>	1993 09 15.14097	00 38 38.15	+05 26 49.7		809	1993 SK <sub>3</sub>	1993 09 17.24028	00 24 12.82	+05 36 54.0		809
1993 RX <sub>7</sub>	1993 09 15.15139	00 38 37.70	+05 26 46.7		809	1993 SM <sub>3</sub>	1993 10 09.14861	01 23 24.97	+05 58 29.0	18.1	809
1993 RX <sub>7</sub>	1993 09 17.21944	00 37 22.01	+05 14 32.4		809	1993 SM <sub>3</sub>	1993 10 09.16181	01 23 24.32	+05 58 25.1		809
1993 RX <sub>7</sub>	1993 09 17.22986	00 37 21.62	+05 14 29.7		809	1993 SM <sub>3</sub>	1993 10 09.17500	01 23 23.70	+05 58 21.4		809
1993 RX <sub>7</sub>	1993 09 17.24028	00 37 21.07	+05 14 25.8		809	1993 SM <sub>3</sub>	1993 10 11.11319	01 21 57.73	+05 48 43.7		809
1993 RY <sub>7</sub>	* 1993 09 15.13056	00 38 50.40	+06 19 28.3	18.5	809	1993 SM <sub>3</sub>	1993 10 11.12639	01 21 57.12	+05 48 40.0		809
1993 RY <sub>7</sub>	1993 09 15.14097	00 38 49.85	+06 19 24.8		809	1993 SM <sub>3</sub>	1993 10 11.13958	01 21 56.44	+05 48 36.3		809
1993 RY <sub>7</sub>	1993 09 15.15139	00 38 49.23	+06 19 22.6		809	1993 SR <sub>3</sub>	1993 10 09.14861	01 20 12.12	+03 32 46.9	17.0	809
1993 RY <sub>7</sub>	1993 09 17.21944	00 37 03.29	+06 09 06.6		809	1993 SR <sub>3</sub>	1993 10 09.16181	01 20 11.50	+03 32 35.3		809
1993 RY <sub>7</sub>	1993 09 17.22986	00 37 02.71	+06 09 05.1		809	1993 SR <sub>3</sub>	1993 10 09.17500	01 20 10.87	+03 32 22.1		809
1993 RY <sub>7</sub>	1993 09 17.24028	00 37 02.14	+06 09 00.8		809	1993 SR <sub>3</sub>	1993 10 11.11319	01 18 53.85	+03 02 27.7		809
1993 RZ <sub>7</sub>	* 1993 09 15.13056	00 38 53.12	+03 30 23.4	18.8	809	1993 SR <sub>3</sub>	1993 10 11.12639	01 18 53.27	+03 02 14.8		809
1993 RZ <sub>7</sub>	1993 09 15.14097	00 38 52.61	+03 30 20.8		809	1993 SR <sub>3</sub>	1993 10 11.13958	01 18 52.70	+03 02 02.4		809
1993 RZ <sub>7</sub>	1993 09 15.15139	00 38 52.15	+03 30 20.0		809	1993 TM	1993 10 09.14861	01 10 13.22	+05 05 07.4	17.8	809
1993 RZ <sub>7</sub>	1993 09 17.21944	00 37 28.53	+03 22 29.2		809	1993 TM	1993 10 09.16181	01 10 12.32	+05 05 06.2		809
1993 RZ <sub>7</sub>	1993 09 17.22986	00 37 27.94	+03 22 26.5		809	1993 TM	1993 10 09.17500	01 10 11.39	+05 05 05.9		809
1993 RZ <sub>7</sub>	1993 09 17.24028	00 37 27.41	+03 22 25.6		809	1993 TM	1993 10 11.11319	01 08 09.22	+05 03 07.1		809
1993 RA <sub>8</sub>	* 1993 09 15.13056	00 39 21.55	+05 39 45.1	18.3	809	1993 TM	1993 10 11.12639	01 08 08.36	+05 03 06.6		809
1993 RA <sub>8</sub>	1993 09 15.14097	00 39 21.18	+05 39 41.0		809	1993 TM	1993 10 11.13958	01 08 07.46	+05 03 05.2		809
1993 RA <sub>8</sub>	1993 09 15.15139	00 39 20.77	+05 39 38.6		809	1993 TO	1993 10 09.14861	01 23 24.91	+06 36 24.1	17.0	809
1993 RA <sub>8</sub>	1993 09 17.21944	00 38 07.66	+05 27 41.7		809	1993 TO	1993 10 09.16181	01 23 23.88	+06 36 28.2		809
1993 RA <sub>8</sub>	1993 09 17.22986	00 38 07.30	+05 27 38.5		809	1993 TO	1993 10 09.17500	01 23 22.90	+06 36 32.5		809
1993 RA <sub>8</sub>	1993 09 17.24028	00 38 06.80	+05 27 34.8		809	1993 TO	1993 10 11.11319	01 21 10.40	+06 45 46.1		809
1993 RB <sub>8</sub>	* 1993 09 15.13056	00 39 43.07	+03 48 39.7	18.3	809	1993 TO	1993 10 11.12639	01 21 09.48	+06 45 49.2		809
1993 RB <sub>8</sub>	1993 09 15.14097	00 39 42.66	+03 48 33.1		809	1993 TO	1993 10 11.13958	01 21 08.49	+06 45 53.5		809
1993 RB <sub>8</sub>	1993 09 15.15139	00 39 42.25	+03 48 28.2		809	1993 TM <sub>12</sub>	1993 10 09.14861	01 11 13.81	+03 00 21.3	17.8	809
1993 RB <sub>8</sub>	1993 09 17.21944	00 38 30.90	+03 29 18.1		809	1993 TM <sub>12</sub>	1993 10 09.16181	01 11 12.95	+03 00 15.8		809
1993 RB <sub>8</sub>	1993 09 17.22986	00 38 30.39	+03 29 11.4		809	1993 TM <sub>12</sub>	1993 10 09.17500	01 11 12.12	+03 00 10.1		809
1993 RB <sub>8</sub>	1993 09 17.24028	00 38 30.03	+03 29 05.5		809	1993 TM <sub>12</sub>	1993 10 11.11319	01 09 22.79	+02 47 07.4		809
1993 RC <sub>8</sub>	* 1993 09 15.13056	00 40 00.68	+05 34 40.1	18.5	809	1993 TM <sub>12</sub>	1993 10 11.12639	01 09 22.00	+02 47 01.6		809
1993 RC <sub>8</sub>	1993 09 15.14097	00 40 00.08	+05 34 40.5		809	1993 TM <sub>12</sub>	1993 10 11.13958	01 09 21.12	+02 46 56.0		809
1993 RC <sub>8</sub>	1993 09 15.15139	00 39 59.53	+05 34 42.2		809	1993 TP <sub>12</sub>	1993 10 09.14861	01 21 18.23	+05 58 48.1	17.9	809
1993 RC <sub>8</sub>	1993 09 17.21944	00 38 17.63	+05 38 16.0		809	1993 TP <sub>12</sub>	1993 10 09.16181	01 21 17.50	+05 58 40.3		809
1993 RC <sub>8</sub>	1993 09 17.22986	00 38 17.12	+05 38 17.0		809	1993 TP <sub>12</sub>	1993 10 09.17500	01 21 16.85	+05 58 31.8		809
1993 RC <sub>8</sub>	1993 09 17.24028	00 38 16.46	+05 38 17.6		809	1993 TP <sub>12</sub>	1993 10 11.11319	01 19 42.64	+05 38 30.8		809
1993 SK <sub>2</sub>	1993 09 15.13056	00 33 59.35	+04 48 48.4	18.0	809	1993 TP <sub>12</sub>	1993 10 11.12639	01 19 42.00	+05 38 22.5		809
1993 SK <sub>2</sub>	1993 09 15.14097	00 33 58.68	+04 48 51.0		809	1993 TP <sub>12</sub>	1993 10 11.13958	01 19 41.33	+05 38 14.5		809
1993 SK <sub>2</sub>	1993 09 15.15139	00 33 57.96	+04 48 53.0		809	1993 TU <sub>13</sub>	* 1993 10 09.14861	01 05 03.62	+06 55 07.7	18.4	809
1993 SK <sub>2</sub>	1993 09 17.21944	00 31 41.07	+04 55 55.6		809	1993 TU <sub>13</sub>	1993 10 09.16181	01 05 02.98	+06 55 03.6		809
1993 SK <sub>2</sub>	1993 09 17.22986	00 31 40.38	+04 55 58.5		809	1993 TU <sub>13</sub>	1993 10 09.17500	01 05 02.37	+06 55 00.9		809
1993 SK <sub>2</sub>	1993 09 17.24028	00 31 39.59	+04 55 59.6		809	1993 TU <sub>13</sub>	1993 10 11.11319	01 03 29.28	+06 47 19.8	18.5	809
1993 SJ <sub>3</sub>	1993 09 15.13056	00 21 06.21	+06 13 26.4	18.1	809	1993 TU <sub>13</sub>	1993 10 11.12639	01 03 28.53	+06 47 16.2		809

1993 TU <sub>13</sub>	1993 10 11.13958	01 03 27.85	+06 47 13.9		809	1993 TD <sub>14</sub>	1993 10 11.11319	01 04 18.23	+06 57 24.7		809
1993 TV <sub>13</sub>	* 1993 10 09.14861	01 05 19.22	+06 25 42.7	18.5	809	1993 TD <sub>14</sub>	1993 10 11.12639	01 04 17.42	+06 57 19.3		809
1993 TV <sub>13</sub>	1993 10 09.16181	01 05 18.46	+06 25 37.7		809	1993 TD <sub>14</sub>	1993 10 11.13958	01 04 16.46	+06 57 12.9		809
1993 TV <sub>13</sub>	1993 10 09.17500	01 05 17.52	+06 25 33.6		809	1993 TE <sub>14</sub>	* 1993 10 09.14861	01 06 17.61	+05 11 12.6	18.2	809
1993 TV <sub>13</sub>	1993 10 11.11319	01 03 21.66	+06 15 43.4		809	1993 TE <sub>14</sub>	1993 10 09.16181	01 06 16.68	+05 11 10.6		809
1993 TV <sub>13</sub>	1993 10 11.12639	01 03 20.76	+06 15 38.6		809	1993 TE <sub>14</sub>	1993 10 09.17500	01 06 15.73	+05 11 08.7		809
1993 TV <sub>13</sub>	1993 10 11.13958	01 03 19.93	+06 15 34.5		809	1993 TE <sub>14</sub>	1993 10 11.11319	01 04 11.13	+05 06 44.2		809
1993 TW <sub>13</sub>	* 1993 10 09.14861	01 05 41.01	+04 53 53.1	18.0	809	1993 TE <sub>14</sub>	1993 10 11.12639	01 04 10.20	+05 06 42.0		809
1993 TW <sub>13</sub>	1993 10 09.16181	01 05 40.33	+04 53 46.3		809	1993 TE <sub>14</sub>	1993 10 11.13958	01 04 09.28	+05 06 40.1		809
1993 TW <sub>13</sub>	1993 10 09.17500	01 05 39.71	+04 53 39.1		809	1993 TF <sub>14</sub>	* 1993 10 09.14861	01 06 25.47	+04 04 18.4	18.5	809
1993 TW <sub>13</sub>	1993 10 11.11319	01 04 12.01	+04 36 18.6		809	1993 TF <sub>14</sub>	1993 10 09.16181	01 06 24.41	+04 04 16.2		809
1993 TW <sub>13</sub>	1993 10 11.12639	01 04 11.32	+04 36 11.7		809	1993 TF <sub>14</sub>	1993 10 09.17500	01 06 23.53	+04 04 12.6		809
1993 TW <sub>13</sub>	1993 10 11.13958	01 04 10.67	+04 36 03.5		809	1993 TF <sub>14</sub>	1993 10 11.11319	01 04 18.48	+03 57 33.5		809
1993 TX <sub>13</sub>	* 1993 10 09.14861	01 05 42.27	+03 58 23.8	18.3	809	1993 TF <sub>14</sub>	1993 10 11.12639	01 04 17.48	+03 57 30.6		809
1993 TX <sub>13</sub>	1993 10 09.16181	01 05 41.62	+03 58 18.0		809	1993 TF <sub>14</sub>	1993 10 11.13958	01 04 16.55	+03 57 27.3		809
1993 TX <sub>13</sub>	1993 10 09.17500	01 05 40.86	+03 58 13.4		809	1993 TG <sub>14</sub>	* 1993 10 09.14861	01 06 30.01	+04 13 14.5	18.3	809
1993 TX <sub>13</sub>	1993 10 11.11319	01 04 07.45	+03 46 23.5		809	1993 TG <sub>14</sub>	1993 10 09.16181	01 06 29.18	+04 13 06.2		809
1993 TX <sub>13</sub>	1993 10 11.12639	01 04 06.62	+03 46 19.4		809	1993 TG <sub>14</sub>	1993 10 09.17500	01 06 28.44	+04 13 00.2		809
1993 TX <sub>13</sub>	1993 10 11.13958	01 04 05.90	+03 46 13.9		809	1993 TG <sub>14</sub>	1993 10 11.11319	01 04 48.13	+03 55 33.7		809
1993 TY <sub>13</sub>	* 1993 10 09.14861	01 05 50.39	+07 02 59.3	18.3	809	1993 TG <sub>14</sub>	1993 10 11.12639	01 04 47.29	+03 55 25.5		809
1993 TY <sub>13</sub>	1993 10 09.16181	01 05 49.70	+07 02 56.6		809	1993 TG <sub>14</sub>	1993 10 11.13958	01 04 46.48	+03 55 17.5		809
1993 TY <sub>13</sub>	1993 10 09.17500	01 05 49.03	+07 02 53.0		809	1993 TH <sub>14</sub>	* 1993 10 09.14861	01 06 40.02	+03 24 09.2	18.2	809
1993 TY <sub>13</sub>	1993 10 11.11319	01 04 19.17	+06 55 10.2	18.5	809	1993 TH <sub>14</sub>	1993 10 09.16181	01 06 39.28	+03 24 04.0		809
1993 TY <sub>13</sub>	1993 10 11.12639	01 04 18.50	+06 55 07.0		809	1993 TH <sub>14</sub>	1993 10 09.17500	01 06 38.56	+03 23 59.2		809
1993 TY <sub>13</sub>	1993 10 11.13958	01 04 17.79	+06 55 03.1		809	1993 TH <sub>14</sub>	1993 10 11.11319	01 04 59.99	+03 12 22.7		809
1993 TZ <sub>13</sub>	* 1993 10 09.14861	01 05 56.31	+03 35 21.5	18.1	809	1993 TH <sub>14</sub>	1993 10 11.12639	01 04 59.25	+03 12 18.6		809
1993 TZ <sub>13</sub>	1993 10 09.16181	01 05 55.71	+03 35 14.0		809	1993 TH <sub>14</sub>	1993 10 11.13958	01 04 58.51	+03 12 12.9		809
1993 TZ <sub>13</sub>	1993 10 09.17500	01 05 55.12	+03 35 06.4		809	1993 TJ <sub>14</sub>	* 1993 10 09.14861	01 07 12.97	+04 48 00.2	18.0	809
1993 TZ <sub>13</sub>	1993 10 11.11319	01 04 40.05	+03 16 34.4		809	1993 TJ <sub>14</sub>	1993 10 09.16181	01 07 12.14	+04 47 58.8		809
1993 TZ <sub>13</sub>	1993 10 11.12639	01 04 39.47	+03 16 26.8		809	1993 TJ <sub>14</sub>	1993 10 09.17500	01 07 11.31	+04 47 58.2		809
1993 TZ <sub>13</sub>	1993 10 11.13958	01 04 38.85	+03 16 18.2		809	1993 TJ <sub>14</sub>	1993 10 11.11319	01 05 18.62	+04 45 17.3		809
1993 TA <sub>14</sub>	* 1993 10 09.14861	01 06 00.98	+06 12 11.6	18.5	809	1993 TJ <sub>14</sub>	1993 10 11.12639	01 05 17.82	+04 45 16.3		809
1993 TA <sub>14</sub>	1993 10 09.16181	01 06 00.12	+06 12 09.1		809	1993 TJ <sub>14</sub>	1993 10 11.13958	01 05 16.98	+04 45 14.7		809
1993 TA <sub>14</sub>	1993 10 09.17500	01 05 59.17	+06 12 05.0		809	1993 TK <sub>14</sub>	* 1993 10 09.14861	01 07 18.18	+04 16 21.0	18.3	809
1993 TA <sub>14</sub>	1993 10 11.11319	01 03 55.95	+06 02 58.2	18.4	809	1993 TK <sub>14</sub>	1993 10 09.16181	01 07 17.46	+04 16 17.4		809
1993 TA <sub>14</sub>	1993 10 11.12639	01 03 55.14	+06 02 55.3		809	1993 TK <sub>14</sub>	1993 10 09.17500	01 07 16.72	+04 16 13.5		809
1993 TA <sub>14</sub>	1993 10 11.13958	01 03 54.14	+06 02 50.6		809	1993 TK <sub>14</sub>	1993 10 11.11319	01 05 38.56	+04 05 39.4		809
1993 TB <sub>14</sub>	* 1993 10 09.14861	01 06 04.07	+04 51 54.4	18.3	809	1993 TK <sub>14</sub>	1993 10 11.12639	01 05 37.80	+04 05 35.3		809
1993 TB <sub>14</sub>	1993 10 09.16181	01 06 03.26	+04 51 50.3		809	1993 TK <sub>14</sub>	1993 10 11.13958	01 05 37.06	+04 05 31.0		809
1993 TB <sub>14</sub>	1993 10 09.17500	01 06 02.44	+04 51 47.7		809	1993 TL <sub>14</sub>	* 1993 10 09.14861	01 07 31.28	+03 37 11.9	18.4	809
1993 TB <sub>14</sub>	1993 10 11.11319	01 04 17.12	+04 44 41.4		809	1993 TL <sub>14</sub>	1993 10 09.16181	01 07 30.62	+03 37 04.4		809
1993 TB <sub>14</sub>	1993 10 11.12639	01 04 16.24	+04 44 37.5		809	1993 TL <sub>14</sub>	1993 10 09.17500	01 07 29.92	+03 36 59.0		809
1993 TB <sub>14</sub>	1993 10 11.13958	01 04 15.41	+04 44 35.5		809	1993 TL <sub>14</sub>	1993 10 11.11319	01 06 07.67	+03 22 52.7		809
1993 TC <sub>14</sub>	* 1993 10 09.14861	01 06 09.53	+06 54 31.3	18.5	809	1993 TL <sub>14</sub>	1993 10 11.12639	01 06 07.00	+03 22 44.7		809
1993 TC <sub>14</sub>	1993 10 09.16181	01 06 08.86	+06 54 26.9		809	1993 TL <sub>14</sub>	1993 10 11.13958	01 06 06.39	+03 22 40.9		809
1993 TC <sub>14</sub>	1993 10 09.17500	01 06 08.18	+06 54 23.4		809	1993 TM <sub>14</sub>	* 1993 10 09.14861	01 07 39.82	+06 33 25.8	18.3	809
1993 TC <sub>14</sub>	1993 10 11.11319	01 04 39.23	+06 45 00.9	18.7	809	1993 TM <sub>14</sub>	1993 10 09.16181	01 07 39.06	+06 33 22.3		809
1993 TC <sub>14</sub>	1993 10 11.12639	01 04 38.56	+06 44 56.7		809	1993 TM <sub>14</sub>	1993 10 09.17500	01 07 38.31	+06 33 17.5		809
1993 TC <sub>14</sub>	1993 10 11.13958	01 04 37.87	+06 44 52.4		809	1993 TM <sub>14</sub>	1993 10 11.11319	01 05 58.39	+06 24 36.5		809
1993 TD <sub>14</sub>	* 1993 10 09.14861	01 06 15.31	+07 11 48.2	18.5	809	1993 TM <sub>14</sub>	1993 10 11.12639	01 05 57.61	+06 24 32.2		809
1993 TD <sub>14</sub>	1993 10 09.16181	01 06 14.51	+07 11 42.3		809	1993 TM <sub>14</sub>	1993 10 11.13958	01 05 56.79	+06 24 28.2		809
1993 TD <sub>14</sub>	1993 10 09.17500	01 06 13.61	+07 11 36.2		809	1993 TN <sub>14</sub>	* 1993 10 09.14861	01 07 42.17	+07 07 08.6	18.6	809



1993 TN <sub>14</sub>	1993 10 09.16181	01 07 41.26	+07 07 06.1	809	1993 TV <sub>14</sub>	1993 10 11.13958	01 06 40.83	+06 45 32.2		809
1993 TN <sub>14</sub>	1993 10 09.17500	01 07 40.16	+07 07 03.7	809	1993 TW <sub>14</sub>	* 1993 10 09.14861	01 08 26.68	+06 43 48.0	18.7	809
1993 TN <sub>14</sub>	1993 10 11.11319	01 05 26.70	+07 01 19.5	809	1993 TW <sub>14</sub>	1993 10 09.16181	01 08 25.92	+06 43 42.7		809
1993 TN <sub>14</sub>	1993 10 11.12639	01 05 25.64	+07 01 16.9	809	1993 TW <sub>14</sub>	1993 10 09.17500	01 08 25.23	+06 43 37.6		809
1993 TN <sub>14</sub>	1993 10 11.13958	01 05 24.72	+07 01 13.9	809	1993 TW <sub>14</sub>	1993 10 11.11319	01 06 53.04	+06 31 04.8		809
1993 TO <sub>14</sub>	* 1993 10 09.14861	01 07 42.53	+04 14 43.9	18.4	809	1993 TW <sub>14</sub>	1993 10 11.12639	01 06 52.35	+06 31 00.5	809
1993 TO <sub>14</sub>	1993 10 09.16181	01 07 41.88	+04 14 39.7	809	809	1993 TW <sub>14</sub>	1993 10 11.13958	01 06 51.59	+06 30 53.7	809
1993 TO <sub>14</sub>	1993 10 09.17500	01 07 41.14	+04 14 35.2	809	809	1993 TX <sub>14</sub>	* 1993 10 09.14861	01 08 29.04	+05 14 25.1	18.3
1993 TO <sub>14</sub>	1993 10 11.11319	01 06 01.22	+04 03 20.9	809	809	1993 TX <sub>14</sub>	1993 10 09.16181	01 08 28.42	+05 14 21.5	809
1993 TO <sub>14</sub>	1993 10 11.12639	01 06 00.50	+04 03 17.3	809	809	1993 TX <sub>14</sub>	1993 10 09.17500	01 08 27.82	+05 14 17.9	809
1993 TO <sub>14</sub>	1993 10 11.13958	01 05 59.81	+04 03 12.2	809	809	1993 TX <sub>14</sub>	1993 10 11.11319	01 07 01.58	+05 04 45.8	809
1993 TP <sub>14</sub>	* 1993 10 09.14861	01 07 43.59	+07 17 32.0	18.0	809	1993 TX <sub>14</sub>	1993 10 11.12639	01 07 01.00	+05 04 41.6	809
1993 TP <sub>14</sub>	1993 10 09.16181	01 07 42.89	+07 17 24.0	809	809	1993 TX <sub>14</sub>	1993 10 11.13958	01 07 00.37	+05 04 37.8	809
1993 TP <sub>14</sub>	1993 10 09.17500	01 07 42.11	+07 17 16.8	809	809	1993 TY <sub>14</sub>	* 1993 10 09.14861	01 08 36.17	+04 44 29.3	18.2
1993 TP <sub>14</sub>	1993 10 11.11319	01 05 59.49	+06 57 49.0	809	809	1993 TY <sub>14</sub>	1993 10 09.16181	01 08 35.43	+04 44 23.6	809
1993 TP <sub>14</sub>	1993 10 11.12639	01 05 58.79	+06 57 41.2	809	809	1993 TY <sub>14</sub>	1993 10 09.17500	01 08 34.58	+04 44 19.5	809
1993 TP <sub>14</sub>	1993 10 11.13958	01 05 57.98	+06 57 32.6	809	809	1993 TY <sub>14</sub>	1993 10 11.11319	01 06 49.65	+04 28 10.2	809
1993 TQ <sub>14</sub>	* 1993 10 09.14861	01 07 44.62	+04 08 58.4	18.5	809	1993 TY <sub>14</sub>	1993 10 11.12639	01 06 49.00	+04 28 04.0	809
1993 TQ <sub>14</sub>	1993 10 09.16181	01 07 43.93	+04 08 57.5	809	809	1993 TY <sub>14</sub>	1993 10 11.13958	01 06 48.28	+04 27 57.4	809
1993 TQ <sub>14</sub>	1993 10 09.17500	01 07 43.16	+04 08 56.0	809	809	1993 TZ <sub>14</sub>	* 1993 10 09.14861	01 08 40.55	+05 18 02.3	18.0
1993 TQ <sub>14</sub>	1993 10 11.11319	01 06 02.88	+04 05 32.7	809	809	1993 TZ <sub>14</sub>	1993 10 09.16181	01 08 39.60	+05 18 02.0	809
1993 TQ <sub>14</sub>	1993 10 11.12639	01 06 02.22	+04 05 31.2	809	809	1993 TZ <sub>14</sub>	1993 10 09.17500	01 08 38.74	+05 18 02.2	809
1993 TQ <sub>14</sub>	1993 10 11.13958	01 06 01.39	+04 05 29.2	809	809	1993 TZ <sub>14</sub>	1993 10 11.11319	01 06 33.25	+05 18 45.4	809
1993 TR <sub>14</sub>	* 1993 10 09.14861	01 07 47.56	+05 25 21.2	18.2	809	1993 TZ <sub>14</sub>	1993 10 11.12639	01 06 32.38	+05 18 46.3	809
1993 TR <sub>14</sub>	1993 10 09.16181	01 07 46.61	+05 25 21.2	809	809	1993 TZ <sub>14</sub>	1993 10 11.13958	01 06 31.43	+05 18 45.5	809
1993 TR <sub>14</sub>	1993 10 09.17500	01 07 45.77	+05 25 20.5	809	809	1993 TA <sub>15</sub>	* 1993 10 09.14861	01 08 41.28	+04 48 26.3	18.2
1993 TR <sub>14</sub>	1993 10 11.11319	01 05 41.96	+05 24 12.2	809	809	1993 TA <sub>15</sub>	1993 10 09.16181	01 08 40.40	+04 48 22.9	809
1993 TR <sub>14</sub>	1993 10 11.12639	01 05 40.99	+05 24 11.3	809	809	1993 TA <sub>15</sub>	1993 10 09.17500	01 08 39.50	+04 48 19.7	809
1993 TR <sub>14</sub>	1993 10 11.13958	01 05 40.14	+05 24 10.8	809	809	1993 TA <sub>15</sub>	1993 10 11.11319	01 06 32.80	+04 41 27.0	809
1993 TS <sub>14</sub>	* 1993 10 09.14861	01 07 55.52	+04 07 59.3	18.5	809	1993 TA <sub>15</sub>	1993 10 11.12639	01 06 31.85	+04 41 23.8	809
1993 TS <sub>14</sub>	1993 10 09.16181	01 07 54.93	+04 07 55.4	809	809	1993 TA <sub>15</sub>	1993 10 11.13958	01 06 30.91	+04 41 22.2	809
1993 TS <sub>14</sub>	1993 10 09.17500	01 07 54.22	+04 07 49.6	809	809	1993 TB <sub>15</sub>	* 1993 10 09.14861	01 08 56.22	+04 23 06.0	18.3
1993 TS <sub>14</sub>	1993 10 11.11319	01 06 12.91	+03 56 03.3	809	809	1993 TB <sub>15</sub>	1993 10 09.16181	01 08 55.78	+04 22 57.7	809
1993 TS <sub>14</sub>	1993 10 11.12639	01 06 12.17	+03 55 59.6	809	809	1993 TB <sub>15</sub>	1993 10 09.17500	01 08 55.09	+04 22 49.1	809
1993 TS <sub>14</sub>	1993 10 11.13958	01 06 11.38	+03 55 53.9	809	809	1993 TB <sub>15</sub>	1993 10 11.11319	01 07 38.77	+04 03 34.2	809
1993 TT <sub>14</sub>	* 1993 10 09.14861	01 08 08.69	+04 34 27.5	18.5	809	1993 TB <sub>15</sub>	1993 10 11.12639	01 07 38.15	+04 03 26.3	809
1993 TT <sub>14</sub>	1993 10 09.16181	01 08 07.86	+04 34 24.8	809	809	1993 TB <sub>15</sub>	1993 10 11.13958	01 07 37.57	+04 03 17.4	809
1993 TT <sub>14</sub>	1993 10 09.17500	01 08 06.98	+04 34 20.3	809	809	1993 TC <sub>15</sub>	* 1993 10 09.14861	01 08 57.15	+04 53 44.0	18.5
1993 TT <sub>14</sub>	1993 10 11.11319	01 06 24.00	+04 26 47.4	809	809	1993 TC <sub>15</sub>	1993 10 09.16181	01 08 56.57	+04 53 39.9	809
1993 TT <sub>14</sub>	1993 10 11.12639	01 06 23.15	+04 26 44.3	809	809	1993 TC <sub>15</sub>	1993 10 09.17500	01 08 55.97	+04 53 35.0	809
1993 TT <sub>14</sub>	1993 10 11.13958	01 06 22.45	+04 26 40.0	809	809	1993 TC <sub>15</sub>	1993 10 11.11319	01 07 25.49	+04 40 31.1	809
1993 TU <sub>14</sub>	* 1993 10 09.14861	01 08 21.27	+05 15 20.5	18.6	809	1993 TC <sub>15</sub>	1993 10 11.12639	01 07 24.80	+04 40 25.9	809
1993 TU <sub>14</sub>	1993 10 09.16181	01 08 20.60	+05 15 15.8	809	809	1993 TC <sub>15</sub>	1993 10 11.13958	01 07 24.09	+04 40 18.9	809
1993 TU <sub>14</sub>	1993 10 09.17500	01 08 19.84	+05 15 11.1	809	809	1993 TD <sub>15</sub>	* 1993 10 09.14861	01 09 24.33	+04 26 29.3	18.1
1993 TU <sub>14</sub>	1993 10 11.11319	01 06 41.76	+05 04 22.9	809	809	1993 TD <sub>15</sub>	1993 10 09.16181	01 09 23.63	+04 26 21.7	809
1993 TU <sub>14</sub>	1993 10 11.12639	01 06 41.08	+05 04 17.9	809	809	1993 TD <sub>15</sub>	1993 10 09.17500	01 09 22.92	+04 26 13.7	809
1993 TU <sub>14</sub>	1993 10 11.13958	01 06 40.40	+05 04 12.7	809	809	1993 TD <sub>15</sub>	1993 10 11.11319	01 07 44.70	+04 08 08.1	809
1993 TV <sub>14</sub>	* 1993 10 09.14861	01 08 25.39	+06 53 48.9	18.2	809	1993 TD <sub>15</sub>	1993 10 11.12639	01 07 43.94	+04 08 00.6	809
1993 TV <sub>14</sub>	1993 10 09.16181	01 08 24.61	+06 53 45.2	809	809	1993 TD <sub>15</sub>	1993 10 11.13958	01 07 43.24	+04 07 53.3	809
1993 TV <sub>14</sub>	1993 10 09.17500	01 08 23.85	+06 53 41.9	809	809	1993 TE <sub>15</sub>	* 1993 10 09.14861	01 09 37.71	+03 46 10.9	18.0
1993 TV <sub>14</sub>	1993 10 11.11319	01 06 42.39	+06 45 38.4	809	809	1993 TE <sub>15</sub>	1993 10 09.16181	01 09 36.90	+03 46 04.2	809
1993 TV <sub>14</sub>	1993 10 11.12639	01 06 41.59	+06 45 35.3	809	809	1993 TE <sub>15</sub>	1993 10 09.17500	01 09 36.09	+03 45 58.2	809

1993 TE <sub>15</sub>	1993 10 11.11319	01 07 45.45	+03 30 46.8	809	1993 TO <sub>15</sub>	1993 10 09.16181	01 10 26.47	+07 21 23.7	18.3	809
1993 TE <sub>15</sub>	1993 10 11.12639	01 07 44.57	+03 30 41.3	809	1993 TO <sub>15</sub>	1993 10 09.17500	01 10 26.42	+07 21 23.5		809
1993 TE <sub>15</sub>	1993 10 11.13958	01 07 43.76	+03 30 34.7	809	1993 TO <sub>15</sub>	1993 10 11.11319	01 08 51.46	+07 09 42.2		809
1993 TF <sub>15</sub>	* 1993 10 09.14861	01 09 56.06	+05 36 36.5	18.4	809	1993 TO <sub>15</sub>	1993 10 11.12639	01 08 50.65	+07 09 35.9	809
1993 TF <sub>15</sub>	1993 10 09.16181	01 09 55.30	+05 36 35.0	809	1993 TO <sub>15</sub>	1993 10 11.13958	01 08 50.03	+07 09 32.4		809
1993 TF <sub>15</sub>	1993 10 09.17500	01 09 54.56	+05 36 33.3	809	1993 TP <sub>15</sub>	* 1993 10 09.14861	01 10 41.41	+04 07 19.1	18.3	809
1993 TF <sub>15</sub>	1993 10 11.11319	01 08 11.26	+05 33 50.9	809	1993 TP <sub>15</sub>	1993 10 09.16181	01 10 40.74	+04 07 15.3		809
1993 TF <sub>15</sub>	1993 10 11.12639	01 08 10.50	+05 33 51.2	809	1993 TP <sub>15</sub>	1993 10 09.17500	01 10 40.07	+04 07 11.9		809
1993 TF <sub>15</sub>	1993 10 11.13958	01 08 09.78	+05 33 48.7	809	1993 TP <sub>15</sub>	1993 10 11.11319	01 09 10.21	+03 57 37.4		809
1993 TG <sub>15</sub>	* 1993 10 09.14861	01 09 58.51	+05 26 18.3	18.5	809	1993 TP <sub>15</sub>	1993 10 11.12639	01 09 09.53	+03 57 34.3	809
1993 TG <sub>15</sub>	1993 10 09.16181	01 09 57.91	+05 26 10.3	809	1993 TP <sub>15</sub>	1993 10 11.13958	01 09 08.87	+03 57 30.3		809
1993 TG <sub>15</sub>	1993 10 09.17500	01 09 57.41	+05 26 02.5	809	1993 TQ <sub>15</sub>	* 1993 10 09.14861	01 10 46.44	+06 31 26.2	18.6	809
1993 TG <sub>15</sub>	1993 10 11.11319	01 08 40.25	+05 06 47.6	809	1993 TQ <sub>15</sub>	1993 10 09.16181	01 10 45.56	+06 31 25.8		809
1993 TG <sub>15</sub>	1993 10 11.12639	01 08 39.63	+05 06 40.3	809	1993 TQ <sub>15</sub>	1993 10 09.17500	01 10 44.75	+06 31 25.7		809
1993 TG <sub>15</sub>	1993 10 11.13958	01 08 39.07	+05 06 31.0	809	1993 TQ <sub>15</sub>	1993 10 11.11319	01 08 47.40	+06 29 36.7		809
1993 TH <sub>15</sub>	* 1993 10 09.14861	01 09 59.37	+07 05 34.2	18.3	809	1993 TQ <sub>15</sub>	1993 10 11.12639	01 08 46.51	+06 29 36.1	809
1993 TH <sub>15</sub>	1993 10 09.16181	01 09 58.80	+07 05 29.0	809	1993 TQ <sub>15</sub>	1993 10 11.13958	01 08 45.69	+06 29 35.5		809
1993 TH <sub>15</sub>	1993 10 09.17500	01 09 58.17	+07 05 24.5	809	1993 TR <sub>15</sub>	* 1993 10 09.14861	01 10 49.35	+04 50 09.3	18.3	809
1993 TH <sub>15</sub>	1993 10 11.11319	01 08 33.37	+06 53 38.2	809	1993 TR <sub>15</sub>	1993 10 09.16181	01 10 48.47	+04 50 08.1		809
1993 TH <sub>15</sub>	1993 10 11.12639	01 08 32.77	+06 53 33.5	809	1993 TR <sub>15</sub>	1993 10 09.17500	01 10 47.52	+04 50 06.8		809
1993 TH <sub>15</sub>	1993 10 11.13958	01 08 32.17	+06 53 29.4	809	1993 TR <sub>15</sub>	1993 10 11.11319	01 08 49.91	+04 46 50.5		809
1993 TJ <sub>15</sub>	* 1993 10 09.14861	01 10 02.57	+06 16 28.8	18.3	809	1993 TR <sub>15</sub>	1993 10 11.12639	01 08 49.12	+04 46 48.7	809
1993 TJ <sub>15</sub>	1993 10 09.16181	01 10 01.63	+06 16 26.8	809	1993 TR <sub>15</sub>	1993 10 11.13958	01 08 48.27	+04 46 46.7		809
1993 TJ <sub>15</sub>	1993 10 09.17500	01 10 00.66	+06 16 24.7	809	1993 TS <sub>15</sub>	* 1993 10 09.14861	01 10 51.33	+04 11 56.8	18.1	809
1993 TJ <sub>15</sub>	1993 10 11.11319	01 07 49.63	+06 10 41.5	809	1993 TS <sub>15</sub>	1993 10 09.16181	01 10 50.63	+04 11 51.8		809
1993 TJ <sub>15</sub>	1993 10 11.12639	01 07 48.61	+06 10 39.2	809	1993 TS <sub>15</sub>	1993 10 09.17500	01 10 49.96	+04 11 47.9		809
1993 TJ <sub>15</sub>	1993 10 11.13958	01 07 47.71	+06 10 37.3	809	1993 TS <sub>15</sub>	1993 10 11.11319	01 09 19.62	+04 00 08.7		809
1993 TK <sub>15</sub>	* 1993 10 09.14861	01 10 03.27	+07 45 45.1	18.3	809	1993 TS <sub>15</sub>	1993 10 11.12639	01 09 18.91	+04 00 03.9	809
1993 TK <sub>15</sub>	1993 10 09.16181	01 10 02.70	+07 45 42.3	809	1993 TS <sub>15</sub>	1993 10 11.13958	01 09 18.20	+03 59 59.2		809
1993 TK <sub>15</sub>	1993 10 09.17500	01 10 02.05	+07 45 38.2	809	1993 TT <sub>15</sub>	* 1993 10 09.14861	01 11 15.61	+05 02 47.1	19.2	809
1993 TK <sub>15</sub>	1993 10 11.11319	01 08 37.22	+07 36 19.3	809	1993 TT <sub>15</sub>	1993 10 09.16181	01 11 15.03	+05 02 45.6		809
1993 TK <sub>15</sub>	1993 10 11.12639	01 08 36.48	+07 36 14.4	809	1993 TT <sub>15</sub>	1993 10 09.17500	01 11 14.24	+05 02 43.3		809
1993 TK <sub>15</sub>	1993 10 11.13958	01 08 35.91	+07 36 11.6	809	1993 TT <sub>15</sub>	1993 10 11.11319	01 09 28.77	+04 56 32.4	18.6	809
1993 TL <sub>15</sub>	* 1993 10 09.14861	01 10 03.54	+06 35 00.1	18.0	809	1993 TT <sub>15</sub>	1993 10 11.12639	01 09 28.03	+04 56 30.5	809
1993 TL <sub>15</sub>	1993 10 09.16181	01 10 02.78	+06 34 57.5	809	1993 TT <sub>15</sub>	1993 10 11.13958	01 09 27.31	+04 56 25.9		809
1993 TL <sub>15</sub>	1993 10 09.17500	01 10 02.05	+06 34 55.4	809	1993 TU <sub>15</sub>	* 1993 10 09.14861	01 11 24.15	+07 34 21.9	18.3	809
1993 TL <sub>15</sub>	1993 10 11.11319	01 08 16.66	+06 29 01.1	809	1993 TU <sub>15</sub>	1993 10 09.16181	01 11 23.60	+07 34 19.0		809
1993 TL <sub>15</sub>	1993 10 11.12639	01 08 15.84	+06 28 58.7	809	1993 TU <sub>15</sub>	1993 10 09.17500	01 11 22.84	+07 34 14.7		809
1993 TL <sub>15</sub>	1993 10 11.13958	01 08 15.08	+06 28 55.9	809	1993 TU <sub>15</sub>	1993 10 11.11319	01 09 54.48	+07 24 22.4		809
1993 TM <sub>15</sub>	* 1993 10 09.14861	01 10 07.39	+03 05 05.5	18.3	809	1993 TU <sub>15</sub>	1993 10 11.12639	01 09 53.93	+07 24 19.3	809
1993 TM <sub>15</sub>	1993 10 09.16181	01 10 06.63	+03 05 01.7	809	1993 TU <sub>15</sub>	1993 10 11.13958	01 09 53.20	+07 24 13.5		809
1993 TM <sub>15</sub>	1993 10 09.17500	01 10 05.93	+03 04 58.5	809	1993 TV <sub>15</sub>	* 1993 10 09.14861	01 11 28.14	+06 12 52.8	18.3	809
1993 TM <sub>15</sub>	1993 10 11.11319	01 08 32.62	+02 56 48.9	809	1993 TV <sub>15</sub>	1993 10 09.16181	01 11 27.36	+06 12 51.1		809
1993 TM <sub>15</sub>	1993 10 11.12639	01 08 31.96	+02 56 45.0	809	1993 TV <sub>15</sub>	1993 10 09.17500	01 11 26.55	+06 12 47.9		809
1993 TM <sub>15</sub>	1993 10 11.13958	01 08 31.15	+02 56 41.5	809	1993 TV <sub>15</sub>	1993 10 11.11319	01 09 38.76	+06 08 02.8		809
1993 TN <sub>15</sub>	* 1993 10 09.14861	01 10 08.59	+05 08 14.1	18.3	809	1993 TV <sub>15</sub>	1993 10 11.12639	01 09 37.91	+06 08 00.9	809
1993 TN <sub>15</sub>	1993 10 09.16181	01 10 07.80	+05 08 11.0	809	1993 TV <sub>15</sub>	1993 10 11.13958	01 09 37.11	+06 07 59.3		809
1993 TN <sub>15</sub>	1993 10 09.17500	01 10 06.95	+05 08 07.4	809	1993 TW <sub>15</sub>	* 1993 10 09.14861	01 11 31.09	+06 04 08.1	18.3	809
1993 TN <sub>15</sub>	1993 10 11.11319	01 08 19.16	+04 59 15.6	809	1993 TW <sub>15</sub>	1993 10 09.16181	01 11 30.54	+06 04 00.8		809
1993 TN <sub>15</sub>	1993 10 11.12639	01 08 18.42	+04 59 12.3	809	1993 TW <sub>15</sub>	1993 10 09.17500	01 11 29.97	+06 03 54.2		809
1993 TN <sub>15</sub>	1993 10 11.13958	01 08 17.61	+04 59 09.0	809	1993 TW <sub>15</sub>	1993 10 11.11319	01 10 12.32	+05 45 19.9		809
1993 TO <sub>15</sub>	* 1993 10 09.14861	01 10 27.18	+07 21 27.9	809	1993 TW <sub>15</sub>	1993 10 11.12639	01 10 11.82	+05 45 12.6		809

1993 TW <sub>15</sub>	1993 10 11.13958	01 10 11.21	+05 45 04.1		809	1993 TF <sub>16</sub>	1993 10 11.11319	01 11 27.55	+06 02 09.6		809
1993 TX <sub>15</sub>	* 1993 10 09.14861	01 11 39.65	+04 13 28.7	18.4	809	1993 TF <sub>16</sub>	1993 10 11.12639	01 11 26.87	+06 02 01.4		809
1993 TX <sub>15</sub>	1993 10 09.16181	01 11 38.79	+04 13 24.5		809	1993 TF <sub>16</sub>	1993 10 11.13958	01 11 26.26	+06 01 53.7		809
1993 TX <sub>15</sub>	1993 10 09.17500	01 11 37.88	+04 13 19.6		809	1993 TG <sub>16</sub>	* 1993 10 09.14861	01 12 56.90	+04 29 04.8	18.6	809
1993 TX <sub>15</sub>	1993 10 11.11319	01 09 42.56	+04 03 19.3		809	1993 TG <sub>16</sub>	1993 10 09.16181	01 12 56.00	+04 29 03.5		809
1993 TX <sub>15</sub>	1993 10 11.12639	01 09 41.66	+04 03 15.3		809	1993 TG <sub>16</sub>	1993 10 09.17500	01 12 55.20	+04 29 03.1		809
1993 TX <sub>15</sub>	1993 10 11.13958	01 09 40.87	+04 03 11.2		809	1993 TG <sub>16</sub>	1993 10 11.11319	01 10 53.97	+04 27 58.3	18.6	809
1993 TY <sub>15</sub>	* 1993 10 09.14861	01 11 46.09	+05 04 20.2	18.6	809	1993 TG <sub>16</sub>	1993 10 11.12639	01 10 53.11	+04 27 58.6		809
1993 TY <sub>15</sub>	1993 10 09.16181	01 11 45.21	+05 04 19.1		809	1993 TG <sub>16</sub>	1993 10 11.13958	01 10 52.26	+04 27 57.3		809
1993 TY <sub>15</sub>	1993 10 09.17500	01 11 44.33	+05 04 17.4		809	1993 TH <sub>16</sub>	* 1993 10 09.14861	01 13 02.45	+06 46 29.7	17.8	809
1993 TY <sub>15</sub>	1993 10 11.11319	01 09 48.57	+05 01 18.6	18.5	809	1993 TH <sub>16</sub>	1993 10 09.16181	01 13 01.86	+06 46 19.6		809
1993 TY <sub>15</sub>	1993 10 11.12639	01 09 47.61	+05 01 17.4		809	1993 TH <sub>16</sub>	1993 10 09.17500	01 13 01.21	+06 46 09.5		809
1993 TY <sub>15</sub>	1993 10 11.13958	01 09 46.87	+05 01 15.8		809	1993 TH <sub>16</sub>	1993 10 11.11319	01 11 37.15	+06 21 09.0		809
1993 TZ <sub>15</sub>	* 1993 10 09.14861	01 11 50.03	+06 06 30.3	18.5	809	1993 TH <sub>16</sub>	1993 10 11.12639	01 11 36.55	+06 20 58.7		809
1993 TZ <sub>15</sub>	1993 10 09.16181	01 11 49.39	+06 06 26.2		809	1993 TH <sub>16</sub>	1993 10 11.13958	01 11 35.93	+06 20 47.9		809
1993 TZ <sub>15</sub>	1993 10 09.17500	01 11 48.76	+06 06 20.9		809	1993 TJ <sub>16</sub>	* 1993 10 09.14861	01 13 05.55	+07 14 49.8		809
1993 TZ <sub>15</sub>	1993 10 11.11319	01 10 19.88	+05 56 31.0		809	1993 TJ <sub>16</sub>	1993 10 09.16181	01 13 04.67	+07 14 48.9	18.4	809
1993 TZ <sub>15</sub>	1993 10 11.12639	01 10 19.16	+05 56 25.5		809	1993 TJ <sub>16</sub>	1993 10 09.17500	01 13 03.96	+07 14 45.8		809
1993 TZ <sub>15</sub>	1993 10 11.13958	01 10 18.54	+05 56 22.6		809	1993 TJ <sub>16</sub>	1993 10 11.11319	01 11 08.27	+07 09 57.2		809
1993 TA <sub>16</sub>	* 1993 10 09.14861	01 11 59.31	+04 15 26.3	18.3	809	1993 TJ <sub>16</sub>	1993 10 11.12639	01 11 07.40	+07 09 56.0		809
1993 TA <sub>16</sub>	1993 10 09.16181	01 11 58.66	+04 15 23.0		809	1993 TJ <sub>16</sub>	1993 10 11.13958	01 11 06.50	+07 09 53.9		809
1993 TA <sub>16</sub>	1993 10 09.17500	01 11 58.00	+04 15 18.6		809	1993 TK <sub>16</sub>	* 1993 10 09.14861	01 13 12.41	+04 46 01.3	18.5	809
1993 TA <sub>16</sub>	1993 10 11.11319	01 10 30.96	+04 06 13.5		809	1993 TK <sub>16</sub>	1993 10 09.16181	01 13 11.60	+04 45 56.1		809
1993 TA <sub>16</sub>	1993 10 11.12639	01 10 30.27	+04 06 10.7		809	1993 TK <sub>16</sub>	1993 10 09.17500	01 13 10.94	+04 45 50.3		809
1993 TA <sub>16</sub>	1993 10 11.13958	01 10 29.60	+04 06 06.4		809	1993 TK <sub>16</sub>	1993 10 11.11319	01 11 25.14	+04 32 34.5	18.5	809
1993 TB <sub>16</sub>	* 1993 10 09.14861	01 12 12.67	+06 27 24.7	18.3	809	1993 TK <sub>16</sub>	1993 10 11.12639	01 11 24.26	+04 32 28.7		809
1993 TB <sub>16</sub>	1993 10 09.16181	01 12 12.05	+06 27 22.5		809	1993 TK <sub>16</sub>	1993 10 11.13958	01 11 23.55	+04 32 24.0		809
1993 TB <sub>16</sub>	1993 10 09.17500	01 12 11.36	+06 27 18.1		809	1993 TL <sub>16</sub>	* 1993 10 09.14861	01 13 26.62	+06 38 18.4	18.4	809
1993 TB <sub>16</sub>	1993 10 11.11319	01 10 40.68	+06 19 49.6		809	1993 TL <sub>16</sub>	1993 10 09.16181	01 13 26.01	+06 38 14.1		809
1993 TB <sub>16</sub>	1993 10 11.12639	01 10 39.99	+06 19 45.6		809	1993 TL <sub>16</sub>	1993 10 09.17500	01 13 25.30	+06 38 10.3		809
1993 TB <sub>16</sub>	1993 10 11.13958	01 10 39.32	+06 19 43.3		809	1993 TL <sub>16</sub>	1993 10 11.11319	01 11 54.11	+06 27 25.8		809
1993 TC <sub>16</sub>	* 1993 10 09.14861	01 12 20.88	+04 09 36.6	18.6	809	1993 TL <sub>16</sub>	1993 10 11.12639	01 11 53.41	+06 27 22.2		809
1993 TC <sub>16</sub>	1993 10 09.16181	01 12 20.26	+04 09 31.1		809	1993 TL <sub>16</sub>	1993 10 11.13958	01 11 52.74	+06 27 18.1		809
1993 TC <sub>16</sub>	1993 10 09.17500	01 12 19.72	+04 09 26.0		809	1993 TM <sub>16</sub>	* 1993 10 09.14861	01 13 27.02	+04 07 15.3	18.1	809
1993 TC <sub>16</sub>	1993 10 11.11319	01 10 53.60	+03 56 55.7		809	1993 TM <sub>16</sub>	1993 10 09.16181	01 13 26.41	+04 07 11.6		809
1993 TC <sub>16</sub>	1993 10 11.12639	01 10 52.93	+03 56 49.2		809	1993 TM <sub>16</sub>	1993 10 09.17500	01 13 25.72	+04 07 08.4		809
1993 TC <sub>16</sub>	1993 10 11.13958	01 10 52.29	+03 56 44.1		809	1993 TM <sub>16</sub>	1993 10 11.11319	01 12 00.08	+03 58 52.1		809
1993 TD <sub>16</sub>	* 1993 10 09.14861	01 12 24.78	+07 04 55.2		809	1993 TM <sub>16</sub>	1993 10 11.12639	01 11 59.39	+03 58 47.8		809
1993 TD <sub>16</sub>	1993 10 09.16181	01 12 23.97	+07 04 51.0	18.4	809	1993 TM <sub>16</sub>	1993 10 11.13958	01 11 58.76	+03 58 43.9		809
1993 TD <sub>16</sub>	1993 10 09.17500	01 12 23.24	+07 04 47.4		809	1993 TN <sub>16</sub>	* 1993 10 09.14861	01 13 32.13	+03 05 21.0	18.5	809
1993 TD <sub>16</sub>	1993 10 11.11319	01 10 31.35	+06 54 03.5		809	1993 TN <sub>16</sub>	1993 10 09.16181	01 13 31.25	+03 05 15.1		809
1993 TD <sub>16</sub>	1993 10 11.12639	01 10 30.47	+06 53 59.5		809	1993 TN <sub>16</sub>	1993 10 09.17500	01 13 30.44	+03 05 11.4		809
1993 TD <sub>16</sub>	1993 10 11.13958	01 10 29.70	+06 53 55.3		809	1993 TN <sub>16</sub>	1993 10 11.11319	01 11 41.30	+02 56 20.7		809
1993 TE <sub>16</sub>	* 1993 10 09.14861	01 12 33.02	+06 18 56.1	18.3	809	1993 TN <sub>16</sub>	1993 10 11.12639	01 11 40.44	+02 56 16.7		809
1993 TE <sub>16</sub>	1993 10 09.16181	01 12 32.14	+06 18 52.7		809	1993 TN <sub>16</sub>	1993 10 11.13958	01 11 39.68	+02 56 13.5		809
1993 TE <sub>16</sub>	1993 10 09.17500	01 12 31.34	+06 18 49.6		809	1993 TO <sub>16</sub>	* 1993 10 09.14861	01 13 40.90	+04 12 03.5	18.7	809
1993 TE <sub>16</sub>	1993 10 11.11319	01 10 37.85	+06 10 35.4		809	1993 TO <sub>16</sub>	1993 10 09.16181	01 13 40.09	+04 12 02.0		809
1993 TE <sub>16</sub>	1993 10 11.12639	01 10 37.06	+06 10 32.2		809	1993 TO <sub>16</sub>	1993 10 09.17500	01 13 39.19	+04 12 00.6		809
1993 TE <sub>16</sub>	1993 10 11.13958	01 10 36.23	+06 10 29.8		809	1993 TO <sub>16</sub>	1993 10 11.11319	01 11 32.53	+04 08 40.0		809
1993 TF <sub>16</sub>	* 1993 10 09.14861	01 12 55.73	+06 21 52.0	18.3	809	1993 TO <sub>16</sub>	1993 10 11.12639	01 11 31.61	+04 08 40.8		809
1993 TF <sub>16</sub>	1993 10 09.16181	01 12 55.13	+06 21 44.6		809	1993 TO <sub>16</sub>	1993 10 11.13958	01 11 30.68	+04 08 39.2		809
1993 TF <sub>16</sub>	1993 10 09.17500	01 12 54.42	+06 21 36.2		809	1993 TP <sub>16</sub>	* 1993 10 09.14861	01 13 51.66	+03 07 42.8	18.2	809

1993 TP <sub>16</sub>	1993 10 09.16181	01 13 50.90	+03 07 42.6	809	1993 TX <sub>16</sub>	1993 10 11.13958	01 12 58.35	+07 18 41.0	809
1993 TP <sub>16</sub>	1993 10 09.17500	01 13 50.18	+03 07 42.8	809	1993 TY <sub>16</sub>	* 1993 10 09.14861	01 14 43.50	+04 21 16.1	18.0 809
1993 TP <sub>16</sub>	1993 10 11.11319	01 12 14.81	+03 07 42.5	809	1993 TY <sub>16</sub>	1993 10 09.16181	01 14 42.67	+04 21 14.8	809
1993 TP <sub>16</sub>	1993 10 11.12639	01 12 14.02	+03 07 42.6	809	1993 TY <sub>16</sub>	1993 10 09.17500	01 14 41.72	+04 21 12.7	809
1993 TP <sub>16</sub>	1993 10 11.13958	01 12 13.32	+03 07 42.9	809	1993 TY <sub>16</sub>	1993 10 11.11319	01 12 35.59	+04 17 21.9	809
1993 TQ <sub>16</sub>	* 1993 10 09.14861	01 13 51.75	+03 36 55.7	18.0 809	1993 TY <sub>16</sub>	1993 10 11.12639	01 12 34.67	+04 17 20.5	809
1993 TQ <sub>16</sub>	1993 10 09.16181	01 13 50.63	+03 37 02.5	809	1993 TY <sub>16</sub>	1993 10 11.13958	01 12 33.75	+04 17 18.9	809
1993 TQ <sub>16</sub>	1993 10 09.17500	01 13 49.57	+03 37 08.7	809	1993 TZ <sub>16</sub>	* 1993 10 09.14861	01 14 47.06	+05 11 22.7	18.4 809
1993 TQ <sub>16</sub>	1993 10 11.11319	01 11 14.62	+03 51 42.8	809	1993 TZ <sub>16</sub>	1993 10 09.16181	01 14 46.35	+05 11 16.6	809
1993 TQ <sub>16</sub>	1993 10 11.12639	01 11 13.56	+03 51 48.7	809	1993 TZ <sub>16</sub>	1993 10 09.17500	01 14 45.77	+05 11 10.9	809
1993 TQ <sub>16</sub>	1993 10 11.13958	01 11 12.50	+03 51 54.3	809	1993 TZ <sub>16</sub>	1993 10 11.11319	01 13 14.72	+04 56 58.4	809
1993 TR <sub>16</sub>	* 1993 10 09.14861	01 13 54.25	+03 49 26.6	18.0 809	1993 TZ <sub>16</sub>	1993 10 11.12639	01 13 14.03	+04 56 52.9	809
1993 TR <sub>16</sub>	1993 10 09.16181	01 13 53.51	+03 49 19.2	809	1993 TZ <sub>16</sub>	1993 10 11.13958	01 13 13.34	+04 56 46.6	809
1993 TR <sub>16</sub>	1993 10 09.17500	01 13 52.75	+03 49 12.2	809	1993 TA <sub>17</sub>	* 1993 10 09.14861	01 14 52.14	+04 09 26.1	18.0 809
1993 TR <sub>16</sub>	1993 10 11.11319	01 12 13.43	+03 31 57.6	809	1993 TA <sub>17</sub>	1993 10 09.16181	01 14 51.46	+04 09 18.6	809
1993 TR <sub>16</sub>	1993 10 11.12639	01 12 12.72	+03 31 49.2	809	1993 TA <sub>17</sub>	1993 10 09.17500	01 14 50.86	+04 09 12.1	809
1993 TR <sub>16</sub>	1993 10 11.13958	01 12 11.93	+03 31 43.0	809	1993 TA <sub>17</sub>	1993 10 11.11319	01 13 31.19	+03 51 17.8	809
1993 TS <sub>16</sub>	* 1993 10 09.14861	01 13 58.45	+04 57 18.8	18.4 809	1993 TA <sub>17</sub>	1993 10 11.12639	01 13 30.57	+03 51 10.2	809
1993 TS <sub>16</sub>	1993 10 09.16181	01 13 57.88	+04 57 14.8	809	1993 TA <sub>17</sub>	1993 10 11.13958	01 13 29.94	+03 51 02.9	809
1993 TS <sub>16</sub>	1993 10 09.17500	01 13 57.12	+04 57 09.6	809	1993 TB <sub>17</sub>	* 1993 10 09.14861	01 14 59.27	+05 25 47.1	18.5 809
1993 TS <sub>16</sub>	1993 10 11.11319	01 12 23.91	+04 45 55.9	809	1993 TB <sub>17</sub>	1993 10 09.16181	01 14 58.71	+05 25 41.8	809
1993 TS <sub>16</sub>	1993 10 11.12639	01 12 23.17	+04 45 50.2	809	1993 TB <sub>17</sub>	1993 10 09.17500	01 14 57.95	+05 25 35.9	809
1993 TS <sub>16</sub>	1993 10 11.13958	01 12 22.50	+04 45 45.4	809	1993 TB <sub>17</sub>	1993 10 11.11319	01 13 30.02	+05 12 11.0	809
1993 TT <sub>16</sub>	* 1993 10 09.14861	01 14 10.82	+02 55 19.7	18.5 809	1993 TB <sub>17</sub>	1993 10 11.12639	01 13 29.38	+05 12 06.3	809
1993 TT <sub>16</sub>	1993 10 09.16181	01 14 10.29	+02 55 15.0	809	1993 TB <sub>17</sub>	1993 10 11.13958	01 13 28.66	+05 12 00.8	809
1993 TT <sub>16</sub>	1993 10 09.17500	01 14 09.53	+02 55 08.6	809	1993 TC <sub>17</sub>	* 1993 10 09.14861	01 15 10.19	+06 47 32.6	18.5 809
1993 TT <sub>16</sub>	1993 10 11.11319	01 12 38.58	+02 41 18.5	809	1993 TC <sub>17</sub>	1993 10 09.16181	01 15 09.71	+06 47 22.5	809
1993 TT <sub>16</sub>	1993 10 11.12639	01 12 37.90	+02 41 12.8	809	1993 TC <sub>17</sub>	1993 10 09.17500	01 15 09.21	+06 47 13.1	809
1993 TT <sub>16</sub>	1993 10 11.13958	01 12 37.19	+02 41 07.5	809	1993 TC <sub>17</sub>	1993 10 11.11319	01 14 02.26	+06 23 39.1	809
1993 TU <sub>16</sub>	* 1993 10 09.14861	01 14 14.31	+05 33 32.7	18.4 809	1993 TC <sub>17</sub>	1993 10 11.12639	01 14 01.80	+06 23 30.0	809
1993 TU <sub>16</sub>	1993 10 09.16181	01 14 13.64	+05 33 29.4	809	1993 TC <sub>17</sub>	1993 10 11.13958	01 14 01.23	+06 23 19.2	809
1993 TU <sub>16</sub>	1993 10 09.17500	01 14 12.94	+05 33 26.3	809	1993 TD <sub>17</sub>	* 1993 10 09.14861	01 15 20.62	+05 08 54.7	18.5 809
1993 TU <sub>16</sub>	1993 10 11.11319	01 12 43.36	+05 26 02.5	809	1993 TD <sub>17</sub>	1993 10 09.16181	01 15 19.93	+05 08 50.3	809
1993 TU <sub>16</sub>	1993 10 11.12639	01 12 42.55	+05 25 58.9	809	1993 TD <sub>17</sub>	1993 10 09.17500	01 15 19.17	+05 08 46.4	809
1993 TU <sub>16</sub>	1993 10 11.13958	01 12 41.89	+05 25 56.5	809	1993 TD <sub>17</sub>	1993 10 11.11319	01 13 42.63	+04 59 23.8	809
1993 TV <sub>16</sub>	* 1993 10 09.14861	01 14 21.23	+04 15 42.9	18.4 809	1993 TD <sub>17</sub>	1993 10 11.12639	01 13 41.87	+04 59 19.8	809
1993 TV <sub>16</sub>	1993 10 09.16181	01 14 20.40	+04 15 36.3	809	1993 TD <sub>17</sub>	1993 10 11.13958	01 13 41.18	+04 59 16.1	809
1993 TV <sub>16</sub>	1993 10 09.17500	01 14 19.73	+04 15 31.0	809	1993 TE <sub>17</sub>	* 1993 10 09.14861	01 15 21.40	+05 17 53.8	18.2 809
1993 TV <sub>16</sub>	1993 10 11.11319	01 12 41.77	+04 03 07.2	809	1993 TE <sub>17</sub>	1993 10 09.16181	01 15 20.81	+05 17 41.7	809
1993 TV <sub>16</sub>	1993 10 11.12639	01 12 41.01	+04 03 02.0	809	1993 TE <sub>17</sub>	1993 10 09.17500	01 15 20.26	+05 17 28.9	809
1993 TV <sub>16</sub>	1993 10 11.13958	01 12 40.28	+04 02 57.6	809	1993 TE <sub>17</sub>	1993 10 11.11319	01 14 14.49	+04 47 08.5	809
1993 TW <sub>16</sub>	* 1993 10 09.14861	01 14 25.31	+04 11 45.0	18.4 809	1993 TE <sub>17</sub>	1993 10 11.12639	01 14 14.01	+04 46 56.1	809
1993 TW <sub>16</sub>	1993 10 09.16181	01 14 24.61	+04 11 40.6	809	1993 TE <sub>17</sub>	1993 10 11.13958	01 14 13.45	+04 46 44.2	809
1993 TW <sub>16</sub>	1993 10 09.17500	01 14 23.99	+04 11 36.3	809	1993 TF <sub>17</sub>	* 1993 10 09.14861	01 15 37.46	+05 34 40.5	18.0 809
1993 TW <sub>16</sub>	1993 10 11.11319	01 12 53.29	+04 01 14.9	809	1993 TF <sub>17</sub>	1993 10 09.16181	01 15 36.71	+05 34 31.5	809
1993 TW <sub>16</sub>	1993 10 11.12639	01 12 52.59	+04 01 11.4	809	1993 TF <sub>17</sub>	1993 10 09.17500	01 15 35.97	+05 34 23.1	809
1993 TW <sub>16</sub>	1993 10 11.13958	01 12 51.87	+04 01 06.2	809	1993 TF <sub>17</sub>	1993 10 11.11319	01 13 52.84	+05 12 27.0	809
1993 TX <sub>16</sub>	* 1993 10 09.14861	01 14 30.27	+07 25 44.6	18.5 809	1993 TF <sub>17</sub>	1993 10 11.12639	01 13 52.11	+05 12 18.3	809
1993 TX <sub>16</sub>	1993 10 09.16181	01 14 29.64	+07 25 42.0	809	1993 TF <sub>17</sub>	1993 10 11.13958	01 13 51.35	+05 12 08.9	809
1993 TX <sub>16</sub>	1993 10 09.17500	01 14 28.95	+07 25 39.4	809	1993 TG <sub>17</sub>	* 1993 10 09.14861	01 15 44.71	+06 37 23.1	18.5 809
1993 TX <sub>16</sub>	1993 10 11.11319	01 12 59.56	+07 18 47.0	809	1993 TG <sub>17</sub>	1993 10 09.16181	01 15 44.09	+06 37 20.3	809
1993 TX <sub>16</sub>	1993 10 11.12639	01 12 58.86	+07 18 44.6	809	1993 TG <sub>17</sub>	1993 10 09.17500	01 15 43.40	+06 37 18.3	809

1993 TG <sub>17</sub>	1993 10 11.11319	01 14 11.48	+06 29 56.2	18.5	809	1993 TQ <sub>17</sub>	1993 10 09.16181	01 16 20.34	+04 17 35.2	809	
1993 TG <sub>17</sub>	1993 10 11.12639	01 14 10.80	+06 29 53.2		809	1993 TQ <sub>17</sub>	1993 10 09.17500	01 16 19.69	+04 17 30.0	809	
1993 TG <sub>17</sub>	1993 10 11.13958	01 14 10.20	+06 29 50.1		809	1993 TQ <sub>17</sub>	1993 10 11.11319	01 14 48.65	+04 03 47.0	809	
1993 TH <sub>17</sub>	* 1993 10 09.14861	01 15 50.04	+05 30 49.9	18.6	809	1993 TQ <sub>17</sub>	1993 10 11.12639	01 14 47.90	+04 03 41.0	809	
1993 TH <sub>17</sub>	1993 10 09.16181	01 15 49.29	+05 30 47.6		809	1993 TQ <sub>17</sub>	1993 10 11.13958	01 14 47.28	+04 03 36.4	809	
1993 TH <sub>17</sub>	1993 10 09.17500	01 15 48.57	+05 30 47.2		809	1993 TR <sub>17</sub>	* 1993 10 09.14861	01 16 33.98	+04 10 30.1	18.6	809
1993 TH <sub>17</sub>	1993 10 11.11319	01 14 02.55	+05 28 19.9		809	1993 TR <sub>17</sub>	1993 10 09.16181	01 16 33.17	+04 10 26.8	809	
1993 TH <sub>17</sub>	1993 10 11.12639	01 14 01.78	+05 28 19.1		809	1993 TR <sub>17</sub>	1993 10 09.17500	01 16 32.34	+04 10 20.8	809	
1993 TH <sub>17</sub>	1993 10 11.13958	01 14 01.16	+05 28 17.9		809	1993 TR <sub>17</sub>	1993 10 11.11319	01 14 51.06	+03 58 29.1	18.5	809
1993 TJ <sub>17</sub>	* 1993 10 09.14861	01 15 51.00	+04 40 32.5	18.5	809	1993 TR <sub>17</sub>	1993 10 11.12639	01 14 50.09	+03 58 23.7	809	
1993 TJ <sub>17</sub>	1993 10 09.16181	01 15 50.16	+04 40 31.0		809	1993 TR <sub>17</sub>	1993 10 11.13958	01 14 49.38	+03 58 17.6	809	
1993 TJ <sub>17</sub>	1993 10 09.17500	01 15 49.29	+04 40 28.5		809	1993 TS <sub>17</sub>	* 1993 10 09.14861	01 16 34.70	+07 17 51.5	18.0	809
1993 TJ <sub>17</sub>	1993 10 11.11319	01 13 48.61	+04 35 47.7		809	1993 TS <sub>17</sub>	1993 10 09.16181	01 16 33.94	+07 17 53.1	809	
1993 TJ <sub>17</sub>	1993 10 11.12639	01 13 47.71	+04 35 45.6		809	1993 TS <sub>17</sub>	1993 10 09.17500	01 16 33.11	+07 17 54.4	809	
1993 TJ <sub>17</sub>	1993 10 11.13958	01 13 46.81	+04 35 44.7		809	1993 TS <sub>17</sub>	1993 10 11.11319	01 14 44.51	+07 21 04.4	809	
1993 TK <sub>17</sub>	* 1993 10 09.14861	01 16 00.46	+03 31 29.0	18.3	809	1993 TS <sub>17</sub>	1993 10 11.12639	01 14 43.70	+07 21 06.2	809	
1993 TK <sub>17</sub>	1993 10 09.16181	01 15 59.60	+03 31 29.6		809	1993 TS <sub>17</sub>	1993 10 11.13958	01 14 42.87	+07 21 07.2	809	
1993 TK <sub>17</sub>	1993 10 09.17500	01 15 58.83	+03 31 29.2		809	1993 TT <sub>17</sub>	* 1993 10 09.14861	01 16 39.50	+07 27 36.0	18.4	809
1993 TK <sub>17</sub>	1993 10 11.11319	01 14 06.61	+03 33 07.8		809	1993 TT <sub>17</sub>	1993 10 09.16181	01 16 38.77	+07 27 34.3	809	
1993 TK <sub>17</sub>	1993 10 11.12639	01 14 05.85	+03 33 08.3		809	1993 TT <sub>17</sub>	1993 10 09.17500	01 16 38.04	+07 27 31.6	809	
1993 TK <sub>17</sub>	1993 10 11.13958	01 14 05.07	+03 33 08.9		809	1993 TT <sub>17</sub>	1993 10 11.11319	01 14 56.77	+07 20 40.9	809	
1993 TL <sub>17</sub>	* 1993 10 09.14861	01 16 06.68	+04 15 14.7	18.3	809	1993 TT <sub>17</sub>	1993 10 11.12639	01 14 55.92	+07 20 37.9	809	
1993 TL <sub>17</sub>	1993 10 09.16181	01 16 06.02	+04 15 09.5		809	1993 TT <sub>17</sub>	1993 10 11.13958	01 14 55.18	+07 20 35.2	809	
1993 TL <sub>17</sub>	1993 10 09.17500	01 16 05.32	+04 15 03.6		809	1993 TU <sub>17</sub>	* 1993 10 09.14861	01 16 43.22	+02 58 23.5	18.3	809
1993 TL <sub>17</sub>	1993 10 11.11319	01 14 34.86	+04 00 52.9		809	1993 TU <sub>17</sub>	1993 10 09.16181	01 16 42.62	+02 58 21.0	809	
1993 TL <sub>17</sub>	1993 10 11.12639	01 14 34.21	+04 00 47.3		809	1993 TU <sub>17</sub>	1993 10 09.17500	01 16 41.89	+02 58 17.1	809	
1993 TL <sub>17</sub>	1993 10 11.13958	01 14 33.47	+04 00 40.7		809	1993 TU <sub>17</sub>	1993 10 11.11319	01 15 13.15	+02 51 35.2	809	
1993 TM <sub>17</sub>	* 1993 10 09.14861	01 16 07.23	+06 39 07.4	18.5	809	1993 TU <sub>17</sub>	1993 10 11.12639	01 15 12.49	+02 51 32.2	809	
1993 TM <sub>17</sub>	1993 10 09.16181	01 16 06.47	+06 39 01.7		809	1993 TU <sub>17</sub>	1993 10 11.13958	01 15 11.77	+02 51 30.0	809	
1993 TM <sub>17</sub>	1993 10 09.17500	01 16 05.83	+06 38 57.5		809	1993 TV <sub>17</sub>	* 1993 10 09.14861	01 16 48.65	+03 06 57.1	18.2	809
1993 TM <sub>17</sub>	1993 10 11.11319	01 14 28.57	+06 25 29.4	18.5	809	1993 TV <sub>17</sub>	1993 10 09.16181	01 16 47.92	+03 06 56.5	809	
1993 TM <sub>17</sub>	1993 10 11.12639	01 14 27.89	+06 25 23.8		809	1993 TV <sub>17</sub>	1993 10 09.17500	01 16 47.14	+03 06 55.5	809	
1993 TM <sub>17</sub>	1993 10 11.13958	01 14 27.23	+06 25 18.7		809	1993 TV <sub>17</sub>	1993 10 11.11319	01 15 02.31	+03 06 02.4	809	
1993 TN <sub>17</sub>	* 1993 10 09.14861	01 16 10.01	+03 30 57.6	18.6	809	1993 TV <sub>17</sub>	1993 10 11.12639	01 15 01.49	+03 06 02.7	809	
1993 TN <sub>17</sub>	1993 10 09.16181	01 16 09.03	+03 30 54.8		809	1993 TV <sub>17</sub>	1993 10 11.13958	01 15 00.69	+03 06 02.3	809	
1993 TN <sub>17</sub>	1993 10 09.17500	01 16 08.23	+03 30 50.3		809	1993 TW <sub>17</sub>	* 1993 10 09.14861	01 16 52.23	+05 28 19.4	18.1	809
1993 TN <sub>17</sub>	1993 10 11.11319	01 14 04.28	+03 21 32.6		809	1993 TW <sub>17</sub>	1993 10 09.16181	01 16 51.59	+05 28 08.5	809	
1993 TN <sub>17</sub>	1993 10 11.12639	01 14 03.36	+03 21 27.5		809	1993 TW <sub>17</sub>	1993 10 09.17500	01 16 51.06	+05 27 57.1	809	
1993 TN <sub>17</sub>	1993 10 11.13958	01 14 02.55	+03 21 23.4		809	1993 TW <sub>17</sub>	1993 10 11.11319	01 15 34.64	+05 01 08.6	809	
1993 TO <sub>17</sub>	* 1993 10 09.14861	01 16 10.41	+06 38 53.1	18.3	809	1993 TW <sub>17</sub>	1993 10 11.12639	01 15 34.06	+05 00 57.7	809	
1993 TO <sub>17</sub>	1993 10 09.16181	01 16 09.65	+06 38 50.6		809	1993 TW <sub>17</sub>	1993 10 11.13958	01 15 33.49	+05 00 46.7	809	
1993 TO <sub>17</sub>	1993 10 09.17500	01 16 08.89	+06 38 47.8		809	1993 TW <sub>17</sub>	* 1993 10 09.14861	01 16 58.50	+06 41 17.1	18.7	809
1993 TO <sub>17</sub>	1993 10 11.11319	01 14 23.09	+06 31 17.6	18.3	809	1993 TX <sub>17</sub>	1993 10 09.16181	01 16 57.66	+06 41 11.8	809	
1993 TO <sub>17</sub>	1993 10 11.12639	01 14 22.39	+06 31 15.2		809	1993 TX <sub>17</sub>	1993 10 09.17500	01 16 56.86	+06 41 07.3	809	
1993 TO <sub>17</sub>	1993 10 11.13958	01 14 21.62	+06 31 11.9		809	1993 TX <sub>17</sub>	1993 10 11.11319	01 15 05.12	+06 29 47.4	809	
1993 TP <sub>17</sub>	* 1993 10 09.14861	01 16 12.69	+06 39 27.8	18.4	809	1993 TX <sub>17</sub>	1993 10 11.12639	01 15 04.35	+06 29 42.0	809	
1993 TP <sub>17</sub>	1993 10 09.16181	01 16 11.80	+06 39 26.5		809	1993 TX <sub>17</sub>	1993 10 11.13958	01 15 03.65	+06 29 39.7	809	
1993 TP <sub>17</sub>	1993 10 09.17500	01 16 10.83	+06 39 27.5		809	1993 TY <sub>17</sub>	* 1993 10 09.14861	01 17 06.29	+03 34 15.3	18.4	809
1993 TP <sub>17</sub>	1993 10 11.11319	01 14 02.06	+06 38 29.5	18.6	809	1993 TY <sub>17</sub>	1993 10 09.16181	01 17 05.57	+03 34 09.0	809	
1993 TP <sub>17</sub>	1993 10 11.12639	01 14 01.20	+06 38 29.6		809	1993 TY <sub>17</sub>	1993 10 09.17500	01 17 04.83	+03 34 02.6	809	
1993 TP <sub>17</sub>	1993 10 11.13958	01 14 00.28	+06 38 28.9		809	1993 TY <sub>17</sub>	1993 10 11.11319	01 15 24.22	+03 19 26.5	809	
1993 TQ <sub>17</sub>	* 1993 10 09.14861	01 16 21.00	+04 17 41.8	18.3	809	1993 TY <sub>17</sub>	1993 10 11.12639	01 15 23.52	+03 19 20.7	809	

1993 TY <sub>17</sub>	1993 10 11.13958	01 15 22.70	+03 19 14.4		809	1993 TH <sub>18</sub>	1993 10 11.11319	01 16 19.89	+05 14 50.1		809
1993 TZ <sub>17</sub>	* 1993 10 09.14861	01 17 06.41	+04 06 22.3	18.0	809	1993 TH <sub>18</sub>	1993 10 11.12639	01 16 19.15	+05 14 46.1		809
1993 TZ <sub>17</sub>	1993 10 09.16181	01 17 05.76	+04 06 18.0		809	1993 TH <sub>18</sub>	1993 10 11.13958	01 16 18.60	+05 14 41.8		809
1993 TZ <sub>17</sub>	1993 10 09.17500	01 17 05.03	+04 06 12.5		809	1993 TJ <sub>18</sub>	* 1993 10 09.14861	01 17 58.51	+07 27 16.6	18.5	809
1993 TZ <sub>17</sub>	1993 10 11.11319	01 15 29.95	+03 54 30.0		809	1993 TJ <sub>18</sub>	1993 10 09.16181	01 17 57.54	+07 27 16.0		809
1993 TZ <sub>17</sub>	1993 10 11.12639	01 15 29.26	+03 54 25.9		809	1993 TJ <sub>18</sub>	1993 10 09.17500	01 17 56.51	+07 27 13.7		809
1993 TZ <sub>17</sub>	1993 10 11.13958	01 15 28.52	+03 54 20.8		809	1993 TJ <sub>18</sub>	1993 10 11.11319	01 15 48.75	+07 22 42.7		809
1993 TA <sub>18</sub>	* 1993 10 09.14861	01 17 11.02	+07 07 34.6		809	1993 TJ <sub>18</sub>	1993 10 11.12639	01 15 47.93	+07 22 41.1		809
1993 TA <sub>18</sub>	1993 10 09.16181	01 17 10.20	+07 07 31.4	18.4	809	1993 TJ <sub>18</sub>	1993 10 11.13958	01 15 46.98	+07 22 38.6		809
1993 TA <sub>18</sub>	1993 10 09.17500	01 17 09.28	+07 07 28.9		809	1993 TK <sub>18</sub>	* 1993 10 09.14861	01 17 59.23	+03 54 27.7	18.5	809
1993 TA <sub>18</sub>	1993 10 11.11319	01 15 12.98	+07 01 14.3		809	1993 TK <sub>18</sub>	1993 10 09.16181	01 17 58.52	+03 54 22.3		809
1993 TA <sub>18</sub>	1993 10 11.12639	01 15 12.18	+07 01 11.1		809	1993 TK <sub>18</sub>	1993 10 09.17500	01 17 57.82	+03 54 17.3		809
1993 TA <sub>18</sub>	1993 10 11.13958	01 15 11.35	+07 01 08.6		809	1993 TK <sub>18</sub>	1993 10 11.11319	01 16 20.58	+03 41 15.3		809
1993 TB <sub>18</sub>	* 1993 10 09.14861	01 17 11.18	+06 05 08.9	18.0	809	1993 TK <sub>18</sub>	1993 10 11.12639	01 16 19.72	+03 41 08.9		809
1993 TB <sub>18</sub>	1993 10 09.16181	01 17 10.35	+06 05 04.0		809	1993 TK <sub>18</sub>	1993 10 11.13958	01 16 18.94	+03 41 03.9		809
1993 TB <sub>18</sub>	1993 10 09.17500	01 17 09.57	+06 04 58.8		809	1993 TL <sub>18</sub>	* 1993 10 09.14861	01 18 08.68	+05 25 51.3	18.3	809
1993 TB <sub>18</sub>	1993 10 11.11319	01 15 21.13	+05 52 04.0		809	1993 TL <sub>18</sub>	1993 10 09.16181	01 18 08.08	+05 25 48.8		809
1993 TB <sub>18</sub>	1993 10 11.12639	01 15 20.34	+05 51 59.1		809	1993 TL <sub>18</sub>	1993 10 09.17500	01 18 07.44	+05 25 46.4		809
1993 TB <sub>18</sub>	1993 10 11.13958	01 15 19.54	+05 51 54.0		809	1993 TL <sub>18</sub>	1993 10 11.11319	01 16 39.50	+05 18 58.8		809
1993 TC <sub>18</sub>	* 1993 10 09.14861	01 17 20.24	+04 51 29.2	18.5	809	1993 TL <sub>18</sub>	1993 10 11.12639	01 16 38.90	+05 18 56.6		809
1993 TC <sub>18</sub>	1993 10 09.16181	01 17 19.48	+04 51 26.1		809	1993 TL <sub>18</sub>	1993 10 11.13958	01 16 38.21	+05 18 54.0		809
1993 TC <sub>18</sub>	1993 10 09.17500	01 17 18.79	+04 51 20.0		809	1993 TM <sub>18</sub>	* 1993 10 09.14861	01 18 28.36	+03 45 15.6	18.2	809
1993 TC <sub>18</sub>	1993 10 11.11319	01 15 40.07	+04 40 47.3		809	1993 TM <sub>18</sub>	1993 10 09.16181	01 18 27.56	+03 45 13.9		809
1993 TC <sub>18</sub>	1993 10 11.12639	01 15 39.33	+04 40 42.1		809	1993 TM <sub>18</sub>	1993 10 09.17500	01 18 26.82	+03 45 11.2		809
1993 TC <sub>18</sub>	1993 10 11.13958	01 15 38.58	+04 40 37.4		809	1993 TM <sub>18</sub>	1993 10 11.11319	01 16 41.47	+03 39 29.9		809
1993 TD <sub>18</sub>	* 1993 10 09.14861	01 17 39.39	+05 19 09.5	18.5	809	1993 TM <sub>18</sub>	1993 10 11.12639	01 16 40.64	+03 39 27.8		809
1993 TD <sub>18</sub>	1993 10 09.16181	01 17 38.67	+05 19 08.7		809	1993 TM <sub>18</sub>	1993 10 11.13958	01 16 39.92	+03 39 25.4		809
1993 TD <sub>18</sub>	1993 10 09.17500	01 17 37.93	+05 19 07.3		809	1993 TN <sub>18</sub>	* 1993 10 09.14861	01 18 29.64	+04 19 11.4	18.2	809
1993 TD <sub>18</sub>	1993 10 11.11319	01 15 54.11	+05 15 30.5		809	1993 TN <sub>18</sub>	1993 10 09.16181	01 18 28.86	+04 19 07.5		809
1993 TD <sub>18</sub>	1993 10 11.12639	01 15 53.42	+05 15 29.3		809	1993 TN <sub>18</sub>	1993 10 09.17500	01 18 28.19	+04 19 04.8		809
1993 TD <sub>18</sub>	1993 10 11.13958	01 15 52.62	+05 15 26.9		809	1993 TN <sub>18</sub>	1993 10 11.11319	01 16 48.28	+04 10 43.4		809
1993 TE <sub>18</sub>	* 1993 10 09.14861	01 17 39.55	+06 22 36.0	18.6	809	1993 TN <sub>18</sub>	1993 10 11.12639	01 16 47.56	+04 10 39.9		809
1993 TE <sub>18</sub>	1993 10 09.16181	01 17 38.92	+06 22 32.6		809	1993 TN <sub>18</sub>	1993 10 11.13958	01 16 46.78	+04 10 37.0		809
1993 TE <sub>18</sub>	1993 10 09.17500	01 17 38.29	+06 22 27.7		809	1993 TO <sub>18</sub>	* 1993 10 09.14861	01 18 36.06	+07 32 11.1	18.7	809
1993 TE <sub>18</sub>	1993 10 11.11319	01 16 11.61	+06 12 31.6		809	1993 TO <sub>18</sub>	1993 10 09.16181	01 18 35.19	+07 32 08.7		809
1993 TE <sub>18</sub>	1993 10 11.12639	01 16 10.92	+06 12 26.8		809	1993 TO <sub>18</sub>	1993 10 09.17500	01 18 34.43	+07 32 03.8		809
1993 TE <sub>18</sub>	1993 10 11.13958	01 16 10.28	+06 12 23.8		809	1993 TO <sub>18</sub>	1993 10 11.11319	01 16 41.77	+07 22 55.8		809
1993 TF <sub>18</sub>	* 1993 10 09.14861	01 17 43.54	+06 27 40.8	18.2	809	1993 TO <sub>18</sub>	1993 10 11.12639	01 16 40.92	+07 22 51.6		809
1993 TF <sub>18</sub>	1993 10 09.16181	01 17 42.77	+06 27 38.8		809	1993 TO <sub>18</sub>	1993 10 11.13958	01 16 40.20	+07 22 47.7		809
1993 TF <sub>18</sub>	1993 10 09.17500	01 17 41.99	+06 27 36.2		809	1993 TP <sub>18</sub>	* 1993 10 09.14861	01 18 44.04	+05 34 18.7	18.4	809
1993 TF <sub>18</sub>	1993 10 11.11319	01 15 56.04	+06 20 59.8		809	1993 TP <sub>18</sub>	1993 10 09.16181	01 18 43.45	+05 34 14.4		809
1993 TF <sub>18</sub>	1993 10 11.12639	01 15 55.28	+06 20 58.2		809	1993 TP <sub>18</sub>	1993 10 09.17500	01 18 42.76	+05 34 11.8		809
1993 TF <sub>18</sub>	1993 10 11.13958	01 15 54.48	+06 20 55.2		809	1993 TP <sub>18</sub>	1993 10 11.11319	01 17 12.86	+05 24 47.1		809
1993 TG <sub>18</sub>	* 1993 10 09.14861	01 17 47.80	+06 28 18.9	18.5	809	1993 TP <sub>18</sub>	1993 10 11.12639	01 17 12.21	+05 24 42.9		809
1993 TG <sub>18</sub>	1993 10 09.16181	01 17 47.25	+06 28 14.3		809	1993 TP <sub>18</sub>	1993 10 11.13958	01 17 11.57	+05 24 39.1		809
1993 TG <sub>18</sub>	1993 10 09.17500	01 17 46.63	+06 28 09.6		809	1993 TQ <sub>18</sub>	* 1993 10 09.14861	01 18 46.27	+03 49 51.2	18.0	809
1993 TG <sub>18</sub>	1993 10 11.11319	01 16 22.76	+06 16 33.6		809	1993 TQ <sub>18</sub>	1993 10 09.16181	01 18 45.65	+03 49 45.2		809
1993 TG <sub>18</sub>	1993 10 11.12639	01 16 22.12	+06 16 30.0		809	1993 TQ <sub>18</sub>	1993 10 09.17500	01 18 45.05	+03 49 39.3		809
1993 TG <sub>18</sub>	1993 10 11.13958	01 16 21.54	+06 16 24.8		809	1993 TQ <sub>18</sub>	1993 10 11.11319	01 17 22.15	+03 34 58.9		809
1993 TH <sub>18</sub>	* 1993 10 09.14861	01 17 49.30	+05 24 41.6	18.4	809	1993 TQ <sub>18</sub>	1993 10 11.12639	01 17 21.50	+03 34 52.7		809
1993 TH <sub>18</sub>	1993 10 09.16181	01 17 48.62	+05 24 37.0		809	1993 TQ <sub>18</sub>	1993 10 11.13958	01 17 20.88	+03 34 46.4		809
1993 TH <sub>18</sub>	1993 10 09.17500	01 17 47.97	+05 24 33.6		809	1993 TR <sub>18</sub>	* 1993 10 09.14861	01 18 53.58	+07 02 46.6		809

1993 TR <sub>18</sub>	1993 10 09.16181	01 18 52.78	+07 02 43.4	18.2	809	1993 TZ <sub>18</sub>	1993 10 11.13958	01 17 59.27	+04 04 08.8		809
1993 TR <sub>18</sub>	1993 10 09.17500	01 18 52.03	+07 02 39.9		809	1993 TA <sub>19</sub>	* 1993 10 09.14861	01 19 44.46	+07 32 22.9	18.0	809
1993 TR <sub>18</sub>	1993 10 11.11319	01 17 01.13	+06 53 30.1		809	1993 TA <sub>19</sub>	1993 10 09.16181	01 19 43.64	+07 32 18.3		809
1993 TR <sub>18</sub>	1993 10 11.12639	01 17 00.30	+06 53 25.5		809	1993 TA <sub>19</sub>	1993 10 09.17500	01 19 42.79	+07 32 12.4		809
1993 TR <sub>18</sub>	1993 10 11.13958	01 16 59.54	+06 53 22.3		809	1993 TA <sub>19</sub>	1993 10 11.11319	01 17 49.81	+07 19 23.8		809
1993 TS <sub>18</sub>	* 1993 10 09.14861	01 19 00.86	+06 15 58.1	18.5	809	1993 TA <sub>19</sub>	1993 10 11.12639	01 17 48.93	+07 19 17.7		809
1993 TS <sub>18</sub>	1993 10 09.16181	01 18 59.97	+06 15 54.9		809	1993 TA <sub>19</sub>	1993 10 11.13958	01 17 48.13	+07 19 13.1		809
1993 TS <sub>18</sub>	1993 10 09.17500	01 18 59.07	+06 15 51.5		809	1993 TB <sub>19</sub>	* 1993 10 09.14861	01 19 48.20	+04 35 48.7	18.4	809
1993 TS <sub>18</sub>	1993 10 11.11319	01 17 04.99	+06 07 18.2		809	1993 TB <sub>19</sub>	1993 10 09.16181	01 19 47.58	+04 35 46.3		809
1993 TS <sub>18</sub>	1993 10 11.12639	01 17 04.16	+06 07 13.9		809	1993 TB <sub>19</sub>	1993 10 09.17500	01 19 46.85	+04 35 43.0		809
1993 TS <sub>18</sub>	1993 10 11.13958	01 17 03.44	+06 07 11.3		809	1993 TB <sub>19</sub>	1993 10 11.11319	01 18 08.23	+04 28 19.0		809
1993 TT <sub>18</sub>	* 1993 10 09.14861	01 19 08.57	+06 54 18.8		809	1993 TB <sub>19</sub>	1993 10 11.12639	01 18 07.49	+04 28 16.0		809
1993 TT <sub>18</sub>	1993 10 09.16181	01 19 07.91	+06 54 12.5	18.3	809	1993 TB <sub>19</sub>	1993 10 11.13958	01 18 06.78	+04 28 13.1		809
1993 TT <sub>18</sub>	1993 10 09.17500	01 19 07.20	+06 54 05.7		809	1993 TC <sub>19</sub>	* 1993 10 09.14861	01 19 53.10	+07 45 12.5	18.2	809
1993 TT <sub>18</sub>	1993 10 11.11319	01 17 37.09	+06 37 09.1	18.3	809	1993 TC <sub>19</sub>	1993 10 09.16181	01 19 52.54	+07 45 09.3		809
1993 TT <sub>18</sub>	1993 10 11.12639	01 17 36.45	+06 37 02.8		809	1993 TC <sub>19</sub>	1993 10 09.17500	01 19 51.84	+07 45 05.7		809
1993 TT <sub>18</sub>	1993 10 11.13958	01 17 35.83	+06 36 56.4		809	1993 TC <sub>19</sub>	1993 10 11.11319	01 18 22.39	+07 36 36.3		809
1993 TU <sub>18</sub>	* 1993 10 09.14861	01 19 16.80	+07 55 26.9	18.0	809	1993 TC <sub>19</sub>	1993 10 11.12639	01 18 21.84	+07 36 33.8		809
1993 TU <sub>18</sub>	1993 10 09.16181	01 19 16.04	+07 55 18.6		809	1993 TC <sub>19</sub>	1993 10 11.13958	01 18 21.13	+07 36 30.1		809
1993 TU <sub>18</sub>	1993 10 09.17500	01 19 15.36	+07 55 10.6		809	1993 TD <sub>19</sub>	* 1993 10 09.14861	01 20 01.99	+06 56 24.1		809
1993 TU <sub>18</sub>	1993 10 11.11319	01 17 33.22	+07 34 50.6		809	1993 TD <sub>19</sub>	1993 10 09.16181	01 20 01.17	+06 56 18.3	18.5	809
1993 TU <sub>18</sub>	1993 10 11.12639	01 17 32.47	+07 34 42.3		809	1993 TD <sub>19</sub>	1993 10 09.17500	01 20 00.36	+06 56 12.1		809
1993 TU <sub>18</sub>	1993 10 11.13958	01 17 31.71	+07 34 33.0		809	1993 TD <sub>19</sub>	1993 10 11.11319	01 18 11.33	+06 42 15.8		809
1993 TV <sub>18</sub>	* 1993 10 09.14861	01 19 17.72	+05 05 32.0	18.6	809	1993 TD <sub>19</sub>	1993 10 11.12639	01 18 10.63	+06 42 09.1		809
1993 TV <sub>18</sub>	1993 10 09.16181	01 19 17.02	+05 05 27.8		809	1993 TD <sub>19</sub>	1993 10 11.13958	01 18 09.77	+06 42 03.1		809
1993 TV <sub>18</sub>	1993 10 09.17500	01 19 16.36	+05 05 22.7		809	1993 TE <sub>19</sub>	* 1993 10 09.14861	01 20 33.05	+07 42 11.7	18.5	809
1993 TV <sub>18</sub>	1993 10 11.11319	01 17 40.52	+04 53 29.9	18.5	809	1993 TE <sub>19</sub>	1993 10 09.16181	01 20 32.27	+07 42 05.2		809
1993 TV <sub>18</sub>	1993 10 11.12639	01 17 39.80	+04 53 24.8		809	1993 TE <sub>19</sub>	1993 10 09.17500	01 20 31.52	+07 41 57.2		809
1993 TV <sub>18</sub>	1993 10 11.13958	01 17 39.06	+04 53 19.7		809	1993 TE <sub>19</sub>	1993 10 11.11319	01 18 48.23	+07 24 10.0		809
1993 TW <sub>18</sub>	* 1993 10 09.14861	01 19 19.18	+07 08 05.9		809	1993 TE <sub>19</sub>	1993 10 11.12639	01 18 47.57	+07 24 03.9		809
1993 TW <sub>18</sub>	1993 10 09.16181	01 19 18.42	+07 08 02.9	18.4	809	1993 TE <sub>19</sub>	1993 10 11.13958	01 18 46.86	+07 23 56.8		809
1993 TW <sub>18</sub>	1993 10 09.17500	01 19 17.64	+07 07 58.8		809	1993 TF <sub>19</sub>	* 1993 10 09.14861	01 20 39.07	+04 52 23.3	18.5	809
1993 TW <sub>18</sub>	1993 10 11.11319	01 17 28.83	+06 59 07.8		809	1993 TF <sub>19</sub>	1993 10 09.16181	01 20 38.36	+04 52 17.6		809
1993 TW <sub>18</sub>	1993 10 11.12639	01 17 28.07	+06 59 05.2		809	1993 TF <sub>19</sub>	1993 10 09.17500	01 20 37.80	+04 52 12.6		809
1993 TW <sub>18</sub>	1993 10 11.13958	01 17 27.33	+06 59 00.0		809	1993 TF <sub>19</sub>	1993 10 11.11319	01 19 12.09	+04 38 25.8		809
1993 TX <sub>18</sub>	* 1993 10 09.14861	01 19 21.55	+02 45 56.2	18.4	809	1993 TF <sub>19</sub>	1993 10 11.12639	01 19 11.54	+04 38 21.2		809
1993 TX <sub>18</sub>	1993 10 09.16181	01 19 21.00	+02 45 50.4		809	1993 TF <sub>19</sub>	1993 10 11.13958	01 19 10.87	+04 38 15.3		809
1993 TX <sub>18</sub>	1993 10 09.17500	01 19 20.39	+02 45 43.6		809	1993 TG <sub>19</sub>	* 1993 10 09.14861	01 20 39.37	+04 30 20.3	18.2	809
1993 TX <sub>18</sub>	1993 10 11.11319	01 18 02.03	+02 29 39.0		809	1993 TG <sub>19</sub>	1993 10 09.16181	01 20 38.55	+04 30 16.0		809
1993 TX <sub>18</sub>	1993 10 11.12639	01 18 01.48	+02 29 32.8		809	1993 TG <sub>19</sub>	1993 10 09.17500	01 20 37.72	+04 30 13.8		809
1993 TX <sub>18</sub>	1993 10 11.13958	01 18 00.83	+02 29 25.1		809	1993 TG <sub>19</sub>	1993 10 11.11319	01 18 40.97	+04 21 48.6		809
1993 TY <sub>18</sub>	* 1993 10 09.14861	01 19 22.98	+05 43 55.9	18.0	809	1993 TG <sub>19</sub>	1993 10 11.12639	01 18 40.16	+04 21 44.7		809
1993 TY <sub>18</sub>	1993 10 09.16181	01 19 22.27	+05 43 48.7		809	1993 TG <sub>19</sub>	1993 10 11.13958	01 18 39.31	+04 21 41.9		809
1993 TY <sub>18</sub>	1993 10 09.17500	01 19 21.52	+05 43 40.0		809	1993 TH <sub>19</sub>	* 1993 10 09.14861	01 20 42.45	+07 41 58.4	18.3	809
1993 TY <sub>18</sub>	1993 10 11.11319	01 17 47.21	+05 23 26.6		809	1993 TH <sub>19</sub>	1993 10 09.16181	01 20 41.74	+07 41 55.1		809
1993 TY <sub>18</sub>	1993 10 11.12639	01 17 46.60	+05 23 19.1		809	1993 TH <sub>19</sub>	1993 10 09.17500	01 20 41.10	+07 41 50.9		809
1993 TY <sub>18</sub>	1993 10 11.13958	01 17 45.89	+05 23 10.8		809	1993 TH <sub>19</sub>	1993 10 11.11319	01 19 09.97	+07 32 37.5		809
1993 TZ <sub>18</sub>	* 1993 10 09.14861	01 19 28.59	+04 21 54.0	18.3	809	1993 TH <sub>19</sub>	1993 10 11.12639	01 19 09.28	+07 32 34.5		809
1993 TZ <sub>18</sub>	1993 10 09.16181	01 19 27.92	+04 21 46.7		809	1993 TH <sub>19</sub>	1993 10 11.13958	01 19 08.73	+07 32 29.8		809
1993 TZ <sub>18</sub>	1993 10 09.17500	01 19 27.28	+04 21 40.3		809	1993 TJ <sub>19</sub>	* 1993 10 09.14861	01 20 44.61	+06 18 20.3	18.6	809
1993 TZ <sub>18</sub>	1993 10 11.11319	01 18 00.58	+04 04 24.3		809	1993 TJ <sub>19</sub>	1993 10 09.16181	01 20 43.87	+06 18 17.7		809
1993 TZ <sub>18</sub>	1993 10 11.12639	01 17 59.91	+04 04 16.2		809	1993 TJ <sub>19</sub>	1993 10 09.17500	01 20 43.02	+06 18 11.4		809

1993 TJ <sub>19</sub>	1993 10 11.11319	01 19 02.27	+06 07 08.8		809	1993 TS <sub>19</sub>	1993 10 09.16181	01 21 36.72	+07 27 50.6		809
1993 TJ <sub>19</sub>	1993 10 11.12639	01 19 01.51	+06 07 03.9		809	1993 TS <sub>19</sub>	1993 10 09.17500	01 21 35.80	+07 27 49.5		809
1993 TJ <sub>19</sub>	1993 10 11.13958	01 19 00.67	+06 06 59.1		809	1993 TS <sub>19</sub>	1993 10 11.11319	01 19 27.14	+07 25 46.7		809
1993 TK <sub>19</sub>	* 1993 10 09.14861	01 20 49.21	+04 18 26.2	18.5	809	1993 TS <sub>19</sub>	1993 10 11.12639	01 19 26.23	+07 25 45.4		809
1993 TK <sub>19</sub>	1993 10 09.16181	01 20 48.36	+04 18 23.0		809	1993 TS <sub>19</sub>	1993 10 11.13958	01 19 25.31	+07 25 45.0		809
1993 TK <sub>19</sub>	1993 10 09.17500	01 20 47.46	+04 18 22.2		809	1993 TT <sub>19</sub>	* 1993 10 09.14861	01 21 38.82	+06 20 25.6	18.6	809
1993 TK <sub>19</sub>	1993 10 11.11319	01 18 57.98	+04 12 21.9		809	1993 TT <sub>19</sub>	1993 10 09.16181	01 21 38.14	+06 20 22.2		809
1993 TK <sub>19</sub>	1993 10 11.12639	01 18 57.15	+04 12 19.4		809	1993 TT <sub>19</sub>	1993 10 09.17500	01 21 37.42	+06 20 17.3		809
1993 TK <sub>19</sub>	1993 10 11.13958	01 18 56.34	+04 12 15.8		809	1993 TT <sub>19</sub>	1993 10 11.11319	01 20 06.04	+06 12 24.8		809
1993 TL <sub>19</sub>	* 1993 10 09.14861	01 20 49.41	+06 39 33.3		809	1993 TT <sub>19</sub>	1993 10 11.12639	01 20 05.40	+06 12 22.1		809
1993 TL <sub>19</sub>	1993 10 09.16181	01 20 48.75	+06 39 23.8	18.7	809	1993 TT <sub>19</sub>	1993 10 11.13958	01 20 04.59	+06 12 17.2		809
1993 TL <sub>19</sub>	1993 10 09.17500	01 20 48.10	+06 39 14.8		809	1993 TU <sub>19</sub>	* 1993 10 09.14861	01 21 43.24	+06 16 08.6	18.4	809
1993 TL <sub>19</sub>	1993 10 11.11319	01 19 23.50	+06 18 05.5		809	1993 TU <sub>19</sub>	1993 10 09.16181	01 21 42.62	+06 16 03.0		809
1993 TL <sub>19</sub>	1993 10 11.12639	01 19 22.90	+06 17 57.7		809	1993 TU <sub>19</sub>	1993 10 09.17500	01 21 41.96	+06 15 58.1		809
1993 TL <sub>19</sub>	1993 10 11.13958	01 19 22.26	+06 17 47.8		809	1993 TU <sub>19</sub>	1993 10 11.11319	01 20 13.84	+06 02 40.9		809
1993 TM <sub>19</sub>	* 1993 10 09.14861	01 20 49.95	+04 58 25.6	18.4	809	1993 TU <sub>19</sub>	1993 10 11.12639	01 20 13.15	+06 02 34.4		809
1993 TM <sub>19</sub>	1993 10 09.16181	01 20 49.26	+04 58 22.6		809	1993 TU <sub>19</sub>	1993 10 11.13958	01 20 12.49	+06 02 29.4		809
1993 TM <sub>19</sub>	1993 10 09.17500	01 20 48.52	+04 58 20.1		809	1993 TV <sub>19</sub>	* 1993 10 09.14861	01 22 00.16	+03 28 07.9	18.2	809
1993 TM <sub>19</sub>	1993 10 11.11319	01 19 08.00	+04 51 19.2		809	1993 TV <sub>19</sub>	1993 10 09.16181	01 21 59.45	+03 28 05.3		809
1993 TM <sub>19</sub>	1993 10 11.12639	01 19 07.26	+04 51 15.6		809	1993 TV <sub>19</sub>	1993 10 09.17500	01 21 58.77	+03 28 01.6		809
1993 TM <sub>19</sub>	1993 10 11.13958	01 19 06.55	+04 51 13.8		809	1993 TV <sub>19</sub>	1993 10 11.11319	01 20 24.76	+03 19 21.5		809
1993 TN <sub>19</sub>	* 1993 10 09.14861	01 21 06.74	+07 16 51.5	18.5	809	1993 TV <sub>19</sub>	1993 10 11.12639	01 20 24.02	+03 19 18.2		809
1993 TN <sub>19</sub>	1993 10 09.16181	01 21 05.98	+07 16 51.3		809	1993 TV <sub>19</sub>	1993 10 11.13958	01 20 23.37	+03 19 13.9		809
1993 TN <sub>19</sub>	1993 10 09.17500	01 21 05.15	+07 16 48.0		809	1993 TW <sub>19</sub>	* 1993 10 09.14861	01 22 04.84	+04 22 42.4	18.5	809
1993 TN <sub>19</sub>	1993 10 11.11319	01 19 15.23	+07 12 05.5		809	1993 TW <sub>19</sub>	1993 10 09.16181	01 22 04.14	+04 22 38.5		809
1993 TN <sub>19</sub>	1993 10 11.12639	01 19 14.36	+07 12 02.6		809	1993 TW <sub>19</sub>	1993 10 09.17500	01 22 03.36	+04 22 35.9		809
1993 TN <sub>19</sub>	1993 10 11.13958	01 19 13.55	+07 12 00.6		809	1993 TW <sub>19</sub>	1993 10 11.11319	01 20 19.89	+04 14 52.0		809
1993 TO <sub>19</sub>	* 1993 10 09.14861	01 21 22.87	+05 19 50.1	18.3	809	1993 TW <sub>19</sub>	1993 10 11.12639	01 20 19.19	+04 14 49.9		809
1993 TO <sub>19</sub>	1993 10 09.16181	01 21 22.13	+05 19 48.1		809	1993 TW <sub>19</sub>	1993 10 11.13958	01 20 18.48	+04 14 47.0		809
1993 TO <sub>19</sub>	1993 10 09.17500	01 21 21.42	+05 19 46.2		809	1993 TX <sub>19</sub>	* 1993 10 09.14861	01 22 23.52	+07 05 48.3		809
1993 TO <sub>19</sub>	1993 10 11.11319	01 19 46.92	+05 14 54.9		809	1993 TX <sub>19</sub>	1993 10 09.16181	01 22 22.83	+07 05 43.4	18.3	809
1993 TO <sub>19</sub>	1993 10 11.12639	01 19 46.20	+05 14 52.6		809	1993 TX <sub>19</sub>	1993 10 09.17500	01 22 22.07	+07 05 36.7		809
1993 TO <sub>19</sub>	1993 10 11.13958	01 19 45.49	+05 14 50.8		809	1993 TX <sub>19</sub>	1993 10 11.11319	01 20 42.00	+06 51 51.9	18.3	809
1993 TP <sub>19</sub>	* 1993 10 09.14861	01 21 27.77	+04 05 00.7	18.0	809	1993 TX <sub>19</sub>	1993 10 11.12639	01 20 41.20	+06 51 45.2		809
1993 TP <sub>19</sub>	1993 10 09.16181	01 21 27.00	+04 04 54.9		809	1993 TX <sub>19</sub>	1993 10 11.13958	01 20 40.58	+06 51 40.5		809
1993 TP <sub>19</sub>	1993 10 09.17500	01 21 26.27	+04 04 47.7		809	1993 TY <sub>19</sub>	* 1993 10 09.14861	01 22 25.55	+04 41 44.4	18.3	809
1993 TP <sub>19</sub>	1993 10 11.11319	01 19 43.09	+03 49 21.8		809	1993 TY <sub>19</sub>	1993 10 09.16181	01 22 24.65	+04 41 42.1		809
1993 TP <sub>19</sub>	1993 10 11.12639	01 19 42.35	+03 49 15.0		809	1993 TY <sub>19</sub>	1993 10 09.17500	01 22 23.80	+04 41 40.0		809
1993 TP <sub>19</sub>	1993 10 11.13958	01 19 41.59	+03 49 08.7		809	1993 TY <sub>19</sub>	1993 10 11.11319	01 20 16.89	+04 35 47.9	18.4	809
1993 TQ <sub>19</sub>	* 1993 10 09.14861	01 21 28.73	+07 10 26.6	18.4	809	1993 TY <sub>19</sub>	1993 10 11.12639	01 20 15.94	+04 35 45.2		809
1993 TQ <sub>19</sub>	1993 10 09.16181	01 21 28.05	+07 10 19.4		809	1993 TY <sub>19</sub>	1993 10 11.13958	01 20 15.00	+04 35 42.9		809
1993 TQ <sub>19</sub>	1993 10 09.17500	01 21 27.43	+07 10 13.4		809	1993 TZ <sub>19</sub>	* 1993 10 09.14861	01 22 31.10	+03 39 45.4	18.1	809
1993 TQ <sub>19</sub>	1993 10 11.11319	01 19 54.84	+06 52 16.3		809	1993 TZ <sub>19</sub>	1993 10 09.16181	01 22 30.39	+03 39 43.4		809
1993 TQ <sub>19</sub>	1993 10 11.12639	01 19 54.09	+06 52 09.1		809	1993 TZ <sub>19</sub>	1993 10 09.17500	01 22 29.73	+03 39 40.9		809
1993 TQ <sub>19</sub>	1993 10 11.13958	01 19 53.44	+06 52 01.7		809	1993 TZ <sub>19</sub>	1993 10 11.11319	01 20 46.79	+03 33 54.7		809
1993 TR <sub>19</sub>	* 1993 10 09.14861	01 21 29.22	+07 09 00.8	18.4	809	1993 TZ <sub>19</sub>	1993 10 11.12639	01 20 46.00	+03 33 51.5		809
1993 TR <sub>19</sub>	1993 10 09.16181	01 21 28.38	+07 09 01.4		809	1993 TZ <sub>19</sub>	1993 10 11.13958	01 20 45.21	+03 33 49.7		809
1993 TR <sub>19</sub>	1993 10 09.17500	01 21 27.47	+07 09 01.3		809	1993 TA <sub>20</sub>	* 1993 10 09.14861	01 22 34.97	+03 35 23.6	18.5	809
1993 TR <sub>19</sub>	1993 10 11.11319	01 19 20.45	+07 06 37.0		809	1993 TA <sub>20</sub>	1993 10 09.16181	01 22 34.20	+03 35 19.9		809
1993 TR <sub>19</sub>	1993 10 11.12639	01 19 19.50	+07 06 35.6		809	1993 TA <sub>20</sub>	1993 10 09.17500	01 22 33.47	+03 35 15.8		809
1993 TR <sub>19</sub>	1993 10 11.13958	01 19 18.74	+07 06 35.7		809	1993 TA <sub>20</sub>	1993 10 11.11319	01 20 50.18	+03 25 12.2		809
1993 TS <sub>19</sub>	* 1993 10 09.14861	01 21 37.73	+07 27 51.2	18.3	809	1993 TA <sub>20</sub>	1993 10 11.12639	01 20 49.39	+03 25 07.3		809



1993 TA <sub>20</sub>	1993 10 11.13958	01 20 48.58	+03 25 03.9		809	1993 TK <sub>20</sub>	1993 10 11.11319	01 22 00.03	+03 50 23.6		809
1993 TB <sub>20</sub>	* 1993 10 09.14861	01 22 36.70	+03 13 45.6	18.8	809	1993 TK <sub>20</sub>	1993 10 11.12639	01 21 59.34	+03 50 24.6		809
1993 TB <sub>20</sub>	1993 10 09.16181	01 22 35.81	+03 13 44.1		809	1993 TK <sub>20</sub>	1993 10 11.13958	01 21 58.57	+03 50 24.6		809
1993 TB <sub>20</sub>	1993 10 09.17500	01 22 35.02	+03 13 40.2		809	1993 TL <sub>20</sub>	* 1993 10 09.14861	01 24 04.07	+05 23 01.1	18.3	809
1993 TB <sub>20</sub>	1993 10 11.11319	01 20 35.46	+03 07 25.8		809	1993 TL <sub>20</sub>	1993 10 09.16181	01 24 03.37	+05 22 53.7		809
1993 TB <sub>20</sub>	1993 10 11.12639	01 20 34.72	+03 07 25.7		809	1993 TL <sub>20</sub>	1993 10 09.17500	01 24 02.60	+05 22 44.4		809
1993 TB <sub>20</sub>	1993 10 11.13958	01 20 33.81	+03 07 21.9		809	1993 TL <sub>20</sub>	1993 10 11.11319	01 22 27.44	+05 03 56.2		809
1993 TC <sub>20</sub>	* 1993 10 09.14861	01 22 41.03	+06 12 05.7	18.2	809	1993 TL <sub>20</sub>	1993 10 11.12639	01 22 26.72	+05 03 47.7		809
1993 TC <sub>20</sub>	1993 10 09.16181	01 22 40.29	+06 12 02.8		809	1993 TL <sub>20</sub>	1993 10 11.13958	01 22 25.99	+05 03 40.2		809
1993 TC <sub>20</sub>	1993 10 09.17500	01 22 39.62	+06 11 59.7		809	1993 TM <sub>20</sub>	* 1993 10 09.14861	01 24 24.52	+05 07 42.9	18.2	809
1993 TC <sub>20</sub>	1993 10 11.11319	01 20 58.41	+06 04 55.7		809	1993 TM <sub>20</sub>	1993 10 09.16181	01 24 23.60	+05 07 39.7		809
1993 TC <sub>20</sub>	1993 10 11.12639	01 20 57.66	+06 04 53.1		809	1993 TM <sub>20</sub>	1993 10 09.17500	01 24 22.72	+05 07 35.5		809
1993 TC <sub>20</sub>	1993 10 11.13958	01 20 56.92	+06 04 50.6		809	1993 TM <sub>20</sub>	1993 10 11.11319	01 22 23.11	+04 57 46.1		809
1993 TD <sub>20</sub>	* 1993 10 09.14861	01 22 45.57	+04 24 59.6	18.3	809	1993 TM <sub>20</sub>	1993 10 11.12639	01 22 22.28	+04 57 42.2		809
1993 TD <sub>20</sub>	1993 10 09.16181	01 22 44.78	+04 24 55.7		809	1993 TM <sub>20</sub>	1993 10 11.13958	01 22 21.38	+04 57 38.6		809
1993 TD <sub>20</sub>	1993 10 09.17500	01 22 44.05	+04 24 51.7		809	1993 TN <sub>20</sub>	* 1993 10 09.14861	01 24 29.18	+06 01 02.6	18.4	809
1993 TD <sub>20</sub>	1993 10 11.11319	01 21 01.29	+04 16 32.8		809	1993 TN <sub>20</sub>	1993 10 09.16181	01 24 28.28	+06 01 02.3		809
1993 TD <sub>20</sub>	1993 10 11.12639	01 21 00.62	+04 16 28.6		809	1993 TN <sub>20</sub>	1993 10 09.17500	01 24 27.40	+06 01 01.4		809
1993 TD <sub>20</sub>	1993 10 11.13958	01 20 59.74	+04 16 25.5		809	1993 TN <sub>20</sub>	1993 10 11.11319	01 22 23.33	+06 00 33.2		809
1993 TE <sub>20</sub>	* 1993 10 09.14861	01 22 50.04	+03 23 04.6	18.5	809	1993 TN <sub>20</sub>	1993 10 11.12639	01 22 22.36	+06 00 33.1		809
1993 TE <sub>20</sub>	1993 10 09.16181	01 22 49.43	+03 22 55.4		809	1993 TN <sub>20</sub>	1993 10 11.13958	01 22 21.46	+06 00 33.5		809
1993 TE <sub>20</sub>	1993 10 09.17500	01 22 48.79	+03 22 46.1		809	1993 TO <sub>20</sub>	* 1993 10 09.14861	01 24 41.08	+04 38 13.4	18.4	809
1993 TE <sub>20</sub>	1993 10 11.11319	01 21 35.66	+02 58 46.9	18.5	809	1993 TO <sub>20</sub>	1993 10 09.16181	01 24 40.48	+04 38 09.2		809
1993 TE <sub>20</sub>	1993 10 11.12639	01 21 35.04	+02 58 35.9		809	1993 TO <sub>20</sub>	1993 10 09.17500	01 24 39.86	+04 38 05.8		809
1993 TE <sub>20</sub>	1993 10 11.13958	01 21 34.47	+02 58 25.9		809	1993 TO <sub>20</sub>	1993 10 11.11319	01 23 15.54	+04 26 41.9		809
1993 TF <sub>20</sub>	* 1993 10 09.14861	01 23 14.64	+05 16 22.8	18.6	809	1993 TO <sub>20</sub>	1993 10 11.12639	01 23 14.95	+04 26 37.1		809
1993 TF <sub>20</sub>	1993 10 09.16181	01 23 13.92	+05 16 19.7		809	1993 TO <sub>20</sub>	1993 10 11.13958	01 23 14.32	+04 26 33.9		809
1993 TF <sub>20</sub>	1993 10 09.17500	01 23 13.14	+05 16 15.0		809	1993 TP <sub>20</sub>	* 1993 10 09.14861	01 24 44.60	+06 23 10.7	18.5	809
1993 TF <sub>20</sub>	1993 10 11.11319	01 21 30.55	+05 05 59.5		809	1993 TP <sub>20</sub>	1993 10 09.16181	01 24 43.96	+06 23 04.9		809
1993 TF <sub>20</sub>	1993 10 11.12639	01 21 29.86	+05 05 55.7		809	1993 TP <sub>20</sub>	1993 10 09.17500	01 24 43.36	+06 22 58.8		809
1993 TF <sub>20</sub>	1993 10 11.13958	01 21 29.07	+05 05 53.5		809	1993 TP <sub>20</sub>	1993 10 11.11319	01 23 15.37	+06 08 09.3		809
1993 TG <sub>20</sub>	* 1993 10 09.14861	01 23 19.41	+04 45 40.0	18.1	809	1993 TP <sub>20</sub>	1993 10 11.12639	01 23 14.79	+06 08 05.1		809
1993 TG <sub>20</sub>	1993 10 09.16181	01 23 18.58	+04 45 37.3		809	1993 TP <sub>20</sub>	1993 10 11.13958	01 23 14.17	+06 07 58.0		809
1993 TG <sub>20</sub>	1993 10 09.17500	01 23 17.81	+04 45 35.1		809	1993 TQ <sub>20</sub>	* 1993 10 09.14861	01 24 58.63	+06 25 01.5	18.1	809
1993 TG <sub>20</sub>	1993 10 11.11319	01 21 29.46	+04 39 02.2		809	1993 TQ <sub>20</sub>	1993 10 09.16181	01 24 58.03	+06 24 53.1		809
1993 TG <sub>20</sub>	1993 10 11.12639	01 21 28.59	+04 39 00.2		809	1993 TQ <sub>20</sub>	1993 10 09.17500	01 24 57.37	+06 24 44.2		809
1993 TG <sub>20</sub>	1993 10 11.13958	01 21 27.84	+04 38 57.4		809	1993 TQ <sub>20</sub>	1993 10 11.11319	01 23 34.33	+06 03 01.2		809
1993 TH <sub>20</sub>	* 1993 10 09.14861	01 23 23.20	+04 15 28.0	18.5	809	1993 TQ <sub>20</sub>	1993 10 11.12639	01 23 33.70	+06 02 52.6		809
1993 TH <sub>20</sub>	1993 10 09.16181	01 23 22.55	+04 15 24.3		809	1993 TQ <sub>20</sub>	1993 10 11.13958	01 23 33.06	+06 02 44.2		809
1993 TH <sub>20</sub>	1993 10 09.17500	01 23 21.93	+04 15 23.4		809	1993 TR <sub>20</sub>	* 1993 10 09.14861	01 25 16.09	+05 25 01.2	18.1	809
1993 TH <sub>20</sub>	1993 10 11.11319	01 21 48.50	+04 09 17.4		809	1993 TR <sub>20</sub>	1993 10 09.16181	01 25 15.52	+05 24 49.7		809
1993 TH <sub>20</sub>	1993 10 11.12639	01 21 47.76	+04 09 16.2		809	1993 TR <sub>20</sub>	1993 10 09.17500	01 25 14.92	+05 24 38.0		809
1993 TH <sub>20</sub>	1993 10 11.13958	01 21 47.14	+04 09 14.8		809	1993 TR <sub>20</sub>	1993 10 11.11319	01 24 00.46	+04 55 11.0		809
1993 TJ <sub>20</sub>	* 1993 10 09.14861	01 23 50.11	+04 06 32.4	18.2	809	1993 TR <sub>20</sub>	1993 10 11.12639	01 23 59.94	+04 55 00.7		809
1993 TJ <sub>20</sub>	1993 10 09.16181	01 23 49.22	+04 06 32.1		809	1993 TR <sub>20</sub>	1993 10 11.13958	01 23 59.39	+04 54 47.2		809
1993 TJ <sub>20</sub>	1993 10 09.17500	01 23 48.37	+04 06 31.6		809	1993 TS <sub>20</sub>	* 1993 10 09.14861	01 25 22.27	+05 40 54.9	18.3	809
1993 TJ <sub>20</sub>	1993 10 11.11319	01 21 51.09	+04 05 05.3		809	1993 TS <sub>20</sub>	1993 10 09.16181	01 25 21.43	+05 40 50.8		809
1993 TJ <sub>20</sub>	1993 10 11.12639	01 21 50.26	+04 05 05.4		809	1993 TS <sub>20</sub>	1993 10 09.17500	01 25 20.63	+05 40 44.8		809
1993 TJ <sub>20</sub>	1993 10 11.13958	01 21 49.45	+04 05 04.5		809	1993 TS <sub>20</sub>	1993 10 11.11319	01 23 27.97	+05 28 04.5		809
1993 TK <sub>20</sub>	* 1993 10 09.14861	01 23 52.95	+03 48 38.4	18.6	809	1993 TS <sub>20</sub>	1993 10 11.12639	01 23 27.17	+05 27 59.0		809
1993 TK <sub>20</sub>	1993 10 09.16181	01 23 52.25	+03 48 39.9		809	1993 TS <sub>20</sub>	1993 10 11.13958	01 23 26.34	+05 27 53.2		809
1993 TK <sub>20</sub>	1993 10 09.17500	01 23 51.32	+03 48 40.9		809	1993 TT <sub>20</sub>	* 1993 10 09.14861	01 25 23.51	+03 40 21.3	18.4	809

1993 TT <sub>20</sub>	1993 10 09.16181	01 25 22.70	+03 40 20.5	809	4086 T-3	1993 07 26.26806	19 13 50.12	-22 57 36.1	809	
1993 TT <sub>20</sub>	1993 10 09.17500	01 25 21.81	+03 40 19.1	809	4086 T-3	1993 07 26.28125	19 13 49.36	-22 57 40.8	809	
1993 TT <sub>20</sub>	1993 10 11.11319	01 23 31.00	+03 37 21.4	809	<b>816 Rand Observatory</b>					
1993 TT <sub>20</sub>	1993 10 11.12639	01 23 30.21	+03 37 20.3	809	G. R. Viscome, 100 Sentinel Road, Lake Placid, NY 12946, U.S.A.					
1993 TT <sub>20</sub>	1993 10 11.13958	01 23 29.44	+03 37 19.1	809	0.37-m <i>f</i> /6 reflector + telecompressor + CCD (unfiltered)					
1993 TU <sub>20</sub>	* 1993 10 09.14861	01 25 44.46	+06 42 29.4	18.6	809	GSC				
1993 TU <sub>20</sub>	1993 10 09.16181	01 25 43.63	+06 42 28.5	809	1993 WD	1993 11 26.10853	00 48 04.78	+29 51 25.4	14.4	816
1993 TU <sub>20</sub>	1993 10 09.17500	01 25 42.78	+06 42 25.5	809	1993 WD	1993 11 26.11015	00 48 02.83	+29 51 34.7	14.4	816
1993 TU <sub>20</sub>	1993 10 11.11319	01 23 39.45	+06 36 52.3	809	1993 WD	1993 11 26.15004	00 47 14.14	+29 55 28.0	14.7	816
1993 TU <sub>20</sub>	1993 10 11.12639	01 23 38.53	+06 36 52.1	809	1993 WD	1993 11 26.15212	00 47 11.59	+29 55 39.8	14.9	816
1993 TU <sub>20</sub>	1993 10 11.13958	01 23 37.74	+06 36 49.1	809	1993 WD	1993 11 26.21026	00 46 01.07	+30 01 15.8	14.6	816
1993 TV <sub>20</sub>	* 1993 10 09.14861	01 25 47.11	+05 22 35.9	18.0	1993 WD	1993 11 26.23749	00 45 28.23	+30 03 49.9	14.7	816
1993 TV <sub>20</sub>	1993 10 09.16181	01 25 45.68	+05 22 46.0	809	1993 WD	1993 11 26.23867	00 45 26.80	+30 03 56.6	14.9	816
1993 TV <sub>20</sub>	1993 10 09.17500	01 25 44.28	+05 22 56.9	809	<b>868 Hidaka Observatory</b>					
1993 TV <sub>20</sub>	1993 10 11.11319	01 22 26.61	+05 48 06.1	809	S. Shirai, 13-2, Nishi-Kagaya 2 Chome, Suminoe-Ku, Osaka 559, Japan					
1993 TV <sub>20</sub>	1993 10 11.12639	01 22 25.21	+05 48 16.6	809	Observer S. Shirai					
1993 TV <sub>20</sub>	1993 10 11.13958	01 22 23.82	+05 48 26.9	809	Measurer S. Hayakawa					
1993 TW <sub>20</sub>	* 1993 10 09.14861	01 25 51.89	+04 54 36.9	18.6	809	0.25-m <i>f</i> /3.4 hyperboloid astrocamera				
1993 TW <sub>20</sub>	1993 10 09.16181	01 25 51.20	+04 54 32.5	809	809	GSC				
1993 TW <sub>20</sub>	1993 10 09.17500	01 25 50.39	+04 54 28.6	809	1993 VX	1993 11 15.77784	05 11 07.92	+17 53 07.8	16.0	868
1993 TW <sub>20</sub>	1993 10 11.11319	01 24 04.63	+04 43 11.4	809	1993 VX	1993 11 15.80433	05 11 06.66	+17 53 11.1		868
1993 TW <sub>20</sub>	1993 10 11.12639	01 24 03.77	+04 43 06.4	809	1993 VX	1993 11 16.70608	05 10 27.34	+17 54 43.6		868
1993 TW <sub>20</sub>	1993 10 11.13958	01 24 02.98	+04 43 00.8	809	1993 VX	1993 11 16.73260	05 10 26.12	+17 54 46.1		868
1993 UN	1993 10 09.14861	01 17 58.64	+07 01 42.9	809	1993 VK <sub>2</sub>	1993 11 15.59661	04 49 36.56	+15 13 31.4	16.5	868
1993 UN	1993 10 09.16181	01 17 57.74	+07 01 37.7	18.0	809	1993 VK <sub>2</sub>	1993 11 15.62266	04 49 34.95	+15 13 34.9	868
1993 UN	1993 10 09.17500	01 17 56.84	+07 01 32.8	809	1993 VK <sub>2</sub>	1993 11 16.61408	04 48 35.89	+15 17 00.8		868
1993 UN	1993 10 11.11319	01 15 58.61	+06 49 30.4	809	1993 VK <sub>2</sub>	1993 11 16.64014	04 48 34.31	+15 17 07.3		868
1993 UN	1993 10 11.12639	01 15 57.71	+06 49 25.2	809	1994 AM <sub>2</sub>	* 1994 01 07.78185	09 04 04.90	+14 56 25.9	16.0	868
1993 UN	1993 10 11.13958	01 15 56.84	+06 49 21.0	809	1994 AM <sub>2</sub>	1994 01 07.80804	09 04 03.20	+14 56 13.2		868
2702 P-L	1993 07 13.16736	19 57 46.09	-22 19 28.0	18.4	809	1994 AM <sub>2</sub>	1994 01 08.78141	09 03 06.30	+14 50 32.3	868
2702 P-L	1993 07 13.18056	19 57 45.39	-22 19 29.5	809	1994 AM <sub>2</sub>	1994 01 08.80905	09 03 04.78	+14 50 22.1		868
2702 P-L	1993 07 13.19375	19 57 44.73	-22 19 31.9	809	<b>886 Susono</b>					
2702 P-L	1993 07 26.29792	19 47 01.02	-22 48 10.9	18.5	809	T. Furuta, 17-2 Mitsuike, Kagiya, Tokai 477, Japan				
2702 P-L	1993 07 26.31111	19 47 00.29	-22 48 11.6	809	Observers M. Akiyama, T. Furuta					
2702 P-L	1993 07 26.32431	19 46 59.59	-22 48 11.9	809	Measurer T. Furuta					
4276 P-L	1993 09 15.13056	00 32 22.70	+04 33 21.9	18.5	809	0.25-m <i>f</i> /4.2 Wright-Schmidt camera				
4276 P-L	1993 09 15.14097	00 32 21.99	+04 33 20.8	809	809	GSC				
4276 P-L	1993 09 15.15139	00 32 21.25	+04 33 18.3	809	1993 XX	* 1993 12 07.57951	05 25 29.74	+27 32 15.2	16.0	886
4276 P-L	1993 09 17.21944	00 30 12.76	+04 25 58.7	809	1993 XX	1993 12 07.59028	05 25 29.02	+27 32 12.6		886
4276 P-L	1993 09 17.22986	00 30 12.12	+04 25 56.5	809	1993 XX	1993 12 11.54826	05 21 45.41	+27 17 14.6	16.0	886
4276 P-L	1993 09 17.24028	00 30 11.36	+04 25 55.3	809	1993 XX	1993 12 11.55903	05 21 44.6	+27 17 13		886
9511 P-L	1993 07 13.16736	20 02 28.94	-19 30 07.4	18.2	809	1993 XX	1993 12 18.54861	05 15 12.87	+26 48 36.2	886
9511 P-L	1993 07 13.18056	20 02 28.23	-19 30 09.5	809	1993 XX	1993 12 18.55938	05 15 12.33	+26 48 32.9		886
9511 P-L	1993 07 13.19375	20 02 27.57	-19 30 11.8	809	<b>887 Ojima</b>					
2158 T-3	1993 09 15.13056	00 26 25.99	+06 22 45.3	18.1	809	T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan				
2158 T-3	1993 09 15.14097	00 26 25.37	+06 22 41.5	809	Observer T. Nijjima					
2158 T-3	1993 09 15.15139	00 26 24.67	+06 22 38.2	809	Measurer T. Urata					
2158 T-3	1993 09 17.21944	00 24 27.54	+06 11 27.9	809	0.30-m <i>f</i> /5.8 reflector + CCD					
2158 T-3	1993 09 17.22986	00 24 26.99	+06 11 23.9	809	GSC					
2158 T-3	1993 09 17.24028	00 24 26.27	+06 11 20.1	809						
4086 T-3	1993 07 26.25486	19 13 50.88	-22 57 32.6	18.4	809					

1989 VV	1993 12 11.61464	04 54 11.01	+22 07 03.1	17	V	887	1993 VE	1993 12 04.49375	02 28 55.05	+19 43 48.8	16.8	894
1989 VV	1993 12 11.62325	04 54 10.39	+22 07 03.1			887	1993 VE	1993 12 04.50625	02 28 54.53	+19 43 47.8		894
1989 VV	1993 12 11.63108	04 54 09.84	+22 07 03.3			887	1993 VE	1993 12 07.46493	02 27 00.75	+19 45 18.5	17.0	894
1991 CW	1993 12 04.69955	03 58 05.41	+12 23 53.0			887	1993 VE	1993 12 07.47604	02 27 00.35	+19 45 17.8		894
1991 CW	1993 12 04.70852	03 58 04.84	+12 23 53.1			887	1993 VE	1993 12 09.56146	02 25 49.12	+19 46 36.7	17.0	894
1991 CW	1993 12 04.71325	03 58 04.59	+12 23 53.0			887	1993 VE	1993 12 09.57396	02 25 48.77	+19 46 38.1		894
1991 CW	1993 12 09.56535	03 53 40.64	+12 30 51.5			887	1993 VE	1993 12 13.46881	02 23 56.95	+19 49 44.6	17.0	894
1991 CW	1993 12 09.56956	03 53 40.39	+12 30 51.8			887	1993 VE	1993 12 13.48273	02 23 56.66	+19 49 45.7		894
1991 CW	1993 12 09.57395	03 53 40.17	+12 30 52.8			887	1993 VP	1993 11 15.51771	02 35 07.46	+23 03 39.4	16.7	894
1991 CW	1993 12 18.53090	03 47 09.69	+12 53 29.8	16	V	887	1993 VP	1993 11 15.53021	02 35 06.29	+23 03 38.0		894
1991 CW	1993 12 18.53932	03 47 09.35	+12 53 31.3			887	1993 VP	1993 11 18.57813	02 31 46.09	+23 08 45.3	17.0	894
1991 CW	1993 12 18.54837	03 47 09.05	+12 53 32.9			887	1993 VP	1993 11 18.59132	02 31 45.14	+23 08 46.8		894
1991 DM <sub>1</sub>	1993 12 09.64153	05 54 42.13	+04 12 23.3			887	1993 VP	1993 12 04.46771	02 17 54.37	+23 28 00.3	17.0	894
1991 DM <sub>1</sub>	1993 12 09.64862	05 54 41.69	+04 12 22.2			887	1993 VP	1993 12 04.48094	02 17 53.79	+23 28 01.9		894
1991 DM <sub>1</sub>	1993 12 18.57477	05 46 22.06	+04 11 41.3	16.5	V	887	1993 VP	1993 12 07.48924	02 16 08.23	+23 31 26.7	17.2	894
1991 DM <sub>1</sub>	1993 12 18.58365	05 46 21.55	+04 11 41.8			887	1993 VX	1993 12 17.59097	04 41 38.95	+19 01 48.6	16.5	894
1991 DM <sub>1</sub>	1993 12 18.59295	05 46 21.02	+04 11 41.8			887	1993 VX	1993 12 17.60486	04 41 37.86	+19 01 48.2		894
1993 VK <sub>2</sub>	1993 12 07.59040	04 25 35.32	+16 37 10.3			887	1993 VX	1993 12 18.60556	04 40 43.78	+19 04 28.7	16.5	894
1993 VK <sub>2</sub>	1993 12 07.60038	04 25 34.65	+16 37 13.0			887	1993 VX	1993 12 18.61944	04 40 42.96	+19 04 31.7		894
1993 VK <sub>2</sub>	1993 12 07.60839	04 25 34.14	+16 37 14.8			887	1993 VX	1993 12 19.63403	04 39 48.89	+19 07 12.7	16.5	894
1993 VK <sub>2</sub>	1993 12 11.57344	04 21 18.71	+16 53 56.1	16	V	887	1993 VX	1993 12 19.64583	04 39 48.34	+19 07 13.8		894
1993 VK <sub>2</sub>	1993 12 11.58281	04 21 18.12	+16 53 58.2			887	1993 VA <sub>5</sub>	1993 11 16.64132	03 37 33.70	+18 34 56.2	16.7	894
1993 VK <sub>2</sub>	1993 12 11.59066	04 21 17.59	+16 54 00.6			887	1993 VA <sub>5</sub>	1993 11 16.65457	03 37 32.91	+18 34 57.4		894
1993 XS	1993 12 11.61464	04 54 37.95	+22 06 00.6			887	1993 VA <sub>5</sub>	1993 12 04.51806	03 20 16.09	+19 16 36.4	17.0	894
1993 XS	1993 12 11.62325	04 54 37.44	+22 06 00.1			887	1993 VA <sub>5</sub>	1993 12 04.52847	03 20 15.54	+19 16 37.7		894
1993 XS	1993 12 11.63108	04 54 37.03	+22 06 00.3			887	1993 VA <sub>5</sub>	1993 12 08.57951	03 17 08.00	+19 27 03.9	17.2	894
1993 XS	1994 01 04.48697	04 36 34.31	+22 01 25.2	17.5	V	887	1993 VA <sub>5</sub>	1993 12 08.59201	03 17 07.25	+19 27 06.3		894
1993 XS	1994 01 04.50158	04 36 33.85	+22 01 25.2			887	1993 XJ	1993 12 11.64583	05 01 41.73	+17 08 19.3	15.8	894
1993 XS	1994 01 04.51511	04 36 33.46	+22 01 25.3			887	1993 XJ	1993 12 11.65972	05 01 40.70	+17 08 14.2		894
1994 AK <sub>1</sub>	1994 01 15.66839	06 51 45.94	+28 57 03.5	15.5	V	887	1993 XJ	1993 12 14.60729	04 58 33.09	+16 53 45.0	15.8	894
1994 AK <sub>1</sub>	1994 01 15.68198	06 51 44.30	+28 56 42.5			887	1993 XJ	1993 12 14.62049	04 58 32.17	+16 53 40.6		894
1994 AK <sub>1</sub>	1994 01 15.69072	06 51 43.24	+28 56 28.9			887	1993 XO	* 1993 12 08.72431	04 53 34.47	+20 19 06.8	16.3	894
							1993 XO	1993 12 08.73675	04 53 33.78	+20 19 02.3		894
							1993 XO	1993 12 09.58848	04 52 42.24	+20 11 11.2		894
							1993 XO	1993 12 17.59097	04 45 02.28	+18 59 54.7	16.3	894
							1993 XO	1993 12 17.60486	04 45 01.37	+18 59 49.9		894
							1993 XO	1993 12 18.60556	04 44 08.62	+18 51 16.7	16.3	894
							1993 XO	1993 12 18.61944	04 44 07.72	+18 51 09.4		894
							1993 XO	1993 12 19.63403	04 43 15.36	+18 42 38.6	16.5	894
							1993 XO	1993 12 19.64583	04 43 14.86	+18 42 33.1		894
							1993 XX	1993 12 14.71458	05 18 45.95	+27 04 32.2	15.7	894
							1993 XX	1993 12 14.72847	05 18 45.04	+27 04 29.4		894
							1993 XX	1993 12 15.62569	05 17 54.90	+27 00 50.8		894
							1993 XX	1993 12 15.63958	05 17 54.06	+27 00 47.6		894
							1994 AR	1994 01 09.64314	07 28 09.35	+20 22 26.8	16.3	894
							1994 AR	1994 01 09.65556	07 28 08.47	+20 22 29.0		894
							1994 AO <sub>1</sub>	1994 01 09.77187	08 30 07.66	+14 46 33.2	16.6	894
							1994 AO <sub>1</sub>	1994 01 09.78438	08 30 06.89	+14 46 29.8		894
							1994 AO <sub>1</sub>	1994 01 14.63750	08 24 56.48	+14 28 56.8		894
							1994 AO <sub>1</sub>	1994 01 14.65142	08 24 55.73	+14 28 54.9		894
							1994 AQ <sub>1</sub>	* 1994 01 04.61181	07 11 13.66	+23 00 50.9	16.5	894
							1994 AQ <sub>1</sub>	1994 01 04.62361	07 11 12.87	+23 00 51.1		894
1977 AZ <sub>1</sub>	1993 12 15.70903	05 47 31.44	+22 09 59.5	16.0		894						
1977 AZ <sub>1</sub>	1993 12 15.72292	05 47 30.53	+22 10 01.3			894						
1977 AZ <sub>1</sub>	1993 12 18.65938	05 44 48.35	+22 19 28.3			894						
1977 AZ <sub>1</sub>	1993 12 18.67257	05 44 47.59	+22 19 32.2			894						
1982 UJ <sub>7</sub>	1993 12 09.58848	04 53 40.79	+20 09 01.0	17.0		894						
1982 UJ <sub>7</sub>	1993 12 18.60556	04 45 49.16	+20 05 02.3	17.5		894						
1982 UJ <sub>7</sub>	1993 12 18.61944	04 45 48.48	+20 05 02.6			894						
1991 CT <sub>1</sub>	1993 12 23.70738	06 50 03.08	+33 25 13.9	17.5		894						
1991 CT <sub>1</sub>	1993 12 23.72049	06 50 02.11	+33 25 13.8			894						
1993 VE	1993 11 14.58507	02 47 14.52	+19 38 20.8	16.5		894						
1993 VE	1993 11 14.59826	02 47 13.83	+19 38 19.4			894						
1993 VE	1993 11 16.53368	02 45 07.02	+19 39 02.2	16.3		894						
1993 VE	1993 11 16.54632	02 45 06.23	+19 39 00.8			894						
1993 VE	1993 11 18.60453	02 42 54.88	+19 39 40.1	16.3		894						
1993 VE	1993 11 18.61701	02 42 54.00	+19 39 38.7			894						

**894 Otomo**

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

0.25-m  $f/3.4$  reflector

PPM

1994 AQ <sub>1</sub>	1994 01 09.72083	07 06 08.99	+23 03 45.3	16.8	894
1994 AQ <sub>1</sub>	1994 01 09.73264	07 06 08.31	+23 03 46.7		894

**896 Yatsugatake South Base Observatory**

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

Measurer O. Muramatsu

0.25-m  $f/3.4$  reflector

GSC

1992 PW <sub>1</sub>	1994 01 04.54896	07 28 58.28	+19 19 12.2	16.5	896
1992 PW <sub>1</sub>	1994 01 04.58160	07 28 55.96	+19 19 17.1		896
1992 PW <sub>1</sub>	1994 01 06.59653	07 26 43.90	+19 24 30.4	16.5	896
1992 PW <sub>1</sub>	1994 01 06.62934	07 26 41.89	+19 24 35.4		896
1994 AL	* 1994 01 02.46285	07 12 31.71	+25 02 28.9	16.5	896
1994 AL	1994 01 02.49583	07 12 29.23	+25 02 27.5		896
1994 AL	1994 01 03.59236	07 11 11.67	+25 01 03.9		896
1994 AL	1994 01 03.62292	07 11 09.37	+25 01 02.5		896
1994 AR	* 1994 01 04.54896	07 33 27.89	+20 14 42.0	16.0	896
1994 AR	1994 01 04.58160	07 33 25.73	+20 14 46.2		896
1994 AR	1994 01 06.59653	07 31 20.67	+20 17 48.4	16.0	896
1994 AR	1994 01 06.62934	07 31 18.69	+20 17 51.3		896
1994 AR	1994 01 14.54132	07 23 04.29	+20 29 56.1		896
1994 AR	1994 01 14.57500	07 23 02.10	+20 29 59.5		896
1994 AA <sub>1</sub>	* 1994 01 04.55972	07 33 45.87	+16 27 18.3	17.0	896
1994 AA <sub>1</sub>	1994 01 04.59253	07 33 43.85	+16 27 24.0		896
1994 AA <sub>1</sub>	1994 01 07.57326	07 30 43.5	+16 39 39		S 896
1994 AA <sub>1</sub>	1994 01 07.60868	07 30 41.4	+16 39 48		S 896
1994 AA <sub>1</sub>	1994 01 14.56389	07 23 31.82	+17 10 39.2		896
1994 AB <sub>1</sub>	* 1994 01 04.62361	07 56 10.41	+30 32 11.7	16.5	896
1994 AB <sub>1</sub>	1994 01 04.65417	07 56 08.65	+30 32 24.2		896
1994 AB <sub>1</sub>	1994 01 07.64132	07 53 29.0	+30 48 39		S 896
1994 AB <sub>1</sub>	1994 01 07.66667	07 53 27.4	+30 48 46		S 896
1994 AB <sub>2</sub>	* 1994 01 09.53993	08 06 46.09	+19 11 44.1	17	896
1994 AB <sub>2</sub>	1994 01 09.56910	08 06 44.66	+19 11 47.5		896
1994 AB <sub>2</sub>	1994 01 11.76424	08 04 48.27	+19 17 11.6		S 896
1994 AB <sub>2</sub>	1994 01 11.78646	08 04 46.85	+19 17 16.3		S 896
1994 AB <sub>2</sub>	1994 01 14.59896	08 02 15.41	+19 24 16.4		896
1994 AB <sub>2</sub>	1994 01 14.62882	08 02 13.76	+19 24 20.8		896
1994 AC <sub>2</sub>	* 1994 01 09.62465	08 10 53.81	+23 06 57.9	17	896
1994 AC <sub>2</sub>	1994 01 09.65799	08 10 51.90	+23 07 06.7		896
1994 AC <sub>2</sub>	1994 01 11.77535	08 08 47.04	+23 18 02.5		S 896
1994 AC <sub>2</sub>	1994 01 11.79757	08 08 45.67	+23 18 09.0		S 896
1994 AZ <sub>2</sub>	* 1994 01 14.66076	08 49 52.07	+12 55 31.8	17	W 896
1994 AZ <sub>2</sub>	1994 01 14.69340	08 49 49.96	+12 55 23.2		896
1994 AZ <sub>2</sub>	1994 01 15.65312	08 48 56.54	+12 51 22.9		896
1994 AZ <sub>2</sub>	1994 01 15.68576	08 48 54.63	+12 51 15.3		896

**898 Fujieda**

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

Observer H. Shiozawa

Measurer T. Urata

0.25-m  $f/3.4$  hyperboloid astrocamera

GSC

1993 YR	1994 01 04.54226	05 29 49.10	+03 44 57.4		898
1994 AO	* 1994 01 04.52670	05 27 46.65	+02 25 17.7	16	898
1994 AO	1994 01 04.54226	05 27 46.07	+02 25 18.2		898
1994 AO	1994 01 16.54423	05 21 49.46	+02 38 12.4	16	898
1994 AO	1994 01 16.55841	05 21 49.19	+02 38 12.4		898
1994 AT <sub>1</sub>	* 1994 01 09.68099	09 42 45.31	+34 37 06.3	16	898
1994 AT <sub>1</sub>	1994 01 09.69697	09 42 44.62	+34 37 14.7		898
1994 AU <sub>1</sub>	* 1994 01 09.70931	08 37 35.54	+19 34 49.3	16	898
1994 AU <sub>1</sub>	1994 01 09.73458	08 37 33.95	+19 34 52.0		898
1994 AV <sub>1</sub>	* 1994 01 09.70931	08 43 00.38	+18 48 54.6	16	898
1994 AV <sub>1</sub>	1994 01 09.73458	08 42 59.03	+18 48 53.2		898
1994 AV <sub>1</sub>	1994 01 16.61568	08 36 25.01	+18 42 10.4	16.5	898
1994 AV <sub>1</sub>	1994 01 16.63292	08 36 24.11	+18 42 08.3		898

**901 Tajimi**

T. Furuta, 17-2 Mitsuike, Kagiya, Tokai 477, Japan

Observer T. Mizuno

Measurer T. Furuta

0.15-m  $f/5.0$  reflector

GSC

1986 QV <sub>3</sub>	1993 11 22.56597	04 01 20.23	+11 08 12.3	16.0	901
1986 QV <sub>3</sub>	1993 11 22.58056	04 01 19.26	+11 08 11.4		901

**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

GSC

1993 YR	* 1993 12 18.57245	05 42 05.37	+04 31 09.8	16.8	905
1993 YR	1993 12 18.58686	05 42 04.67	+04 31 05.5		905
1993 YR	1994 01 04.54201	05 29 49.19	+03 44 57.7	17	905
1993 YR	1994 01 15.55833	05 25 51.19	+04 02 50.8	17.5	905
1993 YR	1994 01 15.57454	05 25 51.00	+04 02 53.3		905

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**Periodic Comet Wiseman-Skiff (1993u)**

Epoch 1993 June 22.0 TT = JDT 2449160.5

<i>T</i> 1993 June 4.31727 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	1.5092253		
<i>n</i>	0.15103951	$\omega$	171.91007
			+0.10502316
<i>a</i>	3.4920115	$\Omega$	271.65646
			+0.89404742
<i>e</i>	0.5678063	<i>i</i>	18.18556
			+0.43548749
<i>P</i>	6.53		-0.23835314

From 48 observations 1986–1993, mean residual 1''14.

**Periodic Comet Kushida-Muramatsu (1993t)**

Epoch 1993 Dec. 7.74118 TT

<i>T</i> 1993 Dec. 7.74118 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	2.7473855		
<i>n</i>	0.13316386	$\omega$	347.72073
			+0.14914239
<i>a</i>	3.7979141	$\Omega$	93.69149
			+0.91068720
<i>e</i>	0.2766068	<i>i</i>	2.37280
			+0.38523418
<i>P</i>	7.40		+0.09653530

From 126 observations 1993 Dec. 8–1994 Jan. 15.

**Periodic Comet Kushida (1994a)**

Epoch 1993 Dec. 13.08002 TT

<i>T</i> 1993 Dec. 13.08002 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	1.3663017		
<i>n</i>	0.13807605	$\omega$	214.85800
			-0.18203533
<i>a</i>	3.7072949	$\Omega$	245.71042
			+0.91785264
<i>e</i>	0.6314559	<i>i</i>	4.16280
			+0.35271754
<i>P</i>	7.14		-0.12796095

From 76 observations 1994 Jan. 9–18.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus C = 19**

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i> 1994 Mar. 23.64211 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	5.3809986		
<i>n</i>	0.05490003	$\omega$	354.81944
			-0.81494226
<i>a</i>	6.8562658	$\Omega$	220.56721
			-0.52790206
<i>e</i>	0.2151707	<i>i</i>	5.98856
			-0.23914125
<i>P</i>	17.95		-0.22732074

From 9 observations 1993 Mar. 27–1994 Jan. 4, mean residual 0''6.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus E = 17**

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i> 1994 Mar. 24.98747 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	5.3805865		
<i>n</i>	0.05498967	$\omega$	354.88863
			-0.81378096
<i>a</i>	6.8488128	$\Omega$	220.61337
			-0.52946249
<i>e</i>	0.2143768	<i>i</i>	5.96756
			-0.23964562
<i>P</i>	17.92		-0.22719159

From 48 observations 1993 Mar. 27–1994 Jan. 4, mean residual 0''7.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus F = 16**

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i> 1994 Mar. 25.76900 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	5.3803443		
<i>n</i>	0.05508321	$\omega$	354.91584
			-0.81311937
<i>a</i>	6.8410571	$\Omega$	220.65172
			-0.53034370
<i>e</i>	0.2135215	<i>i</i>	5.94878
			-0.23994259
<i>P</i>	17.89		-0.22723215

From 10 observations 1993 Mar. 27–1994 Jan. 4, mean residual 0''3.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus G = 15**

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i> 1994 Mar. 26.03548 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	5.3802813		
<i>n</i>	0.05515331	$\omega$	354.90871
			-0.81290287
<i>a</i>	6.8352595	$\Omega$	220.68023
			-0.53062344
<i>e</i>	0.2128636	<i>i</i>	5.93676
			-0.24005769
<i>P</i>	17.87		-0.22734469

From 50 observations 1993 Mar. 27–1994 Jan. 4, mean residual 0''5.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus H = 14**

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i> 1994 Mar. 26.91268 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	5.3800848		
<i>n</i>	0.05527275	$\omega$	354.93188
			-0.81216688
<i>a</i>	6.8254091	$\Omega$	220.72980
			-0.53159682
<i>e</i>	0.2117564	<i>i</i>	5.91329
			-0.24039506
<i>P</i>	17.83		-0.22743331

From 49 observations 1993 Mar. 27–1994 Jan. 4, mean residual 0''6.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus K = 12**

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i> 1994 Mar. 27.83913 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	5.3798926		
<i>n</i>	0.05541702	$\omega$	354.94860
			-0.81139444
<i>a</i>	6.8135575	$\Omega$	220.78926
			-0.53261167
<i>e</i>	0.2104136	<i>i</i>	5.88595
			-0.24075686
<i>P</i>	17.79		-0.22757210

From 51 observations 1993 Mar. 27–1994 Jan. 4, mean residual 0''5.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus L = 11**

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i> 1994 Mar. 28.65579 TT		Marsden	
<i>q</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>q</i>	5.3797545		
<i>n</i>	0.05553606	$\omega$	354.96515
			-0.81071194
<i>a</i>	6.8038182	$\Omega$	220.83991
			-0.53350645
<i>e</i>	0.2093036	<i>i</i>	5.86313
			-0.24107473
<i>P</i>	17.75		-0.22767261

From 52 observations 1993 Mar. 27–1994 Jan. 4, mean residual 0''6.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus Q = 7**

Epoch 1994 May 8.0 TT = JDT 2449480.5

T 1994 Mar. 29.94355 TT		Marsden			
<i>q</i>	(2000.0)	P		Q	
<i>n</i>	0.05572910	$\omega$	354.98605	-0.80964140	+0.58314671
<i>a</i>	6.7880970	$\Omega$	220.92417	-0.53490288	-0.77975614
<i>e</i>	0.2074911	<i>i</i>	5.82555	-0.24157755	-0.22786022
<i>P</i>	17.69				

From 54 observations 1993 Mar. 27-1994 Jan. 4, mean residual 0''.5.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus R = 6**

Epoch 1994 May 8.0 TT = JDT 2449480.5

T 1994 Mar. 30.65191 TT		Marsden			
<i>q</i>	(2000.0)	P		Q	
<i>n</i>	0.05583329	$\omega$	355.00107	-0.80904212	+0.58399609
<i>a</i>	6.7796492	$\Omega$	220.96790	-0.53568351	-0.77909831
<i>e</i>	0.2065437	<i>i</i>	5.80632	-0.24185538	-0.22793505
<i>P</i>	17.65				

From 26 observations 1993 Mar. 27-1994 Jan. 4, mean residual 0''.4.

**Comet McNaught-Russell (1993v)**

Epoch 1994 Mar. 29.0 TT = JDT 2449440.5

T 1994 Mar. 31.09383 TT		Marsden			
<i>q</i>	(2000.0)	P		Q	
<i>z</i>	+0.0078215	$\omega$	353.47605	-0.94887006	-0.25597387
	$\pm 0.0004628$	$\Omega$	166.36301	+0.31327391	-0.83552318
<i>e</i>	0.9932141	<i>i</i>	51.58161	+0.03879504	+0.48618761
From 16 observations 1993 Dec. 17-1994 Jan. 18, mean residual 0''.53.					

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus S = 5**

Epoch 1994 May 8.0 TT = JDT 2449480.5

T 1994 Mar. 31.18930 TT		Marsden			
<i>q</i>	(2000.0)	P		Q	
<i>n</i>	0.05592436	$\omega$	355.00365	-0.80860152	+0.58462228
<i>a</i>	6.7722870	$\Omega$	221.00844	-0.53625224	-0.77859654
<i>e</i>	0.2056785	<i>i</i>	5.78896	-0.24206840	-0.22804432
<i>P</i>	17.62				

From 52 observations 1993 Mar. 27-1994 Jan. 4, mean residual 0''.6.

**Periodic Comet Shoemaker-Levy 9 (1993e) Nucleus W = 1**

Epoch 1994 May 8.0 TT = JDT 2449480.5

T 1994 Apr. 1.46318 TT		Marsden			
<i>q</i>	(2000.0)	P		Q	
<i>n</i>	0.05606973	$\omega$	355.04075	-0.80751914	+0.58614369
<i>a</i>	6.7605769	$\Omega$	221.07714	-0.53765936	-0.77743939
<i>e</i>	0.2043415	<i>i</i>	5.75978	-0.24255980	-0.22808676
<i>P</i>	17.58				

From 48 observations 1993 Mar. 27-1994 Jan. 4, mean residual 0''.6.

**Periodic Comet Mueller 5 (1993s)**

T 1994 Sept. 10.19108 TT

q 4.2517783		(2000.0)		Marsden	
n 0.07149027		$\omega$ 29.76548		P	
a 5.7496062		$\Omega$ 100.66110		Q	
e 0.2605097		<i>i</i> 16.45906		-0.62848094	
P 13.79				-0.72628034	
				+0.64592355	
				-0.68675773	
				+0.43335259	
				-0.02967642	

From 46 observations 1993 Nov. 20-1994 Jan. 14.

**One-opposition minor planets**

Planet	<i>H</i>	Epoch	<i>M</i>	$\omega$	$\Omega$	<i>i</i>	<i>e</i>	<i>a</i>	Arc	O	N	C
1991 CE <sub>1</sub>	12.0	910124	357.88	298.96	218.03	5.13	0.1267	3.0724	4	6	E	W
1991 EF <sub>2</sub>	13.8	910305	333.60	16.25	176.05	5.38	0.0579	2.1932	35	0	B	
1992 RD <sub>1</sub>	12.9	920915	21.51	334.90	359.63	13.69	0.1027	2.9953	29	0	B	
1992 SC <sub>1</sub>	13.5	921025	18.13	209.81	145.23	5.09	0.2089	2.5197	66	0	B	
1992 SE <sub>1</sub>	12.3	921025	81.91	234.02	46.48	13.66	0.1554	2.6811	66	0	B	
1992 ST <sub>2</sub>	13.8	921005	342.26	194.26	195.29	23.83	0.1311	2.3429	11	0	B	
1992 SZ <sub>23</sub>	14.5	920915	11.50	72.46	270.49	4.53	0.2326	2.6117	5	6	W	
1992 SA <sub>24</sub>	14.5	920915	23.74	102.29	220.58	7.86	0.2461	2.7311	5	8	W	
1992 SC <sub>24</sub>	13.0	920915	330.21	160.41	238.28	5.94	0.1210	2.3639	5	7	W	
1992 SV <sub>24</sub>	13.9	921005	351.01	161.08	221.30	7.64	0.2533	2.8367	4	6	B	
1992 SW <sub>24</sub>	14.0	921005	12.33	141.23	206.43	11.54	0.2141	2.4535	4	6	B	
1992 SA <sub>25</sub>	14.5	920915	353.61	171.11	197.74	10.09	0.2484	2.2911	3	6	E	W
1992 SC <sub>25</sub>	15.0	920915	7.28	135.38	213.54	4.90	0.1702	2.2898	3	7	E	W
1992 SR <sub>25</sub>	13.0	920915	350.23	19.17	355.88	10.17	0.0801	2.9620	3	7	E	W
1992 TU <sub>1</sub>	13.1	921005	345.01	33.26	352.33	17.46	0.0449	2.7961	4	6	B	
1992 UQ <sub>2</sub>	13.3	921025	9.68	322.13	44.38	24.60	0.2191	2.4619	55	0	B	
1992 UT <sub>2</sub>	13.9	921114	41.17	260.05	71.56	6.93	0.2113	2.2764	40	0	B	
1993 BX <sub>13</sub>	14.5	930202	100.90	196.05	184.25	4.84	0.1451	2.2370	25	6	M	
1993 NO	14.0	930712	246.25	81.88	335.30	0.54	0.1269	2.5322	14	0	W	
1993 NT	13.5	930712	347.25	26.33	280.99	3.94	0.0986	3.1557	14	0	W	
1993 NV	13.5	930712	55.26	345.14	247.55	0.84	0.0396	2.8771	14	0	W	
1993 NX	16.0	930712	348.93	81.07	228.23	1.63	0.2244	2.3662	14	0	W	
1993 NY	14.0	930712	73.99	258.06	283.20	2.76	0.3183	2.6741	11	9	E	W
1993 NA <sub>1</sub>	14.5	930712	314.26	67.90	282.82	6.43	0.1422	2.3941	14	0	W	
1993 NF <sub>1</sub>	15.5	930712	333.65	224.24	115.89	13.68	0.3005	2.5839	11	9	W	
1993 NG <sub>1</sub>	14.5	930712	176.69	176.30	298.23	6.42	0.1063	2.3547	11	9	W	
1993 NJ <sub>1</sub>	15.5	930712	353.68	168.32	132.42	3.44	0.1664	2.4261	14	0	W	
1993 NK <sub>1</sub>	15.5	930712	320.43	221.13	123.35	8.06	0.1543	2.3025	14	0	W	
1993 NL <sub>1</sub>	16.0	930712	1.24	186.79	102.90	1.33	0.1644	2.2029	14	0	W	
1993 NM <sub>1</sub>	13.5	930712	256.46	295.45	113.81	18.85	0.1257	2.6661	14	0	W	
1993 NN <sub>1</sub>	16.0	930712	333.78	47.04	289.26	4.62	0.2636	2.3390	14	0	W	
1993 NQ <sub>1</sub>	13.5	930712	177.88	185.26	288.67	9.79	0.2892	2.2474	14	0	W	
1993 NR <sub>1</sub>	14.0	930712	291.60	268.01	111.52	6.03	0.1650	2.8940	14	0	E	W
1993 NS <sub>1</sub>	13.5	930712	283.22	284.66	117.02	9.94	0.2803	3.0641	14	0	W	
1993 NT <sub>1</sub>	15.0	930712	9.98	172.00	106.32	2.77	0.1516	2.5136	14	0	E	W
1993 NU <sub>1</sub>	15.0	930712	300.95	222.60	152.74	2.80	0.2158	2.3801	11	9	W	
1993 NV <sub>1</sub>	15.5	930712	328.69	38.43	302.21	2.99	0.2273	2.4145	14	0	W	
1993 NW <sub>1</sub>	14.0	930712	341.04	100.06	214.50	1.48	0.0697	2.8975	14	0	W	
1993 NX <sub>1</sub>	17.0	930712	352.72	218.91	84.30	1.19	0.2230	2.2112	11	9	W	
1993 NZ <sub>1</sub>	13.0	930712	231.28	139.87	293.02	10.07	0.1399	3.0403	14	0	W	
1993 NA <sub>2</sub>	13.5	930712	258.20	287.34	124.57	8.72	0.1624	2.6386	14	0	W	
1993 NB <sub>2</sub>	14.0	930712	256.86	116.87	297.24	1.64	0.1738	2.5211	14	0	W	
1993 NC <sub>2</sub>	15.5	930712	22.60	335.00	282.90	6.12	0.2136	2.5643	12	0	W	
1993 ND <sub>2</sub>	16.0	930712	325.34	92.85	250.88	1.36	0.2021	2.3708	14	0	W	
1993 NE <sub>2</sub>	16.4	930801	340.84	48.83	279.10	5.18	0.1779	2.4208	13	0	D	L
1993 NF <sub>2</sub>	15.5	930712	338.80	217.38	112.84	4.02	0.2721	2.7341	13	7	D	W
1993 NJ <sub>2</sub>	15.0	930712	357.60	102.78	194.54	0.67	0.1982	2.9630	11	7	W	

1993 NK <sub>2</sub>	15.0	930712	5.74	1.80	285.73	4.16	0.0572	2.4770	13	9	W	1993 OS <sub>10</sub>	14.0	930712	350.22	34.90	271.54	3.45	0.0752	2.6975	11	7	W
1993 NL <sub>2</sub>	14.5	930712	318.74	228.38	117.82	16.40	0.1267	2.5708	13	0	W	1993 OU <sub>10</sub>	12.5	930712	232.52	356.01	87.88	3.18	0.2863	3.0264	11	7	E W
1993 NM <sub>2</sub>	15.0	930712	345.50	198.65	117.93	11.94	0.2112	2.7951	13	9	W	1993 OW <sub>10</sub>	16.0	930712	40.50	133.48	103.04	2.25	0.1894	2.2403	11	8	W
1993 OW	15.0	930712	324.46	240.51	111.70	21.64	0.2668	2.2385	7	7	E W	1993 OY <sub>10</sub>	13.5	930712	260.16	284.83	116.56	4.16	0.0542	3.0569	11	0	E W
1993 OC <sub>3</sub>	15.0	930712	350.98	359.92	306.33	3.69	0.1468	2.5195	13	0	W	1993 OA <sub>11</sub>	15.5	930712	0.98	62.02	231.24	1.23	0.0987	2.2229	11	0	W
1993 OD <sub>3</sub>	13.5	930622	270.67	267.52	121.89	9.99	0.0738	3.0530	32	0	W	1993 OE <sub>11</sub>	15.5	930712	0.61	184.16	109.34	3.51	0.1829	2.5038	11	0	W
1993 OE <sub>3</sub>	15.5	930712	359.35	354.94	299.87	6.08	0.1310	2.2830	13	0	W	1993 OX <sub>11</sub>	13.0	930712	277.07	92.53	298.64	2.65	0.1625	3.2197	14	0	W
1993 OF <sub>3</sub>	15.5	930712	6.94	317.15	327.71	1.13	0.1370	2.3617	11	0	W	1993 OZ <sub>11</sub>	12.5	930712	156.85	15.89	109.40	14.32	0.2096	3.0704	14	9	W
1993 OH <sub>3</sub>	15.5	930712	1.05	357.06	296.11	7.36	0.1013	2.3620	11	0	E W	1993 OF <sub>12</sub>	14.5	930712	47.09	101.91	111.38	5.55	0.2827	2.5269	7	9	E W
1993 OL <sub>3</sub>	15.5	930712	27.11	330.47	291.02	2.81	0.1026	2.3776	11	0	W	1993 OP <sub>12</sub>	15.5	930712	314.46	197.36	153.41	2.42	0.1562	2.3271	14	0	W
1993 OM <sub>3</sub>	15.0	930712	59.03	103.60	120.87	5.85	0.1058	2.2007	11	0	F W	1993 OS <sub>12</sub>	15.0	930712	23.20	120.39	137.63	3.33	0.1686	2.4425	14	0	W
1993 ON <sub>3</sub>	16.5	930712	344.33	3.89	313.36	1.97	0.1947	2.3023	11	0	W	1993 OV <sub>12</sub>	14.0	930712	65.70	270.60	285.45	7.78	0.2547	2.7383	11	0	E W
1993 OO <sub>3</sub>	14.5	930712	300.29	88.44	298.92	2.06	0.2859	2.6177	11	0	E W	1993 OX <sub>12</sub>	14.5	930712	344.43	206.78	106.01	4.22	0.1704	3.0015	14	0	E W
1993 OV <sub>3</sub>	12.0	930712	293.50	270.34	118.79	12.14	0.2289	3.9929	11	0	E W	1993 OY <sub>12</sub>	14.5	930712	10.38	352.75	286.36	11.66	0.0720	2.5001	14	0	W
1993 OW <sub>3</sub>	14.0	930712	338.55	200.17	127.52	3.20	0.2147	2.3874	11	0	W	1993 OA <sub>13</sub>	14.0	930712	134.52	24.16	124.39	7.36	0.1101	2.4279	14	0	W
1993 OY <sub>3</sub>	15.0	930712	292.36	227.27	138.20	2.36	0.0228	2.2425	11	0	E W	1993 OB <sub>13</sub>	14.0	930712	8.90	105.80	174.83	2.18	0.0865	2.9461	14	0	W
1993 OZ <sub>3</sub>	15.5	930712	33.13	155.62	92.12	1.69	0.1820	2.4724	11	0	W	1993 OE <sub>13</sub>	15.0	930712	8.58	158.85	121.71	5.67	0.0980	2.3110	14	0	W
1993 OE <sub>4</sub>	15.0	930712	342.96	203.71	115.85	14.52	0.1713	2.7893	11	0	W	1993 OG <sub>13</sub>	14.0	930712	230.27	129.55	303.98	1.68	0.1607	2.3714	11	0	E W
1993 ON <sub>7</sub>	16.0	930712	331.18	56.42	282.96	3.96	0.2268	2.3059	11	0	W	1993 OH <sub>13</sub>	13.5	930712	128.29	219.06	285.44	9.41	0.2589	2.3632	11	0	W
1993 OO <sub>7</sub>	13.5	930712	95.58	247.74	291.33	11.55	0.1978	2.6268	11	0	W	1993 OP <sub>13</sub>	16.5	930712	337.40	216.95	113.17	9.18	0.2672	2.3442	7	0	W
1993 OS <sub>7</sub>	15.5	930712	339.05	204.76	115.83	7.61	0.1502	2.3255	14	0	W	1993 OR <sub>13</sub>	15.5	930712	347.09	193.81	115.08	8.70	0.1423	2.3085	14	9	W
1993 OT <sub>7</sub>	13.5	930712	359.28	160.85	132.92	2.99	0.0737	3.0799	13	0	W	1993 OS <sub>13</sub>	16.0	930712	354.55	89.91	209.19	1.00	0.1412	2.2739	7	9	W
1993 OU <sub>7</sub>	14.0	930622	282.77	207.39	164.06	2.03	0.0499	2.7053	35	0	W	1993 OT <sub>13</sub>	15.5	930712	18.71	322.34	304.92	2.43	0.1348	2.3077	7	0	W
1993 OX <sub>7</sub>	15.5	930712	321.66	235.18	126.62	8.31	0.3167	2.6465	7	0	E W	1993 QH <sub>3</sub>	13.5	930821	309.53	122.98	278.45	0.92	0.0908	2.8438	33	9	W
1993 OA <sub>8</sub>	15.5	930712	7.90	343.22	298.79	6.50	0.1362	2.4906	12	0	W	1993 QN <sub>3</sub>	14.0	930821	40.98	137.67	160.03	4.92	0.0426	2.7004	33	9	W
1993 OD <sub>8</sub>	15.5	930712	320.72	66.90	284.04	3.42	0.2126	2.3504	13	0	W	1993 QP <sub>3</sub>	14.0	930821	332.98	201.61	177.99	2.01	0.1594	2.9828	33	9	W
1993 OF <sub>8</sub>	13.0	930712	141.03	205.15	292.94	16.70	0.2564	2.6258	12	0	W	1993 QU <sub>3</sub>	14.0	930821	304.48	216.37	190.05	1.69	0.0744	2.8401	33	9	W
1993 OJ <sub>8</sub>	15.5	930622	13.19	37.11	229.95	1.37	0.1659	2.4316	35	0	W	1993 QX <sub>3</sub>	13.5	930821	291.21	73.48	349.11	9.59	0.0951	2.9740	33	9	W
1993 OL <sub>8</sub>	15.5	930712	359.83	175.31	117.66	11.72	0.2245	2.7180	14	0	W	1993 QG <sub>4</sub>	16.0	930821	352.33	204.55	147.41	2.46	0.2389	2.3278	33	9	W
1993 OM <sub>8</sub>	14.0	930712	324.60	134.55	203.71	1.90	0.1217	3.0562	14	0	W	1993 QH <sub>4</sub>	14.0	930821	338.89	248.09	128.43	2.20	0.2244	3.1801	33	9	W
1993 ON <sub>8</sub>	15.0	930712	78.13	99.67	107.49	3.32	0.0686	2.3093	14	0	W	1993 QJ <sub>4</sub>	14.5	930821	221.21	321.77	165.29	3.68	0.0763	2.2428	33	9	W
1993 OQ <sub>8</sub>	15.0	930712	311.26	251.49	109.25	2.46	0.1902	2.4247	14	0	W	1993 QO <sub>4</sub>	14.0	930821	345.46	216.20	150.06	1.82	0.2181	3.1127	33	9	W
1993 OR <sub>8</sub>	13.0	930712	250.32	296.86	133.98	3.49	0.2927	2.9861	11	0	E W	1993 QQ <sub>4</sub>	13.0	930821	96.19	77.15	159.83	1.79	0.1175	3.2266	33	9	W
1993 OS <sub>8</sub>	14.0	930712	333.92	13.39	313.48	2.98	0.1288	3.0362	6	7	W	1993 QR <sub>4</sub>	14.0	930821	240.29	98.97	12.35	3.57	0.0830	2.5681	33	0	W
1993 OT <sub>8</sub>	15.5	930712	336.42	189.47	146.34	1.61	0.2890	2.8441	7	0	W	1993 QS <sub>4</sub>	14.5	930821	337.86	27.08	347.15	12.95	0.1962	2.5650	33	9	W
1993 OU <sub>8</sub>	13.5	930712	221.91	311.86	124.07	6.44	0.0560	2.7470	11	7	W	1993 QT <sub>4</sub>	15.5	930821	330.96	30.24	350.92	7.58	0.1712	2.2934	33	9	W
1993 OX <sub>8</sub>	16.0	930712	357.80	174.78	121.90	6.09	0.2689	2.6982	13	0	W	1993 QV <sub>4</sub>	14.0	930821	259.02	76.60	14.04	1.89	0.0408	2.8565	33	9	W
1993 OZ <sub>8</sub>	13.5	930712	329.49	144.88	186.94	2.16	0.1100	3.2185	11	7	W	1993 RC	14.0	930930	32.24	131.46	187.37	17.18	0.1372	3.2108	60	0	W
1993 OE <sub>9</sub>	15.0	930712	286.67	91.73	298.16	2.91	0.2002	2.4014	13	0	W	1993 RP <sub>3</sub>	11.5	930821	287.75	165.73	262.97	12.16	0.2484	2.6473	24	8	W
1993 OG <sub>9</sub>	14.0	930712	241.11	303.33	126.26	9.68	0.1872	2.3606	13	0	W	1993 RS <sub>3</sub>	12.5	930821	315.78	187.00	210.71	13.66	0.2567	2.5429	24	8	W
1993 OH <sub>9</sub>	15.0	930712	359.52	147.35	146.81	3.04	0.0722	2.3949	11	7	W	1993 RU <sub>3</sub>	12.0	930821	59.38	6.82	253.65	11.64	0.1021	2.7140	24	8	W
1993 OJ <sub>9</sub>	15.0	930712	329.36	204.73	131.79	5.36	0.1734	2.6598	11	7	W	1993 RW <sub>3</sub>	13.5	930821	350.10	48.80	298.98	11.20	0.2675	2.5473	25	7	W
1993 OK <sub>9</sub>	13.5	930712	126.24	34.44	127.86	3.40	0.0632	2.8791	13	0	F W	1993 RQ <sub>6</sub>	12.5	930910	257.77	145.07	338.10	2.06	0.1672	2.9997	3	9	E W
1993 OL <sub>9</sub>	13.5	930712	232.45	177.75	247.23	1.24	0.0374	2.8581	11	7	W	1993 RZ <sub>6</sub>	14.3	930910	305.26	70.59	355.08	4.96	0.1034	2.3709	4	0	N
1993 OQ <sub>9</sub>	15.0	930712	294.71	76.95	291.89	8.40	0.0908	2.3258	11	7	W	1993 RC <sub>7</sub>	14.0	930910	179.76	194.45	348.24	2.69	0.0871	2.5304	3	9	E W
1993 OR <sub>9</sub>	14.0	930712	352.74	150.21	152.08	2.27	0.0584	2.9224	13	0	W	1993 RR <sub>7</sub>	15.0	930910	29.95	117.95	189.00	5.27	0.2962	2.8824	3	9	E W
1993 OS <sub>9</sub>	15.0	930712	33.80	137.39	117.13	7.08	0.0754	2.3678	13	0	W	1993 SE	13.5	930930	142.06	244.87	321.66	5.50	0.2115	2.3088	61	0	W
1993 OU <sub>9</sub>	16.0	930712	339.19	207.72	116.51	6.60	0.1946	2.4918	13	0	W	1993 SF	15.0	930930	275.81	141.17	317.13	4.49	0.1104	2.2615	57	0	W
1993 OW <sub>9</sub>	16.0	930712	34.80	120.43	109.45	5.06	0.3125	2.5977	11	7	W	1993 SK <sub>2</sub>	14.0	930910	28.75	313.48	359.30	14.12	0.2475	2.6120	26	0	W
1993 OX <sub>9</sub>	15.0	930712	278.70	82.30	303.86	2.40	0.0979	2.2307	11	7	E W	1993 SN <sub>2</sub>	16.0	930930	324.86	144.98	264.73	1.94	0.1583	2.3364	53	0	W
1993 OY <sub>9</sub>	13.0	930712	229.44	132.09	300.23	9.32	0.0929	2.9810	13	0	W	1993 SK <sub>3</sub>	13.0	930930									

1993 SF <sub>5</sub>	14.0	930821	4.45	172.17	166.04	12.79	0.1094	3.0571	33	9	W	1993 VR	13.4	931129	357.53	183.33	238.43	12.54	0.1539	2.5979	28	0	N
1993 TM	14.0	931020	0.12	354.50	26.17	7.11	0.1225	2.3516	27	0	W	1993 VS	13.4	931129	17.04	271.22	126.08	1.52	0.1763	2.5366	28	0	N
1993 TO	14.0	930930	6.01	341.68	23.17	12.57	0.2411	2.5481	5	0	W	1993 VT	13.0	931129	63.93	268.78	64.09	12.11	0.2144	2.6392	30	0	N
1993 TR	14.5	931020	0.75	46.25	337.79	1.80	0.2535	2.6405	8	8	B	1993 VU	13.5	931109	320.26	258.87	213.95	21.16	0.2785	2.2641	37	6	W
1993 TA <sub>1</sub>	11.5	930930	0.19	326.12	53.28	3.16	0.1470	3.9201	5	8	E W	1993 VX	12.2	931129	3.55	336.03	91.02	7.89	0.1466	2.7809	50	0	N
1993 TB <sub>1</sub>	14.0	931020	357.15	193.96	194.79	2.25	0.1416	2.3176	9	0	B	1993 VY	13.5	931109	341.47	29.94	26.34	25.11	0.1933	2.2758	66	0	B
1993 TC <sub>1</sub>	13.0	931020	357.37	347.83	40.79	5.24	0.1637	2.2296	8	0	B	1993 VC <sub>1</sub>	13.5	931109	24.06	138.20	235.22	24.80	0.2116	2.2648	37	7	W
1993 TD <sub>1</sub>	13.7	931020	36.76	298.19	26.00	17.46	0.2694	2.5986	8	0	B	1993 VF <sub>1</sub>	13.0	931109	322.52	49.54	63.06	25.64	0.2796	2.5959	4	7	W
1993 TA <sub>3</sub>	14.5	930930	37.19	184.83	143.30	3.52	0.1497	2.2110	4	7	W	1993 VL <sub>1</sub>	13.5	931020	348.69	303.29	85.78	22.92	0.2054	2.9683	32	7	W
1993 TD <sub>3</sub>	12.5	930930	27.84	168.53	175.31	8.20	0.1484	3.0804	4	7	W	1993 VR <sub>1</sub>	14.1	931109	339.35	44.41	30.80	4.19	0.1347	2.3075	11	6	N
1993 TE <sub>3</sub>	13.5	931020	30.30	334.91	11.96	8.24	0.1196	2.3072	30	0	W	1993 VS <sub>1</sub>	14.4	931109	358.23	130.90	280.02	2.42	0.2073	2.3873	11	6	N
1993 TG <sub>3</sub>	14.3	931020	333.86	55.16	5.48	5.46	0.1173	2.1679	8	0	N	1993 VT <sub>1</sub>	14.9	931109	14.09	351.33	36.13	5.29	0.1929	2.1850	11	6	N
1993 TH <sub>3</sub>	14.0	930930	57.16	79.59	203.00	6.16	0.3292	2.1800	9	8	E W	1993 VU <sub>1</sub>	12.4	931109	38.24	113.70	243.44	10.30	0.1650	2.9641	11	6	N
1993 TV <sub>3</sub>	14.0	931020	354.60	36.74	355.26	4.92	0.1663	3.1285	31	8	W	1993 VV <sub>1</sub>	14.0	931109	332.41	96.60	351.22	1.96	0.1739	2.3805	11	6	N
1993 TH <sub>4</sub>	14.0	931020	357.52	37.51	350.70	3.34	0.1072	2.7714	29	8	W	1993 VW <sub>1</sub>	13.9	931109	40.47	102.14	246.27	7.70	0.2202	2.4654	11	6	N
1993 TM <sub>4</sub>	13.5	931020	242.18	283.23	228.99	12.34	0.0221	3.2591	29	9	W	1993 VX <sub>1</sub>	13.8	931109	25.86	15.76	349.94	2.37	0.2570	2.6725	11	6	N
1993 TL <sub>5</sub>	15.5	931020	180.46	244.67	321.20	3.29	0.1112	2.2540	32	9	W	1993 VY <sub>1</sub>	12.7	931109	140.17	228.40	31.69	5.89	0.1596	2.2722	11	6	N
1993 TP <sub>9</sub>	14.7	931020	50.61	322.09	0.03	5.40	0.1778	2.2894	27	0	N	1993 VA <sub>2</sub>	12.4	931109	16.92	350.43	40.15	9.52	0.0862	3.0477	11	6	N
1993 TS <sub>9</sub>	16.5	931020	356.00	127.72	269.00	3.57	0.0971	2.7520	25	9	W	1993 VD <sub>2</sub>	14.2	931109	24.64	185.26	183.66	2.18	0.2303	2.4432	11	6	N
1993 TT <sub>9</sub>	13.5	931020	248.83	267.35	245.92	6.43	0.0857	3.9742	28	9	W	1993 VE <sub>2</sub>	13.4	931109	43.79	122.35	225.89	12.77	0.1812	2.5439	11	6	N
1993 TU <sub>9</sub>	15.0	931020	278.81	206.79	285.09	3.21	0.1555	3.1397	25	9	W	1993 VF <sub>2</sub>	14.5	931109	5.36	326.37	74.44	3.85	0.1667	2.1896	11	6	N
1993 TX <sub>9</sub>	16.0	931020	11.13	81.16	297.41	2.72	0.1108	2.7691	28	0	W	1993 VK <sub>2</sub>	12.5	931129	74.57	255.68	81.66	15.54	0.1409	2.5921	54	0	N
1993 TB <sub>10</sub>	17.5	931020	23.72	25.09	334.21	3.22	0.2324	2.3828	29	0	W	1993 VM <sub>2</sub>	14.7	931129	318.77	113.20	12.12	1.39	0.2276	2.5983	36	0	N
1993 TK <sub>11</sub>	14.4	931020	358.42	205.52	182.99	3.90	0.1400	2.1882	8	0	E B	1993 VN <sub>2</sub>	13.5	931129	56.40	203.32	154.39	2.80	0.1667	2.3116	30	0	N
1993 TS <sub>11</sub>	13.9	931020	0.23	19.39	7.94	6.04	0.1168	2.2799	8	0	N	1993 VP <sub>2</sub>	12.4	931129	60.09	109.52	233.27	26.57	0.1821	2.8789	9	6	N
1993 TL <sub>12</sub>	15.7	931020	7.51	147.27	226.46	4.29	0.2668	2.1746	8	0	E N	1993 VQ <sub>2</sub>	14.3	931109	5.63	90.18	317.75	1.62	0.1426	2.1563	7	6	E N
1993 TM <sub>12</sub>	14.0	930930	316.49	293.58	134.09	2.41	0.1202	2.2229	6	9	W	1993 VT <sub>2</sub>	14.0	931109	351.55	295.02	91.60	22.63	0.2921	2.4037	34	4	W
1993 TP <sub>12</sub>	14.0	930930	54.03	116.39	191.14	10.19	0.1450	2.5174	6	0	W	1993 VX <sub>2</sub>	13.4	931109	334.77	33.53	54.71	9.80	0.1984	2.8338	11	6	N
1993 TW <sub>12</sub>	14.5	930930	3.50	325.55	47.49	7.23	0.0640	2.3392	2	6	W	1993 VA <sub>3</sub>	13.0	931109	7.58	345.86	54.67	7.05	0.1670	2.9426	11	6	N
1993 TH <sub>16</sub>	15.0	930930	342.33	204.59	194.67	8.13	0.1794	2.2269	4	0	W	1993 VF <sub>3</sub>	13.9	931109	8.61	149.09	247.82	6.67	0.2314	2.7757	11	6	N
1993 TS <sub>17</sub>	15.5	930930	4.93	343.74	20.90	6.63	0.2852	2.5554	4	0	W	1993 VP <sub>3</sub>	13.6	931109	2.83	89.84	320.93	3.73	0.1924	2.5864	25	6	N
1993 TC <sub>19</sub>	13.0	930930	267.48	79.86	43.53	1.05	0.1138	3.0879	4	0	E W	1993 VV <sub>3</sub>	13.1	931129	320.81	60.22	43.23	12.38	0.1280	2.5261	8	7	E N
1993 TV <sub>20</sub>	16.0	930930	25.54	310.54	22.48	20.68	0.2356	2.2000	4	0	E W	1993 VW <sub>3</sub>	14.2	931109	30.77	327.49	31.06	6.30	0.2559	2.3730	11	8	N
<b>1993 UB</b>	<b>16.5</b>	<b>931020</b>	<b>349.73</b>	<b>20.75</b>	<b>31.52</b>	<b>25.03</b>	<b>0.4604</b>	<b>2.2749</b>	<b>31</b>	<b>0</b>	<b>W</b>	1993 VX <sub>3</sub>	13.7	931219	356.33	198.41	239.68	4.50	0.1014	2.2055	34	9	N
1993 UE	14.5	931020	20.67	225.07	117.31	13.32	0.2105	2.4301	18	0	B	1993 VY <sub>3</sub>	12.1	931219	20.43	147.89	258.75	1.87	0.1088	3.0647	25	6	N
1993 UF	14.7	931020	15.95	219.12	131.88	15.24	0.1815	2.4856	18	0	B	1993 VD <sub>4</sub>	12.6	931109	29.93	322.40	49.96	12.81	0.0896	2.9454	11	6	N
1993 UG	14.9	931020	322.24	48.32	28.83	20.71	0.1863	1.9324	27	9	B	1993 VE <sub>4</sub>	13.8	931109	315.00	42.46	60.17	6.91	0.1073	2.2885	11	6	N
1993 UH	13.0	931109	6.18	163.89	220.32	26.79	0.2013	3.1076	46	0	W	1993 VG <sub>4</sub>	11.7	931109	125.06	28.37	244.28	10.99	0.1625	2.9825	11	6	N
1993 UL	13.5	931020	45.98	130.67	196.56	12.72	0.1970	2.6765	27	9	W	1993 VJ <sub>4</sub>	14.3	931109	50.63	323.36	16.94	2.56	0.1976	2.2427	11	6	N
1993 UN	14.0	931109	63.10	187.98	120.46	0.57	0.1584	2.1645	70	0	W	1993 VO <sub>4</sub>	14.6	931129	21.29	310.19	82.48	5.79	0.2238	2.3588	30	8	N
1993 UT	13.7	931109	55.11	244.25	63.50	32.32	0.3360	2.7206	57	0	N	1993 VS <sub>4</sub>	13.4	931219	50.07	293.51	74.55	11.13	0.1494	2.4702	40	0	N
1993 UU	12.7	931109	16.92	322.34	59.14	7.88	0.1984	2.2655	33	7	N	1993 VV <sub>4</sub>	13.0	931109	279.24	70.50	82.71	10.78	0.0661	3.0273	26	0	W
1993 UV	12.5	931109	2.75	191.80	218.02	13.58	0.2404	2.6740	45	0	N	1993 VA <sub>5</sub>	14.1	931129	349.52	19.41	58.78	7.01	0.2505	2.6205	27	0	N
1993 UW	12.6	931020	22.06	276.09	97.07	1.95	0.2098	2.4290	22	0	N	1993 VB <sub>5</sub>	13.5	931109	330.22	268.39	153.73	23.33	0.1193	1.9883	37	4	W
1993 UY	11.9	931109	151.52	24.89	228.51	12.03	0.1804	2.4219	48	0	N	1993 VC <sub>5</sub>	14.0	931129	353.94	251.15	162.34	21.63	0.3281	2.3791	64	7	W
1993 UD <sub>1</sub>	15.5	931109	66.81	238.56	70.49	6.11	0.1723	2.3348	39	0	W	1993 VU <sub>5</sub>	14.0	931109	287.37	115.93	6.36	4.94	0.0988	2.3802	2	0	E W
1993 UG <sub>1</sub>	14.0	930930	343.01	210.86	192.17	13.43	0.1880	2.4938	7	7	W	1993 VV <sub>5</sub>	18.0	931109	355.86	121.45	284.79	2.26	0.1909	2.3225	3	0	W
1993 UH <sub>1</sub>	13.5	930930	54.44	105.26	195.40	22.81	0.2330	2.3219	7	7	W	1993 VB <sub>6</sub>	14.0	931109	221.04	162.09	23.20	10.89	0.1295	2.7071	2	0	W
1993 UQ <sub>2</sub>	12.5	931020	27.42	177.13	179.99	9.57	0.1038	3.0512	26	8	W	1993 VC <sub>6</sub>	15.0	931109	172.25	225.03	359.38	4.29	0.0733	2.7185	2	0	W
1993 UR <sub>2</sub>	13.5	930930	325.86	258.26	162.67	5.74	0.0480	2.1933	2	5	W	1993 VD <sub>6</sub>	18.0	931109	18.28	116.27	258.94	3.29	0.1505	2.2304	2	9	W
1993 US <sub>2</sub>	13.5	930930	328.89	243.79	198.80	17.52	0.2950	3.2070	2	5	W	1993 VM <sub>6</sub>	15.5	931020	327.47	207.71	232.78	25.92	0.1306	3.1157	28	0	W
1993 UX <sub>2</sub>	14.7	931020	336.68	299.94	106.83	14.42	0.1898	2.7256	18	9	B	1993 VG <sub>7</sub>	16.0	931109	75.04								



1993 WG	18.0	931129	4.07	163.12	242.77	7.44	0.3623	2.6320	17	0	M
1993 WH	15.5	931109	29.34	130.19	246.29	22.17	0.0338	1.9379	4	5	W
1993 XB	13.5	931219	83.42	131.19	206.59	7.00	0.1401	3.0808	45	0	W
1993 XC	14.0	931129	257.47	12.04	171.34	5.50	0.0647	3.4272	14	0	W
1993 XG	12.0	931219	19.28	310.99	98.56	13.75	0.1175	2.8682	8	4	N
1993 XH	14.9	931219	0.89	299.34	136.97	5.32	0.1530	2.2029	8	4	N
1993 XK	13.6	931219	58.52	258.20	110.87	5.41	0.1150	2.4004	24	0	N
1993 XL	13.0	931219	84.95	228.55	100.96	7.16	0.2169	2.2720	24	0	N
1993 XM	11.6	931219	324.92	35.34	107.82	16.67	0.1457	3.0552	27	0	N
1993 XN	11.8	931219	281.68	281.26	268.54	12.18	0.1246	2.6483	25	0	N
1993 XO	13.3	931219	15.49	168.04	249.50	11.08	0.1636	2.4779	11	9	N
1993 XQ	12.3	931219	27.64	183.76	223.40	1.18	0.1010	2.9242	26	0	N
1993 XR	12.2	931219	141.96	209.02	78.80	12.69	0.1790	2.5848	26	0	N
1993 XS	13.5	931129	338.09	22.45	83.35	2.59	0.1912	3.1187	52	0	W
1993 XT	10.9	931219	2.84	15.09	77.39	12.39	0.1971	3.9553	22	0	N
1993 XV	13.4	931219	18.87	135.83	289.13	6.34	0.2129	2.4744	23	0	N
1993 XW	11.3	931219	47.57	313.24	87.42	23.19	0.1060	3.1489	22	0	N
1993 XY	15.5	931219	255.76	11.53	188.20	4.96	0.1669	2.3250	32	0	W
1993 XZ	14.5	931129	29.03	317.27	74.63	2.99	0.1951	2.3411	10	0	W
1993 XE <sub>1</sub>	14.1	931219	4.98	354.41	75.88	25.66	0.1974	2.3596	13	8	N
1993 XF <sub>1</sub>	14.2	931219	40.79	304.18	83.29	5.21	0.1824	2.2666	7	0	E N
1993 XH <sub>1</sub>	15.1	931219	358.67	336.54	105.76	1.62	0.3242	2.5680	13	6	N
1993 XJ <sub>1</sub>	13.1	931219	18.73	330.85	81.30	7.03	0.1097	2.7538	14	9	N
1993 XL <sub>1</sub>	12.5	931129	347.01	214.24	239.89	21.62	0.2288	2.2651	4	3	W
1993 XM <sub>1</sub>	10.5	931129	174.14	233.99	97.00	16.76	0.1959	5.2500	8	9	E W
1993 XO <sub>1</sub>	12.7	931219	113.04	119.01	212.64	4.27	0.1664	2.2610	20	9	N
1993 XP <sub>1</sub>	13.0	931219	295.80	17.30	151.87	5.01	0.0426	2.3262	20	0	N
1993 XQ <sub>1</sub>	13.0	931219	50.96	199.98	204.48	2.16	0.0479	2.1648	20	0	N
<b>1993 XN<sub>2</sub></b>	<b>16.0</b>	<b>931219</b>	<b>25.14</b>	<b>312.92</b>	<b>59.74</b>	<b>25.40</b>	<b>0.5359</b>	<b>2.1178</b>	<b>35</b>	<b>0</b>	<b>W</b>
1993 YB	17.0	931129	328.23	26.48	110.54	27.99	0.0922	1.8718	2	9	W
1993 YC	11.3	931219	103.19	227.38	109.95	8.05	0.1356	3.1949	17	0	N
1993 YD	11.5	931219	247.42	110.01	100.34	15.47	0.0280	3.1690	16	0	N
1993 YF	12.0	931219	41.22	298.14	110.55	3.28	0.0656	3.0552	16	0	E N
1993 YG	13.7	931219	27.25	137.18	286.53	2.77	0.1453	2.3104	18	0	N
1993 YK	13.9	931219	357.10	14.40	90.01	8.16	0.2030	2.4654	18	0	N
1993 YL	12.7	931219	280.70	104.59	79.48	2.90	0.1800	2.4281	14	0	N
1993 YN	14.5	931219	79.60	108.13	218.72	7.25	0.2799	2.3974	7	0	W
1993 YO	13.5	931219	257.18	86.10	95.87	15.93	0.0263	3.1834	26	9	W
1993 YR	14.2	940108	22.02	196.02	216.24	11.70	0.3206	2.6165	28	0	N
1993 YT	13.0	931219	318.62	76.79	89.11	26.56	0.2851	2.6709	12	9	N
1993 YU	13.5	931219	79.56	43.88	248.82	9.38	0.2372	2.4447	28	0	W
1994 AA	11.6	940108	5.15	336.57	99.87	13.66	0.1061	3.0196	6	9	N
1994 AB	11.1	940108	92.75	31.62	295.57	1.61	0.2445	2.9099	6	9	E N
1994 AN	13.0	940108	299.80	301.84	204.82	10.16	0.0296	2.9663	10	0	W
1994 AO	10.5	940108	1.09	241.40	207.03	16.91	0.1772	3.9382	12	0	N
1994 AR	13.4	940108	22.96	184.24	249.61	1.16	0.2133	2.4047	10	0	N
1994 AU	15.0	931219	2.30	62.84	32.70	2.24	0.1779	2.2000	4	8	E W
1994 AA <sub>1</sub>	14.0	940108	2.52	316.57	149.86	4.16	0.1188	2.3646	10	5	N
1994 AK <sub>1</sub>	14.0	940108	310.90	230.96	294.36	27.49	0.1161	1.8926	10	0	W
1994 AL <sub>1</sub>	15.4	940108	320.30	59.04	100.95	25.61	0.1518	1.7756	6	0	N
1994 AO <sub>1</sub>	13.3	940108	14.29	172.84	286.96	11.07	0.1255	2.4607	6	8	N
1994 AT <sub>1</sub>	11.7	940108	74.55	330.50	55.39	13.66	0.2243	2.6461	5	8	N
1994 AV <sub>1</sub>	13.4	940108	328.69	222.16	302.27	6.50	0.1940	2.4553	7	0	N
<b>1994 AW<sub>1</sub></b>	<b>17.0</b>	<b>940108</b>	<b>135.99</b>	<b>36.65</b>	<b>290.46</b>	<b>23.93</b>	<b>0.0755</b>	<b>1.1029</b>	<b>9</b>	<b>0</b>	<b>W</b>
1994 AX <sub>1</sub>	11.2	940108	329.22	47.80	104.73	6.54	0.0182	3.1757	10	6	N
1994 AY <sub>1</sub>	13.7	940108	23.93	269.73	165.10	1.23	0.2676	2.6337	8	8	N
1994 AB <sub>2</sub>	12.3	940108	0.70	243.40	231.56	0.75	0.0450	2.9409	5	6	E N
1994 AD <sub>2</sub>	15.5	940108	356.24	188.69	286.57	12.72	0.1305	2.2775	4	0	E W

1994 AG <sub>2</sub>	12.0	940108	356.82	297.73	133.33	12.70	0.1867	2.9138	11	4	W
<b>1994 AH<sub>2</sub></b>	<b>15.5</b>	<b>940108</b>	<b>332.68</b>	<b>24.54</b>	<b>164.50</b>	<b>9.60</b>	<b>0.7099</b>	<b>2.5193</b>	<b>11</b>	<b>4</b>	<b>W</b>
1994 AJ <sub>2</sub>	14.5	940108	132.44	9.79	311.92	5.01	0.2573	2.6696	3	0	E W
1994 AM <sub>2</sub>	12.5	940108	292.58	266.52	299.41	17.49	0.1396	2.3162	6	6	N
1994 AN <sub>2</sub>	14.9	940108	28.55	124.72	307.82	3.52	0.2134	2.2197	6	8	N
1994 AO <sub>2</sub>	12.3	940108	200.39	335.15	306.29	17.16	0.0683	2.5815	6	8	E N
1994 AD <sub>3</sub>	15.0	940108	26.12	300.92	112.16	3.79	0.2208	2.2968	4	7	W
1994 AJ <sub>3</sub>	12.0	940108	326.29	323.52	162.79	4.38	0.1736	3.9868	6	8	E W
1993 NE <sub>2</sub> = 1993 OP <sub>8</sub> (A. Lowe)											
1993 NF <sub>2</sub> = 1993 OM <sub>13</sub> (G. V. Williams)											
1993 OM <sub>3</sub> = 1993 OB <sub>11</sub> (G. V. Williams)											
1993 OK <sub>9</sub> = 1993 ON <sub>13</sub> (G. V. Williams)											

**(5792)\* 1964 BF = 1955 RL = 1974 VC<sub>2</sub> = 1983 CX = 1985 RA<sub>2</sub>**

Discovered 1964 Jan. 18 by F. Börngen at Tautenburg.

Id. H. Kaneda (*MPC* 19010)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	64.78054	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.26328776	$\omega$	283.85795	+0.86569067	-0.48944484
<i>a</i>	2.4109171	$\Omega$	105.53649	+0.49098258	+0.78933492
<i>e</i>	0.2049055	<i>i</i>	6.25620	+0.09754879	+0.37066714
<i>P</i>	3.74	<i>H</i>	13.6	<i>G</i>	0.15

Residuals in seconds of arc

540523	675	0.6-	0.0	640120	033	0.4+	0.1-	931112	033	0.3-	0.1+
540523	675	0.9-	0.2+	741115	095	(0.4-	3.7-)	931113	033	0.5-	0.2-
550913	760	0.9+	1.4-	830215	688	(0.5+	2.2-)	931113	801	0.2+	0.0
550913	760	0.9+	1.6-	830215	688	1.5+	1.8-	931113	801	1.5-	0.0
550918	760	2.4-	0.8+	830219	688	(1.6+	2.2-)	931213	801	0.4-	0.1-
640118	033	0.4+	0.0	830219	688	1.3-	1.6-	931213	801	0.5-	0.3-
640118	033	0.1+	0.0	850912	688	1.4+	0.8-	931217	801	0.2-	0.4+
640118	033	1.2+	0.6-	850912	688	(7.2-	0.9-)	931217	801	0.4+	0.1-
640119	033	0.1+	0.1-	880608	675	0.1-	1.9-	931217	596	0.1-	0.1+
640119	033	0.1+	0.4+	880608	675	0.8+	0.7-	931217	596	0.5-	0.5-
640120	033	(0.3+	15.4-)	931112	033	0.0	0.0	931217	596	0.1+	0.1+

**(5793)\* 1975 TK<sub>6</sub> = 1977 AS<sub>1</sub> = 1988 SK<sub>3</sub>**

Discovered 1975 Oct. 5 at the Felix Aguilar Observatory, El Leoncito.

Id. B. G. Marsden (*MPC* 15402)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Marsden

<i>M</i>	100.53113	(2000.0)	<i>P</i>	<i>Q</i>	
<i>n</i>	0.22810884	$\omega$	259.68793	+0.90223332	+0.36604232
<i>a</i>	2.6528212	$\Omega$	78.54364	-0.24428883	+0.86951740
<i>e</i>	0.1769908	<i>i</i>	13.45279	-0.35538431	+0.33159087
<i>P</i>	4.32	<i>H</i>	12.7	<i>G</i>	0.15

Residuals in seconds of arc

751005	808	0.6-	0.9+	880916	807	0.1+	0.5+	920918	413	0.1-	0.7-
751005	808	0.4-	0.1-	880918	807	0.2-	0.7+	931111	801	0.3+	0.2+
751006	808	0.6+	1.1-	880919	807	1.1+	1.0+	931111	801	0.3+	0.0
751006	808	0.7-	0.5+	881004	807	0.0	1.3-	931117	801	0.4-	0.2+
751009	808	1.5+	0.2+	881005	807	0.0	0.5-	931217	801	1.1+	0.3-
751009	808	0.4-	0.7-	881007	807	0.6-	0.3+	931217	801	0.5+	0.5-
751010	808	0.6+	0.1+	881105	807	1.5-	0.6-	931218	801	0.3-	0.4-
751010	808	0.2+	0.3-	881107	807	1.1-	1.2+	931218	801	0.3-	0.5-
770113	095	0.7-	0.7+	920917	413	0.0	0.7-				

**(5794)\* 1976 SW<sub>3</sub> = 1987 SW<sub>12</sub>**

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

Id. B. G. Marsden (*MPC* 13584)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Marsden			
<i>M</i>	35.04665	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.17807400	$\omega$	217.74269	+0.85097199	-0.52511975
<i>a</i>	3.1289770	$\Omega$	173.90950	+0.50155019	+0.80696047
<i>e</i>	0.1737668	<i>i</i>	5.29622	+0.15586557	+0.27030361
<i>P</i>	5.53	<i>H</i>	12.4	<i>G</i>	0.15

Residuals in seconds of arc

760924 095	0.7-	0.9-	870924 095	(1.9-	2.2+)	920803 801	0.5+	0.4+
760929 095	1.4+	0.5-	870927 095	(3.1-	1.9+)	920824 801	0.5-	0.3+
761025 095	(4.3+	1.7-)	871001 809	0.4-	0.3+	920824 801	0.8-	0.2+
761026 095	0.1+	1.2-	871001 809	0.5-	0.4+	920901 801	0.5-	1.1+
870904 095	(3.1-	2.3+)	871001 809	0.4-	0.3+	920901 801	1.2-	0.0
870919 809	1.1+	0.1-	871002 809	0.6-	0.4+	931013 801	0.9-	1.2+
870919 809	1.1+	0.6-	871002 809	0.6-	0.1+	931013 801	0.6-	0.2+
870919 809	1.0+	1.1-	871002 809	0.4-	0.1+	931218 801	0.5+	0.7+
870924 809	0.3-	0.1-	920731 801	0.8+	0.1+	931218 801	0.4+	1.0+
870924 809	0.0	0.1-	920731 801	1.1+	0.2+			
870924 809	0.2+	0.1-	920803 801	0.0	0.7+			

**(5795)\* 1978 SH<sub>1</sub> = 1951 WJ = 1968 XC = 1985 UH<sub>5</sub>**

Discovered 1978 Sept. 27 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. G. R. Kastel' (k, *MPC* 12325), T. A. Vinogradova (*ibid.*), B. G. Marsden (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Marsden			
<i>M</i>	160.60334	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.28957310	$\omega$	333.68346	+0.73413257	-0.66525517
<i>a</i>	2.2627187	$\Omega$	68.70817	+0.64587458	+0.62238592
<i>e</i>	0.1548053	<i>i</i>	8.39052	+0.20951228	+0.41239704
<i>P</i>	3.40	<i>H</i>	13.6	<i>G</i>	0.15

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

500615 675	0.5-	0.9-	781007 095	0.5+	1.0-	921226 801	0.7-	0.3-
500615 675	0.1+	0.5-	851022 095	0.8-	0.3+	930119 801	0.3+	1.0-
511127 020	(0.05+	0.02-)	X 851109 095	1.9+	0.4-	930119 801	0.6+	0.1-
681213 095	0.7-	1.2+	851111 095	1.5-	0.7+	930126 801	0.2+	1.1-
780927 095	(4.4-	2.0+)	851120 095	(1.1+	2.6-)			
781003 095	0.4+	0.8-	921226 801	0.1+	0.3-			

**(5796)\* 1978 VK<sub>5</sub> = 1980 GR<sub>1</sub> = 1982 YM<sub>4</sub> = 1989 SU<sub>10</sub>**

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

Id. A. Lowe (k, *MPC* 18415), G. V. Williams (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	10.93629	(2000.0)		<b>P</b>	<b>Q</b>
<i>n</i>	0.25686337	$\omega$	59.34140	+0.72885741	-0.68459863
<i>a</i>	2.4509508	$\Omega$	343.85605	+0.61580349	+0.66159606
<i>e</i>	0.0629049	<i>i</i>	1.97243	+0.29925398	+0.30596629
<i>P</i>	3.84	<i>H</i>	13.0	<i>G</i>	0.15

Residuals in seconds of arc

540630 675	1.0-	0.2+	800409 675	1.0+	0.2-	890929 809	0.2+	0.0
540630 675	0.4+	0.2+	821223 095	(4.7+	1.7+)	931010 675	1.0-	1.1-
781105 675	0.3+	0.7+	890928 809	0.3+	0.5+	931010 675	0.1+	0.8-
781106 675	0.4+	0.1-	890928 809	0.8+	0.4+	931109 675	1.4-	0.0
781107 675	0.1+	0.8+	890928 809	1.3+	0.3+	931109 675	0.4+	0.3-
781108 675	0.4-	0.0	890929 809	0.7-	0.3+	931110 675	0.5-	1.4+
800408 675	0.7-	0.8+	890929 809	0.2-	0.2+	931110 675	0.5+	1.1-

**(5797)\* 1980 AA = 1993 BC<sub>2</sub>**

Discovered 1980 Jan. 13 by A. Mrkos at Kleť.

Id. G. V. Williams (*MPC* 21783)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 (M-N) Williams

		(2000.0)			
<i>M</i>	152.44631	<b>P</b>		<b>Q</b>	
<i>n</i>	0.37862813	$\omega$	168.08014	-0.29740985	-0.95261835
<i>a</i>	1.8923180	$\Omega$	299.19306	+0.86985571	-0.24282964
<i>e</i>	0.4441771	<i>i</i>	4.18862	+0.39357137	-0.18317219
<i>P</i>	2.60	<i>H</i>	18.8	<i>G</i>	0.15

Residuals in seconds of arc

531012 675	(3.0-	5.1-)	930122 675	(3.8+	1.0-)	930218 657	0.5-	0.6+
800113 046	(2.9-	0.9+)	930122 675	1.2+	1.9-	930218 046	0.2+	0.2-
800113 046	(3.0+	6.1-)	930122 691	1.8-	0.8+	930218 046	0.2-	1.0-
800114 046	(3.7-	1.4+)	930122 691	1.2-	0.6+	930218 046	0.2-	0.2-
800114 046	(4.0-	2.6+)	930122 691	0.3-	0.4+	930218 046	0.2-	0.2-
800115 046	1.4+	0.3-	930122 691	0.9-	0.5+	930218 046	0.2-	0.3-
800115 046	(2.8-	1.7+)	930122 691	1.5-	0.5+	930218 046	0.1-	0.0
800115 046	0.1+	0.0	930122 675	(2.8+	3.1-)	930218 046	0.1-	0.2-
800115 046	2.4+	1.7-	930122 675	0.2-	1.1-	930218 046	0.2-	0.2+
800116 688	0.7+	0.8-	930122 675	0.8-	0.9-	930218 104	0.8+	0.0
800116 054	0.5+	0.2+	930122 675	(5.6-	6.1+)	930218 104	0.2-	1.2+
800116 054	0.7-	0.9+	930123 657	(1.7+	3.0-)	930221 801	0.1+	0.2+
800116 054	0.2+	0.2+	930123 657	1.4+	0.9-	930221 801	0.6-	0.0
800118 046	1.5-	1.5+	930123 657	0.3+	0.6+	930223 786	0.0	0.1-
800118 046	0.3+	0.1+	930123 657	0.3-	0.4+	930223 786	1.0+	0.4-
800119 046	0.6+	0.0	930123 657	0.1+	0.6+	930223 786	0.2-	0.4-
800119 046	1.2-	1.7+	930123 670	0.3-	0.4+	930223 786	0.5+	0.4-
800120 801	0.6-	1.2+	930123 670	0.2+	0.0	930224 104	1.6+	1.3+
800120 673	2.1+	1.2-	930123 670	0.4+	0.2+	930224 104	(3.6+	1.6-)
800120 673	(7.1-	7.9+)	930123 675	(0.4-	3.4-)	930225 104	(3.3-	1.0+)
800120 330	(0.9-	2.9+)	930123 675	0.6+	1.0-	930225 104	0.8-	1.5+
800120 046	0.8-	1.0+	930124 675	0.7+	0.7+	930228 786	0.1+	0.0
800120 046	2.0-	1.9+	930125 587	(3.7+	0.2+)	930228 786	0.3+	0.0
800121 046	0.2-	1.2+	930125 587	(3.9+	1.5+)	930228 786	0.6-	0.2+
800121 046	1.8-	1.5+	930125 587	1.1+	0.6+	930228 786	0.6-	0.3+
800121 046	1.2+	0.7-	930126 596	0.8+	0.5-	930228 786	0.8-	0.4+
800121 046	0.2+	0.1+	930126 596	0.6+	1.1-	930228 786	0.5-	0.2+
800121 046	1.3+	1.0-	930126 596	1.4+	1.0-	930228 786	1.2-	0.4+
800121 046	0.9-	0.5+	930126 596	1.5+	1.0-	930228 786	0.9-	0.4+
800122 688	(3.9+	2.4+)	930129 410	2.1-	1.5-	930228 658	0.1-	0.2-
800122 688	(2.7+	1.6+)	930129 410	1.3-	1.5-	930228 658	0.1-	0.3-
800123 046	0.3-	1.3-	930129 410	(4.1+	2.4-)	930301 413	0.4-	0.0
800123 046	1.4-	0.4-	930131 589	0.4+	0.0	930301 413	0.5-	0.2+
800205 043	0.7+	0.3-	930131 589	0.9+	0.2+	930302 413	0.7-	0.4+

800209 879	(3.3- 0.9+)	930131 589	0.4+	0.3-	930302 413	0.7-	0.3+
800209 879	(2.9- 0.7+)	930131 589	0.7+	0.0	930303 413	0.5-	0.2+
800213 801	0.8+ 1.0+	930202 589	0.5-	1.5+	930303 413	0.6-	0.2+
800214 046	0.7+ 0.3-	930202 589	1.1+	1.0+	930313 046	0.2+	0.6-
800214 046	0.5+ 0.2-	930202 589	0.0	0.1+	930313 046	0.1+	0.6-
800215 046	0.1+ 0.7-	930203 589	0.2-	1.3+	930313 046	0.1-	0.3-
800215 046	0.1- 0.3-	930203 589	0.2-	1.4+	930313 046	0.2+	0.2-
800219 046	0.2+ 1.1-	930203 589	0.1+	1.4+	930313 046	0.4+	0.6-
800219 046	0.4+ 0.8-	930203 589	0.3+	0.7+	930313 046	0.4+	0.0
800220 046	0.2- 0.4-	930213 104	(2.8+ 0.5-)		930313 046	0.8-	0.5+
800220 046	0.3- 0.4-	930214 104	0.9+	0.1+	930313 046	0.5+	0.2-
800221 046	0.7- 0.3-	930214 104	0.2-	0.9+	930313 046	0.6+	0.2-
800221 046	0.2+ 0.8+	930215 104	2.4+	0.2-	930313 046	0.3+	0.0
800223 046	1.2- 0.1+	930217 104	1.9+	0.2-	930313 046	0.3+	0.2-
800223 046	(2.7- 0.1+)	930217 104	1.4+	1.4-	930313 046	0.7+	0.6-
930121 675	0.1+ 2.0-	930218 801	0.2-	0.2-	930323 801	0.7-	0.4-
930121 675	1.4- 1.3-	930218 801	0.1-	0.5-	930323 801	0.8-	0.7-
930121 675	(0.0 4.0-)	930218 657	0.8-	0.7+			
930121 675	1.1- 1.1-	930218 657	0.2-	0.6+			

**(5798)\* 1980 RL<sub>7</sub> = 1980 RR<sub>3</sub> = 1943 UE = 1972 TO<sub>4</sub> = 1972 VR**

Discovered 1980 Sept. 13 by S. J. Bus at Palomar.

Id. G. V. Williams (d, *MPC* 18264), H. Kaneda (*MPC* 18416)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	66.72277		<i>P</i>	(2000.0)	<i>Q</i>
<i>n</i>	0.23864327	$\omega$	142.78090	+0.85631526	-0.49703950
<i>a</i>	2.5741662	$\Omega$	247.58785	+0.42978807	+0.83643148
<i>e</i>	0.0975531	<i>i</i>	8.72730	+0.28636758	+0.23094178
<i>P</i>	4.13	<i>H</i>	12.1	<i>G</i>	0.15

Residuals in seconds of arc

431030 024	(0.1+ 5.0-)	920629 801	0.5+	0.1+	921001 801	0.3-	0.1-
431103 024	0.1+ 0.6-	920629 801	0.6+	0.1+	931110 801	0.6+	0.7+
510811 675	0.7- 0.6+	920728 801	0.3+	0.3-	931110 801	0.2+	1.6-
510811 675	0.3- 0.3+	920728 801	0.4+	0.2-	931113 801	0.9+	0.8-
721005 095	(1.4+ 6.4+)	920729 801	0.2+	0.1-	931113 801	0.0	0.8-
721108 095	1.5+ 1.9+	920729 801	0.3+	0.0	931204 596	0.7-	0.8+
800904 095	1.1+ 2.7-	920925 801	0.2-	0.5-	931204 596	1.9-	0.0
800913 675	1.0- 1.0+	920925 801	0.7-	0.2+			
800914 675	0.9- 0.5+	921001 801	0.5-	0.0			

**(5799)\* 1980 TG<sub>4</sub> = 1980 TH<sub>15</sub> = 1975 LK<sub>1</sub>**

Discovered 1980 Oct. 9 by C. S. Shoemaker at Palomar.

Id. B. G. Marsden (d, *MPC* 9203), D. W. E. Green (*MPC* 14345)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Green

<i>M</i>	69.95449		<i>P</i>	(2000.0)	<i>Q</i>
<i>n</i>	0.23218517	$\omega$	332.85208	+0.97244503	+0.22694497
<i>a</i>	2.6216803	$\Omega$	14.33498	-0.15482712	+0.79977748
<i>e</i>	0.1723099	<i>i</i>	12.44445	-0.17429639	+0.55574451
<i>P</i>	4.24	<i>H</i>	13.5	<i>G</i>	0.15

Residuals in seconds of arc

750601 413	0.1+ 0.9-	801010 675	0.5+	0.6-	931118 675	0.3-	0.3-
750601 413	0.8+ 0.6-	801015 095	(3.5+ 0.8-)		931119 675	0.3+	0.4-
750603 413	1.0- 0.1-	840827 675	0.3-	0.2+	931119 675	0.4-	0.3-

750603 413	0.2- 0.2+	840827 675	(4.9- 0.0 )		931213 801	0.5+	0.5-
801007 675	1.0- 0.4-	931014 801	1.2+	0.4+	931213 801	1.0+	0.8-
801008 675	0.2+ 1.3+	931014 801	1.4-	0.1-	931218 801	0.0	0.4+
801009 675	0.4+ 0.4-	931116 675	0.1-	0.4+	931218 801	0.0	0.4+

**(5800)\* 1982 UV<sub>1</sub> = 1971 SA<sub>2</sub>**

Discovered 1982 Oct. 16 by A. Mrkos at Kleť.

Id. S. Nakano (*MPC* 10758)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Nakano

<i>M</i>	45.75692		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18119856	$\omega$	253.50872	+0.99218503	-0.11523714
<i>a</i>	3.0929025	$\Omega$	113.08820	+0.12477498	+0.91714219
<i>e</i>	0.1767802	<i>i</i>	2.98143	-0.00026164	+0.38153716
<i>P</i>	5.44	<i>H</i>	12.4	<i>G</i>	0.15

Residuals in seconds of arc

540729 675	0.9- 0.6-	821021 046	0.8-	1.7+	900317 046	1.6-	1.9-
540729 675	1.3+ 0.6+	821021 046	1.5+	0.9+	900317 046	(4.4- 3.1-)	
710923 095	0.3- 0.3+	870825 801	0.3-	0.6+	931014 801	0.3-	0.2-
711011 095	0.4+ 2.1-	870828 095	2.1+	0.5-	931014 801	0.3-	0.3-
821016 046	0.0 0.8-	870831 095	0.1-	0.2-	931213 801	1.3+	1.1+
821016 046	1.5- 2.5-	870924 095	1.4-	0.1+	931213 801	0.4-	0.4-
821020 046	0.7+ 0.3+	881230 046	1.3+	0.3+	931217 801	0.1-	1.5-
821020 046	0.4- 0.2+	881230 046	0.0	0.7+	931217 801	0.2-	1.3+

**(5801)\* 1984 BK = 1973 AF<sub>2</sub> = 1979 VE<sub>2</sub> = 1986 RS<sub>10</sub> = 1986 VV<sub>8</sub>**

Discovered 1984 Jan. 26 by A. Mrkos at Kleť.

Id. T. Kobayashi (*MPC* 14948)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	356.39586		(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26976595	$\omega$	81.19605	+0.89773442	-0.43632052
<i>a</i>	2.3721636	$\Omega$	304.65137	+0.36953424	+0.82097701
<i>e</i>	0.1031924	<i>i</i>	4.23896	+0.23982775	+0.36826777
<i>P</i>	3.65	<i>H</i>	13.2	<i>G</i>	0.15

Residuals in seconds of arc

530816 675	0.5+ 0.2+	860912 095	1.3-	1.3-	901216 894	0.3+	0.4+
530816 675	0.8+ 0.3-	861104 095	2.7-	1.7+	901216 894	0.3-	0.1+
730101 095	(3.7+ 2.7+)	901115 801	0.3+	0.1+	901216 894	0.1-	0.4+
791114 095	(8.9- 1.8+)	901115 801	0.0	0.5-	901218 801	0.0	1.0+
840125 372	1.8- 1.9-	901117 894	1.5+	2.2-	901218 801	0.0	1.2+
840125 372	(2.9- 4.9-)	901117 894	0.7-	0.4+	930719 801	0.8+	0.2+
840126 046	(6.8- 3.4-)	901121 801	0.5+	0.4+	930719 801	0.4+	0.4+
840126 046	2.5- 0.4-	901121 801	0.6+	0.6+	930722 801	0.0	0.2+
840127 046	1.0- 0.8-	901122 894	2.1+	0.1-	930722 801	0.1+	0.2+
840127 046	0.7- 0.1-	901208 046	(3.6- 3.5-)		930814 801	1.0+	1.3-
840129 046	0.8- 0.8-	901208 046	(1.8- 3.8-)		930814 801	1.0+	1.4-
840129 046	2.0+ 1.1-	901211 046	1.1-	1.4-	930820 801	0.0	0.7-
840131 372	0.9- 0.4-	901211 046	1.6+	0.4-	930820 801	0.0	0.5-
840131 372	1.6+ 1.0+	901215 801	0.1-	0.4+			
860909 095	1.3- 1.1-	901215 801	0.1-	0.4+			

**(5802)\* 1984 HL<sub>1</sub> = 1970 EF = 1989 VK<sub>5</sub>**

Discovered 1984 Apr. 27 by W. Ferreri and V. Zappalà at the European Southern Observatory.

Id. E. Bowell (*MPC* 18624), G. V. Williams (*MPC* 22589)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Williams			
<i>M</i>	0.06625	(2000.0)	<b>P</b>	<b>Q</b>			
<i>n</i>	0.28789294	$\omega$ 123.12218	-0.79360545	-0.60827264			
<i>a</i>	2.2715138	$\Omega$ 19.42466	+0.54331322	-0.71880574			
<i>e</i>	0.1555470	<i>i</i> 2.40520	+0.27386334	-0.33663439			
<i>P</i>	3.42	<i>H</i> 13.4	<i>G</i> 0.15				

Residuals in seconds of arc

510811 675	1.3+	0.3+	840427 809	0.4-	0.8-	891103 675	0.2+	1.4-
510811 675	0.6+	0.7+	840428 809	0.4-	0.0	891104 675	0.1+	0.7-
551025 675	0.1-	0.3+	840428 809	0.4-	0.3-	891104 675	0.6+	2.3-
551025 675	0.3-	0.7+	840501 809	0.2+	0.6-	931111 801	0.7+	0.1-
700307 095	0.9-	0.1-	840501 809	0.1+	0.4-	931116 801	0.3+	0.2+
840329 095	(4.3+	4.6-)	840505 809	0.7-	0.0	931116 801	0.3+	0.1+
840404 095	(5.6+	2.8-)	840505 809	0.2-	0.1-	940113 596	0.2+	0.1+
840427 809	0.6-	0.7-	891103 675	0.6-	0.9-	940113 596	1.1+	0.6-

**(5803)\* 1984 OA = 1983 GU<sub>2</sub>**

Discovered 1984 July 21 by A. Mrkos at Klet'.  
Id. C. M. Bardwell (MPC 14192), S. Nakano (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Nakano			
<i>M</i>	56.38877	(2000.0)	<b>P</b>	<b>Q</b>			
<i>n</i>	0.22972298	$\omega$ 207.57260	+0.93309993	+0.29393225			
<i>a</i>	2.6403799	$\Omega$ 133.71487	-0.25388390	+0.94647244			
<i>e</i>	0.2185297	<i>i</i> 16.65787	-0.25469097	+0.13339321			
<i>P</i>	4.29	<i>H</i> 12.1	<i>G</i> 0.15				

Residuals in seconds of arc

540731 675	0.2-	0.2-	840724 046	(8.0-	0.2-)	891225 046	1.3+	1.3+
540731 675	0.4+	0.6+	840729 046	0.2-	1.0-	891225 046	0.2+	0.9-
540922 675	0.1+	0.3-	840729 046	0.4+	2.1+	891226 046	0.1+	0.7-
540922 675	0.6-	0.5+	840730 046	1.1-	0.7+	891226 046	(3.3-	0.5+)
830412 095	0.2+	1.1-	840730 046	0.5-	0.1+	930821 801	0.3+	0.1+
830501 095	1.5-	0.7-	840731 046	0.3-	0.5-	930821 801	0.1+	0.2+
840721 046	0.1+	1.3-	840731 046	0.0	0.0	930822 801	0.6-	0.2-
840721 046	1.4+	0.0	840820 046	0.5-	1.3-	930822 801	0.4-	0.6-
840722 046	1.4+	1.2+	840820 046	0.4-	1.0-	931213 801	0.3-	0.7+
840722 046	1.4+	0.6+	840821 046	0.3+	1.5-	931213 801	0.3-	0.7-
840724 046	0.6-	0.3-	840821 046	0.6-	0.5+	931217 801	0.3-	0.9-

**(5804)\* 1985 RL<sub>1</sub> = 1970 SP**

Discovered 1985 Sept. 9 by A. Mrkos at Klet'.  
Id. S. Nakano (MPC 13159)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Nakano			
<i>M</i>	94.87162	(2000.0)	<b>P</b>	<b>Q</b>			
<i>n</i>	0.26107971	$\omega$ 122.28009	+0.90575566	+0.41323336			
<i>a</i>	2.4244913	$\Omega$ 213.58214	-0.42295855	+0.86743799			
<i>e</i>	0.1663935	<i>i</i> 9.78938	-0.02669756	+0.27710923			
<i>P</i>	3.78	<i>H</i> 13.4	<i>G</i> 0.15				

Residuals in seconds of arc

700927 095	0.4+	0.0	891002 809	0.5-	0.3-	920603 801	0.1+	0.2-
701001 095	0.2-	1.1-	891002 809	0.3-	0.5-	920623 413	0.8-	0.9-
850909 046	1.7-	1.9+	891003 809	0.2-	1.0-	920623 413	0.0	0.6-
850909 046	1.2-	2.0+	891003 809	0.2+	1.0-	920629 801	0.3+	0.7-
850910 046	(3.4-	0.0 )	891003 809	1.0+	1.0-	920629 801	0.3+	0.9-

850910 046	(3.5-	0.7-)	891025 046	1.8+	0.5-	920703 801	0.2-	1.0-
850911 046	0.3+	1.3+	891025 046	0.2+	1.2-	920703 801	0.2+	0.8-
850911 046	1.0+	0.3+	891026 403	1.6-	0.8-	931110 801	0.7-	0.6+
850913 046	1.0-	0.0	891026 046	2.2+	0.2+	931110 801	0.3-	0.6+
850913 046	1.0-	0.3+	891026 046	0.1+	0.8-	931117 801	0.4-	0.3+
850919 046	1.8+	0.6+	891027 046	0.8+	1.0-	931117 801	0.3-	0.1+
850919 046	0.1-	1.1-	891027 046	0.6+	1.4-	931213 801	0.0	0.0
890925 801	0.5+	0.5+	891028 801	0.7+	0.6+	931218 801	0.3+	0.4-
890928 801	(5.0+	0.4+)	891028 801	2.1-	0.7+	931218 801	0.4+	0.3-
891002 809	1.0-	0.1-	920603 801	0.2+	0.2-			

**(5805)\* 1985 YH = 1991 GN<sub>1</sub>**

Discovered 1985 Dec. 18 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.  
Id. G. V. Williams (MPC 18285)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Williams			
<i>M</i>	278.60888	(2000.0)	<b>P</b>	<b>Q</b>			
<i>n</i>	0.23453858	$\omega$ 253.32248	-0.96354419	-0.17226818			
<i>a</i>	2.6041132	$\Omega$ 276.40183	+0.24425971	-0.87862123			
<i>e</i>	0.1129386	<i>i</i> 11.88773	-0.10917777	-0.44536323			
<i>P</i>	4.20	<i>H</i> 12.5	<i>G</i> 0.15				

Residuals in seconds of arc

851217 688	0.1+	2.2+	920726 801	0.3-	0.0	920823 675	0.4-	0.5+
851218 688	2.0+	1.7-	920726 801	0.2-	0.1-	920826 801	0.1-	0.4+
851218 688	1.7-	0.3-	920729 801	0.3-	0.2+	920826 801	0.1+	0.5+
860205 688	(4.7-	0.4-)	920729 801	0.0	0.2+	920828 675	0.7+	0.3-
860205 688	0.5-	0.8-	920731 675	0.3-	0.6-	931013 801	1.3+	0.5-
910406 413	0.3-	1.9-	920731 675	0.2-	1.0-	931013 801	1.3+	0.4-
910406 413	0.6+	1.4-	920802 675	0.4+	1.0-	931019 801	0.3-	0.7-
910408 413	0.3-	0.9-	920802 675	0.1-	0.9-	931019 801	0.2-	0.8-
910411 413	0.3-	0.4-	920806 675	0.4+	1.1-	931218 801	0.8-	0.9-
910415 413	0.2-	0.3-	920806 675	0.0	0.3-	931218 801	0.5-	1.2-
910420 413	0.4-	0.4+	920823 675	0.9+	1.1+			

**(5806)\* 1986 AG<sub>1</sub> = 1987 QQ<sub>9</sub>**

Discovered 1986 Jan. 11 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.  
Id. N. S. Chernykh (MPC 17204), C. M. Bardwell (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Bardwell			
<i>M</i>	55.47902	(2000.0)	<b>P</b>	<b>Q</b>			
<i>n</i>	0.35840647	$\omega$ 96.74552	+0.73481388	-0.60606373			
<i>a</i>	1.9628427	$\Omega$ 301.03471	+0.39102344	+0.74537947			
<i>e</i>	0.0366969	<i>i</i> 20.81785	+0.55421045	+0.27766202			
<i>P</i>	2.75	<i>H</i> 13.2	<i>G</i> 0.15				

Residuals in seconds of arc

540703 675	1.0+	0.7+	860207 675	(16.4-	4.9+)	901016 801	0.0	0.5-
540703 675	0.0	1.0-	860207 675	1.4-	0.2+	901017 801	0.0	0.4-
860111 688	0.1+	1.0+	860305 688	0.8+	1.6-	901017 801	0.0	0.4-
860111 688	2.4+	0.1+	860305 688	1.2+	1.1-	931113 801	0.5+	0.0
860204 675	0.2+	1.0+	870826 095	1.3-	2.8+	931113 801	0.5+	0.0
860205 688	1.3+	1.6-	900916 801	0.1+	0.5-	931211 107	0.7+	0.3+
860205 688	(1.2-	3.4-)	900916 801	0.2+	0.5-	931211 107	0.7+	0.1+
860205 675	1.9-	1.0-	900918 801	0.2-	0.6-	931212 107	0.6+	1.4+

860205	675	0.2+	1.3+	900918	801	0.2-	0.6-	931212	107	0.7+	0.9+
860205	675	0.0	0.6+	900921	801	0.1-	0.6-	931218	801	0.0	0.2-
860206	675	2.3-	0.6+	900921	801	0.0	0.5-	931218	801	0.1-	0.3-
860206	675	2.2-	0.2+	901016	801	0.0	0.3-				

**(5807)\* 1986 QA<sub>4</sub> = 1979 GN = 1981 UP<sub>19</sub>**

Discovered 1986 Aug. 30 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. B. G. Marsden (*MPC* 14476)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Marsden			
<i>M</i>	157.12517	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.18558111	$\omega$ 198.82261	+0.85718271	+0.51425903	
<i>a</i>	3.0440156	$\Omega$ 130.19733	-0.46771255	+0.79995377	
<i>e</i>	0.1176086	<i>i</i> 2.08931	-0.21559864	+0.30921128	
<i>P</i>	5.31	<i>H</i> 12.7	<i>G</i> 0.15		

Residuals in seconds of arc

790401	809	0.6+	0.1-	910711	801	0.6+	0.2-	921117	400	0.8+	0.2-
790402	809	0.4+	0.1+	910711	801	1.1+	0.3+	921117	400	1.2+	0.5-
811026	095	0.1-	2.0+	910806	801	0.5-	0.5+	931120	691	0.2-	0.6-
860830	095	0.1-	0.8-	910806	801	0.6-	0.4+	931120	691	0.3-	0.1+
860907	095	1.7-	2.1-	910811	801	0.4-	0.1+	931120	691	0.7-	0.1-
860912	095	(0.3-	2.5-)	910811	801	0.1-	0.2-	931217	691	0.3+	0.8-
910709	801	0.7+	0.2-	921116	400	0.1+	0.2+	931217	691	1.5-	0.1+
910709	801	0.6+	0.3-	921116	400	0.2-	0.9+	931217	691	0.3-	0.0

**(5808)\* 1987 QV<sub>10</sub> = 1991 KL = 1992 PN<sub>4</sub>**

Discovered 1987 Aug. 27 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Id. E. Howell (k, *MPC* 20814), G. V. Williams (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	83.63740	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.18984685	$\omega$ 209.51372	+0.98860914	+0.10201321	
<i>a</i>	2.9982450	$\Omega$ 144.10278	-0.07160505	+0.96550113	
<i>e</i>	0.1121323	<i>i</i> 10.87865	-0.13238083	+0.23958478	
<i>P</i>	5.19	<i>H</i> 11.9	<i>G</i> 0.15		

Residuals in seconds of arc

870827	095	0.3-	1.1-	920802	675	0.0	0.2+	931117	801	0.2+	0.1-
870902	095	0.1-	0.1+	920806	675	0.0	0.4+	931217	801	0.1+	0.6-
870920	095	0.9+	1.4-	931019	801	0.7+	1.1+	931217	801	0.1+	0.8-
870922	095	0.0	0.6+	931019	801	1.1-	1.0+	931218	801	0.1+	0.6-
910518	413	0.8-	0.8-	931111	801	0.2-	0.2-	931218	801	0.1+	0.6-
910518	413	0.3+	1.2-	931111	801	0.1-	0.1-				
920802	675	0.1-	0.3+	931117	801	0.2+	0.1-				

**(5809)\* 1987 RG<sub>6</sub> = 1978 WK<sub>13</sub>**

Discovered 1987 Sept. 4 by L. V. Zhuravleva at Crimean Astrophysical Observatory.

Id. S. Nakano (*MPC* 15558)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	163.21531	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.20227438	$\omega$ 197.71908	+0.61611988	+0.78557405	
<i>a</i>	2.8741458	$\Omega$ 110.35290	-0.71507269	+0.58830962	
<i>e</i>	0.0436121	<i>i</i> 3.49659	-0.33025346	+0.19174255	
<i>P</i>	4.87	<i>H</i> 12.5	<i>G</i> 0.15		

Residuals in seconds of arc

781129	675	0.0	0.2+	900317	046	0.2+	1.3-	920928	399	0.2-	1.6-
781130	675	0.3-	0.8+	900317	046	1.3-	1.0-	921022	399	0.6-	1.1-
870904	095	0.0	0.8+	900318	046	0.4-	0.2-	921022	399	0.9+	0.3-
870924	095	0.4+	0.2-	900318	046	1.3+	0.6-	921028	399	1.1+	1.1+
870927	095	0.4+	1.8-	900318	046	0.3+	0.4-	921028	399	1.4-	0.6-
900316	046	1.9+	0.3+	900318	046	1.7-	0.7+	921126	675	0.4-	0.0
900316	046	0.8+	1.6-	900319	046	1.3-	0.0	921126	675	0.8+	0.5+
900317	046	0.4-	0.6-	900319	046	0.9-	1.0+				
900317	046	(3.0-	0.7-)	920928	399	0.9+	0.6-				

**(5810)\* 1988 EN = 1985 PN<sub>1</sub>**

Discovered 1988 Mar. 10 by Y. Oshima at Gekko.

Id. T. Kobayashi (*MPC* 13153)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	141.11452	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.25969002	$\omega$ 101.85040	-0.17317157	+0.98434303	
<i>a</i>	2.4331331	$\Omega$ 158.09472	-0.93444971	-0.15366737	
<i>e</i>	0.2312634	<i>i</i> 5.05457	-0.31115165	-0.08634309	
<i>P</i>	3.80	<i>H</i> 13.7	<i>G</i> 0.15		

Residuals in seconds of arc

850814	010	1.4-	0.6+	880312	888	2.7-	1.5+	920430	801	0.3+	0.8-
850815	010	0.1+	1.3-	880312	888	0.4+	2.1-	920430	801	0.4+	0.0
850815	010	1.0+	0.3+	880312	888	0.5-	1.9-	920506	596	0.1+	0.1-
850815	010	1.2+	1.1-	880318	875	1.9-	1.0+	920506	596	0.5-	0.1+
850816	010	1.4-	0.6+	880322	888	2.1+	1.0+	920506	596	1.5-	1.5+
850816	010	0.2-	0.5-	880322	888	1.9+	1.2+	920507	801	0.2+	0.5-
850824	010	(1.9-	38.4+)	880410	888	0.2-	0.4-	920507	801	0.4+	0.3-
880310	888	(1.9-	4.1-)	880410	888	0.4-	0.5-	931017	033	0.7-	0.4+
880310	888	(1.2-	3.7-)	891005	046	0.5+	0.6-	931018	033	0.0	0.3-
880312	875	1.1+	1.2-	Y 891005	046	2.4+	1.9+	931111	033	0.9-	0.6-
880312	875	2.4+	1.3-	Y 920301	801	0.2+	0.0	931111	033	0.1-	0.6-
880312	888	2.6-	1.5+	920301	801	0.6+	0.1+	931112	033	0.1-	0.4-

**(5811)\* 1988 KC = 1972 XU<sub>1</sub> = 1976 UX<sub>2</sub>**

Discovered 1988 May 19 by E. F. Helin at Palomar.

Id. S. Nakano (*MPC* 13452)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	88.06598	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.23549818	$\omega$ 95.33189	+0.79185634	+0.59607033	
<i>a</i>	2.5970343	$\Omega$ 228.15835	-0.60674509	+0.74311307	
<i>e</i>	0.3055949	<i>i</i> 10.27646	-0.06945457	+0.30411039	
<i>P</i>	4.19	<i>H</i> 13.5	<i>G</i> 0.15		

Residuals in seconds of arc

511201	675	0.3-	0.1+	880608	675	0.0	1.1-	931110	801	0.2-	0.6-
511201	675	1.1-	1.5+	880615	675	(2.4+	4.0-)	931110	596	0.7+	1.1-
721201	095	(4.0+	0.7+)	880617	675	0.0	1.3-	931110	596	0.3-	0.9-
761024	381	2.2+	0.7+	920502	675	0.3-	1.2-	931111	033	0.6-	0.3+
761024	381	1.0+	0.6-	920502	675	1.3+	1.2-	931112	033	0.0	0.6+
761026	095	(2.8+	9.2+)	920530	801	0.9-	0.9+	931112	033	0.2+	0.5-
840629	675	0.7-	0.2-	920530	801	0.5-	0.8+	931113	033	0.3-	0.3-
840629	675	1.2-	0.1+	931109	010	(4.3+	0.5-)	931117	801	0.3-	0.7-
880519	675	(0.6-	10.3-)	931109	010	(5.5+	1.1+)	931117	801	0.4-	0.8-

880519 675 (2.2+ 7.5-) 931110 010 1.0+ 1.5- 931214 691 1.5- 0.4-  
 880520 675 0.9+ 0.5- 931110 010 1.6+ 1.9- 931214 691 1.0- 0.2-  
 880520 675 0.1+ 1.6- 931110 010 (0.2+ 3.1-) 931214 691 1.0- 0.0  
 880608 675 0.9+ 0.9- 931110 801 0.2- 0.4-

**(5812)\* 1988 PJ<sub>1</sub> = 1970 EW<sub>1</sub>**

Discovered 1988 Aug. 11 by A. J. Noymer at Siding Spring.

Id. B. G. Marsden (*MPC* 14355)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Marsden

<i>M</i>	140.40621		(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.23540957	$\omega$	340.50017	+0.47132922	+0.86509193
<i>a</i>	2.5976860	$\Omega$	317.14406	-0.77197031	+0.31054102
<i>e</i>	0.1180185	<i>i</i>	14.61794	-0.42650979	+0.39392921
<i>P</i>	4.19	<i>H</i>	13.2	<i>G</i>	0.15

Residuals in seconds of arc

700303 805 0.3- 0.3+ 881011 413 0.2+ 0.0 920801 809 0.1- 0.1+
700303 805 0.4+ 0.4+ 910412 413 (2.9+ 0.5+) 920803 809 0.0 0.7+
700303 805 0.3+ 0.2- 910412 413 0.7+ 1.8+ 920803 809 0.1+ 0.6+
840608 413 0.9+ 1.2- 910506 413 0.2- 0.7- 920803 809 0.1+ 0.4+
840608 413 0.6+ 0.8- 920728 809 0.6+ 0.2- 920804 809 (0.1+ 2.4+)
880810 413 0.5- 0.3- 920728 809 1.0+ 0.1+ 920804 809 (0.5+ 2.3+)
880810 413 0.7- 0.7- 920728 809 1.4+ 0.1+ 920804 809 (0.8+ 2.3+)
880811 413 0.7- 0.8- 920730 809 0.0 1.2+ 920805 809 0.9- 1.1+
880811 413 1.5+ 0.3- 920730 809 0.7+ 1.2+ 920805 809 0.7- 1.2+
880819 413 1.0+ 1.8+ 920730 809 1.2+ 1.0+ 920805 809 0.6- 1.2+
880819 413 1.3+ 0.9- 920731 809 1.7- 1.4- 931112 801 0.3- 1.5+
880820 413 1.8- 0.2- 920731 809 1.5- 1.2- 931112 801 0.2- 0.8+
880820 413 0.4+ 0.0 920731 809 1.2- 1.3- 931113 801 0.2+ 0.2-
880918 413 0.4+ 0.3+ 920801 809 0.7- 0.3+ 931218 801 0.2+ 0.9+
881010 413 0.1+ 0.7- 920801 809 0.5- 0.3+ 931218 801 0.0 0.7+

**(5813)\* 1988 VL = 1954 PD = 1979 ON<sub>14</sub>**

Discovered 1988 Nov. 3 by T. Kojima at the YGCO Chiyoda Station.

Id. T. Kobayashi (*MPC* 14025)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Bowell

<i>M</i>	129.27314		(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.23516647	$\omega$	161.11898	+0.99141988	+0.12432792
<i>a</i>	2.5994758	$\Omega$	191.95594	-0.13013567	+0.96784516
<i>e</i>	0.1709944	<i>i</i>	11.23544	+0.01230144	+0.21867400
<i>P</i>	4.19	<i>H</i>	12.5	<i>G</i>	0.15

Residuals in seconds of arc

540705 675 0.5+ 0.8+ 881114 897 0.2+ 0.3- 920925 046 (0.5- 3.1-)
540705 675 0.4+ 0.5+ 910419 801 0.5- 0.3- 920926 046 0.1+ 0.7-
540803 024 0.1- 1.0- 910419 801 0.4- 0.2- 920926 046 1.1- 1.6-
790720 095 0.8- 1.0+ 910507 376 1.3+ 0.8+ Y 920929 801 0.3+ 0.7+
790801 095 1.0- 1.2- 910507 376 2.1+ 0.7+ Y 920929 801 0.5+ 0.6+
881103 897 0.5+ 0.2- 910512 801 0.6- 0.1- 920930 801 0.7+ 0.7+
881103 897 1.6- 1.1- 910512 801 0.3- 0.0 920930 801 0.7+ 0.6+
881104 327 0.7+ 0.2+ 910513 801 0.5- 0.0 921121 801 0.2+ 0.0
881104 327 0.6- 1.1+ 910513 801 0.3- 0.0 921121 801 0.2+ 0.1-
881107 897 0.7+ 0.9- 920920 596 (2.1- 2.5+) 921129 801 0.2- 0.2+
881107 897 1.3- 0.6+ 920920 596 (1.9- 4.0+) 921129 801 0.1- 0.1+
881114 897 0.0 1.4+ 920925 046 (1.0- 3.6-)

**(5814)\* 1988 XW<sub>1</sub> = 1977 SN<sub>3</sub> = 1982 SM**

Discovered 1988 Dec. 11 by S. Ueda and H. Kaneda at Kushiro.

Id. T. Kobayashi (*MPC* 14204)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	41.76736		(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.18768072	$\omega$	312.48936	+0.91442334	-0.36552851
<i>a</i>	3.0212705	$\Omega$	69.62833	+0.40391790	+0.79640300
<i>e</i>	0.1091156	<i>i</i>	10.68643	+0.02608216	+0.48179993
<i>P</i>	5.25	<i>H</i>	11.2	<i>G</i>	0.15

Residuals in seconds of arc

511201 675 0.3- 0.4+ 890104 399 2.0+ 0.3+ 931116 399 0.4- 0.0
511201 675 0.2+ 0.0 890104 399 0.6- 1.8- 931116 399 0.6+ 0.3-
770923 095 0.3+ 1.3- 890104 399 0.9- 0.6- 931117 801 0.3- 0.3+
771008 095 1.4- 1.7- 910511 399 0.2- 0.2+ 931117 801 0.3- 0.1+
820922 688 1.9+ 0.9+ 910511 399 0.8- 0.3- 931211 107 0.3+ 1.5+
820922 688 0.2+ 0.4+ 910511 399 (3.3+ 0.6-) 931211 107 0.4- 0.2+
881211 399 0.4+ 0.3+ 910514 399 0.1- 0.0 931212 107 0.4+ 1.3+
881211 399 0.5- 0.4+ 910514 399 0.4+ 0.3+ 931212 107 0.3- 0.4-
881211 399 0.3+ 0.6- 931111 400 1.1+ 0.1- 931217 801 0.8- 0.1-
881211 399 1.2+ 0.4+ 931111 400 0.9- 0.5- 931217 801 0.7- 0.0
881215 399 0.8+ 0.0 931113 801 0.2- 0.2+ 931218 801 0.6- 0.3+
881215 399 0.4+ 0.8- 931113 801 0.4- 0.1+ 931218 801 0.6- 0.3+

**(5815)\* 1989 AH = 1982 YB<sub>4</sub> = 1990 FE<sub>1</sub>**

Discovered 1989 Jan. 3 by T. Seki at Geisei.

Id. S. Nakano (*MPC* 16583)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Nakano

<i>M</i>	92.03533		(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.17325833	$\omega$	242.15036	+0.87578010	+0.29178558
<i>a</i>	3.1866911	$\Omega$	98.69261	-0.17392026	+0.93385870
<i>e</i>	0.0417413	<i>i</i>	22.89276	-0.45028986	+0.20680692
<i>P</i>	5.69	<i>H</i>	11.8	<i>G</i>	0.15

Residuals in seconds of arc

821223 095 (0.6- 3.7-) 900324 675 1.0+ 1.0+ 910611 801 0.1+ 0.6+
890103 372 0.8+ 0.2+ 910516 801 0.2+ 0.4- 920906 413 0.5- 0.1-
890103 372 1.9- 0.7+ 910516 801 0.0 0.4- 920906 413 0.5- 0.0
890104 372 1.6+ 2.5- 910517 801 1.6+ 1.1- 931112 801 0.3+ 0.1-
890104 372 (3.3+ 2.3-) 910517 801 0.3+ 0.5- 931112 801 0.2+ 0.2+
890105 372 1.6- 2.3- 910517 372 (3.1- 2.4-) 931117 801 0.1- 0.0
890105 372 0.1- 1.4- 910517 372 0.8+ 1.3- 931117 801 0.1+ 0.0
890112 372 1.0+ 0.9- 910604 372 0.8- 0.9- 931213 801 0.1- 0.2-
890115 372 1.6+ 2.3+ 910604 372 2.2- 0.3- 931217 801 0.1- 0.1+
900322 675 0.0 0.8+ 910608 293 (3.4- 1.7+) 931217 801 0.2+ 0.1+
900322 675 0.3+ 0.5+ 910609 801 0.5- 0.9-
900324 675 1.4- 1.0+ 910611 801 0.0 0.7+

**(5816)\* 1989 AO<sub>6</sub> = 1987 SQ<sub>14</sub>**

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

Id. S. Nakano (*MPC* 15251)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

M	53.52194	(2000.0)	P	Q
<i>n</i>	0.18450435	$\omega$ 87.87357	+0.69353242	-0.71336207
<i>a</i>	3.0558473	$\Omega$ 317.61265	+0.58731313	+0.64074410
<i>e</i>	0.0934184	<i>i</i> 8.58514	+0.41722426	+0.28383368
<i>P</i>	5.34	<i>H</i> 12.0	<i>G</i> 0.15	

Residuals in seconds of arc

870923 095	1.4-	0.8-	920825 801	0.4+	0.1-	920926 033	0.5+	0.3+
870925 095	0.3+	0.7-	920830 801	0.6+	0.1+	920927 033	0.1-	0.3+
871025 095	0.8+	1.8+	920830 801	0.3+	0.0	920928 033	0.0	0.3+
890111 033	0.1-	0.1+	920907 033	0.6-	0.2-	931016 033	0.4-	0.3-
890111 033	0.3+	0.4+	920907 033	0.4-	0.0	931016 033	0.2+	0.6-
890114 033	0.3+	0.6+	920921 596	(1.4-	2.8+)	931019 801	0.6-	1.3-
890202 033	0.0	0.2+	920921 596	1.2-	0.6-	931112 033	0.4-	0.4+
890203 033	0.1+	0.1-	920921 596	1.1-	1.9-	931113 033	0.5-	0.4+
890205 033	0.0	0.1-	920921 033	0.1+	0.9+	931212 596	0.8+	0.5-
920802 801	0.0	0.3-	920921 033	0.3+	1.0+	931212 596	0.2+	0.1+
920802 801	0.1+	0.3-	920922 033	0.3+	0.7+			
920825 801	0.4+	0.3-	920925 033	0.3+	0.4+			

**(5817)\* 1989 RZ = 1959 RH = 1959 RQ**

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

Id. H. Kaneda (*MPC* 15895)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

M	35.82627	(2000.0)	P	Q
<i>n</i>	0.26361091	$\omega$ 81.54467	+0.43673075	-0.89204245
<i>a</i>	2.4089464	$\Omega$ 341.18463	+0.61582531	+0.39070243
<i>e</i>	0.3391199	<i>i</i> 21.13762	+0.65576325	+0.22718249
<i>P</i>	3.74	<i>H</i> 12.5	<i>G</i> 0.15	

Residuals in seconds of arc

590901 024	1.0+	1.3-	891001 675	1.1+	0.4+	930824 658	0.0	0.6+
590907 760	1.3+	1.2-	891004 675	0.1-	0.6-	930824 658	0.1-	0.4-
590907 760	0.3-	0.4-	891004 675	0.1+	0.3+	930824 658	0.3-	0.3+
740920 675	1.2-	1.9+	891026 675	1.1+	0.7-	931013 801	0.4-	0.7+
740920 675	0.7-	1.3+	891026 675	0.0	0.1-	931013 801	0.2-	0.1+
890905 675	0.1+	0.8+	930812 657	0.5+	0.5-	931229 596	0.0	0.9+
890905 675	(1.9+	4.7+)	930812 657	0.0	0.0	931229 596	1.4-	0.1+
890908 675	0.7-	0.4-	930812 657	0.3+	0.3-	931229 596	0.6+	0.8-
890908 675	1.2-	1.0-	930814 801	0.3-	0.6+	931229 596	0.4+	1.3-
891001 675	0.4+	0.2-	930814 801	0.0	1.7+			

**(5818)\* 1989 RC<sub>1</sub> = 1934 NY = 1982 YK<sub>5</sub> = 1986 YL**

Discovered 1989 Sept. 5 by A. C. Gilmore and P. M. Kilmartin at Mount John University Observatory.

Id. G. V. Williams (*MPC* 22402)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

M	57.48169	(2000.0)	P	Q
<i>n</i>	0.26958692	$\omega$ 257.06503	+0.95166482	-0.21318384
<i>a</i>	2.3732136	$\Omega$ 114.88509	+0.27311741	+0.91669447
<i>e</i>	0.2749430	<i>i</i> 14.10698	-0.14050248	+0.33797027
<i>P</i>	3.66	<i>H</i> 13.0	<i>G</i> 0.15	

Residuals in seconds of arc

340712 078	(18.0-	7.2-)	X	890910 474	0.0	0.2-	931019 801	0.2+	0.1+
821221 095	1.1+	0.8+		891024 474	0.8-	0.6-	931113 474	0.3-	0.2+
850625 413	1.8+	1.2+		891025 474	2.0-	1.3-	931113 474	0.1-	0.1+
850625 413	0.5-	0.3+		891025 474	(3.2-	0.9-)	931114 474	0.6-	0.6+
861227 675	1.7-	0.5-		920530 413	0.5+	0.8-	931114 474	0.8-	0.8+
861227 675	1.5-	0.5-		920530 413	0.1+	0.8-	931212 107	0.3-	0.4+
890905 474	0.2+	0.7+		930731 413	0.0	0.3+	931212 107	0.6+	0.1+
890905 474	1.9+	0.2+		930731 413	0.4-	0.3+	931212 107	1.0+	0.4-
890906 474	0.4-	0.0		930926 413	0.0	0.4+	931212 107	0.3+	0.3-
890906 474	0.4-	0.3-		930926 413	0.2-	0.5+	940103 596	0.3+	0.1+
890909 474	0.5-	1.0-		931012 801	0.4+	0.0	940103 596	0.3+	0.9-
890910 474	0.1-	0.3-		931012 801	0.2+	0.1+			
890910 474	0.2-	0.3-		931019 801	0.2+	0.1-			

**(5819)\* 1989 UZ<sub>4</sub> = 1969 VX<sub>2</sub> = 1981 UZ<sub>19</sub> = 1985 UE<sub>4</sub>**

Discovered 1989 Oct. 29 by S. J. Bus at Cerro Tololo.

Id. S. Nakano (*MPC* 15720)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

M	1.25470	(2000.0)	P	Q
<i>n</i>	0.24509613	$\omega$ 276.84693	+0.36063788	-0.93157053
<i>a</i>	2.5287840	$\Omega$ 151.87637	+0.88965672	+0.32876102
<i>e</i>	0.1642185	<i>i</i> 5.60112	+0.28009148	+0.15521774
<i>P</i>	4.02	<i>H</i> 13.3	<i>G</i> 0.15	

Residuals in seconds of arc

691115 095	0.4+	0.1+	851111 095	0.6+	1.7-	931113 801	0.1-	0.6+
811024 675	1.1-	1.2+	891003 807	0.7+	0.3+	931113 801	0.1-	0.6+
811025 675	0.8-	0.6+	891029 807	0.2+	0.0	931117 801	0.1+	0.6+
811027 095	0.4+	1.0-	891101 807	0.7+	0.3-	931117 801	0.2-	0.3+
851021 095	0.3+	2.0-	931017 033	0.5-	0.8+	931217 801	0.0	0.4+
851108 095	(23.0+	8.3+)	931018 033	0.7-	0.6-	931217 801	0.2+	0.4+

**(5820)\* 1989 UF<sub>7</sub> = 1976 GY<sub>4</sub> = 1985 UA<sub>7</sub>**

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

Id. H. Kaneda (*MPC* 16434)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

M	156.54575	(2000.0)	P	Q
<i>n</i>	0.25630450	$\omega$ 227.02335	+0.14750615	+0.98846111
<i>a</i>	2.4545124	$\Omega$ 51.49123	-0.89415344	+0.14815779
<i>e</i>	0.1113850	<i>i</i> 2.52301	-0.42276656	+0.03152636
<i>P</i>	3.85	<i>H</i> 13.6	<i>G</i> 0.15	

Residuals in seconds of arc

760402 095	(9.8-	10.8+)	910117 033	0.1+	0.2+	910409 033	0.2-	0.3+
851018 095	0.2+	1.7+	910117 033	1.3-	0.4+	910410 033	0.4-	0.4+
890907 033	0.2-	0.7+	910118 033	0.8-	0.4-	910411 033	0.4-	0.3+
890907 033	1.5-	0.9+	910313 809	0.6-	0.1-	910412 033	0.0	0.5+
891023 033	0.5+	0.4-	910313 809	0.2+	0.0	910413 033	0.2-	0.9+
891023 033	0.3-	0.7-	910313 809	1.0+	0.0	931018 033	0.8+	0.2-
891025 033	0.1-	0.0	910315 809	0.9+	0.4-	931018 033	0.5+	0.5-
891025 033	0.6+	0.6+	910315 809	0.9+	0.0	931112 033	0.2+	0.6-
891027 033	1.5-	0.7-	910315 809	1.2+	0.2-	931112 033	0.0	0.1-

**(5821)\* 1989 VV = 1981 RU<sub>1</sub>**

Discovered 1989 Nov. 4 by W. Kakei, M. Kizawa and T. Urata at the Oohira Station of the Nihondaira Observatory.

Id. S. Nakano (*MPC* 15721)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	63.47103	(2000.0)	<i>Q</i>
<i>n</i>	0.25723918	$\omega$ 292.09745	+0.95221289 -0.30400945
<i>a</i>	2.4485631	$\Omega$ 85.61099	+0.28999788 +0.86957341
<i>e</i>	0.1404417	<i>i</i> 1.69410	+0.09587411 +0.38912767
<i>P</i>	3.83	<i>H</i> 14.2	<i>G</i> 0.15

Residuals in seconds of arc

540731 675	0.9-	0.3+	891104 385	(1.0+	3.3-)	931118 385	0.3-	0.6+
540922 675	0.3+	0.6-	891119 385	1.5+	0.0	931118 385	0.4-	0.7+
540922 675	1.2+	1.5-	891119 385	0.9-	1.5+	931209 385	0.4-	0.0
810905 809	0.8-	0.3-	891122 385	2.0-	1.7+	931209 385	0.3-	0.0
810905 809	0.0	0.0	891122 385	(7.0+	1.7+)	931209 385	0.0	0.3-
810905 809	0.4+	0.3+	891204 385	0.2-	1.7-	931211 887	1.0+	0.7-
810906 809	0.2-	0.7+	891204 385	(0.2+	3.0-)	931211 887	0.4+	0.4-
810906 809	0.1-	0.3+	931112 801	0.4-	0.3-	931211 887	0.1+	0.2+
810906 809	0.2+	0.4+	931112 801	0.4-	0.1-	931212 385	0.8+	0.2-
891023 033	0.4+	0.2+	931115 385	0.4-	0.2-	931212 385	0.1-	0.3-
891023 033	0.1+	0.7+	931115 385	0.2-	0.3+	931212 385	0.3+	0.1-
891025 033	0.2+	0.7-	931115 385	0.4-	0.0	931218 801	0.3+	0.1+
891025 033	0.2+	0.2+	931117 801	0.2+	0.2+	931218 801	0.1-	0.2+
891027 033	0.6-	0.5-	931117 801	0.2+	0.3-			
891104 385	1.3+	1.6-	931118 385	0.2+	0.6+			

**(5822)\* 1989 WL = 1938 BD = 1974 VF<sub>2</sub> = 1979 BT**

Discovered 1989 Nov. 21 by T. Hioki and S. Hayakawa at Okutama.

Id. T. Kobayashi (*MPC* 15722)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Bardwell	
<i>M</i>	29.82448	(2000.0)	<i>Q</i>
<i>n</i>	0.26360341	$\omega$ 3.68423	+0.07767988 -0.99188367
<i>a</i>	2.4089920	$\Omega$ 81.87950	+0.91209114 +0.02993452
<i>e</i>	0.1737277	<i>i</i> 5.83595	+0.40256129 +0.12357470
<i>P</i>	3.74	<i>H</i> 13.4	<i>G</i> 0.15

Residuals in seconds of arc

380126 062	0.4-	0.7+	891124 877	(99.4-	42.8+)	891230 877	1.7-	2.9-
380127 062	1.1+	0.3+	891124 877	0.6-	2.1+	900114 877	0.3-	0.2-
380127 062	(0.9+	3.4+)	891125 877	(1.0+	3.9-)	900114 877	0.8+	1.3+
741115 095	0.6+	0.1-	891125 877	(3.6+	2.4-)	931217 801	0.2-	1.0+
790124 095	2.1-	0.5-	891126 877	0.1-	1.0+	931217 801	1.3+	0.4-
810901 675	0.2-	0.7+	891126 877	1.1+	1.2-	940111 596	0.1+	0.5+
810902 675	0.5-	0.1+	891201 877	(3.5+	0.2+)	940111 596	0.4+	0.3+
891121 877	0.5+	1.1-	891201 877	0.5+	1.3+	940111 596	0.0	0.6-
891121 877	0.4+	0.3+	891230 877	0.6-	1.6-			

**(5823)\* 1989 YH = 1984 YF<sub>1</sub> = 1984 YD<sub>3</sub>**

Discovered 1989 Dec. 20 by T. Seki at Geisei.

Id. T. Kobayashi (*MPC* 15899)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	25.75081	(2000.0)	<i>Q</i>
<i>n</i>	0.21341315	$\omega$ 88.13410	+0.78900325 -0.60484361
<i>a</i>	2.7732473	$\Omega$ 309.06585	+0.49386278 +0.72882022
<i>e</i>	0.1638133	<i>i</i> 7.98680	+0.36547697 +0.32091323
<i>P</i>	4.62	<i>H</i> 12.6	<i>G</i> 0.15

Residuals in seconds of arc

841217 095	2.6-	1.4+	891229 372	0.6-	0.4-	910504 372	1.6-	0.4-
841227 095	0.1+	0.9-	891230 413	1.8-	0.6-	910504 372	1.1-	0.5-
880910 675	1.1+	0.2-	891230 413	1.2+	1.1-	931115 372	0.7-	0.1+
880910 675	0.7+	1.0-	891231 413	0.2-	0.9-	931115 372	0.9-	0.6+
880912 675	0.5+	0.4-	891231 413	1.7+	0.5-	931116 801	0.1-	0.6-
880912 675	0.6+	0.3-	891231 372	(7.2-	1.6+)	931116 801	0.3-	0.0
880916 675	0.5+	0.8-	891231 372	(3.0-	3.4+)	931117 801	0.1+	0.1+
880916 675	1.1+	0.5-	900103 372	0.7-	0.4-	931117 801	0.1+	0.6-
891220 372	0.4+	0.5+	900103 372	0.7-	0.6-	931217 801	0.1-	0.1-
891220 372	0.8+	0.5+	900216 372	2.2+	1.0-	931217 801	0.1+	0.2+
891224 372	0.2+	0.3+	900216 372	1.0+	1.5-	931218 801	0.1-	0.3+
891224 372	1.3+	0.8+	910416 372	1.5-	0.3-	931218 801	0.1-	0.1+
891229 372	1.7-	1.0-	910416 372	(2.9-	0.1+)			

**(5824)\* 1989 YM**

Discovered 1989 Dec. 24 by T. Seki at Geisei.

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	351.14380	(2000.0)	<i>Q</i>
<i>n</i>	0.23106819	$\omega$ 171.47853	-0.35204061 -0.91608842
<i>a</i>	2.6301223	$\Omega$ 298.94044	+0.84530192 -0.22310908
<i>e</i>	0.1205012	<i>i</i> 12.67111	+0.40191052 -0.33317314
<i>P</i>	4.27	<i>H</i> 12.3	<i>G</i> 0.15

Residuals in seconds of arc

540904 675	0.3-	0.6+	900121 403	0.3+	0.4-	931122 596	0.2+	1.2+
540904 675	0.4-	0.7+	900121 374	0.2+	2.0+	931127 108	0.8+	0.5+
891224 372	1.1-	2.0+	900121 374	0.4-	2.2+	931127 108	0.1-	0.5-
891224 372	1.1-	1.6+	900123 403	0.0	0.1-	931127 108	0.2-	1.3-
891229 372	0.3+	0.4-	900123 403	(2.7-	1.3-)	931127 108	0.5-	0.0
891231 372	0.4+	0.4+	900125 871	2.0+	0.0	931127 108	1.0-	0.6-
891231 372	0.2-	0.5+	900125 871	0.1+	0.4+	931213 801	0.3+	0.2+
900103 372	(0.2+	3.0-)	900201 372	1.4-	0.4-	931213 801	1.7+	1.2-
900103 372	0.2+	2.1-	900201 372	2.1-	1.0-	931217 801	0.4+	0.1+
900116 400	1.0+	2.1+	900223 033	0.3+	0.8-	931217 801	0.2-	1.6-
900116 400	0.8+	0.9+	900223 033	0.2+	0.1-	931217 107	0.0	0.1+
900117 372	0.0	1.4-	900224 033	0.3-	0.4+	931218 107	0.2-	1.2+
900117 372	0.6+	0.0	920823 675	0.3+	0.2+	931218 801	0.0	0.3+
900117 400	1.6+	0.5-	920823 675	1.0+	1.4+	931218 801	0.0	0.1+
900117 400	2.0+	2.4-	920828 675	0.3+	0.1-	931230 108	0.3-	0.6-
900117 374	0.4+	1.4+	920828 675	0.3+	0.2-	931230 108	1.4-	0.3-
900117 403	(3.6-	1.4-)	Y 920904 372	1.9-	0.2-	931230 108	0.1+	0.0
900117 403	1.6-	0.7+	Y 920904 372	0.8-	0.3+	931230 108	0.4-	0.7-
900117 374	0.0	0.3-	931122 596	0.4+	0.3+	931230 108	0.4+	0.3-
900121 403	0.2-	0.3-	931122 596	0.4-	0.7-			

**(5825)\* 1990 BR<sub>1</sub> = 1958 TQ = 1980 XP<sub>2</sub>**

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



Id. H. Kaneda (*MPC* 16239)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	16.28307	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.22750633	$\omega$ 291.94224	+0.19493064	-0.97387346
<i>a</i>	2.6575028	$\Omega$ 146.14879	+0.95927103	+0.16453896
<i>e</i>	0.1697066	<i>i</i> 12.07220	+0.20445329	+0.15651649
<i>P</i>	4.33	<i>H</i> 12.4	<i>G</i> 0.15	

Residuals in seconds of arc

510210 760	0.7-	0.3-	900202 402	0.9-	1.9+	920730 801	1.8-	0.7+
581013 760	0.1+	0.3+	900202 402	0.8-	0.7+	920802 801	0.1+	0.1-
581013 760	0.6+	0.8+	900216 402	0.3+	1.0+	920802 801	0.0	0.8+
801210 095	0.3-	1.6-	900216 402	0.8+	0.4+	931019 801	0.2+	0.9-
900121 402	1.4+	1.0-	910516 801	0.1+	0.4-	931217 107	(0.4+ 2.7-)	
900121 402	0.8+	0.2+	910516 801	0.3-	0.3-	931218 107	(2.7+ 0.7-)	
900125 889	0.0	0.1+	910517 801	0.5+	0.3-	931218 801	0.6+	1.0-
900125 889	2.1-	0.5+	910517 801	0.6+	0.4-	931218 801	0.3+	0.8-
900125 889	0.8+	1.2-	910614 801	0.7-	0.1-	931230 596	0.1-	0.5-
900201 402	(2.9+ 1.3-)		910614 801	0.0	1.6-	931230 596	1.3-	0.6-
900201 402	(2.8+ 0.1+)		920730 801	0.6+	0.9-	931230 596	0.8+	1.5+

**(5826)\* 1990 DB = 1990 ER<sub>10</sub> = 1942 HG = 1958 GV = 1969 HD = 1971 VE = 1975 NN = 1976 SU<sub>9</sub> = 1977 XR<sub>3</sub> = 1981 SA<sub>1</sub> = 1982 XP = 1986 PH<sub>5</sub>**

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

Id. S. Nakano (*MPC* 22592)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	182.11286	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.18265769	$\omega$ 94.34692	-0.30615536	+0.95184210
<i>a</i>	3.0764090	$\Omega$ 157.80429	-0.88964243	-0.27997315
<i>e</i>	0.1349771	<i>i</i> 2.47215	-0.33882922	-0.12494660
<i>P</i>	5.40	<i>H</i> 11.6	<i>G</i> 0.15	

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

420415 078	(0.02+ 0.03+)	X	810926 688	(0.1+ 3.0-)	900218 399	0.5-	1.0+	
420421 078	(0.03- 0.00-)	X	811004 688	(3.7+ 1.8-)	900301 095	(3.7+ 0.8-)		
420506 078	(93.0- 44.8-)	X	811004 688	(0.6+ 3.6-)	900317 095	1.5+	2.1-	
580408 760	1.8-	0.7-	821213 381	0.1-	1.0+	900317 095	0.8-	1.8-
580408 760	1.4+	0.9+	821213 381	0.9-	0.7+	931113 801	0.1+	0.3-
690422 095	(3.2+ 5.8-)		821214 381	1.3+	0.0	931113 801	0.0	0.1-
711110 029	0.2+	0.5+	821214 381	0.7-	0.6+	931116 801	0.3+	1.3-
711110 029	1.1+	0.5+	860808 095	0.7-	0.3-	931116 801	0.0	0.1-
750711 095	0.5+	0.1+	900216 399	2.0+	0.7+	931213 801	0.2-	0.4-
760929 095	(6.9+ 1.2-)		900216 399	0.3-	1.0+	931213 801	0.3-	0.2+
771207 675	1.5-	0.2-	900216 399	0.5+	0.9-	931218 801	0.2+	0.8-
771208 675	0.3-	0.5+	900218 399	0.2-	1.2+	931218 801	0.2+	0.7-
810926 688	(0.4- 3.8-)		900218 399	1.1-	0.7+			

**(5827)\* 1990 VB<sub>15</sub> = 1990 UR<sub>11</sub> = 1980 RM<sub>3</sub> = 1985 DS<sub>4</sub>**

Discovered 1990 Nov. 15 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. H. Kaneda (*MPC* 19505)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	21.21745	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.30525876	$\omega$ 283.54567	+0.87197059	-0.48558842
<i>a</i>	2.1845264	$\Omega$ 105.53623	+0.47042544	+0.79591472
<i>e</i>	0.1306867	<i>i</i> 3.70265	+0.13552565	+0.36155725
<i>P</i>	3.23	<i>H</i> 13.5	<i>G</i> 0.15	

Residuals in seconds of arc

800904 095	0.1-	0.1+	901115 095	(9.7+ 0.8-)	920427 691	0.7-	1.6-	
850220 675	0.3+	2.0+	901115 095	0.8+	0.1+	920427 691	0.9-	1.4-
850223 675	1.0+	1.3+	901121 095	1.2-	0.6-	931111 801	0.1-	1.2+
901017 095	0.1-	1.4-	901121 095	0.7-	0.8+	931112 801	0.2+	0.7+
901017 095	(1.1- 6.0-)		901123 095	0.0	1.9-	931117 801	0.2-	0.8+
901028 095	1.6+	2.5-	901123 095	1.0+	1.1-	931117 801	0.4-	0.8+
901029 095	(2.7+ 2.8-)		920427 691	0.6-	1.7-	931217 801	0.3-	0.7+

**(5828)\* 1991 AM**

Discovered 1991 Jan. 14 by Spacewatch at Kitt Peak.

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	107.50556	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.44549871	$\omega$ 152.53143	+0.19205617	+0.89309232
<i>a</i>	1.6978725	$\Omega$ 125.61629	-0.96696011	+0.24301883
<i>e</i>	0.6956007	<i>i</i> 30.02848	-0.16763824	-0.37858678
<i>P</i>	2.21	<i>H</i> 16.3	<i>G</i> 0.15	

Residuals in seconds of arc

821113 413	1.6+	0.1-	910116 691	0.6-	0.2+	930123 691	0.2+	0.5+
821113 413	(1.0- 4.9-)		910116 691	0.4-	0.2+	930123 691	0.2+	0.4+
910114 691	1.0-	0.7-	910118 801	0.8+	0.5+	930125 691	0.3+	0.2+
910114 691	1.1-	1.1-	910119 801	0.7+	0.4-	930125 691	0.6+	0.2+
910114 691	0.9-	0.9-	910119 691	1.5-	0.2+	930125 691	0.1+	0.0
910114 691	0.4-	0.7-	910119 691	0.3+	0.1+	930323 801	0.5-	0.9+
910115 691	0.4-	0.7-	910119 691	0.2-	0.2+	930323 801	0.9-	0.8+
910115 691	1.6+	1.2-	910205 691	0.8+	0.5+	931120 413	0.4+	0.5+
910115 691	0.4-	0.9-	910205 691	0.1+	0.4+	931120 413	0.2-	0.2+
910115 691	0.7+	0.5-	910219 691	0.5+	0.5+	940104 691	1.1-	0.0
910115 691	0.6+	0.2-	910219 691	0.1-	0.6+	940104 691	1.0-	0.3-
910115 691	0.0	0.5-	910219 691	0.3+	0.4+	940104 691	0.5-	0.3-
910116 691	0.7-	0.4+	930123 691	0.3+	0.3+			

**(5829)\* 1991 CT<sub>1</sub> = 1981 EA<sub>49</sub> = 1986 UL<sub>3</sub> = 1989 RH<sub>1</sub>**

Discovered 1991 Feb. 11 by S. Otomo and O. Muramatsu at Kiyosato.

Id. K. Ichikawa (k, *MPC* 17971), S. Nakano (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Ichikawa

<i>M</i>	343.65281	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.29842738	$\omega$ 146.65341	-0.71029673	-0.70361834
<i>a</i>	2.2177382	$\Omega$ 348.56046	+0.62176955	-0.61384889
<i>e</i>	0.0874954	<i>i</i> 5.78599	+0.32997148	-0.35792565
<i>P</i>	3.30	<i>H</i> 13.9	<i>G</i> 0.15	

Residuals in seconds of arc

301214 690	2.0-	0.8+	910220 413	0.2-	0.2-	910313 809	0.3+	0.5-
531012 675	(3.9+ 0.7-)		910220 894	0.2+	1.1+	910317 894	0.3+	0.6+ Y
531012 675	2.1+	0.9+	910222 413	0.3-	0.6-	910317 894	0.9+	0.1+
810308 095	0.8+	2.1+	910223 886	0.5+	1.2-	910323 809	1.1-	0.9+
861029 801	2.2+	0.2+	910223 894	0.5+	0.0	910323 809	1.4-	1.2+

890903	511	1.2-	1.7-	910223	894	1.2+	0.6+	910323	809	1.6-	1.4+
890903	511	0.3+	0.8-	910224	413	1.2-	1.0-	910324	809	1.0-	0.1+
890907	511(61.0+ 52.5+)			910224	886	0.4-	2.6-	910324	809	0.6-	0.0
890907	511(67.8+ 53.0+)			910305	894	1.8+	1.0-	910324	809	0.0	0.1-
910211	894	0.2+	0.8-	910305	894	1.3+	0.0	931112	033	0.1-	0.5+
910211	894	0.9-	1.2-	910311	809	0.1-	0.3-	931113	033	0.5-	0.1-
910213	675	1.3-	0.6-	910311	809	0.5+	0.2-	931223	894	0.9-	0.3+
910213	675	0.0	0.0	910311	809	1.1+	0.1-	931223	894	0.5-	0.7-
910217	894	0.5-	1.4+	910313	809	0.5+	0.4-				
910217	894	0.2-	0.2+	910313	809	0.3+	0.3-				

**(5830)\* 1991 EG = 1984 CC**

Discovered 1991 Mar. 9 by T. Nijima and T. Urata at Ojima.

Id. H. Kaneda (*MPC* 18129)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Nakano

<i>M</i>	336.36678	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.28743192	$\omega$ 81.01694	-0.63363023	-0.77056437
<i>a</i>	2.2739420	$\Omega$ 48.53393	+0.66878273	-0.59032856
<i>e</i>	0.2026244	<i>i</i> 5.27342	+0.38889895	-0.24029721
<i>P</i>	3.43	<i>H</i> 14.4	<i>G</i> 0.15	

Residuals in seconds of arc

810508	675	1.1-	1.6-	910317	887	0.5+	0.3+	931118	385	0.0	0.3+
810509	675	0.2-	1.4-	910317	887	0.8+	0.3+	931118	385	1.2+	0.1+
840201	046	1.8+	1.1-	931112	033	0.5-	0.1+	931205	385	0.1-	0.5-
840201	046	1.7+	2.2-	931112	033	0.6-	0.2+	931205	385	0.3-	0.2-
840204	046	1.5-	0.2-	931113	801	0.1-	0.1+	931205	385	0.0	0.4-
840204	046	2.7-	1.0+	931113	801	0.3-	0.3-	931209	385	0.1-	0.2+
910309	887	0.3+	1.3-	931115	385	0.2-	0.1-	931209	385	0.4-	0.0
910309	887	1.9-	1.1+	931115	385	0.4+	0.1-	931209	385	0.1+	0.2+
910312	887	0.6+	0.4+	931115	385	0.5+	0.1+	931213	801	1.2+	1.9-
910312	887	1.4+	0.0	931117	801	0.1+	0.5+	931218	801	0.0	0.5+
910314	887	1.1-	1.1+	931117	801	0.1+	0.2+				
910314	887	1.1+	1.4+	931118	385	0.8-	0.4+				

**(5831)\* 1991 JG = 1938 GF = 1973 GV = 1977 BX**

Discovered 1991 May 4 by S. Ueda and H. Kaneda at Kushiro.

Id. H. Kaneda (*MPC* 18638)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	215.55661	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.22345915	$\omega$ 165.93358	-0.63679453	+0.74492030
<i>a</i>	2.6894943	$\Omega$ 64.10968	-0.72706978	-0.49425733
<i>e</i>	0.1405966	<i>i</i> 12.77724	-0.25663643	-0.44811096
<i>P</i>	4.41	<i>H</i> 12.1	<i>G</i> 0.15	

Residuals in seconds of arc

380405	062	0.4-	1.1+	910504	399	1.0-	0.4+	931112	801	0.1+	0.1-
380405	062	0.9+	1.4-	910504	399	0.7-	0.3+	931112	801	0.3-	0.2+
380405	062	0.4+	0.8+	910505	399	0.1-	0.8-	931113	801	0.2-	0.3-
380406	062	0.5+	1.1+	910505	399	1.5+	0.2-	931113	801	0.2+	0.3+
491222	675	1.1-	0.2-	910511	399	0.9-	0.7-	931213	801	0.4+	0.2-
730401	095	0.3+	0.7-	910511	399	0.6-	0.5-	931218	801	0.1+	0.0
730404	095	0.0	0.6+	910606	399 (3.1+ 0.9-)			931218	801	1.1+	0.2-
770120	095	0.2-	0.5-	910606	399	0.0	0.4-				

**(5832)\* 1991 LE<sub>1</sub> = 1984 YJ<sub>5</sub>**

Discovered 1991 June 15 by E. F. Helin at Palomar.

Id. G. V. Williams (*MPC* 20023)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	130.27322	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.23187735	$\omega$ 262.18342	+0.86446817	-0.24054694
<i>a</i>	2.6240000	$\Omega$ 110.84748	+0.35464702	+0.91414203
<i>e</i>	0.1184175	<i>i</i> 28.18500	-0.35625871	+0.32631506
<i>P</i>	4.25	<i>H</i> 11.1	<i>G</i> 0.15	

Residuals in seconds of arc

841228	095	1.5-	1.8+	910710	675	0.9+	1.0+	930126	801	0.1+	0.5+
850118	675	2.2+	1.0-	910710	675	0.2-	0.5+	930127	801	0.1+	0.6+
850118	675	1.0-	0.2-	910711	675 (3.0- 0.8+)			931111	801	0.4-	0.4+
850121	675	0.1+	0.0	910711	675	0.2-	1.2+	931111	801	0.6-	0.5+
910615	675	0.9-	1.1-	910913	801	0.2-	0.2-	931217	801	0.2+	0.1-
910615	675	0.6+	0.1-	910913	801	0.1+	0.8+	931217	801	0.6+	0.2-
910617	675	0.0	1.0-	930126	801	0.0	1.1-				
910617	675	0.3+	0.3-	930126	801	0.0	0.2-				

**(5833)\* 1991 PQ = 1972 TN<sub>2</sub> = 1978 PO<sub>1</sub>**

Discovered 1991 Aug. 5 by H. E. Holt at Palomar.

Id. G. V. Williams (*MPC* 21111)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	20.44852	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.15135550	$\omega$ 132.80521	+0.13673535	-0.95477648
<i>a</i>	3.4871496	$\Omega$ 307.41446	+0.78388336	+0.26724006
<i>e</i>	0.0395427	<i>i</i> 19.41491	+0.60566519	-0.13032504
<i>P</i>	6.51	<i>H</i> 10.6	<i>G</i> 0.15	

Residuals in seconds of arc

721005	095	0.7-	0.8+	910913	675	1.1-	1.1-	930118	801	0.5-	0.1+
780808	095 (0.6+ 4.3+)			910913	675 (0.8+ 2.6-)			930126	801	0.4+	1.3+
910805	675	0.7+	0.5+	910913	675	0.3-	1.3-	930126	801	0.2+	0.3+
910805	675	0.4+	0.3+	910913	675	0.2+	0.8-	931113	801	0.0	1.1-
910806	809	0.8+	0.3+	910914	675	0.2-	0.2+	931113	801	0.0	0.7-
910806	809	0.2+	0.4+	910914	675	0.4-	0.1+	931212	107	0.1-	0.4+
910806	809	0.4+	0.5+	920928	675	0.0	0.3+	931212	107	0.1-	0.5-
910808	675	0.8+	1.3+	920930	675	0.5-	0.9-	931212	107	0.1+	0.9-
910808	675	0.8+	1.2+	920930	675	0.7-	0.2-	931212	107	0.2+	0.7-
910811	809	1.1+	1.5-	921121	801	0.3-	0.5+	931213	801	0.6-	0.2-
910811	809	0.1+	1.5-	921121	801	0.3-	0.6+	931213	801	0.5-	0.7-
910811	809	0.9+	2.2-	921129	801	0.1+	0.8+	931218	801	0.6-	0.9-
910818	808 (2.9- 0.5+)			921129	801	0.0	0.7+	931218	801	0.7-	0.9-
910818	808	0.9-	1.2-	930118	801	1.2-	1.1+				

**(5834)\* 1992 SZ<sub>14</sub> = 1972 RM<sub>3</sub> = 1976 JU<sub>8</sub> = 1987 SV<sub>20</sub> = 1991 JG<sub>3</sub>**

Discovered 1992 Sept. 28 by S. Ueda and H. Kaneda at Kushiro.

Id. S. Nakano (*MPC* 21118)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Nakano

<i>M</i>	161.13100	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.20035554	$\omega$ 62.75916	+0.37383076	+0.91726396
<i>a</i>	2.8924675	$\Omega$ 229.87807	-0.90178935	+0.32482394
<i>e</i>	0.1004940	<i>i</i> 10.35099	-0.21685602	+0.23046959
<i>P</i>	4.92	<i>H</i> 11.9	<i>G</i> 0.15	

Residuals in seconds of arc

720905 095	0.7+	0.9+	910517 809	0.5+	0.8+	931113 801	0.1+	0.2+
760502 809	1.4-	0.4+	910517 809	0.5-	1.1+	931113 801	0.0	0.7+
870918 095	0.2-	0.6+	920928 399	0.4-	0.6+	931117 801	0.3-	1.2-
870923 095	0.2-	1.5+	920928 399	1.1-	0.8+	931117 801	0.5+	1.2+
910512 809	0.5+	0.1+	921019 399	0.4-	1.0-	931217 801	0.1+	0.3+
910512 809	0.5-	0.0	921019 399	0.6-	0.3-	931217 801	0.0	1.8+
910512 809	0.5-	0.2-	921022 399	0.8+	0.6-	931218 801	0.3+	0.1+
910517 809	1.8+	0.3+	921022 399	0.7+	2.0-	931218 801	0.3+	0.2+

**(5835)\* 1992 SP<sub>24</sub> = 1980 PP<sub>3</sub> = 1981 UH<sub>29</sub> = 1987 WC<sub>4</sub>**

Discovered 1992 Sept. 21 by F. Börngen at Tautenburg.

Id. G. V. Williams (*MPC* 22689)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	15.39641	<i>P</i>	<i>Q</i>
		(2000.0)	
<i>n</i>	0.17263030	$\omega$	193.06270
<i>a</i>	3.1944152	$\Omega$	253.87119
<i>e</i>	0.1592639	<i>i</i>	5.01569
<i>P</i>	5.71	<i>H</i>	13.0
		<i>G</i>	0.15

Residuals in seconds of arc

800803 675	0.3-	0.7-	920907 033	0.5-	0.1+	931112 033	0.1-	0.3-
800805 675	0.8+	0.7-	920907 033	0.7-	0.4-	931113 033	0.2-	0.1+
811024 675	0.5+	1.1+	920921 033	0.3-	0.7+	931213 801	0.6+	1.0-
811025 675	0.4-	0.4-	920921 033	0.3+	0.1-	931213 801	0.2+	0.6-
811026 675	0.7-	0.2-	920922 033	0.6+	0.0	931218 801	0.0	0.2-
871119 054	0.5+	0.1-	920925 033	0.4+	0.1+	931218 801	0.3+	0.2-
871119 054	0.1+	0.0	920926 033	0.6+	1.1-	931218 033	0.8-	0.1+
871124 688	0.1+	1.6+	920927 033	0.2-	0.1+	931219 033	0.7-	0.3-
871124 688	(3.6-	3.5-)	920928 033	0.0	0.0			

**(5836)\* 1993 MF**

Discovered 1993 June 22 by E. F. Helin and K. Lawrence at Palomar.

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	51.48561	<i>P</i>	<i>Q</i>
		(2000.0)	
<i>n</i>	0.25791414	$\omega$	74.76144
<i>a</i>	2.4442894	$\Omega$	241.17424
<i>e</i>	0.5317102	<i>i</i>	8.03191
<i>P</i>	3.82	<i>H</i>	13.9
		<i>G</i>	0.15

Residuals in seconds of arc

810426 413	0.1+	1.0-	930724 557	0.1+	0.5-	930824 095	0.3+	1.0-
810426 413	0.8+	1.3-	930724 557	0.1+	0.0	930824 095	0.5+	0.2+
890502 675	0.3+	1.0+	930724 046	0.1+	0.4+	930824 095	0.4+	0.8-
890502 675	1.7+	0.9-	930724 557	0.0	0.1+	930825 095	0.1+	0.1+
890504 675	0.3+	0.3+	930724 557	0.0	0.0	930825 095	0.6+	0.4-
890504 675	1.6-	1.8+	930724 557	0.2+	0.3-	930825 095	0.5+	0.8-
890603 675	0.8-	1.0-	930724 557	0.1+	0.2-	930825 095	0.7+	0.2+
890603 675	0.9-	0.4-	930724 557	0.1+	0.6-	930827 816	0.1-	0.4-
890605 675	1.2-	1.5-	930724 557	0.0	0.5-	930827 816	0.1+	0.1-
890605 675	(0.1+	3.6-)	930724 557	0.0	0.2-	930828 108	0.6+	1.0-
930622 675	(3.4+	2.6+)	930724 557	0.5+	0.1-	930828 108	0.5-	0.7-
930622 675	0.9+	0.2+	930724 557	0.2+	0.2-	930828 108	0.5-	1.1+
930624 675	1.0-	0.7+	930724 557	0.1+	0.4-	930828 108	(1.7-	2.8+)
930624 675	1.4-	0.3-	930724 557	0.2+	0.1-	930830 970	0.1-	0.4+

930625 670	0.1+	0.6+	930724 557	0.0	0.2-	930830 970	0.0	0.2+
930625 670	0.4-	0.3+	930724 557	0.3-	0.3-	930905 107	1.0-	0.7-
930625 670	0.6-	1.2-	930724 557	0.1+	0.4-	930905 107	0.5+	0.3+
930625 670	0.7+	0.9+	930725 557	0.3+	0.5-	930908 095	0.0	0.2-
930625 670	0.6-	1.1-	930725 557	0.2+	1.0-	930909 657	0.1-	0.2+
930625 670	0.1+	0.2+	930725 557	0.3+	0.5-	930909 657	0.1-	0.2+
930625 413	0.4-	0.0	930725 557	0.1+	0.7-	930909 657	0.0	0.2+
930626 478	(1.0+	4.5+)	930725 557	0.2+	0.8-	930910 095	0.2-	0.5-
930626 675	1.6-	0.2+	930725 557	0.4+	0.0	930910 095	0.6+	1.4-
930626 657	0.8+	0.9+	930725 557	0.4+	0.6-	930910 095	0.2+	1.4-
930626 657	0.8-	0.7-	930725 557	0.3+	0.3-	930910 107	0.4+	0.1+
930626 675	(2.9-	0.6+)	930725 303	(1.3+	3.2+)	930910 107	0.3+	0.2+
930626 568	0.2-	0.6+	930725 658	0.9-	0.6-	930910 107	0.3+	0.0
930626 905	0.0	0.1-	930725 658	0.7-	0.4-	930912 670	0.4+	0.0
930626 905	0.8-	1.0-	930725 658	0.8-	0.5-	930912 670	0.6+	0.0
930626 905	0.3+	0.0	930726 046	0.1-	1.5+	930912 670	0.3+	0.2+
930626 474	0.3+	0.5-	930726 046	1.9-	1.1+	930912 801	0.1+	0.2+
930626 474	0.6+	0.5+	930727 046	(2.1-	0.7+)	930912 801	0.1-	0.1+
930626 474	1.3+	0.1+	930727 046	(4.1-	0.4-)	930914 816	0.2+	0.1-
930626 385	0.0	0.2-	930727 675	0.0	0.1-	930914 816	0.2+	0.1-
930626 385	0.4+	0.1+	930727 675	0.3+	0.4-	930914 095	0.3-	1.5-
930626 474	0.4+	0.3-	930727 107	0.2-	0.2+	930915 801	0.1+	0.2-
930626 474	0.9+	0.3-	930727 107	1.1+	0.8+	930915 801	0.1-	0.2-
930626 385	0.1+	0.4-	930727 587	0.5+	0.2+	930915 816	0.1-	0.0
930626 385	0.4+	0.1-	930727 587	0.6+	0.2+	930915 816	0.0	0.1-
930626 474	0.0	0.6-	930727 587	0.6+	0.1+	930915 107	0.3+	0.1+
930626 474	0.7+	0.1-	930728 107	0.1+	1.0-	930915 107	0.0	0.4+
930626 587	0.4+	0.0	930728 107	(1.3+	2.1-)	930916 095	0.5-	0.7-
930626 587	0.2+	0.0	930730 107	0.0	0.2+	930916 107	0.1+	0.1+
930626 587	0.4+	0.0	930730 107	0.5+	0.3+	930916 095	0.1+	0.8-
930627 478	(2.1+	0.6+)	930731 413	0.2+	0.1-	930916 107	0.0	0.4-
930628 970	0.5+	0.2-	930731 413	0.2+	0.0	930917 107	1.2+	0.5-
930629 046	1.9-	1.9-	930731 413	0.2+	0.0	930918 095	0.2-	1.7-
930630 670	0.3-	1.2+	930731 413	0.0	0.1+	930918 095	0.3-	1.4-
930630 670	0.4-	0.6+	930731 107	0.3-	1.7-	930918 095	0.1-	1.5-
930630 670	0.1+	0.7+	930731 107	0.7-	1.1-	930918 557	0.1-	0.1+
930630 670	0.3-	0.9+	930801 108	0.1-	0.5+	930918 557	0.0	0.3+
930630 413	0.6-	0.4+	930801 108	0.4+	0.4+	930918 557	0.0	0.2+
930630 413	0.8-	0.2-	930801 108	0.8+	0.1-	930918 557	0.1+	0.2+
930630 413	0.6-	0.3+	930801 108	0.2-	0.5-	930918 557	0.1+	0.3+
930630 413	0.6-	0.2+	930802 107	0.8+	1.6+	930918 557	0.4-	0.2-
930630 557	0.1-	0.6+	930802 107	0.3+	0.1+	930918 557	0.4-	0.0
930630 557	0.6-	0.2-	930806 587	0.5-	0.7-	930919 693	(0.7+	2.4+)
930630 557	0.3-	1.0+	930806 587	0.2-	0.6-	930919 693	0.2+	0.2-
930630 557	0.3-	0.2+	930806 587	0.1-	0.3-	930919 674	0.7+	0.5+
930630 557	0.5-	0.1-	930808 816	0.5-	0.2-	930919 674	0.7+	0.6+
930630 557	0.5-	0.7+	930808 816	0.5-	0.1-	930919 674	1.2+	0.3+
930630 557	0.6-	0.1+	930808 816	0.3-	0.2-	930919 674	1.4+	0.3+
930630 557	0.2-	0.2+	930808 816	0.3-	0.2-	930919 674	0.7+	0.2+
930630 557	0.7-	0.0	930809 108	0.3+	0.2+	930919 674	0.5+	0.7+
930630 557	0.4-	0.6+	930809 108	1.1+	0.1+	930919 674	1.1+	0.4+
930701 046	0.5-	0.5+	930812 657	0.3-	0.4+	930919 674	0.1+	1.6+

930701 046	1.5+	0.5+	930812 657	0.3-	0.4+	930919 674	0.1+	0.8+
930701 046	0.8-	0.6+	930812 657	0.3-	0.4+	930920 107	(0.5+	2.3-)
930701 046	(2.0+	2.7+)	930812 104	0.8-	0.3+	930920 107	0.1+	0.3-
930701 046	1.8+	0.4+	930812 557	0.4-	0.5+	930922 107	0.0	1.0+
930701 046	(3.1+	1.6+)	930812 104	0.1+	0.7+	930922 107	0.1-	0.1-
930701 046	0.8+	0.0	930812 557	0.4-	0.5+	930924 095	0.2+	0.6-
930701 046	(2.7+	3.0+)	930812 557	0.0	0.9+	930924 095	0.0	1.1-
930701 046	1.5+	0.5+	930812 108	0.2+	0.8+	930925 816	0.4+	0.2-
930701 413	0.1+	0.4-	930812 557	0.1-	1.3+	930925 816	0.2+	0.3-
930701 413	0.0	0.3-	930812 557	0.2-	0.8+	930925 816	0.3+	0.2-
930701 413	0.0	0.5-	930812 108	0.2+	1.4+	930928 107	(1.7-	2.4+)
930703 376	1.0+	0.4+	930812 557	0.3-	1.4+	930929 107	0.6+	0.0
930703 376	0.7+	0.5+	930812 557	0.1-	1.0+	930929 107	0.2-	0.1-
930703 376	0.2+	0.1+	930812 108	0.3-	0.9+	930929 107	0.9+	0.4-
930706 587	0.3-	0.3+	930812 046	0.9-	0.5-	931004 107	0.1+	0.0
930706 587	0.5-	0.0	930812 046	0.1-	1.0-	931004 107	0.1-	0.0
930706 587	0.4-	0.2+	930812 108	0.2-	0.5+	931009 816	0.2-	0.0
930706 587	0.4-	0.2+	930814 801	0.3-	0.2+	931009 816	0.3-	0.1+
930707 657	0.2-	0.2+	930817 095	1.1-	0.4+	931009 816	0.2-	0.2+
930707 657	0.1-	0.3+	930817 095	0.6-	0.1+	931009 816	0.1-	0.2+
930707 657	0.2-	0.4+	930817 095	0.5-	0.4+	931009 046	(2.3+	0.9+)
930707 970	1.6-	0.8-	930817 095	0.8-	0.2+	931009 046	1.5+	0.1-
930707 970	0.5-	0.7-	930818 104	0.3+	0.3+	931010 046	0.3+	1.3+
930709 596	0.7+	0.7-	930818 104	0.5-	0.0	931010 046	(0.5-	2.1+)
930709 596	1.0+	0.6-	930818 108	0.6+	1.2+	931011 046	(0.1-	3.9-)
930709 596	0.9+	0.7-	930818 108	0.3-	0.6+	931011 046	0.6-	0.0
930709 596	1.0+	0.4-	930818 108	0.2-	0.6+	931015 107	0.7-	1.0-
930715 675	0.5+	1.8-	930820 801	0.1-	0.2+	931015 107	1.1-	0.6+
930715 675	0.5-	0.0	930820 801	0.1-	0.1+	931016 816	0.8-	0.0
930717 801	0.3+	0.5-	930820 675	0.7-	0.1+	931016 816	0.7-	0.1-
930717 801	0.6+	0.9+	930820 675	1.8-	1.6+	931016 816	0.8-	0.1-
930717 658	0.5+	0.6-	930820 108	0.1-	0.1-	931019 801	0.7-	0.0
930717 658	0.1+	0.6-	930820 108	0.1+	0.2-	931019 801	0.5-	0.1+
930717 658	0.2+	0.5-	930820 108	0.5-	0.6-	931022 107	1.1+	1.4+
930717 970	0.1+	0.6-	930820 108	0.1-	1.0-	931022 107	0.6+	0.3-
930718 675	0.3-	0.2+	930821 095	0.1-	1.2-	931024 816	0.1-	0.2+
930718 801	0.1+	0.1-	930821 046	1.2-	0.6-	931024 816	0.2-	0.6-
930718 801	0.0	0.2-	930821 046	1.7-	1.8-	931024 816	0.4-	0.0
930718 675	0.6-	0.2+	930821 095	0.1-	0.7-	931028 107	(0.8-	5.6+)
930720 107	0.7+	0.2+	930821 095	1.0+	0.7-	931028 107	0.2-	0.8+
930720 107	0.6-	0.3-	930821 095	0.8+	0.6-	931109 675	(3.0+	2.8-)
930720 107	0.6-	0.1+	930822 816	0.2-	0.2+	931110 675	0.2+	1.9-
930722 303	0.3+	0.1+	930822 816	0.2-	0.2+	931116 801	0.1-	0.2+
930722 303	1.0+	0.5+	930822 104	1.5-	0.4+	931116 801	0.0	0.5-
930722 303	1.7+	1.6+	930822 104	1.0-	0.1+	931117 801	0.1+	0.3+
930723 801	0.5+	0.1-	930822 104	0.4-	0.1+	931117 801	0.0	0.4+
930723 801	0.4+	0.0	930823 675	0.7+	0.1+	931118 657	1.3-	0.3+
930723 587	0.6+	0.4-	930823 675	1.0+	0.8+	931118 657	0.4-	0.5+
930723 587	0.3+	0.2-	930823 970	1.3-	0.1-	931118 657	0.3-	0.2+
930723 587	0.4+	0.6-	930824 658	0.5-	0.5+	931119 670	0.6-	0.2-
930723 107	0.7+	0.1-	930824 658	0.4-	0.6+	931119 670	0.1-	0.4+
930723 107	0.8+	0.8-	930824 658	0.3-	0.4+	931119 670	0.3+	0.5+

930724 557	0.0	0.2-	930824 413	0.2-	0.5+	931123 696	1.2+	0.3+
930724 046	1.2+	1.0+	930824 413	0.3-	0.3+	931123 696	1.8+	0.6-
930724 046	1.0-	1.6+	930824 413	0.3-	0.4+	931217 801	0.8-	1.5+
930724 557	0.1-	0.4-	930824 413	0.2-	0.3+	931217 801	1.3-	0.0
930724 046	1.7-	1.1+	930824 095	1.2+	0.1+			

**(5837)\* 2548 P-L = 1986 EU<sub>5</sub>**

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

Id. T. Kobayashi (*MPC* 12689)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Williams	
<i>M</i>	106.69871			<i>P</i>	<i>Q</i>
<i>n</i>	0.17719304	$\omega$	150.56428	-0.23951668	+0.97020437
<i>a</i>	3.1393394	$\Omega$	105.55760	-0.89802693	-0.20707889
<i>e</i>	0.1258146	<i>i</i>	2.17378	-0.36902492	-0.12578477
<i>P</i>	5.56	<i>H</i>	12.9	<i>G</i>	0.15

Residuals in seconds of arc

600924 675	0.0	0.2-	860310 809	0.1-	1.7+	930819 010	1.1+	0.4+
600926 675	0.1+	0.5+	860310 809	0.2+	0.5-	930819 010	1.0+	0.1-
600928 675	0.2+	0.3+	860317 809	0.7+	0.6+	930819 010	0.7+	0.6-
600929 675	0.6+	0.4-	860317 809	(0.4+	2.9+)	930919 010	0.2-	0.4+
601017 675	1.1-	0.4+	860317 809	0.4+	1.2+	930919 010	0.7-	1.9+
601022 675	0.6-	0.6+	920603 801	0.2+	0.5-	930920 010	0.9-	1.1-
601025 675	0.1-	0.5+	920603 801	0.4-	0.0	930920 010	(2.5-	0.1-)
601026 675	0.1+	0.3+	930818 010	1.3-	0.1-	930920 010	(2.8-	1.0-)

**(5838)\* 2170 T-2 = 1988 FG<sub>3</sub>**

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

Id. D. W. E. Green (*MPC* 14965)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Green	
<i>M</i>	108.41084			<i>P</i>	<i>Q</i>
<i>n</i>	0.24189479	$\omega$	60.25283	-0.39467192	+0.91836828
<i>a</i>	2.5510465	$\Omega$	186.69808	-0.90511068	-0.39399915
<i>e</i>	0.1349724	<i>i</i>	14.33338	-0.15814148	-0.03693738
<i>P</i>	4.07	<i>H</i>	12.5	<i>G</i>	0.15

Residuals in seconds of arc

730919 675	0.1+	0.0	731004 675	1.9+	0.6-	910107 413	0.5+	0.0
730919 675	0.7+	0.0	731004 675	1.7+	1.2-	910112 413	0.4-	0.2-
730920 675	(0.0	2.4-)	731005 675	(1.1+	2.7-)	930820 801	0.2+	0.2-
730924 675	1.0-	0.1+	731005 675	(1.4-	3.8+)	930820 801	0.0	0.6-
730924 675	0.6-	0.0	731005 675	0.9+	0.7-	930822 801	0.1+	0.4-
730925 675	0.0	2.1-	731005 675	1.7-	2.3+	930822 801	0.4-	0.1-
730925 675	(1.2+	2.4-)	880321 809	0.8-	0.6-	930912 675	0.3+	0.2+
730929 675	0.5-	0.7-	880321 809	0.0	1.4-	930912 675	0.8-	0.5+
730929 675	0.0	0.5-	880321 809	0.1+	0.9-	930914 675	(2.5-	2.5+)
730930 675	0.6-	0.2-	880322 809	(1.4+	3.2-)	930914 675	0.4+	0.8+
730930 675	0.3-	0.3+	880322 809	0.1+	1.4-	930920 801	0.3+	1.5-

**1934 JP = 1978 VR<sub>8</sub> = 1990 HX**

Id. G. V. Williams (*MPC* 16422, unpublished)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<b>P</b>		<b>Q</b>	
<i>n</i>	0.28168841	$\omega$	16.03743	-0.90369624	-0.42778714		
<i>a</i>	2.3047477	$\Omega$	138.62009	+0.38975446	-0.83946352		
<i>e</i>	0.2299535	<i>i</i>	1.57772	+0.17726975	-0.33511066		
<i>P</i>	3.50	<i>H</i>	15.5	<i>G</i>	0.15		

Residuals in seconds of arc

340509 662	1.1-	1.5+	Y	781106 675	1.9-	0.9-	900426 675	0.5-	0.6-
340509 662	1.2+	0.9+	Y	781107 675	1.3-	0.3-	900428 675	0.1+	0.3-
340512 662	0.7+	0.4+	Y	781108 675	1.3-	0.1-	900428 675	0.2-	1.2-
340515 662	0.4-	0.9-	Y	781129 675	0.3+	0.4+	921126 691	0.1-	0.0
340519 662	0.7+	0.1+	Y	781130 675	1.4+	0.9+	921126 691	0.7-	0.3+
781105 675	1.2+	0.2+		900426 675	0.4-	0.1+	921126 691	1.9+	0.3-

**1975 RA<sub>2</sub> = 1993 HT<sub>6</sub>**

Id. G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<b>P</b>		<b>Q</b>	
<i>n</i>	0.26130628	$\omega$	314.42949	+0.91436393	+0.36557828		
<i>a</i>	2.4230897	$\Omega$	25.69074	-0.14827529	+0.70232373		
<i>e</i>	0.2246366	<i>i</i>	23.67022	-0.37676655	+0.61081413		
<i>P</i>	3.77	<i>H</i>	12.5	<i>G</i>	0.15		

Residuals in seconds of arc

550414 675	0.4-	0.1-		750906 808	0.7+	0.7-	930425 809	1.2+	1.9+
550414 675	0.1+	0.2-		750908 808	0.9-	0.5-	930425 809	1.8+	1.7+
750905 808	0.0	0.7+		750929 808	0.1+	0.0	930426 809	1.2-	1.6-
750905 808	0.4+	0.7+		750930 808	0.7-	0.2-	930426 809	1.0-	1.7-
750906 808	0.6+	0.0		930425 809	0.4+	1.6+	930426 809	0.9-	1.6-

**1976 UT<sub>1</sub> = 1993 TZ<sub>20</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<b>P</b>		<b>Q</b>	
<i>n</i>	0.28882992	$\omega$	204.02473	+0.41286379	-0.90956752		
<i>a</i>	2.2665985	$\Omega$	221.63345	+0.84672636	+0.40240983		
<i>e</i>	0.0609174	<i>i</i>	4.07641	+0.33555621	+0.10369791		
<i>P</i>	3.41	<i>H</i>	14.5	<i>G</i>	0.15		

Residuals in seconds of arc

761022 381	0.4-	0.3-		761118 381	0.3-	0.6-	931010 675	0.6+	0.6-
761022 381	0.5-	0.7+		761118 381	0.2+	0.7+	931013 675	0.1+	0.0
761026 095	1.0+	0.5-		931010 675	0.7-	0.2+	931013 675	0.1+	0.4+

**1978 PS<sub>2</sub> = 1978 RX<sub>2</sub> = 1993 TV<sub>21</sub>**

Id. B. G. Marsden (d, MPC 7139), E. Bowell

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<b>P</b>		<b>Q</b>	
<i>n</i>	0.26851586	$\omega$	84.05091	+0.43964730	+0.89797059		
<i>a</i>	2.3795204	$\Omega$	212.05195	-0.83753779	+0.40225662		
<i>e</i>	0.0425939	<i>i</i>	2.04629	-0.32440823	+0.17843328		
<i>P</i>	3.67	<i>H</i>	13.7	<i>G</i>	0.15		

Residuals in seconds of arc

780808 095	0.5-	1.3+		780906 809	0.2+	0.1-	931010 675	0.3-	1.0-
780902 809	0.1+	1.3-		780910 809	1.2-	1.4+	931013 675	0.2+	0.8-
780902 809	0.3-	0.3-		780910 809	0.2+	1.3-	931013 675	0.7+	0.5+
780902 809	0.6+	0.0		780910 809	0.2-	1.0+	931013 675	0.2-	0.4+

780902 809	0.6+	0.3-		780910 809	0.5+	0.4-	931013 675	0.7+	1.2+
780903 095	(4.2-	2.6+)		931010 675	1.1-	0.2-			

**1978 PM<sub>3</sub> = 1993 XA<sub>2</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<b>P</b>		<b>Q</b>	
<i>n</i>	0.21076031	$\omega$	203.81828	+0.98745527	+0.12937119		
<i>a</i>	2.7964700	$\Omega$	148.33256	-0.10232028	+0.96093491		
<i>e</i>	0.1814114	<i>i</i>	9.92953	-0.12026075	+0.24467774		
<i>P</i>	4.68	<i>H</i>	12.5	<i>G</i>	0.15		

Residuals in seconds of arc

780808 095	0.3-	0.6+		931214 675	1.5-	1.3-	931216 675	0.2+	1.3+
780903 095	1.4+	0.2-		931214 675	0.9+	0.1+			
780928 095	1.2-	0.3-		931216 675	0.3+	0.0			

**1978 UV<sub>7</sub> = 1992 SS<sub>25</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<b>P</b>		<b>Q</b>	
<i>n</i>	0.20963471	$\omega$	131.59160	+0.87974176	+0.47459668		
<i>a</i>	2.8064712	$\Omega$	200.12639	-0.45714263	+0.82786618		
<i>e</i>	0.1047481	<i>i</i>	4.75156	-0.13067151	+0.29899094		
<i>P</i>	4.70	<i>H</i>	13.3	<i>G</i>	0.15		

Residuals in seconds of arc

781027 675	0.3+	0.2-		920930 675	0.4+	0.8+	921003 675	0.7+	0.5+
781028 675	0.1+	0.4-		920930 675	1.2-	1.0-			
781029 675	0.4-	0.7+		921003 675	0.1+	0.3-			

**1978 VF<sub>3</sub> = 1993 YS**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<b>P</b>		<b>Q</b>	
<i>n</i>	0.26550594	$\omega$	4.94984	+0.56477621	-0.82500385		
<i>a</i>	2.3974702	$\Omega$	50.66494	+0.75626034	+0.50775752		
<i>e</i>	0.2298516	<i>i</i>	1.47519	+0.33030006	+0.24809464		
<i>P</i>	3.71	<i>H</i>	15.6	<i>G</i>	0.15		

Residuals in seconds of arc

781107 675	0.2+	1.2+		931218 411	0.2-	0.5+	940104 411	0.3+	1.2-
781108 675	0.6-	0.2+		931218 411	0.0	0.8-	940104 411	0.5+	0.7+
781129 675	1.1-	0.5+		931221 411	0.4+	0.7-	940104 411	0.2-	1.2+
781129 675	1.1+	1.2-		931221 411	0.2+	0.6-	940107 411	0.4+	1.7+
781130 675	1.2-	0.1+		931223 411	0.7-	1.1-	940107 411	0.1-	1.1+
781130 675	1.6+	0.3-		931223 411	0.0	0.3-	940107 411	1.0-	0.1+
931218 411	0.1-	0.5-		931223 411	0.4+	0.2-			

**1978 VL<sub>10</sub>**

Id. T. Kobayashi (1994 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<b>P</b>		<b>Q</b>	
<i>n</i>	0.20088787	$\omega$	241.91952	+0.72453095	-0.68915825		
<i>a</i>	2.8873554	$\Omega$	161.63715	+0.64375093	+0.67104971		
<i>e</i>	0.1083186	<i>i</i>	1.95757	+0.24625117	+0.27341030		
<i>P</i>	4.91	<i>H</i>	13.2	<i>G</i>	0.15		

Residuals in seconds of arc

781105 675	0.1-	0.6-		781129 675	0.0	0.5-	940103 411	0.8+	1.3+
781106 675	0.2-	0.4-		781130 675	0.1-	0.7+	940103 411	0.4-	0.1-

781107 675 0.1- 1.2+ 940102 411 0.0 0.7- 940103 411 0.3- 0.4-  
 781108 675 0.5+ 0.2- 940102 411 0.1- 0.2-

**1979 MF<sub>2</sub> = 1992 DN<sub>5</sub> = 1993 TA<sub>19</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	84.40858	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.28787565	$\omega$ 135.11978	+0.66058062 +0.75075411
<i>a</i>	2.2716047	$\Omega$ 176.22378	-0.69393347 +0.61120752
<i>e</i>	0.2073270	<i>i</i> 1.06868	-0.28651278 +0.25058659
<i>P</i>	3.42	<i>H</i> 16.0	<i>G</i> 0.15

Residuals in seconds of arc

790623 413 0.1- 0.3+ 790727 675 (3.4+ 1.3-) 931009 809 0.9+ 0.3-  
 790624 413 1.4- 0.5- 790823 675 0.8+ 0.9- 931009 809 0.8+ 0.3+  
 790625 413 0.9- 0.2+ 920228 691 0.8- 1.8- 931009 809 0.2+ 0.4-  
 790629 413 2.0+ 0.3- 920228 691 0.4- 1.6- 931011 809 0.3- 1.0-  
 790724 675 (2.9- 1.1-) 920228 691 0.7- 1.5- 931011 809 1.3- 1.9-  
 790724 675 (2.8+ 1.1-) 930919 691 0.6+ 0.6+ 931011 809 1.2- 1.3-  
 790724 413 0.0 0.8- 930919 691 1.0+ 0.5+  
 790725 675 (3.2- 0.4-) 930919 691 0.7+ 0.5+

**1979 MT<sub>4</sub> = 1951 VK = 1984 WM<sub>5</sub> = 1988 VZ<sub>7</sub>**

Id. E. Bowell, G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	81.89709	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.23991182	$\omega$ 153.57275	+0.32722002 -0.92078431
<i>a</i>	2.5650842	$\Omega$ 276.70629	+0.82471807 +0.38796764
<i>e</i>	0.1623523	<i>i</i> 12.34461	+0.46126692 -0.04046435
<i>P</i>	4.11	<i>H</i> 14.0	<i>G</i> 0.15

Residuals in seconds of arc

511105 675 0.1+ 0.6- 790629 413 1.7+ 0.4+ 790728 413 0.7- 0.4-  
 511105 675 0.2- 0.9+ 790724 413 1.4- 0.8- 790822 675 0.5- 2.4-  
 790623 413 0.8+ 0.6- 790726 675 1.2+ 0.3+ 841121 010 0.3- 1.0+  
 790624 413 0.9- 1.0+ 790726 675 0.1+ 1.6+ 881103 033 0.5+ 0.4-  
 790625 413 0.8- 0.7+ 790727 675 0.2+ 0.5+ 881103 033 0.1- 0.5-

**1979 US = 1974 RG = 1981 ET<sub>1</sub> = 1992 OA<sub>10</sub> = 1993 WP**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	38.02650	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.21468527	$\omega$ 35.06583	+0.72354226 -0.69021056
<i>a</i>	2.7622812	$\Omega$ 8.60176	+0.61740918 +0.64074805
<i>e</i>	0.1362520	<i>i</i> 3.75555	+0.30869484 +0.33623104
<i>P</i>	4.59	<i>H</i> 13.0	<i>G</i> 0.15

Residuals in seconds of arc

740911 095 1.7- 2.6- 810309 809 0.2+ 0.8+ 920801 809 0.3+ 1.7+  
 791019 046 1.4+ 0.7+ 810310 809 0.1- 0.4- 920803 809 (2.6+ 0.5+)  
 791019 046 0.4+ 0.3+ 810310 809 0.2- 0.4- 920803 809 (2.8+ 0.6+)  
 791020 046 0.2- 0.4+ 810310 809 0.4- 0.4- 920803 809 (3.2+ 0.2+)  
 791020 046 0.8+ 1.2+ 810310 809 0.5- 0.6- 931122 408 0.4- 0.2-  
 791023 046 0.2- 0.8+ 810310 809 0.1+ 0.6- 931122 408 0.6+ 0.6+  
 791023 046 (4.2+ 1.1+) 810310 809 0.6+ 0.6- 931204 408 1.4- 0.6-  
 810309 809 0.1- 1.5+ 920730 809 (3.3- 0.6+) 931204 408 0.4+ 1.4+  
 810309 809 0.3+ 1.3+ 920730 809 (2.8- 0.6+) 931204 408 0.4- 1.0-  
 810309 809 0.5+ 1.3+ 920730 809 (2.6- 0.6+) 931205 408 0.1- 0.7+

810309 809 0.7+ 1.0+ 920801 809 0.3- 2.0+ 931205 408 0.6- 0.1-  
 810309 809 0.4+ 0.8+ 920801 809 0.0 1.8+

**1980 FW<sub>2</sub> = 1993 QA<sub>4</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	79.79697	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.17524932	$\omega$ 291.06738	+0.21313097 +0.97702323
<i>a</i>	3.1625094	$\Omega$ 351.23838	-0.89421783 +0.19470019
<i>e</i>	0.1416963	<i>i</i> 0.33494	-0.39363645 +0.08670318
<i>P</i>	5.62	<i>H</i> 13.5	<i>G</i> 0.15

Residuals in seconds of arc

800316 809 0.2+ 0.4+ 800317 809 0.1+ 0.3+ 930819 010 0.0 0.7-  
 800316 809 0.9+ 0.2+ 800317 809 0.5+ 0.2+ 930919 010 0.6+ 0.4+  
 800316 809 0.7+ 0.2- 800323 809 1.8- 0.1- 930919 010 0.2+ 0.2+  
 800316 809 0.4+ 0.4+ 930818 010 0.8- 0.1- 930920 010 0.0 0.4+  
 800317 809 0.4+ 0.0 930819 010 0.3+ 0.5- 930920 010 0.7- 1.9+  
 800317 809 0.4- 0.9+ 930819 010 0.1+ 0.4- 930920 010 0.6- 1.0+

**1981 EM<sub>3</sub> = 1993 XA<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	34.22461	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.28956110	$\omega$ 170.08739	+0.46382498 -0.88062730
<i>a</i>	2.2627813	$\Omega$ 252.22353	+0.80570584 +0.46471556
<i>e</i>	0.0718275	<i>i</i> 5.83180	+0.36838090 +0.09238508
<i>P</i>	3.40	<i>H</i> 14.9	<i>G</i> 0.15

Residuals in seconds of arc

810202 413 0.7- 1.8- 810312 413 1.4+ 0.1+ 931211 411 0.9+ 0.6-  
 810214 413 0.5- 0.0 810312 413 (4.2+ 1.7-) 931211 411 0.8- 0.5+  
 810302 413 (3.8- 0.8+) 810409 413 1.6- 0.4+ 931214 411 0.6- 0.1+  
 810307 413 0.5+ 1.1+ 810429 413 0.8+ 1.2- 931214 411 1.0+ 0.3-  
 810310 413 0.0 1.1+ 931211 411 0.2- 0.4- 931214 411 0.3- 0.8+

**1981 ET<sub>15</sub> = 1992 SN<sub>25</sub>**

Id. E. Bowell

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	81.48945	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.21681943	$\omega$ 49.13533	+0.76445423 -0.64314532
<i>a</i>	2.7441252	$\Omega$ 350.59089	+0.47886884 +0.61262805
<i>e</i>	0.0708399	<i>i</i> 15.76891	+0.43161831 +0.45940283
<i>P</i>	4.55	<i>H</i> 13.5	<i>G</i> 0.15

Residuals in seconds of arc

810212 413 0.7+ 2.2- 810406 413 0.4- 0.5+ 920930 675 0.8+ 1.4-  
 810301 413 1.4- 0.6- 810406 413 0.1- 0.2+ 920930 675 0.2- 1.0-  
 810301 413 1.3+ 1.0- 810408 413 0.5- 0.4+ 921003 675 0.0 0.1+  
 810306 413 2.1- 0.5+ 810408 413 0.3- 0.1- 921003 675 0.3+ 2.0-  
 810306 413 2.2+ 0.2- 810409 413 0.3- 0.2+ 921029 801 0.8+ 0.8+  
 810308 413 0.3+ 0.7- 810409 413 1.7+ 0.2+ 921029 801 0.2+ 1.4+  
 810308 413 1.0+ 0.0 810501 413 1.4- 0.5-  
 810312 413 0.7- 0.8+ 810503 413 2.1- 0.2-

**1981 EO<sub>16</sub> = 1994 BA**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		
<i>M</i>	109.17920	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28953242	$\omega$ 140.57296	+0.99588976	+0.03048508
<i>a</i>	2.2629307	$\Omega$ 217.94327	-0.05435647	+0.95439088
<i>e</i>	0.1968476	<i>i</i> 7.97312	+0.07244974	+0.29699952
<i>P</i>	3.40	<i>H</i> 16.5	<i>G</i> 0.15	

Residuals in seconds of arc

810209 413	0.1-	0.7-	810312 413	1.8-	0.7+	940118 595	1.3-	0.6+
810214 413	2.3+	0.4-	810312 413	0.9+	1.2-	940118 595	0.5+	0.1+
810306 413	2.1+	1.5-	810409 413	0.9-	2.0+	940119 595	0.1+	0.3+
810306 413	0.8-	0.2-	810409 413	0.6+	0.1+	940119 595	0.8+	0.7-
810308 413	0.8-	0.8+	810503 413	1.5-	0.4+			

**1981 ES<sub>21</sub> = 1992 SP<sub>25</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Bowell		
<i>M</i>	44.63606	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.22451833	$\omega$ 98.81001	-0.06946012	-0.99739518
<i>a</i>	2.6810290	$\Omega$ 355.04707	+0.80366063	-0.04439833
<i>e</i>	0.1610754	<i>i</i> 13.01640	+0.59102020	-0.05684746
<i>P</i>	4.39	<i>H</i> 13.9	<i>G</i> 0.15	

Residuals in seconds of arc

810209 413	0.1+	0.9-	810311 413	1.3+	0.5-	810411 413	2.2+	0.2-
810213 413	0.4+	0.7-	810316 413	1.2-	0.1+	810430 413	0.1+	0.5-
810302 413	1.6-	0.4+	810316 413	1.7+	0.0	810502 413	0.1+	0.4-
810302 413	0.5+	0.6+	810329 413	1.3-	0.5+	920930 675	0.2+	0.4+
810303 413	0.6-	0.1+	810329 413	1.4+	0.5+	920930 675	0.1+	0.7-
810303 413	(3.3+ 0.3+)		810407 413	0.9-	0.0	921003 675	0.4-	0.7+
810307 413	0.9-	0.7+	810408 413	2.0-	0.3+	921003 675	0.0	0.3-
810307 413	1.7+	0.5+	810408 413	0.8+	1.0-			
810311 413	1.6-	0.1+	810411 413	0.1+	0.2+			

**1981 EV<sub>22</sub>**

Id. T. Kobayashi (1994 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano		
<i>M</i>	62.43653	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.21373833	$\omega$ 220.48550	+0.87143936	-0.49037762
<i>a</i>	2.7704338	$\Omega$ 168.86395	+0.46356738	+0.81597697
<i>e</i>	0.2064695	<i>i</i> 3.29495	+0.16030823	+0.30612313
<i>P</i>	4.61	<i>H</i> 13.4	<i>G</i> 0.15	

Residuals in seconds of arc

810209 413	0.2+	0.3-	810311 413	1.7+	0.8-	940102 411	0.5+	0.6-
810213 413	0.3-	1.3-	810329 413	2.0+	0.8-	940102 411	0.1-	0.3+
810302 413	2.3-	0.6+	810329 413	0.4+	0.7+	940103 411	0.0	0.1-
810307 413	0.8-	0.8+	810411 413	2.2-	1.1+	940103 411	0.3-	0.4+
810307 413	3.0+	0.6-	810426 413	1.8+	1.9-	940103 411	0.1-	0.2+
810311 413	1.6-	0.5+	810502 413	2.0-	1.9+			

**1981 EX<sub>25</sub> = 1992 FK<sub>3</sub> = 1993 SQ<sub>4</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		
<i>M</i>	73.41558	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26976871	$\omega$ 130.11008	+0.64435514	+0.76472639
<i>a</i>	2.3721473	$\Omega$ 180.00728	-0.72149732	+0.60792659
<i>e</i>	0.1135348	<i>i</i> 4.08177	-0.25347204	+0.21358560
<i>P</i>	3.65	<i>H</i> 15.5	<i>G</i> 0.15	

Residuals in seconds of arc

810209 413	(0.3- 2.7+)	810315 413	0.7+	0.5+	920330 691	0.4-	0.8-
810212 413	0.3+ 0.9-	810405 413	0.8+	0.6+	930919 010	1.1-	0.4+
810213 413	0.3- 0.8+	810406 413	(2.4- 1.7+)		930919 010	0.0	0.2+
810302 413	(2.5- 1.9+)	810406 413	(2.3+ 0.1-)		930920 010	1.7+	0.3+
810306 413	(10.3- 4.2+)	810410 413	0.8+	0.6+	930920 010	0.2+	1.0+
810311 413	0.7- 0.5+	810410 413	0.7+	0.1+	930920 010	1.1-	0.8-
810311 413	0.6+ 0.2+	920330 691	0.0	0.9-			
810315 413	1.5- 1.5+	920330 691	0.6-	0.9-			

**1982 HJ = 1965 JA**

Id. E. Bowell (1949, 1953, 1993 observations), G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Bowell		
<i>M</i>	135.85701	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29036180	$\omega$ 202.74539	-0.15192683	+0.98168860
<i>a</i>	2.2586195	$\Omega$ 58.68997	-0.88488948	-0.08329856
<i>e</i>	0.1801504	<i>i</i> 7.72996	-0.44032810	-0.17131503
<i>P</i>	3.39	<i>H</i> 13.5	<i>G</i> 0.15	

Residuals in seconds of arc

491123 675	1.3+	0.1+	650504 760	0.7+	0.2-	820520 688	0.3-	1.8-
491123 675	0.4+	0.1-	650504 760	0.3-	0.3-	820520 688	0.1-	1.5-
531207 675	0.4-	0.6-	820418 688	0.2-	0.1-	931013 675	0.1+	0.8-
531207 675	0.2+	0.6-	820418 688	0.1-	0.1-	931013 675	0.4+	1.4-
650502 760	1.3-	1.6+	820426 688	0.9-	0.7-	931015 675	0.1+	1.3-
650502 760	0.5-	0.3+	820426 688	1.0+	0.8-			

**1982 QD = 1992 QD<sub>1</sub>**

Id. G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Bowell		
<i>M</i>	136.02544	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.29829497	$\omega$ 95.82855	+0.86775584	-0.49261316
<i>a</i>	2.2183944	$\Omega$ 293.69977	+0.42279075	+0.80131283
<i>e</i>	0.2372276	<i>i</i> 4.12201	+0.26124276	+0.33945548
<i>P</i>	3.30	<i>H</i> 14.0	<i>G</i> 0.15	

Residuals in seconds of arc

820815 095	(1.3+ 6.1+)	820822 046	(1.2- 2.5-)	920827 675	0.5-	0.9+	
820818 046	0.4- 0.7-	820822 046	1.7+	1.0-	920929 675	1.5- 0.0	
820818 046	1.1+ 0.6+	820911 095	(1.4- 4.1+)	920929 675	0.2+	0.9+	
820819 675	1.7- 0.2+	820916 095	1.0- 1.2+	920930 675	0.1+	0.6-	
820819 675	1.1- 0.8+	920826 675	0.8+	0.6-	920930 675	0.4+	1.1-
820821 046	0.8+ 0.2-	920826 675	0.7+	0.7-	921003 675	1.2+	0.1+
820821 046	0.7+ 1.0-	920827 675	1.5-	1.4+			

**1982 UE<sub>6</sub> = 1993 TN<sub>21</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Bowell

<i>M</i>	346.91832		(2000.0)		<b>P</b>		<b>Q</b>
<i>n</i>	0.26601272	<i>ω</i>	61.48490	+0.09264207			-0.99558601
<i>a</i>	2.3944243	<i>Ω</i>	23.21397	+0.89969013			+0.07723199
<i>e</i>	0.1696315	<i>i</i>	2.18546	+0.42658541			+0.05332646
<i>P</i>	3.71	<i>H</i>	14.1	<i>G</i>	0.15		

Residuals in seconds of arc

821020	095	0.1-	0.3-	821114	095	0.2-	0.7-	931013	675	0.2+	0.2+
821025	095	0.2+	0.2+	931010	675	0.3-	0.0	931013	675	0.3+	0.3+
821109	095	0.1+	0.8+	931010	675	0.1-	0.5-				

**1984 DR = 1969 VX<sub>1</sub> = 1994 AN<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Nakano

<i>M</i>	44.15780		(2000.0)		<b>P</b>		<b>Q</b>
<i>n</i>	0.29154813	<i>ω</i>	290.93346	+0.29834593			-0.95239081
<i>a</i>	2.2524883	<i>Ω</i>	141.53010	+0.90891044			+0.26341653
<i>e</i>	0.1374201	<i>i</i>	5.79200	+0.29132717			+0.15350400
<i>P</i>	3.38	<i>H</i>	14.0	<i>G</i>	0.15		

Residuals in seconds of arc

691115	095	0.1+	0.2-	840229	809	0.5+	0.7-	840306	809	0.2-	0.4+
840223	809	0.0	0.3-	840301	809	0.8+	0.1-	840306	809	0.3-	0.2+
840223	809	0.1+	0.1+	840301	809	0.9+	0.0	840307	809	1.0+	0.2+
840223	809	0.1+	0.2-	840301	809	0.6+	0.1+	840307	809	0.9+	0.2+
840225	809	0.0	0.4+	840302	809	2.0-	1.0+	840307	809	0.7+	0.0
840225	809	0.3+	0.2-	840302	809	1.7-	1.1+	840308	809	1.0-	0.6+
840225	809	0.2+	0.6-	840302	809	1.5-	1.2+	840308	809	1.0-	0.4+
840226	809	1.0-	0.5-	840303	809	0.3+	0.2-	840308	809	1.3-	0.8+
840226	809	0.7-	0.2-	840303	809	0.5+	0.2-	840311	809	0.8+	0.4-
840226	809	0.5-	0.2-	840303	809	0.8+	0.4-	840311	809	0.8+	0.2-
840226	095	1.7+	1.4-	840304	809	0.2+	0.1+	840311	809	0.8+	0.1+
840227	809	0.2-	0.8-	840304	809	0.1-	0.0	940108	402	0.2-	0.5-
840227	809	0.3-	0.7-	840304	809	0.2+	0.3+	940108	402	0.2+	0.8-
840227	809	0.4-	0.4-	840305	809	0.6-	0.2+	940109	402	0.3+	0.8+
840228	809	0.2+	0.1-	840305	809	0.0	0.5+	940109	402	0.2-	1.2+
840229	809	0.2+	0.6-	840305	809	0.3+	0.0				
840229	809	0.5+	0.5-	840306	809	0.8-	0.6+				

**1986 QE<sub>2</sub> = 1992 HW<sub>6</sub> = 1993 TP<sub>13</sub>**

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

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	63.43456		(2000.0)		<b>P</b>		<b>Q</b>
<i>n</i>	0.29237320	<i>ω</i>	232.52648	+0.98289693			+0.17390302
<i>a</i>	2.2482486	<i>Ω</i>	117.38542	-0.13994656			+0.91921316
<i>e</i>	0.1425172	<i>i</i>	3.91286	-0.11970205			+0.35327738
<i>P</i>	3.37	<i>H</i>	14.5	<i>G</i>	0.15		

Residuals in seconds of arc

860828	809	0.9-	1.0-	860905	809	0.3-	0.2-	860910	809	0.5+	0.1-
860828	809	0.6-	0.7-	860905	809	0.1+	0.3-	860912	809	0.5+	0.5+
860828	809	0.3-	0.5-	860906	809	0.3+	0.2-	860912	809	0.3+	0.5+
860901	809	0.2+	0.2-	860906	809	0.3+	0.2-	860912	809	0.2+	0.5+
860901	809	0.2+	0.4-	860906	809	0.2+	0.2-	920427	691	0.4+	0.3+
860901	809	0.3+	0.4-	860908	809	0.1-	0.9+	920427	691	0.3-	0.1+

860903	809	0.6-	0.1+	860908	809	0.2-	0.7+	920427	691	0.0	0.1-
860903	809	0.2-	0.2+	860908	809	0.4-	0.5+	931014	675	0.6+	1.2-
860903	809	0.0	0.2+	860910	809	0.4+	0.6+	931014	675	0.4-	0.4+
860905	809	0.3-	0.1-	860910	809	0.5+	0.1+	931015	675	0.2-	0.7+

**1986 RY<sub>4</sub> = 1993 TF<sub>13</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Bowell

<i>M</i>	66.09102		(2000.0)		<b>P</b>		<b>Q</b>
<i>n</i>	0.28994205	<i>ω</i>	338.48684	+0.92013375			+0.39159885
<i>a</i>	2.2607988	<i>Ω</i>	358.45460	-0.34726376			+0.81351322
<i>e</i>	0.1865502	<i>i</i>	4.36844	-0.18100211			+0.42993787
<i>P</i>	3.40	<i>H</i>	14.4	<i>G</i>	0.15		

Residuals in seconds of arc

860901	809	0.7-	0.6+	860904	809	0.0	0.6-	860906	809	1.0+	0.3-
860901	809	0.5-	0.6+	860904	809	0.1+	0.7-	860908	809	0.0	0.2-
860901	809	0.2-	0.7+	860904	809	0.2-	0.4-	860908	809	0.2+	0.2-
860902	809	0.1-	0.2+	860904	809	0.2-	0.4-	860908	809	0.2+	0.1-
860902	809	0.1+	0.2+	860904	809	0.1-	0.6-	860910	809	0.0	0.2-
860902	809	0.1+	0.3+	860905	809	0.3-	0.1+	860910	809	0.1-	0.0
860902	809	0.6-	0.0	860905	809	0.0	0.2+	860910	809	0.3-	0.0
860902	809	0.5-	0.0	860905	809	0.1+	0.0	860912	809	0.1-	0.1-
860902	809	0.3-	0.1+	860906	809	0.3+	0.2+	860912	809	0.0	0.0
860903	809	0.4-	0.3+	860906	809	0.6+	0.1-	860912	809	0.1-	0.2-
860903	809	0.1-	0.4+	860906	809	0.8+	0.0	931013	675	0.2-	0.6+
860903	809	0.1+	0.5+	860906	809	0.7+	0.2+	931013	675	0.1+	0.7-
860904	809	0.2-	0.5-	860906	809	0.8+	0.1-	931015	675	0.0	0.3+

**1986 TC = 1993 SK<sub>5</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	45.29740		(2000.0)		<b>P</b>		<b>Q</b>
<i>n</i>	0.27891185	<i>ω</i>	358.10302	+0.97810125			+0.20741056
<i>a</i>	2.3200183	<i>Ω</i>	349.87645	-0.18963692			+0.85389211
<i>e</i>	0.1531132	<i>i</i>	5.64369	-0.08576581			+0.47733544
<i>P</i>	3.53	<i>H</i>	14.0	<i>G</i>	0.15		

Residuals in seconds of arc

860930	552	0.1+	0.6+	861004	552	1.1-	0.3+	861024	552	(4.1-	1.0-)
861001	552	1.2+	0.3+	861005	095	0.5+	0.8-	861030	552	0.1+	0.3+
861001	552	0.0	0.2-	861010	552	0.2+	2.0+	861030	552	(2.2+	0.6-)
861002	552	0.8+	0.1+	861010	552	0.8-	0.6+	930919	010	0.4+	0.3+
861002	552	0.1+	1.6-	861011	552	0.7+	1.0-	930919	010	0.5+	0.3+
861003	552	0.2-	0.6+	861011	552	0.5-	1.7-	930920	010	0.5+	0.2-
861003	552	0.2+	0.7+	861024	552	(3.8-	0.2-)	930920	010	0.6-	0.3-
861004	552	1.3-	0.2-	861024	552	(4.7-	0.3-)	930920	010	0.8-	0.0

**1987 BO<sub>1</sub> = 1968 YB = 1994 AU<sub>2</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	19.05959		(2000.0)		<b>P</b>		<b>Q</b>
<i>n</i>	0.27553046	<i>ω</i>	152.17874	+0.30907086			-0.86607172
<i>a</i>	2.3389610	<i>Ω</i>	277.51951	+0.78231756			+0.46646095
<i>e</i>	0.2296483	<i>i</i>	23.34955	+0.54079057			-0.17981648
<i>P</i>	3.58	<i>H</i>	13.0	<i>G</i>	0.15		

Residuals in seconds of arc

681222	095	0.6+	2.2+	870127	809	0.6-	0.1-	870130	809	0.9+	0.2+
870122	809	0.3-	0.7-	870127	809	0.0	0.4+	870201	809	0.2-	1.4-



870122 809 0.3-	0.8-	870127 809 0.4-	1.4+	870203 809 1.4+	0.6+
870122 809 0.1+	1.1-	870128 809 0.6-	0.9+	870203 809 1.3+	0.8+
870123 809 0.3-	0.1+	870128 809 0.4-	1.5+	870205 809 0.6-	1.7-
870123 809 0.3+	0.2+	870128 809 0.9-	2.4+	870206 809 0.1-	3.2-
870125 809 0.3+	1.6-	870128 809 0.9-	1.9+	870206 809 0.2-	2.6-
870125 809 0.3+	1.5-	870128 809 0.3-	1.6+	940112 675 0.7+	0.3+
870126 809 0.3+	1.1+	870129 809 0.3+	0.0	940112 675 0.2+	0.7-
870126 809 0.1+	1.2+	870129 809 0.3-	0.7+	940113 675 1.0-	1.5-
870126 809 0.7+	1.4+	870130 809 0.4+	1.2-	940113 675 0.1-	1.7-

**1987 QN = 1993 BO<sub>7</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Marsden

<i>M</i>	154.39655	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.08070895	$\omega$ 219.03973	+0.97238192	-0.14016206
<i>a</i>	5.3029995	$\Omega$ 147.51590	+0.16143078	+0.98138261
<i>e</i>	0.0581361	<i>i</i> 20.33361	-0.16856308	+0.13131171
<i>P</i>	12.21	<i>H</i> 10.0	<i>G</i> 0.15	

Residuals in seconds of arc

870821 809 1.5-	1.9+	870828 809 0.7+	0.3-	930123 809 0.3+	0.5+
870821 809 1.3-	1.7+	870828 809 1.5+	0.6-	930123 809 0.2-	0.0
870821 809 (0.3-	3.6+)	870828 809 1.4+	0.4-	930123 809 1.1-	1.0-
870825 809 1.3-	1.2-	870831 809 0.0	0.2+	930128 809 0.5+	0.3-
870825 809 0.1-	0.7-	870831 809 1.4+	0.5+	930128 809 0.2+	0.2-
870825 809 1.4-	0.6+	870831 809 (2.6+	1.1+)	930128 809 0.7-	0.4-
870826 809 0.2+	0.4-	870831 809 1.3-	1.1-	930217 809 0.8+	0.6+
870826 809 1.2+	0.5+	870831 809 0.3-	0.8-	930217 809 1.0-	0.4+
870826 809 0.5+	0.3+	870831 809 0.4+	0.2+	930217 809 1.2+	0.9+

**1987 SH<sub>7</sub> = 1994 AS<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Nakano

<i>M</i>	145.29726	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.36490981	$\omega$ 53.92192	+0.91997305	+0.25081952
<i>a</i>	1.9394520	$\Omega$ 289.81865	-0.37305841	+0.79613779
<i>e</i>	0.0790772	<i>i</i> 18.67468	+0.12032047	+0.55068520
<i>P</i>	2.70	<i>H</i> 13.9	<i>G</i> 0.15	

Residuals in seconds of arc

870926 675 0.8+	0.1-	871122 675 0.1-	1.7-	940108 402 0.2-	0.4-
871018 675 0.8-	1.0+	871123 675 0.5+	0.4-	940109 402 0.9-	0.8-
871020 675 0.6-	0.8+	940108 402 1.1+	0.7+	940109 402 0.2+	0.8+

**1987 SP<sub>15</sub> = 1948 QD = 1976 SC<sub>5</sub> = 1989 BK<sub>1</sub> = 1992 PU<sub>4</sub> = 1994 AZ**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	81.45698	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.18003906	$\omega$ 322.04045	+0.99419822	+0.10720142
<i>a</i>	3.1061677	$\Omega$ 31.80888	-0.09414178	+0.90686804
<i>e</i>	0.1753951	<i>i</i> 0.95854	-0.05203094	+0.40755149
<i>P</i>	5.47	<i>H</i> 11.5	<i>G</i> 0.15	

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

480825 078(0.03+	0.00-)	X 890129 046 0.7+	2.5-	920806 675 1.0+	2.0-
760924 095 1.1-	1.3+	890129 046 1.3+	2.3-	940103 399 0.1-	0.4+
870924 095 0.1+	1.7-	890130 046 (2.9-	7.0-)	940103 399 0.6-	2.1+
870925 095 (4.5-	0.4-)	890130 046 0.2-	2.4-	940105 399 0.2-	0.4+
871003 095 1.5+	1.0+	920802 675 0.7+	1.4-	940105 399 0.6-	1.1+

890128 046 0.3-	0.6-	920802 675 0.2+	0.7-
890128 046 2.7-	1.6-	920806 675 0.1+	1.5-

**1988 CK<sub>4</sub> = 1989 NW**Id. C. M. Bardwell (*MPC* 14951)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Bowell

<i>M</i>	22.68908	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.22375586	$\omega$ 345.03761	+0.11797100	+0.97387998
<i>a</i>	2.6871162	$\Omega$ 291.43297	-0.88833128	+0.01618453
<i>e</i>	0.1537498	<i>i</i> 12.03010	-0.44379092	+0.22648587
<i>P</i>	4.40	<i>H</i> 13.0	<i>G</i> 0.15	

Residuals in seconds of arc

540704 675 0.7+	0.5-	880221 809 0.7-	0.1+	880223 413 1.4+	1.4+
540704 675 0.2-	0.4-	880221 809 1.1-	0.9+	880225 413 0.3-	0.8+
880213 809 (0.5-	3.3-)	880221 809 1.3-	0.0	880225 413 1.4+	0.2+
880215 809 0.0	0.7-	880223 809 0.6+	0.6+	890701 675 0.1+	1.4+
880216 809 0.5-	1.2-	880223 809 0.2+	0.2-	890701 675 0.4+	0.3+
880216 809 0.1-	1.4-	880223 809 0.5-	0.1+	890704 675 0.1-	0.0
880216 809 0.3-	1.3-	880223 413 0.7+	0.1-	890704 675 0.6-	1.4-

**1988 FW<sub>2</sub> = 1993 SJ<sub>3</sub>**

Id. G. V. Williams, L. D. Schmadel

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	280.18707	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.27689947	$\omega$ 288.16034	-0.63784346	-0.76916452
<i>a</i>	2.3312453	$\Omega$ 201.61933	+0.74075857	-0.59873740
<i>e</i>	0.0653835	<i>i</i> 6.11758	+0.21079011	-0.22338190
<i>P</i>	3.56	<i>H</i> 14.0	<i>G</i> 0.15	

Residuals in seconds of arc

880317 809 2.9-	1.4+	880324 809 1.0+	0.5-	930917 809 1.7+	1.0+
880317 809 1.5-	0.5+	880324 809 2.4+	0.8-	930920 033 0.5-	1.4-
880318 809 0.8-	0.3-	930915 809 0.5+	1.1+	930922 033 0.3-	0.6-
880318 809 1.4-	0.6+	930915 809 2.1-	0.1-	930922 033 0.9+	1.4-
880323 809 0.3+	0.8+	930915 809 2.2-	0.4+	931017 033 0.4-	0.4-
880323 809 1.6+	0.4-	930917 809 1.8+	0.7+	931017 033 0.2-	0.5+
880323 809 1.4+	0.8-	930917 809 0.7+	0.6+		

**1988 LC = 1958 GO = 1992 JG<sub>4</sub> = 1993 SO<sub>5</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	157.75612	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.23304993	$\omega$ 50.78254	-0.83340933	+0.54812101
<i>a</i>	2.6151909	$\Omega$ 162.09986	-0.55084537	-0.81352079
<i>e</i>	0.1803993	<i>i</i> 13.29004	-0.04470204	-0.19428660
<i>P</i>	4.23	<i>H</i> 13.0	<i>G</i> 0.15	

Residuals in seconds of arc

580412 760 0.8-	1.5+	920504 691 0.1+	0.3-	930919 010 0.6+	1.5+
580412 760 1.7+	3.7+	920504 691 0.0	0.2-	930919 010 1.6+	2.1+
880615 675 1.0+	1.3-	920504 691 0.1+	0.0	930920 010 0.8-	1.4+
880617 675 1.0-	0.1-	930819 010 1.1+	0.9+	930920 010 1.0-	0.9+
880714 675 (3.5-	0.9-)	930819 010 0.6+	0.5-	930920 010 2.6-	0.7-
880714 675 0.8-	0.3+	930819 010 0.2-	0.2-		

**1988 PX<sub>1</sub> = 1992 YH<sub>5</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	192.68702	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.27395937	$\omega$ 177.93474	+0.92565042	+0.37599576
<i>a</i>	2.3478947	$\Omega$ 159.81763	-0.34889498	+0.89151795
<i>e</i>	0.1307068	<i>i</i> 7.06065	-0.14643631	+0.25263199
<i>P</i>	3.60	<i>H</i> 13.0	<i>G</i> 0.15	

Residuals in seconds of arc

880813 511	0.6+	0.2+	880911 675	0.4+	0.6+	881009 675	0.2-	1.5+
880813 511	0.6+	0.2+	880912 675	0.4+	0.4-	881009 675	0.4-	1.2+
880815 511	1.3-	0.5+	880912 675	0.2+	0.9-	921218 303	0.6-	0.8-
880815 511	1.6-	0.6+	880915 095	0.4-	1.7-	921218 303	0.4+	0.6-
880910 675	0.4+	0.7-	880915 095	1.1+	0.5-	921218 303	0.8+	0.0
880910 675	0.1+	0.5-	881007 675	0.8-	0.2-	921219 303	0.6-	1.2+
880911 675	0.9+	0.5+	881007 675	0.3-	0.2+			

**1988 QP = 1972 TY<sub>5</sub> = 1986 GP<sub>2</sub> = 1991 BX<sub>1</sub> = 1993 OF<sub>5</sub>**

Id. K. Ichikawa; 1988 QP = 1984 YY<sub>3</sub> (MPC 13859) is invalid

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Ichikawa

<i>M</i>	196.82721	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.17929128	$\omega$ 204.13214	-0.74209823	-0.65798673
<i>a</i>	3.1147983	$\Omega$ 294.09367	+0.63550738	-0.63003037
<i>e</i>	0.0410400	<i>i</i> 8.05034	+0.21312107	-0.41245023
<i>P</i>	5.50	<i>H</i> 12.3	<i>G</i> 0.15	

Residuals in seconds of arc

721006 095	1.5+	0.2-	880819 413	0.3+	0.4-	930713 809	0.9+	0.3+
860404 095	2.7-	2.1-	880820 413	0.5-	0.4-	930713 809	0.4+	0.2+
880810 413	0.6+	1.1-	910121 511	0.8+	2.2-	930720 809	0.6+	0.2+
880810 413	0.1+	1.5-	910122 511	0.7-	1.2+	930720 809	0.3-	0.4+
880811 413	2.9-	1.4-	910122 511	0.2+	1.0-	930720 809	0.5-	0.2+
880811 413	0.7+	0.9-	930713 809	1.2+	0.4+	930724 809	0.1+	0.1-

**1989 AB<sub>3</sub> = 1989 CD<sub>1</sub> = 1994 AK**

Id. S. Nakano (d, MPC 22572)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	49.96563	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.18854378	$\omega$ 299.29540	+0.58548929	-0.79118212
<i>a</i>	3.0120435	$\Omega$ 113.79776	+0.79455589	+0.51677911
<i>e</i>	0.1054780	<i>i</i> 11.13677	+0.16088267	+0.32706301
<i>P</i>	5.23	<i>H</i> 12.1	<i>G</i> 0.15	

Residuals in seconds of arc

890104 413	2.0-	2.1+	890206 675	0.5-	0.2+	940103 411	0.5+	0.2+
890104 413	1.1+	0.4-	940102 411	0.0	1.3-	940103 411	0.4+	0.8+
890110 413	0.1+	0.3-	940102 411	1.2-	0.2-			
890110 413	1.4+	1.6-	940103 411	0.3+	0.6+			

**1989 CQ<sub>2</sub> = 1993 RW<sub>7</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	336.86676	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.14636413	$\omega$ 229.26098	+0.51565303	-0.85619696
<i>a</i>	3.5659858	$\Omega$ 189.85146	+0.83171874	+0.50919965
<i>e</i>	0.0889176	<i>i</i> 10.80471	+0.20578117	+0.08742133
<i>P</i>	6.73	<i>H</i> 13.0	<i>G</i> 0.15	

Residuals in seconds of arc

890204 809	1.3-	0.4-	890302 809	0.5+	0.2-	930915 809	0.4-	0.2+
890204 809	0.7-	0.3-	890302 809	0.5-	0.3+	930915 809	0.5-	0.1+
890204 809	0.8-	1.0-	890302 809	0.8-	0.0	930915 809	0.2-	0.7+
890207 809	1.2+	1.1+	890303 809	0.2+	0.4+	930917 809	0.3+	0.6-
890207 809	1.0+	0.2+	890303 809	0.8+	0.1-	930917 809	0.5+	0.5-
890207 809	0.4+	0.4+	890303 809	0.0	0.2-	930917 809	0.3+	0.2+

**1989 NK<sub>1</sub> = 1955 RG<sub>1</sub> = 1991 FW<sub>4</sub>**

Id. T. Kobayashi (1994 observations), S. Nakano

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	63.02661	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.28804330	$\omega$ 267.46900	+0.87571317	-0.46466438
<i>a</i>	2.2707232	$\Omega$ 120.19089	+0.48089405	+0.81506136
<i>e</i>	0.3022699	<i>i</i> 8.73065	+0.04321296	+0.34606645
<i>P</i>	3.42	<i>H</i> 12.7	<i>G</i> 0.15	

Residuals in seconds of arc

550912 076	0.2-	0.6+	890802 675	0.8+	0.5-	940104 411	0.2-	0.5-
890706 675	1.2+	1.3-	890802 675	0.3-	0.4-	940106 411	0.2+	0.2-
890706 675	0.8-	0.6+	910318 400	(2.7-	4.5+)	940106 411	0.2+	0.2-
890710 675	0.5-	0.3-	910318 400	0.1+	0.8+			
890710 675	0.4-	0.3+	940104 411	0.2-	0.6-			

**1989 RG = 1979 VK<sub>1</sub> = 1994 AZ<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	58.15546	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.28698990	$\omega$ 99.62278	+0.59940853	-0.79890847
<i>a</i>	2.2762763	$\Omega$ 313.43017	+0.70503898	+0.55625913
<i>e</i>	0.1652131	<i>i</i> 3.91194	+0.37898475	+0.22873791
<i>P</i>	3.43	<i>H</i> 13.9	<i>G</i> 0.15	

Residuals in seconds of arc

791114 095	0.0	0.2-	890904 511	0.4+	0.8-	940107 408	0.4-	1.9+
890902 511	0.9+	1.3-	890908 511	1.8-	1.9+	940107 408	0.3-	0.0
890902 511	0.4+	0.4-	890908 511	1.3-	2.5+	940108 408	1.1+	0.3-
890902 511	0.7+	0.4-	891002 071	1.0+	0.9-	940108 408	0.3-	1.4-
890904 511	0.1+	0.5-	891002 071	0.5-	0.1+			

**1989 SQ = 1978 RF<sub>4</sub> = 1994 AL**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	47.85294	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.27093350	$\omega$ 106.62732	+0.65488835	-0.75312536
<i>a</i>	2.3653437	$\Omega$ 302.29246	+0.66205593	+0.61171081
<i>e</i>	0.2315772	<i>i</i> 4.24940	+0.36442173	+0.24209933
<i>P</i>	3.64	<i>H</i> 13.5	<i>G</i> 0.15	

Residuals in seconds of arc

780905 095	0.5+	0.9-	891008 403	1.3-	0.5+	Y 940102 896	0.7-	0.4+
890929 403	1.4+	1.9-	891008 403	1.4+	0.3+	940103 896	0.3+	0.9-
890929 403	0.6-	1.0+	891017 403	0.5-	0.6+	940103 896	0.3-	0.0
891007 403	0.7-	0.2+	891017 403	0.1-	0.1+			
891007 403	0.1-	0.0	940102 896	0.6+	0.1-			

**1989 TU<sub>10</sub> = 1978 TO<sub>3</sub> = 1993 XP<sub>2</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	44.93598	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.26873601	$\omega$ 230.15151	+0.64017007	-0.76823321
<i>a</i>	2.3782206	$\Omega$ 180.04424	+0.73341572	+0.61118851
<i>e</i>	0.2493575	<i>i</i> 6.12737	+0.22865622	+0.19043721
<i>P</i>	3.67	<i>H</i> 14.0	<i>G</i> 0.15	

Residuals in seconds of arc

781004 095	0.3-	1.0+	891004 403	(4.0-	0.3-)Y	891008 809	0.2+	0.7+
891001 807	0.1+	0.2-	891004 403	(3.9-	1.4-)Y	891008 809	0.6+	0.7+
891003 807	0.1-	0.2-	891007 809	0.3-	0.4+	931214 675	0.1+	0.0
891004 809	0.6-	1.2-	891007 809	0.3+	0.2+	931214 675	0.0	0.2-
891004 809	0.3-	1.1-	891007 809	0.7+	0.3+	931216 675	0.2+	0.1+
891004 809	0.1-	1.1-	891008 809	0.2-	0.5+	931216 675	0.3-	0.0

**1989 VN<sub>5</sub> = 1989 VL<sub>6</sub> = 1993 XU**

Id. G. V. Williams (d, MPC 18600), K. Ichikawa

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Ichikawa

<i>M</i>	27.17171	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.26600826	$\omega$ 127.94585	+0.21395207	-0.97660512
<i>a</i>	2.3944511	$\Omega$ 309.68606	+0.88719840	+0.20352720
<i>e</i>	0.1800963	<i>i</i> 1.60908	+0.40878296	+0.06941992
<i>P</i>	3.71	<i>H</i> 14.2	<i>G</i> 0.15	

Residuals in seconds of arc

891102 877	0.3+	1.9+	931211 411	0.2-	1.7+	931212 411	0.3+	1.7+
891102 877	0.5-	0.7+	931211 411	1.3+	0.5+	931212 411	1.2-	0.5+
891103 675	1.2-	0.2-	931212 411	0.7-	0.9+	931214 411	0.0	0.4-
891103 675	0.5+	0.8-	931212 411	0.2+	1.1-	931214 411	0.1-	0.6-
891104 675	0.3+	0.1+	931212 411	0.3+	1.5-	931214 411	0.0	0.8-
891104 675	0.6+	1.7-	931212 411	0.2+	0.8-			

**1989 WS = 1993 TZ<sub>12</sub>**

Id. E. Bowell

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Nakano

<i>M</i>	18.23250	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.23943360	$\omega$ 159.04450	+0.79744146	-0.58953111
<i>a</i>	2.5684985	$\Omega$ 237.73364	+0.52971364	+0.78604341
<i>e</i>	0.1926641	<i>i</i> 8.74841	+0.28894736	+0.18598071
<i>P</i>	4.12	<i>H</i> 13.1	<i>G</i> 0.15	

Residuals in seconds of arc

891029 400	1.3-	0.1-	891120 399	0.6-	0.9+	891201 399	0.6-	0.9+
891029 400	0.4+	0.4-	891125 399	1.7-	0.5-	931008 400	0.8+	2.2+
891118 046	2.6+	1.5+	891125 399	0.1-	2.6-	931008 400	0.6-	0.5-
891118 046	(3.8+	0.4+)	891125 399	0.8-	0.9+	931013 675	0.2+	0.6-
891120 399	1.9+	0.9-	891201 399	1.2+	0.7+	931013 675	0.0	0.3+
891120 399	0.8-	0.6+	891201 399	0.2-	1.0-	931015 675	0.3-	1.4-

**1990 BB<sub>2</sub> = 1973 AK = 1994 AV<sub>2</sub>**

Id. G. V. Williams, K. Watanabe, S. Nakano

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	352.16607	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.23594329	$\omega$ 189.07229	-0.69790189	-0.69871491
<i>a</i>	2.5937670	$\Omega$ 305.38007	+0.66859948	-0.55691456
<i>e</i>	0.1069077	<i>i</i> 11.12079	+0.25672491	-0.44904749
<i>P</i>	4.18	<i>H</i> 13.0	<i>G</i> 0.15	

Residuals in seconds of arc

730101 095	0.1-	0.6-	900218 399	2.5+	0.2+	940105 400	1.0-	0.2-
900130 399	1.2+	0.5-	900218 399	1.1-	1.2-	940110 400	1.2+	0.1-
900130 399	0.2+	0.3+	900228 399	0.4-	1.3+	940110 400	1.4+	1.8+
900201 399	1.8-	0.2-	900228 399	0.2-	0.2-			
900201 399	0.7-	0.2-	940105 400	1.3-	0.5-			

**1990 TO<sub>1</sub> = 1993 XT<sub>1</sub>**

Id. G. V. Williams, E. F. Helin (1992 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	71.90545	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.36141820	$\omega$ 155.64456	+0.87520411	-0.40618023
<i>a</i>	1.9519231	$\Omega$ 230.96405	+0.36949224	+0.91185619
<i>e</i>	0.0861880	<i>i</i> 19.77106	+0.31223909	+0.05946346
<i>P</i>	2.73	<i>H</i> 13.5	<i>G</i> 0.15	

Residuals in seconds of arc

901014 675	1.4+	0.8+	901118 675	0.4+	0.7+	920502 675	0.7+	1.5+
901014 675	0.0	0.6+	901118 675	1.2+	0.5+	931214 675	0.1-	0.1+
901017 675	2.0-	0.1+	901119 675	1.3+	2.0+	931214 675	0.7-	0.6+
901017 675	(3.4-	1.2-)	901215 801	0.5-	0.6-	931216 675	0.7+	0.8-
901021 675	1.0-	1.4-	901215 801	0.6-	0.6-	931216 675	(0.2+	3.4-)
901023 675	0.0	2.0-	920502 675	0.6-	1.3-			

**1990 TG<sub>11</sub> = 1993 OM<sub>12</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	78.84456	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.28131819	$\omega$ 352.56790	+0.00854996	+0.99904066
<i>a</i>	2.3067694	$\Omega$ 277.91508	-0.91520296	-0.00948769
<i>e</i>	0.0814374	<i>i</i> 2.48527	-0.40290251	+0.04275209
<i>P</i>	3.50	<i>H</i> 15.0	<i>G</i> 0.15	

Residuals in seconds of arc

901011 033	0.6-	0.3-	930712 809	0.3+	0.1-	930723 809	1.1+	1.3-
901012 033	1.0-	0.0	930719 809	0.5-	0.2-	930723 809	0.3+	1.7-
901012 033	0.1+	0.3-	930719 809	0.1-	0.3-	930723 809	0.5+	1.2-
901013 033	1.1+	0.0	930719 809	0.6-	0.2-	930726 809	0.2+	0.7+
901014 033	0.4+	0.5+	930719 809	0.7-	0.3+	930726 809	0.2-	1.1+
930712 809	0.4+	0.2-	930719 809	0.9-	0.9+	930726 809	0.2-	1.2+
930712 809	0.6+	0.3+	930719 809	0.2-	0.8+			

**1990 UH<sub>1</sub>**

Id. R. H. McNaught (1993 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	329.67948	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.27132440	$\omega$ 306.65605	+0.77743328	-0.60670077
<i>a</i>	2.3630712	$\Omega$ 91.29388	+0.61693914	+0.68425104
<i>e</i>	0.2456908	<i>i</i> 9.55003	+0.12240750	+0.40461672
<i>P</i>	3.63	<i>H</i> 14.0	<i>G</i> 0.15	

## Residuals in seconds of arc

900928 413	0.1-	0.7+	901111 809	0.2+	0.7-	901117 809	0.7-	0.3+
901020 413	1.3-	0.2+	901115 809	0.5+	0.2-	901117 809	0.1-	0.2+
901020 413	0.2+	0.4+	901115 809	0.8+	0.2+	901123 413	0.1-	0.2-
901027 413	0.4-	0.5+	901115 809	1.1+	0.2-	901217 413	1.2+	0.5-
901028 413	0.5+	0.2+	901115 675	0.4-	0.4+	930731 413	0.7-	0.7-
901111 809	0.1-	0.9-	901116 675	0.5-	0.3+	930731 413	0.5+	0.2-
901111 809	0.1-	0.8-	901117 809	0.2-	0.1+	930926 413	0.0	0.2-

**1991 DD = 1993 TR<sub>18</sub>**

Id. G. V. Williams, E. Bowell

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Williams			
<i>M</i>	299.09351	(2000.0)	<b>P</b>	<b>Q</b>		
<i>n</i>	0.25908899	$\omega$ 92.66202	-0.61910799	-0.78490162		
<i>a</i>	2.4368946	$\Omega$ 35.62874	+0.70222783	-0.56768861		
<i>e</i>	0.1309367	<i>i</i> 2.47878	+0.35154142	-0.24831249		
<i>P</i>	3.80	<i>H</i> 13.5	<i>G</i> 0.15			

## Residuals in seconds of arc

910208 881	1.4+	1.5-	910309 887	0.3+	1.5+	931011 809	1.5+	1.1+
910217 385	1.9-	1.7+	910309 887	1.2+	0.7+	931011 809	0.9+	0.3+
910217 385	1.4-	0.2-	931009 809	0.6+	0.8+	931011 809	1.2+	0.8+
910219 385	1.5-	0.6-	931009 809	0.3+	1.3+	931013 675	0.8-	1.4-
910219 385	1.8+	0.5-	931009 809	0.8+	1.6+	931013 675	1.2-	0.6-
910220 385	0.7-	1.0+	931010 675	1.8-	2.2-			
910220 385	1.0+	1.8-	931010 675	1.7-	1.3-			

**1991 DY = 1993 RD<sub>6</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Williams			
<i>M</i>	232.80976	(2000.0)	<b>P</b>	<b>Q</b>		
<i>n</i>	0.22588849	$\omega$ 340.87612	-0.98410342	-0.17654048		
<i>a</i>	2.6701766	$\Omega$ 189.02138	+0.17473995	-0.94306909		
<i>e</i>	0.1417257	<i>i</i> 7.08380	+0.03172401	-0.28187611		
<i>P</i>	4.36	<i>H</i> 13.0	<i>G</i> 0.15			

## Residuals in seconds of arc

910208 675	0.5-	0.7-	910318 675	0.8-	0.5-	930917 809	0.3-	0.7-
910208 675	(3.7+	4.0+)	910318 675	1.2+	0.4-	930917 809	1.7-	1.8-
910219 675	0.3-	0.8+	930915 809	2.0+	1.0+	930917 809	1.5-	0.1+
910219 675	1.3+	0.3+	930915 809	1.3+	1.2+			
910220 675	0.9-	0.2+	930915 809	0.4+	0.1+			

**1991 DJ<sub>1</sub> = 1992 OB<sub>10</sub> = 1993 VO<sub>2</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Kobayashi			
<i>M</i>	326.31588	(2000.0)	<b>P</b>	<b>Q</b>		
<i>n</i>	0.29244003	$\omega$ 41.63386	-0.76942279	-0.63086595		
<i>a</i>	2.2479061	$\Omega$ 98.97154	+0.55602536	-0.73856816		
<i>e</i>	0.1119459	<i>i</i> 5.80954	+0.31436345	-0.23775033		
<i>P</i>	3.37	<i>H</i> 12.6	<i>G</i> 0.15			

## Residuals in seconds of arc

910218 675	0.2-	1.3-	920731 809	0.2+	0.7+	931118 411	0.5+	0.4-
910218 675	0.0	0.4-	920801 809	0.7-	0.3-	931118 411	0.3+	0.7-
910219 675	0.1+	1.0+	920801 809	0.3-	0.2-	931122 411	0.6-	1.2-
910219 675	0.1+	0.6+	920801 809	0.0	0.1-	931122 411	0.1-	0.1-
910220 675	0.1+	0.0	920803 809	0.0	0.4-	931204 411	0.9+	0.2+
920730 809	(6.2+	1.8+)	920803 809	0.2+	0.7-	931204 411	0.7+	0.2+

920730 809	(6.0+	2.1+)	920803 809	0.2+	0.7-	931204 411	0.2+	0.2+
920730 809	(6.4+	2.4+)	931115 411	1.7-	1.3+	931214 411	0.4+	0.0
920731 809	0.2+	0.8+	931115 411	1.1-	1.0+	931214 411	0.1-	0.2-
920731 809	0.1+	0.8+	931118 411	0.3+	0.1-	931214 411	0.2+	0.2-

**1991 DN<sub>1</sub>**

Id. E. Bowell (1950, 1993 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bowell			
<i>M</i>	274.04959	(2000.0)	<b>P</b>	<b>Q</b>		
<i>n</i>	0.23770160	$\omega$ 79.72264	-0.87634534	-0.48016046		
<i>a</i>	2.5809603	$\Omega$ 71.57248	+0.42464352	-0.80763338		
<i>e</i>	0.1498361	<i>i</i> 2.31199	+0.22736914	-0.34230725		
<i>P</i>	4.15	<i>H</i> 12.7	<i>G</i> 0.15			

## Residuals in seconds of arc

500615 675	0.7-	1.0-	910318 385	0.1-	0.1-	931010 675	0.0	0.0
500615 675	0.5+	0.0	910402 400	(4.2-	0.4+)	931010 675	0.2+	0.5-
910223 889	1.5-	1.2-	910402 400	(2.5-	1.8+)	931013 675	0.1+	0.1-
910223 889	(2.2-	2.5-)	910502 385	(2.4+	2.2+)	931013 675	0.1+	0.3-
910318 385	0.6+	0.2-	910502 385	0.8+	1.3+			

**1991 EB = 1985 XJ**

Id. G. V. Williams, E. Bowell (1951 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bowell			
<i>M</i>	302.09386	(2000.0)	<b>P</b>	<b>Q</b>		
<i>n</i>	0.23189175	$\omega$ 208.59070	-0.26168503	-0.96394985		
<i>a</i>	2.6238914	$\Omega$ 256.61329	+0.89467194	-0.22354535		
<i>e</i>	0.1254034	<i>i</i> 2.83896	+0.36205395	-0.14431964		
<i>P</i>	4.25	<i>H</i> 12.8	<i>G</i> 0.15			

## Residuals in seconds of arc

511201 675	0.4-	1.8+	910210 675	1.1-	0.1+	910313 399	2.5-	1.5+
511201 675	0.2-	2.0+	910307 399	3.0+	0.2+	910313 399	1.9-	1.6-
851209 046	0.7+	1.4-	910307 399	3.0+	0.9-	910411 033	0.3-	0.5+
851209 046	0.0	2.3-	910310 399	1.1-	0.1+	910411 033	0.3+	1.0+
910210 675	0.2-	0.1+	910310 399	0.8+	0.8-			

**1991 FE<sub>1</sub> = 1972 RR = 1994 AU<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Urata			
<i>M</i>	63.92542	(2000.0)	<b>P</b>	<b>Q</b>		
<i>n</i>	0.28911835	$\omega$ 102.13900	+0.63014666	-0.77526298		
<i>a</i>	2.2650908	$\Omega$ 308.71292	+0.68903119	+0.58406888		
<i>e</i>	0.1472122	<i>i</i> 3.18755	+0.35798213	+0.24048045		
<i>P</i>	3.41	<i>H</i> 13.0	<i>G</i> 0.15			

## Residuals in seconds of arc

720907 095	0.1-	0.2+	910318 402	0.7+	0.2-	940109 898	0.4-	0.3-
910311 511	0.8-	0.7+	910318 402	1.8-	1.0+	940109 898	0.2+	0.4-
910312 511	0.8+	1.1+	910319 402	(3.8+	0.9-)	940111 385	0.1+	0.2+
910315 511	0.3-	1.1-	910412 402	0.9+	0.7-	940111 385	0.1+	0.2+
910315 511	0.6+	0.6-	910412 402	(0.9-	4.5-)	940111 385	0.0	0.2+

**1991 FA<sub>3</sub> = 1974 FK<sub>1</sub> = 1976 SV<sub>9</sub> = 1982 UY<sub>9</sub> = 1987 RF<sub>3</sub> = 1988 VG<sub>6</sub> = 1993 TP<sub>11</sub>**

Id. A. Lowe (k), G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Williams			
<i>M</i>	111.37518	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.17605831	$\omega$ 259.08747	+0.18647298	+0.97998866		
<i>a</i>	3.1528141	$\Omega$ 22.03320	-0.81322976	+0.19373836		
<i>e</i>	0.1251885	<i>i</i> 10.69856	-0.55125782	+0.04569115		
<i>P</i>	5.60	<i>H</i> 12.0	<i>G</i> 0.15			

Residuals in seconds of arc

740321 095 0.0 0.4-	910320 809 0.1- 0.1+	910325 809 0.3- 0.3-
760929 095 (4.8+ 4.6-)	910320 809 0.2+ 0.2+	910325 809 0.1+ 0.2-
821022 095 2.5- 1.3-	910321 809 1.0- 0.2+	931013 675 0.5+ 1.2-
870902 095 0.1+ 1.7+	910321 809 0.4- 0.1+	931013 675 0.5- 0.9-
870922 095 0.8+ 0.2+	910321 809 0.0 0.4-	931013 675 0.3+ 2.1-
881103 033 0.6+ 1.0+	910324 809 0.1- 0.2-	931013 675 0.3+ 0.0
881104 033 1.1+ 1.1+	910324 809 0.2+ 0.3-	931015 675 0.3+ 0.3-
881104 033 0.9+ 0.8+	910324 809 0.6+ 0.6-	
910320 809 0.0 0.6+	910325 809 0.6- 0.2-	

**1991 TB<sub>1</sub>**

Id. C. S. Shoemaker (1985 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Williams			
<i>M</i>	67.60109	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.56223518	$\omega$ 103.57544	-0.33077600	-0.94270487		
<i>a</i>	1.4538648	$\Omega$ 6.27494	+0.63564269	-0.25665233		
<i>e</i>	0.3520221	<i>i</i> 23.46894	+0.69752821	-0.21315980		
<i>P</i>	1.75	<i>H</i> 17.0	<i>G</i> 0.15			

Residuals in seconds of arc

850320 675 1.4- 1.2+	911011 675 2.3+ 0.7-	920314 776 0.0 0.2+
850320 675 1.6+ 1.1-	911012 675 0.1- 0.8-	920315 776 0.6- 0.3-
910912 675 0.1- 0.4-	911013 675 1.0- 0.7+	920315 776 0.8+ 0.1+
910915 675 0.1- 1.7-	911014 675 (3.9- 0.9+)	920315 776 0.7- 1.1-
910915 675 0.4+ 1.0-	911014 675 0.2- 0.3-	920315 776 1.4- 0.5-
911002 675 (5.6- 0.9+)	911014 413 (3.5+ 0.2-)	920330 675 1.7- 2.3-
911002 675 0.2+ 2.2-	911101 675 0.9+ 0.6+	920330 675 0.5+ 0.4+
911010 675 1.6+ 0.6-	911101 675 (3.2- 1.2+)	920422 413 0.7- 0.3-
911010 675 1.0+ 0.6-	911104 801 1.7- 0.4+	920422 413 0.7- 0.6-
911011 675 0.1- 1.2+	920314 776 0.6+ 0.5+	920524 413 0.1+ 0.2-
911011 675 1.2+ 0.3+	920314 776 0.1+ 0.6+	920524 413 0.3+ 0.4-

**1991 UC<sub>1</sub> = 1993 CM<sub>1</sub>**

Id. S. Nakano (MPC 21943)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bowell			
<i>M</i>	93.52485	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.23521043	$\omega$ 318.15352	-0.82749450	-0.56122658		
<i>a</i>	2.5991519	$\Omega$ 187.75902	+0.54232287	-0.79123427		
<i>e</i>	0.0156679	<i>i</i> 7.08877	+0.14539172	-0.24284371		
<i>P</i>	4.19	<i>H</i> 12.4	<i>G</i> 0.15			

Residuals in seconds of arc

491123 675 0.3+ 0.5-	911104 399 (3.1- 2.0-)	930225 399 1.6+ 1.1-
491123 675 0.0 0.8-	911109 399 (2.3- 3.6-)	930225 399 0.8+ 0.1+
911018 399 1.1+ 0.6-	911109 399 0.5- 0.3-	930312 399 1.2- 0.9+
911018 399 0.4+ 0.3-	911204 399 1.3+ 0.8+	930312 399 0.6- 0.2-
911019 399 0.5+ 1.5+	911204 399 0.7- 0.5-	930318 399 1.0- 1.0+
911019 399 0.7+ 2.1+	930215 399 0.4- 0.8-	930318 399 0.7- 1.0-

911031 399 0.8- 0.0	930215 399 0.9- 0.6+	930424 801 0.3+ 0.3-
911031 399 0.2+ 1.4-	930221 399 1.0+ 0.6+	930424 801 0.8+ 0.2-
911104 399 2.2- 0.2-	930221 399 0.4+ 0.2+	

**1991 UB<sub>3</sub> = 1993 HM<sub>3</sub>**

Id. G. V. Williams (MPC 22235)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bowell			
<i>M</i>	240.92678	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.28380014	$\omega$ 334.55431	+0.81981261	-0.56774035		
<i>a</i>	2.2933006	$\Omega$ 60.24104	+0.53898741	+0.72100526		
<i>e</i>	0.1967344	<i>i</i> 4.93544	+0.19339044	+0.39726855		
<i>P</i>	3.47	<i>H</i> 14.5	<i>G</i> 0.15			

Residuals in seconds of arc

531207 675 0.4- 0.1+	911104 399 1.1- 0.1-	911111 894 0.4+ 0.7-
531207 675 0.4+ 0.1+	911105 691 0.4- 0.6+	911112 894 2.0+ 0.1-
911018 399 0.1+ 1.1+	911105 691 0.2- 0.6+	911112 894 (3.4+ 0.8-)
911018 399 1.2- 0.2+	911105 691 0.5+ 0.6+	930420 691 0.3+ 0.1+
911019 399 0.8- 0.2+	911109 399 0.5+ 0.3+	930420 691 0.2+ 0.2+
911019 399 1.8- 0.1+	911109 399 1.1+ 0.7-	930420 691 0.1+ 0.3+
911031 399 0.7+ 0.3-	911110 894 0.0 1.2+	930424 691 0.2+ 0.0
911031 399 0.5+ 0.3-	911110 894 0.9- 0.3-	930424 691 0.0 0.3+
911104 399 0.6- 0.0	911111 894 0.8+ 1.5-	930424 691 0.4- 0.2+

**1992 GM<sub>4</sub> = 1993 TL<sub>21</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bowell			
<i>M</i>	65.70918	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.26723222	$\omega$ 127.44136	+0.94070604	+0.33484714		
<i>a</i>	2.3871342	$\Omega$ 213.09546	-0.33409248	+0.88678887		
<i>e</i>	0.1357716	<i>i</i> 5.70819	-0.05877389	+0.31856381		
<i>P</i>	3.69	<i>H</i> 14.3	<i>G</i> 0.15			

Residuals in seconds of arc

920404 809 0.1+ 0.1-	920406 809 0.2- 0.5-	931010 675 0.2+ 0.0
920404 809 0.3- 0.8+	920425 809 0.4+ 0.1-	931013 675 0.0 0.1-
920404 809 0.2+ 0.1+	920425 809 0.2+ 0.3+	931013 675 0.0 0.3-
920406 809 0.7+ 0.1-	920425 809 0.6- 0.2-	
920406 809 0.5- 0.2-	931010 675 0.1- 0.3+	

**1992 JN<sub>1</sub> = 1989 XH<sub>2</sub>**

Id. G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bardwell			
<i>M</i>	102.03199	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.23640673	$\omega$ 217.95947	+0.60927187	+0.75760306		
<i>a</i>	2.5903761	$\Omega$ 90.82357	-0.65812838	+0.64783942		
<i>e</i>	0.1744366	<i>i</i> 13.54284	-0.44232886	+0.07963469		
<i>P</i>	4.17	<i>H</i> 13.0	<i>G</i> 0.15			

Residuals in seconds of arc

891201 046 0.9+ 2.1-	920528 894 0.1- 1.5-	920610 413 0.1+ 0.2-
891201 046 (4.2- 4.3-)	920601 809 0.8- 1.0-	920610 413 0.2+ 0.2-
920506 402 0.3+ 0.9+	920601 809 1.1- 0.5-	920628 675 0.2- 0.4-
920506 402 0.1+ 1.1+	920601 809 2.2- 0.3-	920628 675 2.3- 1.6+
920522 894 0.0 0.4-	920602 402 0.9- 0.5+	920805 413 0.6+ 0.1+
920522 894 1.0+ 0.7-	920602 402 1.0+ 0.1+	920805 413 0.2+ 0.2-
920525 402 (3.0+ 1.4+)	920603 809 0.1+ 0.9+	931014 801 0.0 0.6+
920525 402 2.2+ 0.9+	920603 809 0.0 0.8+	931014 801 0.1- 0.7+

920528 402 (1.3+ 3.9-) 920603 809 0.7- 0.9+ 931213 801 0.2+ 0.1-  
 920528 402 0.8+ 0.6- 920608 675 0.5+ 1.4- 931217 801 0.0 1.9-  
 920528 894 0.2+ 0.9- 920608 675 0.2+ 1.3- 931217 801 0.1+ 0.2+

**1992 JB<sub>2</sub> = 1993 RR<sub>3</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>		<i>P</i>	<i>Q</i>		
	(2000.0)				
<i>n</i>	0.22921927	$\omega$	150.75602	+0.98112610	-0.15185561
<i>a</i>	2.6442467	$\Omega$	218.56578	+0.11781892	+0.96036628
<i>e</i>	0.0645478	<i>i</i>	11.07129	+0.15333062	+0.23374448
<i>P</i>	4.30	<i>H</i>	11.5	<i>G</i>	0.15

Residuals in seconds of arc

920404 809 0.0 1.1+ 920503 809 1.1- 0.1+ 930823 675 2.0- 1.1-  
 920404 809 0.7- 0.5+ 920503 809 0.9- 0.2- 930912 675 1.0- 0.8+  
 920404 809 0.9- 0.9- 920503 809 0.4- 0.1+ 930912 675 0.4- 0.0  
 920502 809 0.6+ 0.1- 930821 675 2.7+ 0.0 930914 675 0.4+ 0.6-  
 920502 809 1.3+ 0.3- 930821 675 1.0+ 0.9+ 930914 675 0.8- 0.5-  
 920502 809 2.0+ 0.2- 930823 675 0.0 0.4+

**1992 NP = 1950 NY = 1988 PB<sub>4</sub>**

Id. K. Lawrence (1993 observations), G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>		<i>P</i>	<i>Q</i>		
	(2000.0)				
<i>n</i>	0.23419908	$\omega$	51.72664	+0.96967652	+0.16326257
<i>a</i>	2.6066293	$\Omega$	298.19407	-0.23232887	+0.84670392
<i>e</i>	0.1989463	<i>i</i>	11.90802	+0.07583358	+0.50639688
<i>P</i>	4.21	<i>H</i>	12.5	<i>G</i>	0.15

Residuals in seconds of arc

500715 760 (0.1+ 10.0-) 920705 675 0.3- 0.5- 931214 675 1.4- 1.9-  
 500715 760 0.4- 0.8+ 920705 675 0.5- 0.6+ 931214 675 0.7- 0.4+  
 880813 046 0.7+ 0.1+ 920726 675 0.1- 0.5- 931216 675 2.5+ 0.3-  
 880813 046 0.6- 0.6- 920726 675 1.1+ 0.2- 931216 675 0.4- 1.8+  
 920702 675 0.2- 1.3- 920728 675 1.2+ 1.1+  
 920702 675 2.2- 0.6- 920728 675 1.4+ 0.8+

**1992 OV<sub>6</sub> = 1990 DS<sub>4</sub> = 1993 VT<sub>3</sub>**

Id. A. Lowe (k), G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>		<i>P</i>	<i>Q</i>		
	(2000.0)				
<i>n</i>	0.20200649	$\omega$	240.66780	+0.17156588	-0.98513406
<i>a</i>	2.8766862	$\Omega$	199.45912	+0.91271281	+0.16227265
<i>e</i>	0.0356887	<i>i</i>	1.49991	+0.37083753	+0.05637796
<i>P</i>	4.88	<i>H</i>	12.5	<i>G</i>	0.15

Residuals in seconds of arc

900228 809 1.2+ 0.5+ 900301 809 1.5- 0.3- 920731 809 0.4+ 0.3-  
 900228 809 1.5+ 0.6+ 920726 809 0.1- 0.3- 931018 033 3.0+ 0.8+  
 900228 809 1.8+ 0.5+ 920726 809 1.8- 0.5- 931018 033 0.2+ 0.5+  
 900301 809 0.8- 0.9- 920730 809 0.7+ 0.4- 931113 372 0.5- 1.6-  
 900301 809 0.5- 1.0- 920730 809 0.3+ 0.1- 931113 372 0.7+ 1.7-  
 900301 809 0.4- 0.8- 920730 809 1.4- 0.4- 931118 372 0.1- 0.8+  
 900301 809 1.0- 0.3- 920731 809 1.4+ 0.6+ 931118 372 2.9- 0.8+  
 900301 809 1.1- 0.3- 920731 809 1.1+ 0.6-

**1992 OJ<sub>8</sub>**

Id. T. Kobayashi (1993 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>		<i>P</i>	<i>Q</i>		
	(2000.0)				
<i>n</i>	0.28357430	$\omega$	18.44426	+0.75829543	+0.64408396
<i>a</i>	2.2945180	$\Omega$	301.03534	-0.61193549	+0.64998173
<i>e</i>	0.1326276	<i>i</i>	6.75034	-0.22477321	+0.40333561
<i>P</i>	3.48	<i>H</i>	13.4	<i>G</i>	0.15

Residuals in seconds of arc

920722 809 0.1- 0.1- 920728 809 0.8- 0.1- 920804 809 1.1+ 0.1+  
 920722 809 0.3+ 0.3- 920728 809 0.1+ 0.0 920805 809 0.6- 0.6-  
 920722 809 0.6+ 0.1- 920728 809 1.5- 0.8+ 920805 809 0.5- 0.8-  
 920723 809 0.0 0.0 920728 809 0.7- 0.8+ 920805 809 0.5- 0.5-  
 920723 809 0.3+ 0.2- 920728 809 0.2+ 0.8+ 931217 411 0.4+ 0.7+  
 920723 809 0.7+ 0.5- 920731 809 0.2- 1.1+ 931217 411 0.0 0.6+  
 920727 809 0.6- 0.7- 920731 809 0.1+ 1.1+ 931218 411 0.0 1.0-  
 920727 809 0.4- 0.4- 920731 809 0.3+ 1.2+ 931218 411 0.3- 0.3-  
 920727 809 0.5+ 0.3- 920804 809 1.5+ 0.5- 931218 411 0.0 0.0  
 920728 809 0.8- 0.6- 920804 809 1.1+ 0.2-

**1992 PW<sub>1</sub> = 1970 GS = 1989 VR<sub>5</sub> = 1991 FM<sub>5</sub>**Id. A. Lowe (*MPC* 21584), B. G. Marsden (*ibid.*), G. V. Williams, S. Nakano

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>		<i>P</i>	<i>Q</i>		
	(2000.0)				
<i>n</i>	0.28065579	$\omega$	292.88936	-0.24569072	-0.96933959
<i>a</i>	2.3103975	$\Omega$	171.33026	+0.89903301	-0.22944868
<i>e</i>	0.0485563	<i>i</i>	1.55913	+0.36245789	-0.08794347
<i>P</i>	3.51	<i>H</i>	13.8	<i>G</i>	0.15

Residuals in seconds of arc

700410 805 0.7- 0.4- 920724 809 1.1- 0.4- 920808 010 (4.3- 0.8-)  
 700410 805 0.1- 0.2- 920726 809 1.4+ 0.5+ 920808 010 (3.5- 1.9-)  
 700410 805 0.8+ 0.4- 920726 809 0.4+ 0.4- 920809 010 (4.3- 0.4-)  
 891103 675 0.7- 0.3- 920726 809 0.3+ 0.6- 920809 010 (4.6- 0.9-)  
 891103 675 0.4+ 0.3+ 920730 809 1.0+ 0.2- 920809 010 (5.1- 0.3-)  
 891104 675 0.3- 1.1- 920730 809 0.3- 0.4- 940104 896 (3.6+ 0.4+)  
 891104 675 0.3- 0.5- 920730 809 0.0 0.0+ 940104 896 1.8+ 0.1+  
 910321 808 1.4- 0.1+ 920731 809 1.7+ 1.5+ 940106 896 1.9- 0.0  
 910321 808 (5.5- 1.4+) 920731 809 0.3+ 0.3+ 940106 896 1.4+ 0.2-  
 920724 809 1.6- 0.4- 920731 809 0.3+ 0.4+  
 920724 809 1.3- 0.3- 920808 010 (3.7- 0.0)

**1992 PY<sub>2</sub>**

Id. T. Kobayashi (1994 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>		<i>P</i>	<i>Q</i>		
	(2000.0)				
<i>n</i>	0.23149233	$\omega$	131.66970	+0.48735112	-0.84059888
<i>a</i>	2.6269087	$\Omega$	287.69264	+0.70916581	+0.53897268
<i>e</i>	0.1067109	<i>i</i>	14.36695	+0.50948283	+0.05386995
<i>P</i>	4.26	<i>H</i>	12.0	<i>G</i>	0.15

Residuals in seconds of arc

920806 675 0.9+ 0.0 920824 675 0.1+ 0.1+ 940104 411 0.3+ 0.4+  
 920806 675 1.0+ 1.1- 920824 675 0.1+ 0.0 940106 411 0.2- 0.9-

920807 675 0.9- 0.1+ 940104 411 0.3- 0.2+
920807 675 1.2- 0.8+ 940104 411 0.2+ 0.2+

1992 RZ5 = 1994 AC2

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano
M 336.72826 (2000.0) P Q
n 0.26439135 omega 77.59459 -0.94280763 -0.32909228
a 2.4042035 Omega 83.17325 +0.28131535 -0.87087615
e 0.1646135 i 3.06147 +0.17881678 -0.36506575
P 3.73 H 14.1 G 0.15

Residuals in seconds of arc
920902 809 1.0+ 0.9+ 920922 809 0.1- 0.7- 940109 896 0.3- 0.6+
920902 809 0.7- 0.1+ 920922 809 0.0 0.6- 940109 896 1.2+ 1.0-
920902 809 0.4- 0.5- 920923 809 1.0+ 0.8+ 940111 896 0.4- 0.3+
920903 809 0.3- 0.0 920923 809 0.7- 0.1- 940111 896 0.4- 0.2+
920922 809 0.0 0.2- 920923 809 0.2+ 0.2+

1992 RM7 = 1993 YQ

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams
M 52.17307 (2000.0) P Q
n 0.18156746 omega 345.74999 +0.62406327 -0.78053747
a 3.0887117 Omega 65.62359 +0.72072568 +0.55714166
e 0.1634224 i 2.27409 +0.30182698 +0.28346857
P 5.43 H 14.0 G 0.15

Residuals in seconds of arc
920902 809 0.4- 0.5- 931218 589 0.6- 1.6- 940108 589 1.4+ 0.9+
920902 809 0.4- 1.0- 931219 589 0.4+ 0.5- 940111 589 0.2- 0.4+
920902 809 2.0- 1.4- 931219 589 0.0 0.1- 940112 589 0.3- 0.5+
920903 809 0.6- 0.2+ 931219 589 0.5+ 1.4- 940112 589 0.4- 0.5+
920922 809 1.3+ 1.6+ 931222 589 0.1+ 1.2- 940112 589 0.3- 0.8+
920922 809 0.6+ 1.5+ 931222 589 0.3+ 0.3- 940112 589 0.8- 0.4+
920922 809 0.3- 0.8+ 931222 589 0.7+ 0.6- 940112 589 0.3- 0.5+
920923 809 0.8+ 0.4+ 931227 589 0.0 0.7- 940115 589 0.9- 0.7+
920923 809 0.5+ 0.4- 931227 589 1.0+ 1.2- 940115 589 0.5- 0.6+
920923 809 0.3+ 0.8- 931227 589 0.0 0.4- 940115 589 1.0- 1.2+
931218 589 0.6- 0.0 940108 589 0.0 0.4+
931218 589 0.1+ 0.2+ 940108 589 1.2+ 0.7+

1992 UM3 = 1986 RG12 = 1994 AW2

Id. G. V. Williams, K. Watanabe, S. Nakano
Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams
M 30.44324 (2000.0) P Q
n 0.18782325 omega 228.45960 -0.30453871 -0.94266929
a 3.0197418 Omega 239.76004 +0.91417999 -0.24903245
e 0.0623281 i 9.09047 +0.26745302 -0.22216538
P 5.25 H 11.5 G 0.15

Residuals in seconds of arc
860909 095 0.8- 2.2+ 921026 400 1.5+ 0.6+ 921116 400 1.3- 0.0
920923 033 0.9+ 0.5- 921026 400 0.0 0.5+ 940110 400 0.7- 0.3+
920925 033 0.6+ 0.9- 921028 400 1.1- 0.3+ 940110 400 0.2+ 0.9+
920925 033 0.6+ 1.0- 921028 400 0.8- 0.2+ 940113 400 0.7- 0.3-
920927 033 0.2+ 0.5- 921031 033 0.6+ 0.2- 940113 400 1.9+ 0.6+
920928 033 0.1+ 0.5- 921031 033 0.2+ 0.1+
920929 033 0.1+ 0.2- 921116 400 1.4- 0.5+

1993 BC = 1984 ST1 = 1991 PK4

Id. S. Nakano (MPC 22595)
Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
M 157.51631 (2000.0) P Q
n 0.26705137 omega 162.98061 +0.41387920 -0.90988861
a 2.3882118 Omega 262.56314 +0.83184275 +0.39068430
e 0.1882358 i 1.64140 +0.36978594 +0.13952956
P 3.69 H 14.4 G 0.15

Residuals in seconds of arc
511201 675 0.7- 1.9+ 910803 809 0.7- 0.9+ 930116 372 (1.7+ 2.4+)
511201 675 0.1- 1.9+ 910803 809 0.4+ 0.5+ 930119 372 0.4+ 0.5+
840927 046 1.1+ 0.8- 910803 809 0.5+ 0.5+ 930119 372 (2.1+ 2.0+)
840927 046 1.4+ 1.3- 910804 809 (2.7- 0.0 ) 930125 372 1.1+ 0.5-
840929 046 0.1+ 2.0- 910805 809 0.6- 2.1+ 930125 372 (0.4- 3.1+)
840929 046 (1.7- 2.5-) 910805 809 1.3- 1.4+ 930126 372 1.6- 0.1-
840930 046 0.9- 0.0 910805 809 (0.7- 2.4+) 930126 372 0.7+ 1.8+
840930 046 (3.0- 0.6+) 930116 372 0.0 0.4-

1993 BA8 = 1976 ST1 = 1984 GC = 1986 TT12 = 1990 SJ18

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Marsden
M 18.50004 (2000.0) P Q
n 0.20595279 omega 359.35501 -0.92128134 +0.38825508
a 2.8398208 Omega 203.52983 -0.35655486 -0.86619728
e 0.0677145 i 3.20657 -0.15527176 -0.31457951
P 4.79 H 12.5 G 0.15

Residuals in seconds of arc
760924 095 0.1+ 1.3+ 900916 675 0.3- 0.8- 930128 809 0.5+ 0.6-
840329 095 0.5+ 3.0- 900916 675 0.9+ 0.7- 930128 809 0.4- 0.2-
840403 688 (6.7- 2.8+) 930123 809 1.0+ 0.8- 930217 809 0.3- 0.7+
840403 688 1.9- 1.6+ 930123 809 0.5+ 0.5- 930217 809 0.2- 0.4+
840404 095 0.3+ 0.4- 930123 809 0.3+ 0.3- 930217 809 1.5- 1.3+
861005 095 0.1- 2.4- 930128 809 0.4+ 0.5-

1993 BE8 = 1975 TB2 = 1977 EK8 = 1990 GU = 1991 OX = 1991 PN21

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Marsden
M 210.97743 (2000.0) P Q
n 0.30279806 omega 208.21908 +0.82370451 -0.56697289
a 2.1963455 Omega 186.33496 +0.53181367 +0.77693634
e 0.0470700 i 3.76975 +0.19668530 +0.27369997
P 3.25 H 15.0 G 0.15

Residuals in seconds of arc
751003 095 0.2+ 1.7- 900416 809 (1.2- 3.0-) 930123 809 0.5- 0.7-
770312 381 0.3+ 1.5+ 900417 809 1.0- 0.8- 930123 809 0.3- 0.9-
770312 381 (0.5+ 2.6+) 900417 809 (2.4- 0.6-) 930123 809 0.6- 1.2-
770314 381 (2.4+ 1.0+) 910716 675 0.5- 0.9- 930128 809 1.3+ 0.2-
770314 381 0.9+ 0.0 910716 675 1.6+ 0.3- 930128 809 0.7+ 0.2-
770315 381 0.3+ 0.5+ 910718 675 0.5+ 2.0- 930128 809 0.6+ 0.8-
900415 809 0.1- 0.9- 910718 675 0.1+ 0.3- 930217 809 (2.4+ 1.3+)
900416 809 1.3- 1.0- 910810 675 0.7- 1.8+ 930217 809 0.2- 0.7+
900416 809 0.7- 1.1- 910810 675 (8.6+ 15.6+) 930217 809 0.8- 1.4+

1993 CK = 1982 HP2

Id. T. Kobayashi

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

M		(2000.0)		P		Q	
<i>n</i>	0.26860212	$\omega$	140.83460	-0.99835038	+0.01760987		
<i>a</i>	2.3790109	$\Omega$	40.27722	-0.04062081	-0.88929703		
<i>e</i>	0.0760190	<i>i</i>	4.84904	+0.04057662	-0.45699090		
<i>P</i>	3.67	<i>H</i>	12.8	<i>G</i>	0.15		

Residuals in seconds of arc

540728 675	0.1-	1.0-	930214 411	0.1-	0.7+	930313 411	1.3+	0.7-
540728 675	0.3+	0.6+	930217 411	0.6+	0.4-	930313 411	0.6+	0.6+
820427 033	0.3-	0.1-	930217 411	0.0	0.1-	930314 411	0.0	0.5+
820427 033	0.2-	1.0-	930217 411	0.3-	0.8+	930314 411	0.8+	0.2-
930212 411	0.3-	1.2-	930223 411	0.7-	0.3+	930314 411	0.3+	0.5-
930212 411	0.1-	0.2-	930223 411	0.0	0.4+	930329 411	0.5+	1.5+
930213 411	1.3-	0.4+	930223 411	0.7-	0.5+	930329 411	0.8+	0.2+
930213 411	0.6+	0.4+	930228 411	0.4-	0.0	930329 411	0.1-	0.3-
930213 411	2.0-	0.0	930228 411	0.0	0.4-	930410 411	1.4+	1.1-
930214 411	1.0+	0.4-	930228 411	1.0+	0.4-	930410 411	1.1-	0.2+
930214 411	0.3+	0.7-	930313 411	0.8-	0.1+	930410 411	1.0-	0.6+

**1993 GE = 1971 HU**

Id. G. V. Williams, E. Bowell (1953 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

M		(2000.0)		P		Q	
<i>n</i>	0.17684881	$\omega$	146.32737	-0.86672514	+0.33654101		
<i>a</i>	3.1434118	$\Omega$	57.67568	-0.49646868	-0.65314404		
<i>e</i>	0.2343696	<i>i</i>	25.82676	+0.04802471	-0.67833842		
<i>P</i>	5.57	<i>H</i>	10.6	<i>G</i>	0.15		

Residuals in seconds of arc

530110 675	0.4-	0.9+	930415 693	0.5+	0.5-	930518 693	0.8-	0.5+
530110 675	0.2-	0.1-	930417 693	1.7+	0.5+	930518 693	0.7-	0.1+
710427 095	1.0+	1.0+	930417 693	0.9-	0.2+	930617 693	0.2-	1.2+
930414 693	1.7-	0.7+	930418 693	1.2+	0.1-	930617 693	0.8-	1.2-
930414 693	0.1-	1.5-	930420 675	0.2+	0.4-	930618 693	0.5+	0.2+
930415 693	1.0-	0.5-	930420 675	0.6+	0.1+	930618 693	0.5+	0.5-

**1993 JX = 1989 EB<sub>6</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

M		(2000.0)		P		Q	
<i>n</i>	0.28225521	$\omega$	274.97995	-0.78450531	-0.61685108		
<i>a</i>	2.3016612	$\Omega$	226.95103	+0.59785431	-0.72510404		
<i>e</i>	0.0732963	<i>i</i>	4.99360	+0.16468651	-0.30613540		
<i>P</i>	3.49	<i>H</i>	15.1	<i>G</i>	0.15		

Residuals in seconds of arc

890302 413	0.1-	0.4-	930514 809	0.4-	0.6-	930515 809	1.2+	1.4+
890302 413	0.2-	1.2-	930514 809	0.7-	0.2+	930523 809	0.5-	0.4+
890304 413	0.2+	1.6+	930515 809	0.5-	1.6-	930523 809	0.1-	0.1-
930514 809	0.9+	0.2+	930515 809	0.3+	0.7-	930523 809	0.2-	0.8+

**1993 JL<sub>1</sub> = 1975 ED<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

M		(2000.0)		P		Q	
<i>n</i>	0.17325461	$\omega$	345.33895	-0.82412560	-0.56637352		
<i>a</i>	3.1867367	$\Omega$	160.15955	+0.52148042	-0.76296148		
<i>e</i>	0.1549111	<i>i</i>	1.04106	+0.22107729	-0.31162608		
<i>P</i>	5.69	<i>H</i>	13.0	<i>G</i>	0.15		

Residuals in seconds of arc

750306 095	0.2+	1.6-	930514 809	0.7-	0.7+	930523 809	0.7-	1.6+
750315 095	0.2+	1.5+	930515 809	0.1-	2.0-	930523 809	0.8+	0.2+
930514 809	0.4+	0.3-	930515 809	0.0	0.8-	930523 809	0.4+	0.5+
930514 809	0.3+	0.0	930515 809	0.3-	0.1+			

**1993 KH**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

M		(2000.0)		P		Q	
<i>n</i>	0.71917370	$\omega$	293.59286	+0.96005946	+0.21372491		
<i>a</i>	1.2338059	$\Omega$	54.54176	-0.09569708	+0.85728392		
<i>e</i>	0.3111393	<i>i</i>	12.80834	-0.26292184	+0.46838653		
<i>P</i>	1.37	<i>H</i>	19.0	<i>G</i>	0.15		

From 23 observations 1993 May 24-1994 Jan. 5, mean residual 0''.69.

**1993 OA<sub>3</sub> = 1984 AE**

Id. G. V. Williams, E. Bowell (1954 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

M		(2000.0)		P		Q	
<i>n</i>	0.27796533	$\omega$	59.77032	+0.88810367	+0.25316851		
<i>a</i>	2.3252820	$\Omega$	283.20232	-0.41874368	+0.78981215		
<i>e</i>	0.2419460	<i>i</i>	23.20688	+0.18954052	+0.55866133		
<i>P</i>	3.55	<i>H</i>	12.7	<i>G</i>	0.15		

Residuals in seconds of arc

540809 675	0.3-	0.2-	930726 675	0.4+	0.6-	930815 675	0.6+	0.4+
540809 675	1.2+	1.4-	930813 675	1.8-	1.3+	930816 675	0.2-	1.4+
840109 801	0.1+	0.1-	930813 675	0.1-	1.4+	930921 675	0.2+	0.6-
930726 675	1.0+	1.5-	930814 675	0.1-	1.1+	930921 675	0.3-	1.5-

**1993 OA<sub>4</sub> = 1979 SQ<sub>13</sub> = 1992 HQ**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

M		(2000.0)		P		Q	
<i>n</i>	0.20360876	$\omega$	223.00188	+0.96563247	+0.25574379		
<i>a</i>	2.8615746	$\Omega$	122.12541	-0.22114086	+0.90213405		
<i>e</i>	0.0870049	<i>i</i>	3.13789	-0.13656742	+0.34748996		
<i>P</i>	4.84	<i>H</i>	14.5	<i>G</i>	0.15		

Residuals in seconds of arc

790920 675	0.2+	0.6+	930713 809	2.0+	0.1-	930719 691	0.4-	0.6-
790921 675	0.3-	0.4-	930713 809	1.6+	0.4-	930720 809	0.7+	0.7+
920423 691	0.0	0.3-	930713 809	1.0+	1.4-	930720 809	1.0+	1.1+
920423 691	0.0	0.2+	930713 809	1.1+	1.8+	930720 809	0.2+	1.0+
920423 691	0.1-	0.2-	930713 809	1.8+	1.5+	930720 809	1.8-	1.0-
920428 691	0.4+	0.1-	930713 809	1.3+	2.0+	930720 809	2.5-	0.8-
920428 691	0.3-	0.6+	930719 691	0.9-	1.2-	930720 809	2.3-	0.9-
920428 691	0.0	0.0	930719 691	0.8-	1.0-	930724 809	2.0-	0.8-



**1993 OF<sub>9</sub> = 1984 WM<sub>2</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	94.38375		
<i>a</i>	0.18795000	$\omega$	294.75373
<i>e</i>	3.0183840	$\Omega$	301.69759
<i>P</i>	0.0439728	<i>i</i>	8.92603
	5.24	<i>H</i>	13.0
		<i>G</i>	0.15

Residuals in seconds of arc

841120	675	0.0	0.1+	930720	809	0.1+	0.2+	930726	809	0.7+	0.7-
841121	675	0.0	0.1-	930720	809	0.0	0.1-	930726	809	0.1-	0.2+
930720	809	0.1+	0.1-	930724	809	0.4-	0.1+	930726	809	0.3-	0.4+

**1993 ON<sub>9</sub> = 1993 OL<sub>13</sub> = 1976 JR<sub>10</sub> = 1982 BP<sub>1</sub> = 1982 BM<sub>13</sub>**= 1989 GZ<sub>2</sub>

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	272.71858		
<i>a</i>	0.30025891	$\omega$	167.80861
<i>e</i>	2.2087104	$\Omega$	284.99167
<i>P</i>	0.1227880	<i>i</i>	3.04096
	3.28	<i>H</i>	14.5
		<i>G</i>	0.15

Residuals in seconds of arc

760502	809	0.6-	2.2-	890403	809	0.9-	2.3+	930720	809	(3.6-	0.8-)
820130	688	(2.5+	2.1-)	890403	809	1.3-	1.8+	930720	809	1.7-	0.4-
820130	688	0.9+	0.3+	890405	809	1.6+	1.2-	930720	809	1.7-	0.2-
820130	688	0.3-	0.6-	890405	809	1.2+	1.4-	930724	809	1.6-	0.5-
820130	688	1.1+	0.8-	890405	809	1.0+	2.0-	930726	809	1.1+	0.3-
820130	675	0.3-	1.0+	930713	809	0.3+	1.2+	930726	809	2.0+	0.4-
820131	675	1.0-	0.9+	930713	809	0.3-	0.6+	930726	809	1.6+	1.0+
890403	809	1.1-	2.0+	930713	809	0.0	0.7+				

**1993 OM<sub>10</sub> = 1988 VT<sub>6</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	344.88555		
<i>a</i>	0.17189230	$\omega$	212.70746
<i>e</i>	3.2035519	$\Omega$	155.24890
<i>P</i>	0.1906892	<i>i</i>	1.57082
	5.73	<i>H</i>	14.0
		<i>G</i>	0.15

Residuals in seconds of arc

881103	033	0.0	0.7-	930713	809	0.3-	0.0	930720	809	0.1-	0.2+
881103	033	0.4+	0.3+	930713	809	1.0-	0.1-	930724	809	0.4-	0.4-
881104	033	0.4-	0.3+	930720	809	0.5+	0.2+				
930713	809	1.0+	0.2-	930720	809	0.3+	0.3+				

**1993 OV<sub>10</sub> = 1978 UE<sub>7</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	6.30492		
<i>a</i>	0.12364812	$\omega$	75.20506
<i>e</i>	3.9903505	$\Omega$	254.02242
<i>P</i>	0.2312479	<i>i</i>	2.16718
	7.97	<i>H</i>	13.5
		<i>G</i>	0.15

Residuals in seconds of arc

781027	675	0.9+	0.6+	930621	691	1.0-	0.2+	930720	809	1.4-	0.5+
781028	675	0.9-	0.3-	930713	809	1.9+	0.6+	930720	809	2.0-	0.9+
781029	675	0.0	0.1-	930713	809	0.8+	0.1+	930724	809	0.4-	2.1-

930621	691	0.9-	0.2+	930713	809	1.1+	0.7+	930724	809	2.5+	2.0-
930621	691	0.5-	0.3+	930720	809	0.4-	0.5+				

**1993 OH<sub>12</sub>**

Id. G. V. Williams (1971 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	20.98067		
<i>a</i>	0.23349446	$\omega$	79.73285
<i>e</i>	2.6118706	$\Omega$	251.63951
<i>P</i>	0.1527687	<i>i</i>	2.55851
	4.22	<i>H</i>	15.0
		<i>G</i>	0.15

Residuals in seconds of arc

710325	675	0.1+	1.5+	930712	809	0.2+	1.2+	930723	809	0.1+	0.9-
710326	675	0.3+	1.4+	930712	809	0.4-	0.8+	930723	809	0.3-	0.5-
710326	675	1.2+	0.7+	930719	809	0.5-	0.2-	930726	809	0.3+	0.3+
710416	675	1.1-	2.9-	930719	809	0.6-	0.5-	930726	809	0.7+	0.1+
710416	675	0.6-	0.8-	930719	809	0.8-	0.8-	930726	809	0.3+	0.3+
930712	809	0.4+	1.7+	930723	809	0.5+	1.4-				

**1993 QD<sub>4</sub> = 1094 T-1**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	40.60974		
<i>a</i>	0.28326293	$\omega$	5.43997
<i>e</i>	2.2961991	$\Omega$	348.39518
<i>P</i>	0.1184096	<i>i</i>	2.69630
	3.48	<i>H</i>	15.0
		<i>G</i>	0.15

Residuals in seconds of arc

710324	675	1.1-	0.7-	930818	010	0.6-	0.1-	930919	010	0.3+	1.1+
710325	675	(3.0-	0.2+)	930819	010	0.4+	0.4+	930920	010	0.0	0.0
710325	675	0.4+	0.5-	930819	010	0.1+	0.6-	930920	010	0.2+	0.8-
710326	675	0.6+	0.6+	930819	010	0.9+	0.2-	930920	010	1.4-	0.3+
710327	675	0.4+	1.3+	930919	010	0.1-	0.4+				

**1993 QZ<sub>5</sub> = 1991 EK<sub>2</sub>**

Id. A. Lowe

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	271.01518		
<i>a</i>	0.20254908	$\omega$	296.08227
<i>e</i>	2.8715466	$\Omega$	171.03737
<i>P</i>	0.0313344	<i>i</i>	2.11332
	4.87	<i>H</i>	13.5
		<i>G</i>	0.15

Residuals in seconds of arc

910310	809	0.4-	0.2+	910312	809	0.0	0.2-	930819	010	0.4+	0.2-
910310	809	0.1-	0.2+	930815	010	0.5+	0.9+	930819	010	0.7-	0.5-
910310	809	0.3+	0.1+	930815	010	0.0	1.3+	930819	010	0.1+	0.1-
910312	809	0.0	0.2-	930815	010	0.7-	0.5-				
910312	809	0.1+	0.3-	930817	010	0.4+	1.1-				

**1993 RB**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.29751791	$\omega$ 160.80855	-0.75038328 -0.65872901
<i>a</i>	2.2222554	$\Omega$ 337.70188	+0.58601394 -0.62462474
<i>e</i>	0.0516535	<i>i</i> 8.30139	+0.30579830 -0.41942821
<i>P</i>	3.31	<i>H</i> 14.5	<i>G</i> 0.15

From 38 observations 1993 Sept. 10–Dec. 12, mean residual 0''.48.

**1993 RX<sub>3</sub> = 1991 CQ<sub>2</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.17092089	$\omega$ 8.97544	+0.49218914 +0.83566715
<i>a</i>	3.2156785	$\Omega$ 290.84182	-0.81396954 +0.34257215
<i>e</i>	0.0599028	<i>i</i> 15.11800	-0.30855055 +0.42930728
<i>P</i>	5.77	<i>H</i> 11.0	<i>G</i> 0.15

Residuals in seconds of arc

910211	413	0.0	0.3+	930820	675	1.1+	0.1-	930912	675	0.5+	0.8+
910212	413	0.0	0.3-	930821	675	0.0	0.9-	930914	675	0.0	0.3-
930820	675	1.2-	0.8+	930912	675	0.4+	0.3+	930914	675	0.9-	0.7-

**1993 SG<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.23741331	$\omega$ 175.53758	+0.98597333 +0.16547601
<i>a</i>	2.5830492	$\Omega$ 174.78417	-0.15958674 +0.97290218
<i>e</i>	0.2920497	<i>i</i> 13.86059	-0.04887391 +0.16149007
<i>P</i>	4.15	<i>H</i> 14.0	<i>G</i> 0.15

From 8 observations 1993 Sept. 14–Dec. 17, mean residual 0''.92.

**1993 TQ<sub>2</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.35220291	$\omega$ 77.14923	-0.01428573 -0.99958421
<i>a</i>	1.9858240	$\Omega$ 13.74328	+0.87164216 -0.02472311
<i>e</i>	0.4194489	<i>i</i> 6.05180	+0.48993455 +0.01483855
<i>P</i>	2.80	<i>H</i> 20.0	<i>G</i> 0.15

From 23 observations 1993 Oct. 11–1994 Jan. 14, mean residual 0''.39.

**1993 UC**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.25843693	$\omega$ 322.93899	-0.64426755 -0.75753626
<i>a</i>	2.4409919	$\Omega$ 166.08712	+0.76354719 -0.64497032
<i>e</i>	0.6627278	<i>i</i> 25.93452	+0.04376088 +0.10075765
<i>P</i>	3.81	<i>H</i> 15.0	<i>G</i> 0.15

From 31 observations 1993 Oct. 20–1994 Jan. 12, mean residual 0''.81.

**1993 UE<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.17497640	$\omega$ 311.59336	+0.98211569 +0.02725182
<i>a</i>	3.1657970	$\Omega$ 47.75144	+0.07922674 +0.83778505
<i>e</i>	0.1826539	<i>i</i> 14.57642	-0.17079785 +0.54531967
<i>P</i>	5.63	<i>H</i> 13.0	<i>G</i> 0.15

From 18 observations 1993 Oct. 26–1994 Jan. 12, mean residual 0''.65.

**1993 UW<sub>2</sub> = 1964 TF<sub>2</sub> = 1972 HP<sub>1</sub> = 1976 DL = 1987 MV**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.20657539	$\omega$ 84.36337	+0.36553342 +0.92364944
<i>a</i>	2.8341119	$\Omega$ 207.95927	-0.92124237 +0.34132259
<i>e</i>	0.1008098	<i>i</i> 14.21617	-0.13303317 +0.17427160
<i>P</i>	4.77	<i>H</i> 12.0	<i>G</i> 0.15

Residuals in seconds of arc

641009	330	0.2-	1.4+	870628	675	0.5-	0.3+	931024	372	2.0+	0.7-
720419	805	0.2-	1.1+	870630	675	0.3+	0.2-	931025	372	0.2+	0.9-
720419	805	0.7+	1.2-	931016	033	0.2-	0.5-	931109	372	0.7+	0.0
760223	808	0.2+	0.7+	931016	033	1.0-	0.5+	931109	372	1.1-	0.1+
760223	808	0.6-	0.3+	931018	033	0.2-	0.3+				

**1993 VB**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.37351827	$\omega$ 322.63977	-0.32003253 -0.94612006
<i>a</i>	1.9095373	$\Omega$ 145.94516	+0.88911710 -0.31792581
<i>e</i>	0.5190659	<i>i</i> 5.05649	+0.32718489 -0.06148181
<i>P</i>	2.64	<i>H</i> 19.5	<i>G</i> 0.15

From 25 observations 1993 Nov. 6–Dec. 19, mean residual 0''.75.

**1993 VC**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>
<i>n</i>	0.21343886	$\omega$ 176.86876	+0.50549909 -0.86139700
<i>a</i>	2.7730246	$\Omega$ 242.76172	+0.79040995 +0.48538447
<i>e</i>	0.5333737	<i>i</i> 3.20169	+0.34600980 +0.14965668
<i>P</i>	4.62	<i>H</i> 20.5	<i>G</i> 0.15

From 23 observations 1993 Nov. 8–1994 Jan. 4, mean residual 0''.32.

**1993 VG = 1976 JO<sub>6</sub> = 1988 WK = 1990 DG<sub>4</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams		Nakano	
<i>M</i>	(2000.0)	<b>P</b>	<b>Q</b>		
<i>n</i>	0.19798707	$\omega$ 358.38809	+0.74920853 -0.66157335		
<i>a</i>	2.9154896	$\Omega$ 43.08825	+0.60819841 +0.66820785		
<i>e</i>	0.0235029	<i>i</i> 2.66291	+0.26226185 +0.34032187		
<i>P</i>	4.98	<i>H</i> 12.3	<i>G</i> 0.15		

Residuals in seconds of arc

760503	809	0.2-	0.5-	881202	399	1.9-	1.0+	900301	809	0.5+	0.8+
881114	399	1.5+	0.9-	881202	399	1.4-	1.5-	931107	399	1.5+	0.5+
881114	399	(3.9-	1.5+)	900227	809	0.4-	0.6-	931107	399	1.2-	1.4+
881117	399	1.5+	2.1-	900227	809	0.2-	0.7-	931109	399	1.1-	1.3+

881117 399	1.7+	1.0-	900227 809	0.1+	0.7-	931109 399	0.0	1.4+
881117 399	0.9+	1.3-	900301 809	0.1-	0.5+	931206 399	0.4-	0.6+
881117 399	0.6-	0.1-	900301 809	0.1+	0.6+	931206 399	0.2-	0.3+

**1993 VK = 1970 SK = 1978 EG<sub>1</sub> = 1981 RM<sub>4</sub> = 1981 SZ<sub>3</sub> = 1983 AX<sub>4</sub>  
= 1992 OV<sub>9</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5									Nakano		
<i>M</i>	60.02972		(2000.0)		<b>P</b>		<b>Q</b>				
<i>n</i>	0.17521716	$\omega$	32.45127	+0.98632605	-0.15309449						
<i>a</i>	3.1628963	$\Omega$	336.12875	+0.09955148	+0.84851039						
<i>e</i>	0.1038734	<i>i</i>	8.67189	+0.13134085	+0.50654930						
<i>P</i>	5.63	<i>H</i>	11.5	<i>G</i>	0.15						
Residuals in seconds of arc											
700927 095	0.4+	2.3-	920729 809	1.2-	0.7+	931109 399	0.6+	0.4+			
701001 095	(1.9-	3.8-)	920729 809	1.2-	0.5+	931109 399	0.4+	1.0+			
780305 095	0.4+	1.3+	920730 809	0.0	0.7+	931206 399	0.7-	0.7-			
810905 095	0.6+	1.1+	920730 809	0.4+	0.5+	931206 399	1.6-	0.8-			
810925 095	1.0+	0.8-	920730 809	0.3+	0.5+	931215 399	0.2+	0.7-			
830114 095	0.1+	2.6+	931107 399	0.5+	0.7+	931215 399	0.2-	0.6-			
920729 809	1.3-	0.7+	931107 399	0.9+	0.6+						

**1993 VO**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5									Williams		
<i>M</i>	28.08385		(2000.0)		<b>P</b>		<b>Q</b>				
<i>n</i>	0.25123060	$\omega$	178.15559	+0.89724772	-0.43808410						
<i>a</i>	2.4874500	$\Omega$	208.03229	+0.40357956	+0.86429201						
<i>e</i>	0.2182393	<i>i</i>	6.72496	+0.17908117	+0.24714700						
<i>P</i>	3.92	<i>H</i>	13.5	<i>G</i>	0.15						

From 27 observations 1993 Oct. 10-1994 Jan. 2, mean residual 0".63.

**1993 VQ = 1976 HB<sub>1</sub> = 1980 BD<sub>5</sub> = 1983 VG<sub>6</sub> = 1989 AS<sub>7</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5									Kobayashi		
<i>M</i>	198.63021		(2000.0)		<b>P</b>		<b>Q</b>				
<i>n</i>	0.19927562	$\omega$	209.09122	-0.58811154	+0.80856297						
<i>a</i>	2.9029080	$\Omega$	24.90002	-0.73317302	-0.52321468						
<i>e</i>	0.0104274	<i>i</i>	2.54942	-0.34144126	-0.26920686						
<i>P</i>	4.95	<i>H</i>	12.4	<i>G</i>	0.15						
Residuals in seconds of arc											
760430 808	1.1-	0.7-	931111 399	1.3-	0.4-	931118 411	0.4+	0.0			
760430 808	0.6+	0.3-	931114 411	0.1-	0.3-	931118 411	0.8+	1.1+			
800122 095	0.3+	0.4+	931114 411	0.4+	0.8-	931204 411	0.5+	0.5+			
831109 033	0.2+	0.2+	931114 411	0.6+	1.3-	931204 411	0.4-	1.7+			
831110 033	0.0	0.0	931115 411	0.4+	0.1+	931204 411	1.0+	0.8+			
890109 033	0.3-	1.0-	931115 411	0.0	0.4+	931211 411	0.4-	0.5-			
890109 033	0.1-	0.7-	931115 411	0.2+	0.0	931211 411	0.1-	0.1-			
931111 399	0.8-	0.7-	931118 411	0.5-	0.3+	931211 411	0.2-	0.9-			

**1993 VW**

Id. E. Bowell (1982 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5									Williams		
<i>M</i>	355.75375		(2000.0)		<b>P</b>		<b>Q</b>				
<i>n</i>	0.44642936	$\omega$	280.90942	-0.87615029	-0.46740607						
<i>a</i>	1.6955121	$\Omega$	231.33422	+0.47979396	-0.82203384						
<i>e</i>	0.4844531	<i>i</i>	8.68221	+0.04645897	-0.32525673						
<i>P</i>	2.21	<i>H</i>	16.5	<i>G</i>	0.15						

Residuals in seconds of arc											
821115 688	0.1-	0.5-	931119 557	0.1-	0.0	931202 107	0.0	1.1+			
821115 688	0.1+	0.9+	931119 557	0.0	0.2-	931202 107	0.4+	0.2+			
931020 675	0.4+	0.2-	931119 557	0.1+	0.4-	931204 107	0.2+	0.1+			
931020 675	0.6+	0.2+	931119 557	0.3+	0.1-	931204 107	0.1+	0.2-			
931109 675	1.7+	0.5-	931119 670	1.1-	0.4-	931213 801	0.7-	0.7-			
931109 675	(1.4+	3.3+)	931119 670	0.5+	0.5-	931213 801	0.8-	1.0-			
931110 675	1.4-	0.1-	931119 670	0.7+	0.2+	931214 675	1.0+	0.5-			
931110 675	1.1-	1.7+	931119 557	0.0	0.2-	931214 675	0.3+	0.9+			
931115 675	(2.4-	11.7-)	931119 557	0.1-	0.4-	931216 675	0.7+	0.9+			
931115 675	(1.5+	9.7-)	931119 557	0.1-	0.3-	931216 675	1.5+	0.8+			
931116 675	(1.8+	6.9-)	931120 557	0.0	0.1-	931217 801	0.3-	0.2-			
931116 675	(7.5-	5.4-)	931123 658	0.0	0.3+	931217 801	0.6-	0.9-			
931118 657	0.2+	0.4-	931123 658	0.1+	0.5+	931217 413	0.0	0.4-			
931118 657	0.5-	0.0	931123 658	0.1+	0.4+	931218 385	0.3-	0.1+			
931118 657	0.2-	0.0	931123 108	(0.2-	3.2+)	931218 385	0.9-	0.1+			
931118 402	(1.7+	6.2+)	931123 108	(2.6-	1.2-)						
931118 402	0.9-	0.5-	931123 108	0.1+	0.1-						

**1993 VR<sub>2</sub> = 1959 XH = 1976 YL<sub>4</sub> = 1992 KS**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5									Nakano		
<i>M</i>	69.52644		(2000.0)		<b>P</b>		<b>Q</b>				
<i>n</i>	0.23193194	$\omega$	104.92479	+0.97502125	+0.12406435						
<i>a</i>	2.6235882	$\Omega$	248.22291	-0.17918066	+0.92951067						
<i>e</i>	0.1869452	<i>i</i>	11.44287	+0.13125489	+0.34730096						
<i>P</i>	4.25	<i>H</i>	12.6	<i>G</i>	0.15						

Residuals in seconds of arc											
591201 024	2.8-	3.4+	920530 675	0.7-	0.1+	931115 365	2.5-	0.2-			
761218 095	1.6+	3.2+	920530 675	0.4-	0.7+	931116 365	0.1+	0.4+			
761220 095	4.3+	1.4+	931111 400	0.3+	0.8+	931116 365	3.1+	0.2-			
920527 675	0.2+	0.3+	931111 400	2.8-	1.6-	931207 365	0.5-	2.7-			
920528 675	0.7+	0.5+	931115 365	0.3-	1.2+	931207 365	0.1+	3.6-			

**1993 VL<sub>3</sub> = 1990 DO<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5									Williams		
<i>M</i>	322.35955		(2000.0)		<b>P</b>		<b>Q</b>				
<i>n</i>	0.19863427	$\omega$	20.83152	-0.39040264	-0.91875074						
<i>a</i>	2.9091533	$\Omega$	92.18664	+0.83610040	-0.38065594						
<i>e</i>	0.0183010	<i>i</i>	3.38579	+0.38538538	-0.10487199						
<i>P</i>	4.96	<i>H</i>	12.5	<i>G</i>	0.15						

Residuals in seconds of arc											
900221 046	0.2+	0.7-	931111 399	1.6+	0.4-	931121 691	0.6+	0.3-			
900221 046	0.0	0.1-	931111 399	0.1+	0.7-	931121 691	0.3+	0.4-			
900222 046	0.3+	0.4-	931116 399	0.3-	0.5+	931121 691	0.8+	0.6-			
900222 046	0.4-	1.2+	931116 399	3.1-	1.9+						

**1993 VR<sub>3</sub> = 1978 EJ<sub>1</sub> = 1987 SC<sub>25</sub> = 1987 UN<sub>7</sub> = 1989 AW<sub>2</sub> = 1992 OC<sub>7</sub>**

Id. S. Nakano, A. Lowe, N. S. Chernykh (d)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	2.29635	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.17728231	$\omega$ 125.88643	+0.20531430	-0.97726433	
<i>a</i>	3.1382854	$\Omega$ 312.17592	+0.87335319	+0.20735036	
<i>e</i>	0.1542999	<i>i</i> 4.09486	+0.44170153	+0.04427479	
<i>P</i>	5.56	<i>H</i> 12.0	<i>G</i> 0.15		

Residuals in seconds of arc

780305 095	1.7-	0.3-	920726 809	2.4+	1.6-	920806 675	0.4+	2.2-
870923 095	1.0-	0.5-	920730 809	0.6+	0.8+	931111 399	0.0	0.5+
871023 095	2.5+	2.0+	920730 809	1.2-	1.0+	931111 399	0.7-	0.0
881229 413	0.4-	0.1-	920730 809	0.5-	1.0+	931116 399	0.2-	0.2-
881229 413	2.5+	1.4-	920731 809	0.1-	0.1+	931116 399	0.1-	0.5+
890104 413	0.8-	0.0	920731 809	0.8-	0.5-	931206 399	0.8-	0.6-
890104 413	0.2+	1.1-	920731 809	1.0-	0.4-	931206 399	0.1-	0.1-
920726 809	(3.8+	2.2-)	920806 675	0.8+	1.3-			

**1993 VZ<sub>4</sub> = 1989 TE<sub>14</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	54.39492	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.26137971	$\omega$ 347.55714	+0.95419055	-0.29881373	
<i>a</i>	2.4226358	$\Omega$ 29.84283	+0.27706021	+0.86327912	
<i>e</i>	0.1991813	<i>i</i> 1.74927	+0.11295146	+0.40676714	
<i>P</i>	3.77	<i>H</i> 13.7	<i>G</i> 0.15		

Residuals in seconds of arc

891001 809	0.2+	0.1-	891002 809	0.2-	0.0	931209 408	0.4-	0.3+
891001 809	0.6+	0.1-	931114 408	0.4-	0.1+	931209 408	0.1+	0.5-
891001 809	1.1+	0.0	931114 408	0.7+	0.5+	931218 408	0.3-	0.0
891002 809	0.9-	0.2+	931115 408	0.6-	0.2+	931218 408	0.6+	0.1+
891002 809	0.7-	0.1-	931115 408	0.3+	0.6-			

**1993 VJ<sub>5</sub> = 1989 SD<sub>5</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	347.25432	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.25022038	$\omega$ 340.57298	+0.10293687	-0.99226846	
<i>a</i>	2.4941406	$\Omega$ 103.47129	+0.92178164	+0.06896548	
<i>e</i>	0.1167507	<i>i</i> 4.08845	+0.37379487	+0.10318465	
<i>P</i>	3.94	<i>H</i> 14.5	<i>G</i> 0.15		

Residuals in seconds of arc

890926 809	0.1+	0.9+	890928 809	0.2-	0.8-	931018 033	0.3+	0.7-
890926 809	0.0	1.3+	891003 809	0.1+	0.7-	931111 033	0.5-	0.4+
890926 809	0.0	0.8+	891003 809	0.6-	0.0	931111 033	0.1-	0.0
890928 809	0.8+	0.1-	891003 809	0.5-	0.6-	931112 033	0.3+	0.5+
890928 809	0.1+	0.4-	931017 033	0.1+	0.5-			

**1993 VM<sub>5</sub> = 1954 UM<sub>2</sub> = 1965 SK = 1982 VG<sub>9</sub> = 1985 GG**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	346.66356	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.17534459	$\omega$ 16.37617	+0.56351957	-0.80324360	
<i>a</i>	3.1613637	$\Omega$ 39.90343	+0.72018878	+0.36323390	
<i>e</i>	0.1808003	<i>i</i> 17.50836	+0.40468977	+0.47208140	
<i>P</i>	5.62	<i>H</i> 12.0	<i>G</i> 0.15		

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

541028 760	2.2+	1.2-	650930 095	0.3+	0.3-	931106 413	0.4+	0.2+
541028 760	2.4+	1.9-	821110 095	(4.2+	0.8-)	931106 413	0.9+	1.2-
541116 760	(0.00-	0.03-)	850414 688	0.7-	0.9-	931111 413	1.1+	0.9-
541116 760	(0.00-	0.03-)	850414 688	0.6-	1.1-	931211 413	0.2-	0.6-
541117 760	1.6-	0.6+	850423 688	1.8-	2.1-	931216 413	0.8-	0.2+
541117 760	0.7-	1.0-	850423 688	1.6-	1.9-			

**1993 WD = 1991 VJ<sub>14</sub>**

Id. C. S. Shoemaker

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	339.65458	(2000.0)	<b>P</b>	<b>Q</b>	
<i>n</i>	0.97590333	$\omega$ 132.31966	-0.64644018	-0.15601686	
<i>a</i>	1.0066184	$\Omega$ 56.59283	-0.61191983	-0.47864443	
<i>e</i>	0.2666999	<i>i</i> 63.46467	+0.45570737	-0.86403602	
<i>P</i>	1.01	<i>H</i> 16.5	<i>G</i> 0.15		

Residuals in seconds of arc

911113 675	0.5-	0.5+	931124 670	0.9-	0.9+	931201 670	(0.4+	2.1-)
911113 675	1.2+	0.9-	931124 670	0.8-	1.4+	931201 670	1.1+	0.6+
931119 675	(4.5-	0.2-)	931124 670	1.0+	0.9+	931201 670	0.3+	0.1-
931119 675	(1.4+	3.3-)	931125 816	0.4-	0.3+	931203 108	0.7+	0.0
931119 675	(3.4-	0.7-)	931125 816	0.2-	0.2-	931203 108	1.1+	0.7-
931119 675	0.9-	1.8-	931126 816	0.2-	0.2-	931203 108	(3.8+	1.0-)
931119 675	(2.4-	1.1-)	931126 816	0.1-	0.0	931203 108	1.1+	0.2-
931119 675	1.1+	0.6+	931126 816	0.1-	0.3+	931204 540	0.2-	0.9-
931120 675	(6.1-	2.1+)	931126 816	0.4+	0.1+	931204 540	0.7+	0.1-
931120 675	0.1-	0.9-	931126 816	0.4+	0.3-	931204 540	0.3-	0.5+
931120 675	(3.6-	1.0-)	931126 816	0.2+	0.6-	931204 540	0.4+	0.8-
931120 675	0.4+	2.0-	931126 816	0.5+	0.3+	931205 557	0.3+	0.1+
931120 675	(3.3-	0.4-)	931126 816	0.5+	0.6-	931205 557	0.5+	0.1+
931120 675	0.7+	1.0-	931126 816	0.3+	0.6-	931205 557	0.5+	0.1+
931120 413	0.2+	0.2-	931126 540	0.3-	0.5-	931205 557	0.4+	0.1+
931120 413	0.7-	2.0+	931126 540	1.1+	1.1-	931206 540	0.3-	0.8+
931122 413	1.6-	0.4+	931126 540	0.1+	0.1+	931206 540	0.2-	1.0-
931122 413	1.7-	0.6-	931126 540	0.6-	0.9+	931206 540	1.2-	1.5-
931123 411	0.4+	0.1-	931126 540	1.3-	1.3-	931206 540	0.5+	0.4+
931123 411	0.2+	1.3+	931127 108	0.3-	0.5-	931211 557	0.1-	0.1-
931123 411	0.7+	0.0	931127 108	1.4+	0.2+	931211 557	0.2-	0.2-
931123 385	0.5-	0.2+	931127 108	0.1-	1.4+	931211 557	0.4-	0.2-
931123 385	0.3-	0.1+	931127 108	1.0-	0.4+	931211 557	0.1-	0.2-
931123 385	1.5-	1.0+	931127 108	0.2+	0.1-	931212 801	0.2-	0.1+
931123 108	(2.9-	1.1+)	931127 108	1.3+	0.5+	931212 801	0.3+	0.4-
931123 108	0.4+	0.2+	931128 385	0.7-	0.1+	931215 557	0.5-	0.0
931123 108	(0.7-	4.1+)	931128 385	0.5-	0.1+	931215 557	0.6-	0.1+
931123 108	1.7-	0.8+	931128 385	0.4-	0.1-	931215 557	0.6-	0.1-
931123 108	1.1+	0.0	931128 385	0.6-	0.1-	931215 557	0.6-	0.1-
931123 108	0.4+	0.5+	931130 540	0.0	0.1+	931217 801	0.4-	0.0
931123 108	0.3+	1.0-	931130 540	0.5-	0.2+	931217 801	0.9-	0.1-
931124 670	(2.4-	1.1+)	931130 540	0.1+	0.2+	931218 385	0.4+	0.1+
931124 670	1.0+	0.3+	931130 540	0.4+	0.8+	931218 385	0.2+	0.4-
931124 670	0.1+	0.1-	931201 670	1.6+	0.0			

**1993 WQ = 1985 YM**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Nakano	
<i>M</i>		<i>P</i>	<i>Q</i>		
<i>n</i>	0.24175719	$\omega$	359.38178	+0.68091088	-0.72944279
<i>a</i>	2.5520144	$\Omega$	47.70091	+0.67231170	+0.58718061
<i>e</i>	0.2258612	<i>i</i>	5.07067	+0.29044338	+0.35090192
<i>P</i>	4.08	<i>H</i>	13.4	<i>G</i>	0.15

Residuals in seconds of arc

851218	688	0.7+	1.1-	931122	408	0.1-	0.2+	931204	408	0.1-	0.4-
851218	688	0.6-	0.9+	931122	408	0.1+	0.1-	931205	408	0.5+	0.3-
860111	688	1.4-	0.1-	931204	408	0.1+	0.1+	931205	408	0.3-	0.1+
860111	688	1.4+	0.3+	931204	408	0.4-	0.3+	931205	408	0.2+	0.2+

**1993 XA = 1980 TU<sub>10</sub> = 1992 OQ<sub>8</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Williams	
<i>M</i>		<i>P</i>	<i>Q</i>		
<i>n</i>	0.23682946	$\omega$	264.71758	+0.99316285	+0.09417244
<i>a</i>	2.5872927	$\Omega$	89.86610	-0.05927296	+0.91591247
<i>e</i>	0.1842454	<i>i</i>	3.95578	-0.10056977	+0.39017418
<i>P</i>	4.16	<i>H</i>	14.0	<i>G</i>	0.15

Residuals in seconds of arc

801008	095	0.0	0.0	931205	589	0.1+	0.5-	931217	589	0.2-	0.4-
920723	809	0.4-	0.4-	931206	589	1.2+	0.5+	931217	589	0.4-	0.4-
920723	809	0.3+	0.1+	931206	589	2.4+	0.1-	931218	589	0.0	0.3-
920723	809	0.8+	0.3+	931206	595	0.2+	0.5-	931218	589	0.2-	0.0
920726	809	0.4-	0.1+	931206	595	0.4+	0.2-	931218	589	0.1-	0.6-
920726	809	0.2-	0.2+	931206	589	0.1+	0.2+	931222	589	0.1-	0.5-
920726	809	0.1-	0.3+	931206	589	0.1+	0.1+	931222	589	0.0	0.3+
931204	589	0.4+	0.0	931206	589	0.1-	0.0	940107	589	0.4-	0.8+
931204	589	0.2+	0.2+	931209	589	0.1+	0.4+	940107	589	1.1-	0.1-
931204	589	0.6+	0.2+	931209	589	0.6-	0.1+	940107	589	0.1-	0.9+
931204	589	0.1+	0.1-	931212	589	0.2-	0.1-	940112	589	1.0-	0.9+
931204	589	0.0	0.1-	931212	589	0.2-	0.5+	940112	589	0.7-	0.1-
931205	589	0.5+	0.6-	931212	589	0.2-	0.0	940112	589	1.1-	0.4-

**1993 XD = 1989 TU<sub>13</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Williams	
<i>M</i>		<i>P</i>	<i>Q</i>		
<i>n</i>	0.27882860	$\omega$	227.30494	+0.95625931	-0.28670898
<i>a</i>	2.3204801	$\Omega$	149.22231	+0.29040915	+0.90671147
<i>e</i>	0.1219530	<i>i</i>	6.51026	+0.03508081	+0.30930933
<i>P</i>	3.53	<i>H</i>	14.5	<i>G</i>	0.15

Residuals in seconds of arc

891002	809	1.2-	1.1-	931205	595	0.4+	0.1-	931212	595	1.4-	0.5+
891002	809	1.0-	0.8-	931205	595	0.3+	0.0	931217	595	0.3+	0.0
891002	809	0.9-	0.8-	931206	595	0.3+	0.0	931217	595	0.4+	0.1-
891002	809	0.9+	1.5+	931206	595	0.5+	0.4-	940118	595	0.9-	0.5+
891003	809	1.0+	1.0+	931211	595	0.1+	0.3-	940118	595	0.4+	0.3+
891003	809	1.2+	0.4+	931211	595	0.2+	0.3-				
931205	595	0.6-	0.1-	931212	595	0.2-	0.0				

**1993 XE = 1941 WE = 1950 PY = 1977 SO<sub>3</sub> = 1977 VR<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Nakano	
<i>M</i>		<i>P</i>	<i>Q</i>		
<i>n</i>	0.18988805	$\omega$	337.21219	+0.83292930	-0.52758270
<i>a</i>	2.9978113	$\Omega$	55.69678	+0.53375258	+0.68628232
<i>e</i>	0.1019557	<i>i</i>	11.66268	+0.14607175	+0.50067261
<i>P</i>	5.19	<i>H</i>	11.5	<i>G</i>	0.15

Residuals in seconds of arc

411117	020	(31.4+ 65.5+)X	931204	408	0.8-	1.8-	931209	408	0.6+	0.2+	
500813	839	0.1-	0.7+	931204	408	0.5-	0.2+	931211	408	0.8-	0.3-
500813	839	0.1+	1.2-	931205	408	0.3-	0.6+	931211	408	0.7+	1.9-
770923	095	1.0-	0.4-	931205	408	1.7+	0.6+	931218	408	0.4+	0.3+
771104	330	0.7+	0.7+	931209	408	0.1+	1.1+	931218	408	0.8-	0.3+

**1993 XF = 1979 WO<sub>6</sub> = 1982 JC<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Nakano	
<i>M</i>		<i>P</i>	<i>Q</i>		
<i>n</i>	0.21527801	$\omega$	269.04317	+0.90938347	-0.41268503
<i>a</i>	2.7572085	$\Omega$	115.32887	+0.40087421	+0.83609267
<i>e</i>	0.0859380	<i>i</i>	3.30343	+0.11100257	+0.36144172
<i>P</i>	4.58	<i>H</i>	12.9	<i>G</i>	0.15

Residuals in seconds of arc

791117	095	0.0	0.1-	820517	675	0.5-	0.2+	931209	408	0.7-	0.4+
820515	675	1.4+	1.4-	820518	675	0.6+	1.8+	931209	408	0.4-	0.5+
820516	675	0.0	1.4-	931204	408	0.9-	0.1+	931211	408	1.0+	0.8-
820516	675	1.5-	0.8+	931205	408	1.2+	0.4+	931211	408	0.2-	0.5-

**1993 XJ = 1986 TE<sub>12</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Nakano	
<i>M</i>		<i>P</i>	<i>Q</i>		
<i>n</i>	0.29014060	$\omega$	178.57405	+0.66563717	-0.74179261
<i>a</i>	2.2597673	$\Omega$	229.68634	+0.68362976	+0.64999045
<i>e</i>	0.1069945	<i>i</i>	6.14894	+0.29929503	+0.16509435
<i>P</i>	3.40	<i>H</i>	13.0	<i>G</i>	0.15

Residuals in seconds of arc

861004	095	0.1+	0.5+	931208	411	0.1+	0.0	931211	894	0.7+	0.3-
861005	095	0.1-	1.9+	931209	411	0.1-	0.5+	931211	894	0.7-	1.1-
861007	095	0.1+	2.4-	931209	411	0.1-	0.4+	931214	894	0.3+	0.2+
931208	411	0.1+	0.1+	931209	411	0.0	0.6+	931214	894	0.5-	0.3-

**1993 XP = 1986 CC<sub>1</sub> = 1990 AT**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Kobayashi	
<i>M</i>		<i>P</i>	<i>Q</i>		
<i>n</i>	0.24269393	$\omega$	205.68630	-0.38952607	-0.89616155
<i>a</i>	2.5454434	$\Omega$	267.85652	+0.87743903	-0.29094667
<i>e</i>	0.1123131	<i>i</i>	12.27868	+0.27994675	-0.33502913
<i>P</i>	4.06	<i>H</i>	13.2	<i>G</i>	0.15

Residuals in seconds of arc

860203	054	0.2-	0.2-	931211	411	0.3-	0.0	931223	411	0.3-	0.5+
900102	511	0.4+	0.4-	931215	411	1.2+	0.1-	940107	411	0.2-	0.3-
900102	511	0.0	0.5+	931215	411	0.3-	0.1-	940107	411	0.5+	0.1+
931208	411	0.4+	1.1-	931215	411	0.5-	0.2-	940107	411	0.8+	0.3+
931208	411	0.5-	0.2+	931223	411	0.8-	0.3-				
931211	411	0.3-	0.7+	931223	411	0.2+	0.4+				

**1993 XX = 1952 KU = 1981 RO<sub>2</sub> = 1982 YJ = 1987 VO<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Ichikawa

<i>M</i>	88.23740	(2000.0)	<b>P</b>		<b>Q</b>
<i>n</i>	0.17828229	$\omega$ 79.16387	+0.97558434	+0.09782224	
<i>a</i>	3.1265395	$\Omega$ 275.01018	-0.17179683	+0.89768535	
<i>e</i>	0.0899332	<i>i</i> 11.38443	+0.13682490	+0.42964151	
<i>P</i>	5.53	<i>H</i> 11.1	<i>G</i> 0.15		

Residuals in seconds of arc

520524	711	0.9-	1.9-	Y	931207	886	1.5+	0.1+	931215	894	0.9-	0.4+
810907	095	1.2-	0.8+		931207	886	0.2+	0.2-	931215	894	1.5-	0.6+
810927	095	0.5-	1.3-		931211	886	2.4+	1.1+	931218	886	0.1+	0.2+
821218	801	1.1-	1.0-		931211	886	0.0-	2.0+	Y 931218	886	1.0+	0.3-
871113	327	1.6+	0.0		931214	894	0.6-	2.1-				
871113	327	0.5+	1.1-		931214	894	2.1-	1.4-				

**1993 XB<sub>1</sub> = 1982 BO<sub>7</sub> = 1991 JT<sub>6</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Kobayashi

<i>M</i>	275.71700	(2000.0)	<b>P</b>		<b>Q</b>
<i>n</i>	0.24002262	$\omega$ 118.90346	-0.92528208	+0.36225837	
<i>a</i>	2.5642947	$\Omega$ 82.52534	-0.37532804	-0.83190208	
<i>e</i>	0.0651712	<i>i</i> 6.50618	-0.05460713	-0.42036628	
<i>P</i>	4.11	<i>H</i> 13.5	<i>G</i> 0.15		

Residuals in seconds of arc

820126	381	0.2-	0.6+		931212	411	1.6+	1.3+	931223	411	0.0	0.4+
820126	381	0.4+	0.2+		931212	411	0.1+	0.1+	931223	411	0.2-	0.2+
910512	809	0.3+	0.1-		931214	411	0.1-	0.6-	940102	411	0.3+	0.5-
910512	809	0.7-	0.3-		931214	411	0.2+	0.3-	940102	411	1.4-	0.8-
910512	809	0.2+	0.1-		931214	411	0.0	0.3+	940102	411	0.5-	0.8-
931212	411	0.3+	0.2+		931223	411	0.1-	0.8-				

**1993 XC<sub>1</sub> = 2045 T-1 = 1992 PV<sub>6</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	109.77401	(2000.0)	<b>P</b>		<b>Q</b>
<i>n</i>	0.20252860	$\omega$ 210.90902	+0.84646458	+0.53022906	
<i>a</i>	2.8717401	$\Omega$ 116.99334	-0.47670633	+0.79529546	
<i>e</i>	0.0699978	<i>i</i> 3.12187	-0.23716828	+0.29387459	
<i>P</i>	4.87	<i>H</i> 12.5	<i>G</i> 0.15		

Residuals in seconds of arc

710324	675	1.6-	0.1+		931111	033	0.0	0.8-	931205	046	0.5+	0.6+
710325	675	0.7+	0.5-		931112	033	1.0-	0.4-	931209	408	0.4-	0.2-
710325	675	0.6+	0.1+		931112	033	0.2+	0.7-	931209	408	0.2+	2.2+
710326	675	0.4+	0.1-		931113	033	0.3+	0.7-	931211	408	1.0+	1.5-
710327	675	0.7-	1.2-		931205	408	1.5-	0.7+	931211	408	0.3+	0.1-
920802	675	0.6+	0.2-		931205	408	0.1-	0.9-				
920802	675	0.1-	1.3-		931205	046	0.7+	0.7+				

**1993 XD<sub>1</sub> = 1981 QK<sub>4</sub> = 1987 TW**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Ichikawa

<i>M</i>	38.71230	(2000.0)	<b>P</b>		<b>Q</b>
<i>n</i>	0.17419778	$\omega$ 188.37992	+0.86492429	-0.50181899	
<i>a</i>	3.1752235	$\Omega$ 201.74789	+0.46190566	+0.80299537	
<i>e</i>	0.2408658	<i>i</i> 1.41458	+0.19633932	+0.32152159	
<i>P</i>	5.66	<i>H</i> 12.5	<i>G</i> 0.15		

Residuals in seconds of arc

810830	675	0.5-	0.4+		931205	408	1.1-	1.0-	931211	408	0.9+	2.0-
810831	675	0.4+	0.1+		931209	408	0.6+	1.2+	931218	408	0.2-	0.2-
871002	095	0.2+	0.5-		931209	408	0.3+	0.0	931218	408	0.3+	1.0+
931205	408	0.7-	0.0		931211	408	0.1-	1.5+				

**1993 XG<sub>1</sub> = 1930 UZ = 1987 SO<sub>14</sub> = 1992 SJ<sub>14</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	120.87326	(2000.0)	<b>P</b>		<b>Q</b>
<i>n</i>	0.19090504	$\omega$ 50.20389	+0.93764061	+0.31601568	
<i>a</i>	2.9871552	$\Omega$ 290.93696	-0.34699426	+0.82622146	
<i>e</i>	0.1065825	<i>i</i> 8.91829	-0.02061715	+0.46636059	
<i>P</i>	5.16	<i>H</i> 11.4	<i>G</i> 0.15		

Residuals in seconds of arc

301017	690	(32.6-	55.9-)	X	921002	675	0.1-	0.2-	931223	411	0.1-	0.7+
301019	690	(25.5-	79.8-)	X	931214	411	0.0	0.6-	931223	411	0.7+	0.3+
870923	095	0.4-	0.2+		931214	411	0.2-	0.3-	940107	411	0.2-	0.4+
870925	095	0.0	1.1+		931215	411	0.4-	0.5-	940107	411	0.0	0.1+
920930	675	0.0	0.7-		931215	411	0.1-	0.2+	940107	411	0.1+	0.0
920930	675	0.2+	0.3-		931215	411	0.1-	0.1-				
921002	675	0.4+	0.0		931223	411	0.1+	0.7-				

**1993 XK<sub>1</sub> = 1978 WR<sub>8</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Kobayashi

<i>M</i>	75.67463	(2000.0)	<b>P</b>		<b>Q</b>
<i>n</i>	0.20201464	$\omega$ 316.03333	+0.85366899	-0.51763325	
<i>a</i>	2.8766089	$\Omega$ 75.22278	+0.49275525	+0.76699537	
<i>e</i>	0.0583198	<i>i</i> 3.40861	+0.16864617	+0.37917532	
<i>P</i>	4.88	<i>H</i> 13.3	<i>G</i> 0.15		

Residuals in seconds of arc

781129	675	0.1-	0.1-		931215	411	0.1+	0.4+	940104	411	0.1-	0.1-
781130	675	0.1+	0.1+		931215	411	0.3+	0.1+	940104	411	0.2-	0.4+
931214	411	0.2+	0.1-		931223	411	0.4-	0.7+	940104	411	0.4+	0.7-
931214	411	0.7+	1.0-		931223	411	0.0	0.3+				
931215	411	1.3-	0.4+		931223	411	0.6+	0.4-				

**1993 XN<sub>1</sub> = 1991 LK**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Kobayashi

<i>M</i>	200.16575	(2000.0)	<b>P</b>		<b>Q</b>
<i>n</i>	0.23721622	$\omega$ 182.01534	+0.12147843	+0.95159788	
<i>a</i>	2.5844797	$\Omega$ 95.04502	-0.90667672	+0.22213332	
<i>e</i>	0.1509072	<i>i</i> 16.46429	-0.40395585	-0.21241058	
<i>P</i>	4.15	<i>H</i> 12.3	<i>G</i> 0.15		

Residuals in seconds of arc

910614	675	0.2-	0.2-		931215	411	0.1+	0.7+	940107	411	0.8-	1.0-
910614	675	0.0	0.1-		931215	411	0.3-	0.2-	940107	411	0.6+	0.1+
910617	675	0.0	0.5+		931217	411	0.8+	1.2+	940107	411	0.2-	0.6+
910617	675	0.2+	0.2-		931217	411	0.3-	1.1-				
931215	411	0.1-	2.1-		931217	411	0.0	1.8+				

**1993 XR<sub>1</sub> = 1972 XS<sub>1</sub> = 1979 WU<sub>3</sub> = 1979 YA<sub>4</sub> = 1982 PK<sub>1</sub>  
= 1986 WU<sub>7</sub> = 1989 RH<sub>4</sub> = 1991 EW<sub>2</sub>**

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Epoch 1994 Feb. 17.0 TT = JDT 2449400.5					Nakano				
<i>M</i>	51.06162	(2000.0)			<b>P</b>	<b>Q</b>			
<i>n</i>	0.28317000	$\omega$	247.00746		+0.75417603	-0.65542525			
<i>a</i>	2.2967015	$\Omega$	153.88926		+0.63111873	+0.70643498			
<i>e</i>	0.1372120	<i>i</i>	5.27355		+0.18140470	+0.26714668			
<i>P</i>	3.48	<i>H</i>	13.4	<i>G</i>	0.15				

Residuals in seconds of arc

721201 095	(2.8- 6.3-)	890908 095	1.1+	0.0	931206 399	1.5-	0.8+
791116 095	0.4+ 2.0-	910311 809	0.2-	0.1+	931215 399	0.5-	0.6-
791218 095	0.2- 0.5+	910311 809	0.3+	0.2+	931215 399	1.5+	1.5-
820815 095	1.4- 1.0+	910311 809	0.7+	0.3+	940103 399	0.0	1.1+
861130 675	(8.7- 1.2+)	910313 809	0.1-	0.1-	940103 399	0.6-	0.7+
861130 675	(12.3- 1.5-)	910313 809	0.3-	0.3-	940105 399	1.2+	0.2-
861203 675	0.3+ 0.1-	910313 809	0.3-	0.2-	940105 399	0.9-	1.0+
861203 675	0.4+ 0.5+	931206 399	0.4-	0.4+			

**1993 XS<sub>1</sub> = 1931 UO = 1977 RG<sub>8</sub> = 1989 VZ<sub>1</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5					Nakano				
<i>M</i>	44.26857	(2000.0)			<b>P</b>	<b>Q</b>			
<i>n</i>	0.25555885	$\omega$	266.61913		+0.67190458	-0.73716386			
<i>a</i>	2.4592845	$\Omega$	140.85086		+0.71658948	+0.62258731			
<i>e</i>	0.1351249	<i>i</i>	6.51642		+0.18719975	+0.26262994			
<i>P</i>	3.86	<i>H</i>	12.7	<i>G</i>	0.15				

Residuals in seconds of arc

311017 690	7.0+ 1.9-	891124 095	0.5-	0.2+	940103 399	1.1+	0.4+
311018 690	7.5- 3.3+	931206 399	2.1-	1.7-	940103 399	0.5-	0.7+
770908 675	1.6- 1.3-	931206 399	0.1-	0.3-	940105 399	0.8+	0.7+
770908 675	2.0+ 0.3-	931206 399	0.2-	0.4-	940105 399	0.6-	0.1+
891106 095	0.4- 0.1+	931215 399	0.9+	0.4-			
891106 095	0.7+ 1.2+	931215 399	0.8+	1.6-			

**1993 YE = 1991 ES<sub>4</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5					Kobayashi				
<i>M</i>	6.04361	(2000.0)			<b>P</b>	<b>Q</b>			
<i>n</i>	0.28099068	$\omega$	316.26719		-0.28013672	-0.95992414			
<i>a</i>	2.3085615	$\Omega$	149.99833		+0.88525350	-0.26167448			
<i>e</i>	0.0844520	<i>i</i>	0.95234		+0.37128111	-0.10035995			
<i>P</i>	3.51	<i>H</i>	13.7	<i>G</i>	0.15				

Residuals in seconds of arc

910312 809	0.0 1.2+	910316 809	0.6-	0.2-	931221 411	0.6+	0.7+
910312 809	0.5+ 1.2+	910316 809	0.1-	0.2-	931221 411	0.5+	0.3-
910312 809	0.7+ 1.2+	931217 411	0.0	0.2-	931221 411	0.1+	0.0
910314 809	0.4- 1.2-	931217 411	0.3-	0.5-	940101 411	0.3-	0.7+
910314 809	0.3+ 1.0-	931218 411	0.0	0.6-	940101 411	0.5-	0.7+
910314 809	1.0+ 1.0-	931218 411	0.0	1.0-	940101 411	0.6-	0.7+
910316 809	1.5- 0.2-	931218 411	0.4+	0.4-			

**1993 YH = 1989 EK<sub>6</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5					Kobayashi				
<i>M</i>	241.69556	(2000.0)			<b>P</b>	<b>Q</b>			
<i>n</i>	0.18128486	$\omega$	145.26360		-0.45635254	+0.88876776			
<i>a</i>	3.0919207	$\Omega$	97.55044		-0.82585420	-0.40514936			
<i>e</i>	0.1101454	<i>i</i>	2.47609		-0.33122077	-0.21434986			
<i>P</i>	5.44	<i>H</i>	12.6	<i>G</i>	0.15				

Residuals in seconds of arc

890307 033	0.0 0.2+	931218 411	0.2-	0.8+	931223 411	0.3-	0.7-
890310 033	0.7- 0.7-	931218 411	1.0+	0.9-	940104 411	0.1-	0.4+
890310 033	0.7+ 0.5+	931218 411	0.1+	1.4-	940104 411	0.4-	0.2+
931217 411	0.7- 1.3+	931223 411	0.6-	1.7+	940104 411	0.5+	0.9-
931217 411	0.3- 0.1-	931223 411	0.9+	0.5-			

**1993 YJ = 1986 QJ**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5					Kobayashi				
<i>M</i>	71.09185	(2000.0)			<b>P</b>	<b>Q</b>			
<i>n</i>	0.30649353	$\omega$	91.27449		+0.88078750	-0.47038818			
<i>a</i>	2.1786552	$\Omega$	296.78740		+0.40665178	+0.81017806			
<i>e</i>	0.1812233	<i>i</i>	3.48723		+0.24258545	+0.34978059			
<i>P</i>	3.22	<i>H</i>	14.5	<i>G</i>	0.15				

Residuals in seconds of arc

860825 809	0.2- 0.6+	860827 809	2.0-	0.9-	931218 411	0.5-	1.0-
860825 809	0.0 0.4+	860828 809	1.8-	1.0-	931218 411	0.5-	0.1-
860825 809	0.5+ 0.6+	860828 809	1.6-	0.8-	931223 411	0.0	0.0
860826 809	0.2+ 0.4+	860829 809	0.4-	1.0+	931223 411	0.0	0.1+
860826 809	0.3+ 0.3+	860829 809	0.5+	1.1+	931223 411	0.2+	0.3-
860826 809	0.5+ 0.3+	860829 809	1.5-	1.1+	940107 411	0.2+	0.6+
860827 809	1.8+ 1.1-	931217 411	0.3+	0.2+	940107 411	0.6+	1.3+
860827 809	1.8+ 1.0-	931217 411	0.3+	0.1-	940107 411	0.9-	1.0-
860827 809	1.9+ 0.8-	931218 411	0.2+	0.3+			

**2079 P-L = 1953 GE<sub>2</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5					Bowell				
<i>M</i>	353.40208	(2000.0)			<b>P</b>	<b>Q</b>			
<i>n</i>	0.20932243	$\omega$	78.31745		+0.53956831	-0.84139168			
<i>a</i>	2.8092618	$\Omega$	338.94222		+0.73571768	+0.48875950			
<i>e</i>	0.0733869	<i>i</i>	4.85845		+0.40937212	+0.23059530			
<i>P</i>	4.71	<i>H</i>	13.5	<i>G</i>	0.15				

Residuals in seconds of arc

530415 675	0.0 0.5+	600928 675	0.5-	0.6+	601026 675	0.8-	0.6+
530415 675	0.0 0.5-	600929 675	0.2+	0.2-	931013 675	0.3+	0.6+
600924 675	0.7+ 0.3+	601022 675	0.5-	0.6+	931013 675	0.1-	0.1-
600926 675	0.0 0.7-	601025 675	0.6+	0.8-	931015 675	0.0	0.9-

**4025 P-L = 1993 TU<sub>18</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5					Williams				
<i>M</i>	349.88543	(2000.0)			<b>P</b>	<b>Q</b>			
<i>n</i>	0.29941762	$\omega$	236.97247		+0.27585523	-0.96042179			
<i>a</i>	2.2128458	$\Omega$	197.14170		+0.91982888	+0.27543886			
<i>e</i>	0.0658015	<i>i</i>	7.53527		+0.27896009	+0.04151403			
<i>P</i>	3.29	<i>H</i>	14.5	<i>G</i>	0.15				

Residuals in seconds of arc

600924 675	0.3+ 0.4-	601022 675	0.0	0.4+	931010 675	0.3-	0.2-
600925 675	0.2- 0.0	601024 675	0.2+	0.3+	931010 675	0.9+	0.6+
600926 675	0.2- 0.2-	601026 675	0.0	0.8-	931011 809	1.3+	1.1+
600928 675	0.0 0.1-	931009 809	1.2-	1.1-	931011 809	1.1+	1.2+
600928 675	0.1+ 0.6+	931009 809	1.6-	1.1-	931011 809	0.7+	0.2+
601017 675	0.2- 0.4+	931009 809	0.9-	0.9-			

**4038 P-L = 1993 RS<sub>4</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	299.40444	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.26852169	$\omega$ 178.13710	-0.51233534 -0.85849119
<i>a</i>	2.3794859	$\Omega$ 302.68176	+0.78757450 -0.45925417
<i>e</i>	0.1621737	<i>i</i> 1.53051	+0.34240169 -0.22820711
<i>P</i>	3.67	<i>H</i> 14.5	<i>G</i> 0.15

Residuals in seconds of arc

600924 675	1.3-	0.8-	601022 675	0.3+	0.0	930915 809	1.9-	0.5-
600925 675	0.7+	0.0	601024 675	0.9-	0.3-	930917 809	2.6+	0.7+
600926 675	0.2+	0.3+	601026 675	0.1+	0.0	930917 809	1.1+	0.1+
600928 675	0.3+	0.4+	930915 809	0.8+	0.4-	930917 809	0.8-	0.4+
601017 675	0.6+	0.4+	930915 809	1.8-	0.4-			

**4619 P-L = 1993 RK<sub>7</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	322.53105	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.29871267	$\omega$ 91.68442	-0.11690477 -0.99313910
<i>a</i>	2.2163259	$\Omega$ 5.03171	+0.89788397 -0.10690871
<i>e</i>	0.0970216	<i>i</i> 1.84866	+0.42442626 -0.04738414
<i>P</i>	3.30	<i>H</i> 15.5	<i>G</i> 0.15

Residuals in seconds of arc

600924 675	0.7-	1.2+	601022 675	0.1-	0.7-	930915 809	0.9+	1.3-
600926 675	0.7+	0.1-	601025 675	0.1-	0.6-	930917 809	0.9+	0.7+
600927 675	0.5-	1.5+	601026 675	0.5+	0.1+	930917 809	0.6-	0.6+
600928 675	0.8-	0.8+	930915 809	0.0	1.8-	930917 809	1.5-	0.0
600928 675	0.4-	0.6+	930915 809	1.8+	1.1-			

**6077 P-L = 1993 VF<sub>6</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	11.13048	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.18115459	$\omega$ 62.72013	+0.69323784 -0.72052859
<i>a</i>	3.0934029	$\Omega$ 343.36081	+0.63973988 +0.62550117
<i>e</i>	0.0818387	<i>i</i> 3.22716	+0.33189483 +0.29931060
<i>P</i>	5.44	<i>H</i> 14.0	<i>G</i> 0.15

Residuals in seconds of arc

600924 675	0.2-	0.5-	601024 675	0.1-	0.4+	931109 691	0.2+	0.0
600925 675	0.1-	0.4-	601026 675	0.0	0.8-	931109 691	0.1+	0.3-
600926 675	0.1-	0.1-	931109 691	0.7+	0.0	931111 691	0.8-	0.0
600928 675	0.3+	0.6+	931109 691	0.3+	0.1+	931111 691	0.6-	0.2+
601017 675	0.2+	0.9+	931109 691	0.5+	0.0	931111 691	0.6-	0.2+
601022 675	0.1+	0.0	931109 691	0.3+	0.2-			

**6103 P-L = 1993 TJ<sub>4</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	359.28529	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.18026987	$\omega$ 59.32760	+0.49641892 -0.86808192
<i>a</i>	3.1035158	$\Omega$ 0.91268	+0.76267810 +0.43535716
<i>e</i>	0.2186556	<i>i</i> 5.13687	+0.41459665 +0.23853285
<i>P</i>	5.47	<i>H</i> 14.5	<i>G</i> 0.15

Residuals in seconds of arc

600924 675	0.1+	0.4-	601024 675	0.2+	1.0-	931024 691	0.2+	0.0
600925 675	0.4-	0.4-	601026 675	0.2-	0.1-	931024 691	0.1+	0.1+
600926 675	0.5+	0.9-	931008 691	0.1-	0.1+	931108 691	0.2+	0.3-

600928 675	0.5+	0.6+	931008 691	0.3-	0.0	931108 691	0.1-	0.3-
601017 675	0.5-	1.8+	931008 691	0.2-	0.3+	931108 691	0.0	0.1-
601022 675	0.3-	0.4+	931024 691	0.3+	0.1+			

**6570 P-L = 1993 SY<sub>4</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	350.67584	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.26829964	$\omega$ 241.75988	+0.46132520 -0.88723094
<i>a</i>	2.3807986	$\Omega$ 180.76814	+0.82807426 +0.43079451
<i>e</i>	0.2087230	<i>i</i> 2.41541	+0.31854684 +0.16503741
<i>P</i>	3.67	<i>H</i> 15.0	<i>G</i> 0.15

Residuals in seconds of arc

600924 675	0.1-	0.7+	601022 675	1.2-	1.0-	930920 010	0.4-	0.1-
600926 675	0.7-	1.1-	601024 675	0.8+	0.5+	930920 010	0.6+	0.9+
600927 675	1.2+	0.4+	601026 675	0.7+	0.8+	930920 010	1.6-	0.8-
600928 675	0.5+	0.8-	930919 010	0.7+	0.2-			
601017 675	1.0-	0.1+	930919 010	0.5+	0.6+			

**2104 T-2 = 1993 RJ<sub>5</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	25.52164	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.19716695	$\omega$ 116.99902	+0.98878363 -0.14812797
<i>a</i>	2.9235687	$\Omega$ 251.52450	+0.12889790 +0.91095944
<i>e</i>	0.1144714	<i>i</i> 1.15425	+0.07544707 +0.38498183
<i>P</i>	5.00	<i>H</i> 14.5	<i>G</i> 0.15

Residuals in seconds of arc

730919 675	1.4+	0.1+	730929 675	0.1+	0.1+	731005 675	0.3+	0.5+
730919 675	0.1-	0.0	730929 675	1.2+	2.1+	930915 809	1.1+	1.4+
730920 675	0.3-	2.5-	730930 675	0.7+	0.8+	930915 809	0.4-	0.4+
730924 675	0.1+	0.4+	730930 675	0.2-	0.3+	930915 809	0.1-	0.8+
730924 675	0.4+	0.3+	731004 675	0.9+	0.1+	930917 809	0.7+	0.9-
730925 675	2.7-	0.0	731004 675	0.3-	0.0	930917 809	0.0	0.5-
730925 675	1.4-	0.6+	731005 675	0.4-	2.6-	930917 809	1.3-	1.3-

**4172 T-2 = 1993 VE<sub>8</sub>**

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	283.50248	(2000.0)	
		<b>P</b>	<b>Q</b>
<i>n</i>	0.25482978	$\omega$ 74.48854	-0.99724207 +0.02730986
<i>a</i>	2.4639729	$\Omega$ 107.03817	-0.05143389 -0.92464702
<i>e</i>	0.1459340	<i>i</i> 4.13910	+0.05350514 -0.37984479
<i>P</i>	3.87	<i>H</i> 14.5	<i>G</i> 0.15

Residuals in seconds of arc

730919 675	0.7+	0.3-	730929 675	0.1-	2.2-	731005 675	0.8+	1.2+
730919 675	0.8+	0.3-	730929 675	0.7+	1.9-	931111 033	0.9+	0.0
730920 675	1.6-	1.3+	730930 675	1.2+	0.5+	931112 033	0.6-	0.1-
730924 675	1.6-	1.1+	730930 675	0.7+	0.6+	931112 033	0.1+	0.4+
730924 675	0.5-	0.8+	731004 675	1.1+	1.1-	931113 033	0.4-	0.3-
730925 675	0.6-	0.1+	731004 675	1.0-	0.6-			
730925 675	0.7-	0.2-	731005 675	0.2+	0.9+			



3224 T-3 = 1993 TE<sub>15</sub>

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	0.30761441	$\omega$	241.26557	+0.68920164	-0.72441230		
<i>a</i>	2.1733596	$\Omega$	165.13665	+0.68361924	+0.64320362		
<i>e</i>	0.0293654	<i>i</i>	3.37404	+0.24013713	+0.24802402		
<i>P</i>	3.20	<i>H</i>	15.0	<i>G</i>	0.15		

Residuals in seconds of arc

771007 675	(2.1+ 2.6-)	771017 675	0.1+ 0.2+	771022 675	0.8+ 0.4-
771011 675	0.8- 0.1-	771017 675	0.4- 1.3+	771022 675	0.5+ 1.8-

771011 675	0.8+ 0.2-	771017 675	0.3- 0.0	771022 675	0.2- 0.1+
771012 675	0.6+ 0.4-	771017 675	0.5- 0.3+	931009 809	0.3+ 0.3+
771012 675	0.7- 0.8-	771021 675	(0.3- 2.5-)	931009 809	0.0 0.2-
771016 675	1.3+ 1.8-	771021 675	1.1- 1.9+	931009 809	0.2- 0.1+
771016 675	0.5- 0.8+	771021 675	(0.7+ 2.8-)	931011 809	0.9+ 0.3-
771016 675	0.9+ 0.5-	771021 675	(1.3- 2.5+)	931011 809	0.4- 0.4+
771016 675	0.3- 1.0+	771022 675	(3.0- 0.9-)	931011 809	0.7- 0.0

Object	<i>H</i>	Epoch	<i>M</i>	$\omega$	$\Omega$	<i>i</i>	<i>e</i>	<i>a</i>	Obs.	Opp.	Arc	rms	Computer	<i>MPC</i>	Object
1930 UX	14.0	940217	48.70737	57.06838	334.30104	4.73859	0.2042169	2.2993108	20	5	1930-1993	0.80	Williams	22822	1930 UX
1934 GA	11.5	940217	329.00680	77.13322	68.71000	24.59181	0.2134929	2.6580977	26	3	1934-1993	1.35	Nakano	22822	1934 GA
1936 NB	10.5	940217	223.43091	345.89521	298.39241	18.66935	0.2553363	3.0795819	15	4	1936-1993	0.92	Williams	22072	1936 NB
1943 DF	13.5	940217	55.71001	129.63897	359.68757	22.54714	0.3392192	2.3515525	33	4	1943-1992	0.83	Bowell	22429	1943 DF
1949 PN	11.0	940217	53.48626	7.27220	325.92316	11.97236	0.1743860	2.6762141	21	3	1949-1993	0.83	Williams	22822	1949 PN
1957 JP	12.0	940217	187.00873	212.51740	54.61771	14.10216	0.1391813	2.6357950	15	3	1957-1993	0.71	Williams	22822	1957 JP
1969 TR <sub>1</sub>	13.5	940217	73.10738	346.64823	353.31945	1.94684	0.2693775	2.2670660	57	4	1928-1993	0.99	Williams	22822	1969 TR <sub>1</sub>
1971 TY <sub>2</sub>	12.0	940217	247.01702	181.25547	280.71741	8.96725	0.2306816	2.7860684	20	3	1971-1993	0.91	Bardwell	21963	1971 TY <sub>2</sub>
1972 RF <sub>2</sub>	15.2	940217	69.26636	148.31777	187.24691	3.85171	0.2470783	2.2995249	14	6	1971-1993	1.27	Nakano	22822	1972 RF <sub>2</sub>
1972 TC	13.0	940217	29.68857	158.93492	247.49348	12.62479	0.1724442	2.5781008	13	2	1972-1993	0.46	Williams	22807	1972 TC
1973 EK	12.9	940217	252.89793	321.79383	197.77157	1.63088	0.0669406	2.7009929	12	5	1973-1993	0.63	Bowell	22822	1973 EK
1973 SF <sub>6</sub>	13.7	940217	91.90508	146.48530	180.58735	6.19326	0.1987453	2.2140251	30	3	1973-1993	0.85	Nakano	22822	1973 SF <sub>6</sub>
1975 RP	12.0	940217	73.43310	117.08769	195.00018	0.88921	0.1493574	3.2294156	44	5	1969-1993	0.97	Williams	21963	1975 RP
1975 XP <sub>3</sub>	14.0	940217	24.01352	58.84444	5.94434	2.91897	0.1306679	2.3508869	27	6	1975-1993	1.13	Williams	21964	1975 XP <sub>3</sub>
1976 SZ <sub>9</sub>	13.0	940217	357.04608	20.39257	11.92984	3.78482	0.2067670	3.1937701	30	4	1976-1993	0.90	Williams	22696	1976 SZ <sub>9</sub>
1976 YO <sub>2</sub>	14.0	940217	24.39422	351.73169	74.77767	11.07655	0.1350300	2.2686145	22	2	1976-1993	0.85	Williams	22807	1976 YO <sub>2</sub>
1976 YL <sub>3</sub>	13.0	940217	41.39688	228.28019	173.15526	2.43424	0.2142296	3.1847508	16	5	1953-1993	1.26	Williams	22222	1976 YL <sub>3</sub>
1977 AZ <sub>1</sub>	11.5	940217	348.95772	22.52628	90.29347	10.85090	0.1035338	3.2120008	14	5	1966-1993	1.27	Nakano	22681	1977 AZ <sub>1</sub>
1978 PX <sub>2</sub>	14.5	940217	48.71792	13.83658	344.36563	2.19535	0.1988401	2.3945221	24	3	1978-1993	0.68	Bowell	22696	1978 PX <sub>2</sub>
1978 PD <sub>3</sub>	14.0	940217	72.18041	44.89915	327.28571	6.20764	0.1207082	2.3571501	17	3	1978-1993	0.75	Williams	22823	1978 PD <sub>3</sub>
1978 RZ	13.0	940217	31.70403	249.38424	122.24715	3.00939	0.0802274	2.9058694	43	6	1971-1993	1.03	Williams	22823	1978 RZ
1978 RE <sub>3</sub>	15.0	940217	347.14551	82.14988	302.38528	1.56080	0.1883431	2.4421712	24	3	1978-1993	1.00	Williams	22823	1978 RE <sub>3</sub>
1978 RL <sub>7</sub>	13.5	940217	1.03217	162.99141	219.69977	1.06878	0.0733631	2.9112345	18	2	1978-1993	0.68	Williams	22587	1978 RL <sub>7</sub>
1978 TU <sub>8</sub>	12.5	940217	52.49268	177.03670	215.07821	1.58934	0.0650684	2.8909833	18	5	1978-1993	0.81	Williams	20806	1978 TU <sub>8</sub>
1978 VD <sub>7</sub>	14.3	940217	87.59552	331.67856	74.61051	3.12878	0.0742010	2.8359840	13	4	1949-1992	0.47	Bowell	22696	1978 VD <sub>7</sub>
1978 VE <sub>15</sub>	14.0	940217	64.69246	320.56768	74.15579	3.17931	0.2079650	2.3802216	27	4	1978-1993	1.14	Williams	22073	1978 VE <sub>15</sub>
1979 FD <sub>2</sub>	13.5	940217	344.12202	30.35978	142.42815	2.71360	0.1513974	2.4294330	26	4	1954-1993	0.84	Williams	22491	1979 FD <sub>2</sub>
1979 KG	12.0	940217	51.17731	239.58624	124.58726	13.82191	0.1856318	2.6780168	21	4	1979-1993	0.68	Williams	22073	1979 KG
1979 MC <sub>2</sub>	13.2	940217	21.83909	103.79719	195.28640	2.15875	0.0350805	2.8278588	16	5	1950-1992	0.67	Bowell	22598	1979 MC <sub>2</sub>
1979 MU <sub>8</sub>	12.5	940217	288.99985	73.11167	125.98188	13.74476	0.1173373	2.5594948	17	3	1979-1993	0.88	Williams	21965	1979 MU <sub>8</sub>
1979 QK <sub>6</sub>	14.5	940217	190.88555	200.36595	120.26955	4.02570	0.1968282	2.1781165	15	3	1979-1992	0.77	Bowell	22073	1979 QK <sub>6</sub>
1979 SO	13.8	940217	40.81316	350.77386	8.73108	8.17312	0.2297322	2.7756724	17	2	1979-1993	0.64	Bowell	22808	1979 SO
1980 FO <sub>1</sub>	12.5	940217	55.53818	89.88110	314.44015	1.24667	0.0685741	2.9059438	33	6	1973-1993	0.76	Williams	22074	1980 FO <sub>1</sub>
1980 RU	13.0	940217	65.10333	29.71700	344.94980	15.31299	0.1431502	2.5759907	16	5	1980-1993	0.97	Williams	22823	1980 RU
1980 RG <sub>1</sub>	16.0	940217	42.52018	110.31255	238.55089	4.45157	0.4709179	2.6456743	32	2	1980-1993	0.52	Williams	22808	1980 RG <sub>1</sub>
1980 VX <sub>1</sub>	13.2	940217	282.97963	84.81489	359.87009	7.31738	0.2072040	2.7873125	31	5	1952-1991	0.67	Bowell	22074	1980 VX <sub>1</sub>
1981 DF <sub>2</sub>	14.1	940217	32.31665	126.39229	256.08661	7.30199	0.2029089	2.3165210	22	4	1954-1993	0.79	Bowell	22696	1981 DF <sub>2</sub>
1981 EL <sub>5</sub>	14.0	940217	242.60448	197.53111	246.62524	9.73607	0.0973848	3.0425825	21	4	1950-1991	0.90	Bowell	17817	1981 EL <sub>5</sub>
1981 EJ <sub>7</sub>	13.6	940217	333.52370	4.48244	307.62480	7.80482	0.0276082	3.1639849	22	3	1981-1992	0.85	Bowell	21966	1981 EJ <sub>7</sub>
1981 ET <sub>8</sub>	14.5	940217	145.31071	352.88441	213.58211	3.87837	0.0623044	2.3987668	23	3	1978-1992	0.87	Bowell	22696	1981 ET <sub>8</sub>

1981 EO <sub>9</sub>	12.3	940217	294.09583	18.26143	324.36032	10.62206	0.1555033	3.2055900	23	4	1949-1992	0.84	Bowell	21966	1981 EO <sub>9</sub>
1981 EY <sub>9</sub>	15.0	940217	331.69874	176.60692	298.94184	3.69340	0.1420466	2.2665140	32	3	1981-1993	0.81	Williams	22823	1981 EY <sub>9</sub>
1981 EL <sub>10</sub>	14.5	940217	192.17958	0.40010	301.78568	4.81430	0.1067360	2.7386632	25	3	1981-1993	1.01	Williams	22696	1981 EL <sub>10</sub>
1981 EE <sub>14</sub>	15.4	940217	105.69411	86.13237	212.34857	6.36143	0.1093022	2.3503084	24	5	1978-1993	0.92	Bowell	21966	1981 EE <sub>14</sub>
1981 EC <sub>16</sub>	14.0	940217	142.66166	350.93152	271.44028	3.65434	0.2053523	2.3648136	24	3	1978-1993	0.76	Williams	22823	1981 EC <sub>16</sub>
1981 EF <sub>18</sub>	14.2	940217	31.19313	206.01922	184.08577	5.34129	0.0950840	2.3007022	21	3	1979-1993	0.87	Bowell	22808	1981 EF <sub>18</sub>
1981 EU <sub>18</sub>	14.0	940217	44.88825	199.45916	88.79276	0.21486	0.1582356	3.0842731	31	3	1981-1993	0.99	Williams	22823	1981 EU <sub>18</sub>
1981 EK <sub>23</sub>	15.0	940217	79.99739	129.39647	185.50747	3.06232	0.1839588	2.3599992	23	6	1964-1993	0.89	Williams	21931	1981 EK <sub>23</sub>
1981 EQ <sub>28</sub>	13.5	940217	45.06246	257.26943	157.81190	3.38171	0.2012894	2.7519307	24	4	1981-1993	0.83	Williams	21967	1981 EQ <sub>28</sub>
1981 EK <sub>41</sub>	14.1	940217	157.06689	125.26703	192.31121	5.97355	0.0342005	2.2562238	24	4	1981-1992	0.91	Bowell	21968	1981 EK <sub>41</sub>
1981 ET <sub>42</sub>	14.9	940217	90.98202	327.40560	333.38414	1.80871	0.2048322	2.3789308	16	6	1977-1993	0.92	Bowell	22074	1981 ET <sub>42</sub>
1981 SN	13.5	940217	57.12787	156.05764	216.25492	5.17980	0.1584684	2.4832137	22	5	1981-1993	0.95	Bowell	22823	1981 SN
1981 SN <sub>1</sub>	13.7	940217	119.68812	228.03117	145.82878	2.33689	0.3172875	3.0454900	18	5	1949-1992	0.94	Bowell	21968	1981 SN <sub>1</sub>
1981 SE <sub>2</sub>	14.2	940217	97.27963	253.68782	106.29059	3.24926	0.2111910	2.4320094	9	3	1950-1985	1.14	Bowell	12325	1981 SE <sub>2</sub>
1981 UQ <sub>11</sub>	13.8	940217	88.21953	356.82368	78.12246	3.73034	0.1244122	2.3899397	15	3	1981-1992	0.97	Bowell	22075	1981 UQ <sub>11</sub>
1981 UM <sub>22</sub>	11.5	940217	308.14731	9.87135	154.00096	3.64568	0.0507518	3.1749525	22	8	1975-1993	0.83	Williams	21968	1981 UM <sub>22</sub>
1981 VS	12.6	940217	227.99471	204.50298	206.93053	8.92686	0.2895802	2.7759397	28	5	1972-1992	0.95	Bowell	21968	1981 VS
1982 BE <sub>1</sub>	13.5	940217	28.45252	301.91922	131.30982	6.48394	0.1895102	2.5542175	19	4	1982-1993	0.81	Williams	22824	1982 BE <sub>1</sub>
1982 DK	13.0	940217	312.76794	83.49092	98.22134	12.23499	0.2610685	2.5933569	19	4	1982-1993	0.95	Williams	22075	1982 DK
1982 JE <sub>1</sub>	14.0	940217	52.07852	291.24485	73.00694	5.26175	0.1834944	2.2585172	25	5	1976-1993	1.14	Williams	22824	1982 JE <sub>1</sub>
1982 QK <sub>3</sub>	14.0	940217	62.81749	23.15722	326.87066	2.48536	0.1872614	2.3470808	22	4	1982-1993	0.57	Williams	22824	1982 QK <sub>3</sub>
1982 RK	13.7	940217	133.84028	289.85590	108.44306	4.86201	0.1406308	2.2125417	22	2	1982-1992	0.80	Bowell	22075	1982 RK
1982 UD <sub>2</sub>	12.5	940217	117.40639	327.14128	43.00828	2.60576	0.1338527	2.9237767	33	5	1982-1993	1.11	Williams	21968	1982 UD <sub>2</sub>
1982 UJ <sub>7</sub>	12.7	940217	9.86685	327.65123	111.64573	2.55066	0.1511916	3.0962359	26	3	1982-1993	1.13	Nakano	22824	1982 UJ <sub>7</sub>
1982 XQ <sub>1</sub>	12.5	940217	185.13137	67.54256	149.59085	1.72889	0.1039161	3.2064047	33	6	1979-1993	0.80	Bowell	22697	1982 XQ <sub>1</sub>
1983 EB <sub>1</sub>	13.5	940217	343.17434	329.75539	166.14040	2.67281	0.1229042	2.4323671	22	5	1951-1993	0.94	Williams	22484	1983 EB <sub>1</sub>
1983 PX	13.5	940217	98.56240	112.49041	199.15969	8.82838	0.2681427	2.7954726	23	4	1974-1992	0.76	Williams	21969	1983 PX
1983 RY <sub>4</sub>	12.0	940217	97.02847	103.60474	261.90910	8.79991	0.2365898	2.7571860	48	4	1983-1993	1.00	Williams	22076	1983 RY <sub>4</sub>
1983 WJ	12.5	940217	33.09899	325.08029	97.42612	3.27181	0.0908896	2.8905365	21	5	1978-1993	0.96	Williams	22076	1983 WJ
1983 WM	13.7	940217	308.40935	189.45078	253.49472	5.72731	0.0787951	2.3206925	22	3	1954-1990	1.28	Bowell	17434	1983 WM
1983 XW	12.5	940217	305.44641	10.17182	35.26328	0.40840	0.2057402	3.1934366	30	5	1953-1993	0.81	Williams	22824	1983 XW
1984 AR	12.5	940217	292.21475	88.35964	25.26449	1.10715	0.1383977	3.1332878	40	11	1954-1993	0.76	Williams	22824	1984 AR
1984 DY	12.5	940217	316.66993	128.11031	359.78378	0.72891	0.1358726	3.1396174	51	3	1984-1993	0.57	Williams	22824	1984 DY
1985 JW <sub>1</sub>	10.5	940217	169.74333	189.14448	64.64054	15.74930	0.1466323	3.2000407	14	5	1939-1993	0.79	Williams	22809	1985 JW <sub>1</sub>
1985 KE	13.0	940217	118.31743	162.23310	229.14259	3.05052	0.1332256	2.9233630	17	4	1977-1992	0.67	Bowell	21566	1985 KE
1985 PG <sub>2</sub>	14.5	940217	38.20850	335.69624	63.04681	3.90173	0.1733982	2.4354894	31	5	1974-1993	0.91	Williams	22809	1985 PG <sub>2</sub>
1985 QA <sub>1</sub>	12.5	940217	250.86188	324.44362	208.15054	7.55523	0.0758449	2.4058631	15	3	1978-1993	0.81	Williams	22809	1985 QA <sub>1</sub>
1985 QD <sub>6</sub>	15.0	940217	22.42134	225.48443	121.88436	5.17854	0.2950710	2.5536114	16	2	1985-1993	1.28	Williams	22824	1985 QD <sub>6</sub>
1985 RV	15.5	940217	125.60903	42.19681	259.97204	9.94942	0.2570699	2.4152024	33	3	1985-1994	0.67	Williams	22430	1985 RV
1985 RL <sub>3</sub>	13.4	940217	248.11331	175.77359	83.32390	7.31502	0.1049256	2.2670537	31	4	1981-1992	0.74	Bowell	22076	1985 RL <sub>3</sub>
1985 TR	14.0	940217	28.82083	62.61994	14.47782	3.71985	0.1334848	2.4302259	20	5	1976-1993	1.12	Williams	21566	1985 TR
1985 UH <sub>3</sub>	13.0	940217	99.19486	191.44679	147.54625	3.07155	0.2241947	2.4347677	16	5	1954-1993	0.74	Williams	22493	1985 UH <sub>3</sub>
1986 CV <sub>1</sub>	13.0	940217	111.91425	59.35195	295.69696	13.93431	0.1272471	2.5839999	31	4	1986-1993	0.80	Williams	22077	1986 CV <sub>1</sub>
1986 PK <sub>6</sub>	13.5	940217	147.83197	345.68946	258.21862	4.24345	0.1604552	2.2470799	18	5	1955-1993	0.81	Bowell	22698	1986 PK <sub>6</sub>
1986 QQ	13.5	940217	327.88551	84.71211	359.21027	4.32620	0.1489790	2.2805568	82	7	1950-1993	0.79	Williams	22824	1986 QQ
1986 QG <sub>2</sub>	16.0	940217	36.15382	202.72835	132.94102	4.63761	0.2684198	2.3255374	37	2	1986-1993	0.64	Williams	22810	1986 QG <sub>2</sub>
1986 QB <sub>3</sub>	12.8	940217	95.34282	275.62257	86.73519	2.88365	0.1835211	3.1931410	61	4	1975-1992	0.66	Bowell	21935	1986 QB <sub>3</sub>
1986 QV <sub>3</sub>	13.5	940217	65.48493	237.25807	122.69582	5.16265	0.2198916	2.2515734	15	3	1969-1993	1.10	Nakano	22810	1986 QV <sub>3</sub>
1986 RS <sub>1</sub>	14.9	940217	65.36052	176.02947	163.65559	5.97708	0.1989517	2.2721937	14	3	1979-1993	0.60	Bowell	22824	1986 RS <sub>1</sub>
1986 RN <sub>5</sub>	14.5	940217	51.87879	343.41944	359.57280	6.49196	0.2244789	2.2869245	29	3	1955-1993	0.78	Williams	22824	1986 RN <sub>5</sub>
1986 UG	14.2	940217	80.63422	265.99950	131.40181	2.38617	0.1474433	2.2103832	18	6	1976-1993	0.89	Nakano	22824	1986 UG
1986 UY	14.0	940217	67.22803	44.95678	352.32922	4.97672	0.1653169	2.2416628	18	4	1986-1993	0.89	Williams	22272	1986 UY

1986 XH	13.5	940217	239.12622	183.50913	267.19951	11.64402	0.1217177	2.6135053	22	5	1951-1990	0.80	Bowell	22078	1986 XH
1987 BB	14.7	940217	324.50792	354.88807	145.02854	0.38212	0.1605203	2.3767064	37	3	1987-1993	0.67	Nakano	22824	1987 BB
1987 DG <sub>6</sub>	13.3	940217	126.25434	328.25902	297.05089	1.13214	0.1613143	2.6716995	51	8	1950-1993	0.70	Bowell	22599	1987 DG <sub>6</sub>
1987 KB	12.5	940217	264.61858	66.20575	243.75024	10.71429	0.2675398	2.3718791	52	6	1962-1991	0.89	Williams	22078	1987 KB
1987 ML <sub>1</sub>	12.0	940217	226.37078	116.45807	125.45766	15.44465	0.1617458	2.6195600	18	4	1953-1993	1.05	Williams	21970	1987 ML <sub>1</sub>
1987 QS <sub>7</sub>	12.7	940217	220.66755	60.72418	166.31198	2.05176	0.0412174	2.9005441	33	3	1978-1993	0.82	Nakano	22078	1987 QS <sub>7</sub>
1987 QY <sub>10</sub>	11.0	940217	67.96248	239.46223	139.87383	11.19334	0.1217044	2.9905694	18	5	1987-1993	0.60	Bardwell	21971	1987 QY <sub>10</sub>
1987 RG	12.3	940217	91.17716	205.09485	120.80005	3.52719	0.1798309	3.0943519	34	6	1954-1993	0.67	Bowell	22824	1987 RG
1987 RO <sub>3</sub>	14.6	940217	216.31800	133.97724	214.67501	4.93600	0.2481177	2.5427272	27	5	1950-1991	0.88	Bowell	22078	1987 RO <sub>3</sub>
1987 SZ <sub>6</sub>	10.2	940217	55.10349	78.42251	277.50339	8.94147	0.1673854	3.1375964	24	3	1965-1993	1.04	Nakano	22824	1987 SZ <sub>6</sub>
1987 SS <sub>9</sub>	13.0	940217	23.59712	290.34999	113.51465	2.62335	0.1935712	3.1692536	17	3	1987-1993	0.78	Williams	22810	1987 SS <sub>9</sub>
1987 SS <sub>17</sub>	12.5	940217	87.00664	328.22144	0.05741	6.95153	0.1669400	3.1458257	18	3	1981-1993	0.95	Williams	22825	1987 SS <sub>17</sub>
1987 UW	14.0	940217	196.25407	158.61632	206.28825	32.27111	0.1646577	2.6303289	34	3	1979-1991	0.73	Williams	22079	1987 UW
1987 VB	13.2	940217	297.94131	129.12302	283.85026	2.91489	0.1424086	2.2421236	32	6	1950-1992	1.00	Bowell	22493	1987 VB
1987 WV <sub>1</sub>	15.0	940217	327.65784	267.40151	138.14485	0.93555	0.1600583	2.2552327	22	3	1987-1993	0.69	Williams	22825	1987 WV <sub>1</sub>
1988 CG	14.5	940217	250.24928	7.75262	165.05937	5.36641	0.1360559	2.2673719	20	4	1976-1993	0.93	Williams	18429	1988 CG
1988 CX <sub>1</sub>	13.7	940217	163.98612	307.31322	294.54743	2.57598	0.1043900	2.2808628	30	5	1954-1993	0.84	Bowell	22698	1988 CX <sub>1</sub>
1988 CC <sub>2</sub>	13.4	940217	293.48614	86.56802	315.65560	4.20929	0.1855256	2.3785424	26	5	1966-1992	0.79	Bowell	21971	1988 CC <sub>2</sub>
1988 DO <sub>1</sub>	12.6	940217	209.97937	119.01186	120.54340	6.07853	0.1121079	2.2585156	11	3	1988-1993	0.89	Bowell	21971	1988 DO <sub>1</sub>
1988 FS <sub>2</sub>	13.5	940217	186.41343	202.50147	8.20440	2.53868	0.1360344	2.4104981	25	3	1988-1993	0.93	Williams	21569	1988 FS <sub>2</sub>
1988 NR	13.0	940217	78.84664	85.84024	260.20588	13.59247	0.1511202	2.6169158	11	2	1988-1993	0.77	Nakano	22811	1988 NR
1988 PM <sub>2</sub>	14.0	940217	25.97319	248.93995	141.73626	5.09089	0.0814889	2.7892549	30	4	1988-1993	0.82	Williams	21971	1988 PM <sub>2</sub>
1988 PX <sub>2</sub>	12.5	940217	333.11388	208.77987	181.75819	10.56881	0.0763520	3.0021958	28	5	1978-1993	0.90	Bowell	22599	1988 PX <sub>2</sub>
1988 RA <sub>2</sub>	13.8	940217	142.42184	182.14140	172.23891	2.51149	0.1910257	2.4537439	18	2	1988-1992	0.77	Bowell	22079	1988 RA <sub>2</sub>
1988 RE <sub>2</sub>	13.0	940217	314.74288	284.09192	118.06475	1.99982	0.1963230	3.1192839	32	2	1988-1993	0.85	Williams	22684	1988 RE <sub>2</sub>
1988 RU <sub>3</sub>	14.0	940217	160.75189	125.43743	152.27276	2.99070	0.0400021	2.6868114	37	5	1988-1993	0.77	Williams	22272	1988 RU <sub>3</sub>
1988 RX <sub>4</sub>	13.7	940217	154.21680	243.95623	104.05603	3.57111	0.2136615	2.4144616	48	4	1950-1992	0.75	Bowell	22599	1988 RX <sub>4</sub>
1988 RM <sub>7</sub>	14.5	940217	32.41036	5.92707	297.54139	1.35138	0.1923795	3.0479146	29	3	1988-1993	0.77	Williams	22811	1988 RM <sub>7</sub>
1988 RV <sub>10</sub>	13.0	940217	133.56597	35.38254	148.74909	2.87088	0.1197664	3.1992918	22	2	1988-1993	0.82	Williams	22825	1988 RV <sub>10</sub>
1988 RX <sub>12</sub>	13.3	940217	3.10014	168.13058	194.52199	9.80529	0.1083342	3.0132155	18	4	1951-1992	0.99	Bowell	22590	1988 RX <sub>12</sub>
1988 TN <sub>2</sub>	12.9	940217	137.62714	152.21530	194.42284	16.03542	0.1696324	2.5418352	12	2	1988-1992	0.43	Bowell	22080	1988 TN <sub>2</sub>
1988 TQ <sub>4</sub>	12.5	940217	65.33771	256.91950	128.26277	1.34329	0.0824602	2.7796297	30	7	1974-1993	0.76	Williams	22825	1988 TQ <sub>4</sub>
1988 VB	13.0	940217	65.77487	330.03106	44.12623	8.97288	0.2331978	2.7920298	38	5	1974-1993	0.97	Williams	22080	1988 VB
1988 VM <sub>2</sub>	13.6	940217	101.13927	353.14707	53.91726	12.72154	0.3005142	2.5811697	17	3	1963-1992	0.79	Bowell	22080	1988 VM <sub>2</sub>
1988 XG <sub>2</sub>	13.3	940217	51.94687	178.93398	264.99082	7.08421	0.1947405	2.7999758	16	4	1954-1992	0.85	Bowell	21788	1988 XG <sub>2</sub>
1989 AF <sub>7</sub>	13.5	940217	319.84685	343.59091	156.24679	0.53674	0.1131177	3.1793938	19	4	1978-1993	0.38	Williams	21972	1989 AF <sub>7</sub>
1989 CJ <sub>1</sub>	13.0	940217	129.26979	208.58775	141.40366	27.52065	0.0719034	1.9101559	29	4	1989-1993	1.04	Williams	22825	1989 CJ <sub>1</sub>
1989 CE <sub>2</sub>	13.5	940217	110.35208	59.65748	320.29427	20.35281	0.0713549	1.8616726	28	5	1974-1994	1.12	Williams	22825	1989 CE <sub>2</sub>
1989 GZ <sub>1</sub>	15.5	940217	54.33690	47.72034	254.05525	2.04814	0.0577462	2.2884120	23	3	1989-1993	0.83	Williams	22811	1989 GZ <sub>1</sub>
1989 GT <sub>3</sub>	14.5	940217	19.33659	90.31056	262.06076	0.95251	0.1429108	2.2419644	34	4	1980-1993	0.96	Williams	22699	1989 GT <sub>3</sub>
1989 RO <sub>2</sub>	12.5	940217	43.40616	44.97353	354.92024	23.15932	0.2963853	2.4293624	20	3	1989-1993	0.80	Williams	22599	1989 RO <sub>2</sub>
1989 SD <sub>1</sub>	13.0	940217	251.96168	344.08659	101.69197	3.49294	0.0354553	2.9021119	25	2	1989-1993	0.94	Williams	22811	1989 SD <sub>1</sub>
1989 SL <sub>1</sub>	13.5	940217	335.13162	37.54086	121.90850	4.71964	0.0555421	2.2201943	22	6	1978-1993	1.19	Williams	22081	1989 SL <sub>1</sub>
1989 SR <sub>2</sub>	13.5	940217	260.60777	341.94557	99.70349	3.37010	0.0439434	2.8942139	29	2	1989-1993	0.79	Williams	22825	1989 SR <sub>2</sub>
1989 SR <sub>4</sub>	15.6	940217	17.75668	356.28482	44.22139	4.79290	0.1803390	2.5244805	17	3	1977-1993	0.95	Bowell	22825	1989 SR <sub>4</sub>
1989 TN	14.5	940217	98.54042	222.58685	98.85395	3.52421	0.1910089	2.4145302	24	3	1978-1993	0.85	Williams	19025	1989 TN
1989 TJ <sub>1</sub>	13.0	940217	324.48977	70.93833	313.05507	1.68463	0.0913177	2.8118695	31	5	1951-1993	1.01	Williams	22825	1989 TJ <sub>1</sub>
1989 TX <sub>15</sub>	13.5	940217	312.56303	147.02145	16.20684	5.70403	0.0845797	2.2643001	24	4	1986-1993	0.54	Williams	22825	1989 TX <sub>15</sub>
1989 UN <sub>1</sub>	14.5	940217	22.32655	184.78085	213.90880	4.80975	0.2872482	2.5483023	21	3	1985-1993	1.00	Williams	22812	1989 UN <sub>1</sub>
1989 UB <sub>3</sub>	14.0	940217	354.98451	18.69356	61.66490	5.44408	0.2611882	2.5697533	18	3	1952-1993	1.02	Williams	22812	1989 UB <sub>3</sub>
1989 WC	12.9	940217	350.69955	153.16116	280.76819	1.62358	0.1569090	2.6216062	16	3	1978-1993	0.67	Bowell	22699	1989 WC
1989 WD	12.5	940217	301.25001	127.40848	63.45253	7.62978	0.0660224	2.3496260	30	3	1989-1994	0.93	Williams	22825	1989 WD

1989 WJ <sub>1</sub>	13.4	940217	59.51837	175.72890	218.43805	5.95371	0.1477969	2.4479010	19	4	1981-1993	1.17	Nakano	15724	1989 WJ <sub>1</sub>
1989 WL <sub>1</sub>	12.3	940217	18.04677	173.42701	234.82239	12.57369	0.1475796	2.5905856	29	4	1950-1993	1.35	Bowell	22812	1989 WL <sub>1</sub>
1989 WA <sub>2</sub>	12.5	940217	43.33751	315.47302	72.09816	16.30714	0.1469842	2.5662484	21	2	1989-1993	0.83	Williams	22812	1989 WA <sub>2</sub>
1989 WB <sub>2</sub>	13.5	940217	343.41949	172.83658	292.72002	5.05264	0.2398357	2.6057315	20	4	1951-1993	0.81	Williams	22600	1989 WB <sub>2</sub>
1989 YB	12.7	940217	43.13012	101.26061	276.78720	6.58811	0.3023429	2.5433546	23	4	1981-1993	0.92	Nakano	22699	1989 YB
1989 YO <sub>5</sub>	12.0	940217	157.40820	120.14775	93.91695	2.59867	0.1114671	3.1488985	21	6	1952-1991	0.91	Bowell	22825	1989 YO <sub>5</sub>
1990 DM <sub>2</sub>	12.5	940217	224.60214	308.86348	292.57569	2.68731	0.0382891	2.7678226	32	7	1950-1993	0.90	Williams	22082	1990 DM <sub>2</sub>
1990 FP	12.0	940217	323.16740	113.17978	92.74435	16.29646	0.1248420	2.5549774	23	5	1951-1993	0.54	Williams	21791	1990 FP
1990 FR	13.0	940217	344.69483	58.58316	115.07946	13.73485	0.3027446	2.5905190	24	3	1986-1994	0.74	Williams	22826	1990 FR
1990 FD <sub>1</sub>	12.0	940217	328.02369	76.78807	104.93775	14.12386	0.1158577	2.6463733	19	5	1973-1994	0.77	Williams	21974	1990 FD <sub>1</sub>
1990 HK	12.3	940217	16.66195	324.60894	197.97732	12.90619	0.1121132	2.5664865	17	4	1954-1992	1.23	Nakano	21574	1990 HK
1990 HF <sub>1</sub>	10.5	940217	128.52538	210.24405	130.02794	22.49305	0.0118046	3.1815713	31	5	1983-1993	1.09	Williams	22082	1990 HF <sub>1</sub>
1990 HM <sub>1</sub>	11.0	940217	309.84180	55.07250	77.39719	10.80070	0.1266767	3.1564344	16	5	1978-1993	0.94	Williams	22826	1990 HM <sub>1</sub>
1990 OT <sub>4</sub>	13.5	940217	313.57493	125.95418	153.89079	11.91686	0.1695408	2.6639771	15	2	1990-1993	0.43	Marsden	21791	1990 OT <sub>4</sub>
1990 QP <sub>3</sub>	13.2	940217	222.03515	246.00935	97.84340	2.54198	0.1774207	3.1633426	46	4	1950-1992	0.79	Bowell	20019	1990 QP <sub>3</sub>
1990 RS <sub>2</sub>	14.0	940217	344.14925	95.16973	293.71156	2.00828	0.1461008	2.2445906	19	2	1990-1993	1.15	Williams	22813	1990 RS <sub>2</sub>
1990 SH <sub>1</sub>	13.4	940217	261.34905	176.92619	207.12180	9.04272	0.2868404	2.7337298	23	5	1904-1992	0.73	Bowell	22082	1990 SH <sub>1</sub>
1990 SO <sub>4</sub>	12.7	940217	9.39699	52.09110	300.05354	8.01581	0.1784028	2.3017678	12	4	1978-1993	0.66	Bowell	22813	1990 SO <sub>4</sub>
1990 SS <sub>5</sub>	14.5	940217	299.99822	331.24104	100.17524	1.78832	0.1858725	2.3096089	25	3	1979-1993	0.79	Williams	22686	1990 SS <sub>5</sub>
1990 TL <sub>6</sub>	14.5	940217	20.56258	50.36193	306.73000	3.70248	0.1758755	2.1694143	24	2	1990-1993	1.01	Williams	22686	1990 TL <sub>6</sub>
1990 UR <sub>1</sub>	13.5	940217	95.80424	150.74362	234.42861	20.45901	0.1476867	1.9101027	37	3	1990-1993	0.88	Williams	22826	1990 UR <sub>1</sub>
1990 VL <sub>2</sub>	13.5	940217	278.02055	306.73076	131.00302	3.36656	0.1167699	2.5119804	35	5	1956-1993	1.03	Williams	22826	1990 VL <sub>2</sub>
1990 VB <sub>14</sub>	14.0	940217	314.45289	123.85530	293.67252	1.61497	0.2006938	2.4227106	18	2	1990-1993	0.83	Williams	22826	1990 VB <sub>14</sub>
1990 WJ <sub>3</sub>	14.0	940217	195.20116	11.47612	195.63513	4.08600	0.0833429	2.2665591	27	4	1985-1993	0.84	Williams	22083	1990 WJ <sub>3</sub>
1990 YC	14.0	940217	14.81105	335.97594	82.17023	2.76677	0.1600945	2.2182339	28	3	1988-1993	0.88	Williams	22826	1990 YC
1991 AF <sub>1</sub>	12.0	940217	239.71847	158.58447	299.33965	9.42409	0.0745188	2.9921739	38	5	1934-1993	0.84	Williams	22826	1991 AF <sub>1</sub>
1991 AL <sub>3</sub>	13.0	940217	83.35475	347.61099	317.47723	2.32132	0.1738577	2.4406851	14	4	1974-1993	0.65	Williams	22687	1991 AL <sub>3</sub>
1991 CW	13.5	940217	21.86697	307.79474	118.15911	4.92884	0.1606224	2.2620551	36	4	1969-1993	0.96	Nakano	22813	1991 CW
1991 CX	14.0	940217	312.05335	304.54938	228.27950	2.77896	0.0659747	2.2041417	26	3	1991-1994	0.89	Williams	22273	1991 CX
1991 CU <sub>1</sub>	14.0	940217	317.19222	228.00158	276.89503	3.87453	0.1323477	2.2861761	22	6	1955-1993	0.88	Williams	22600	1991 CU <sub>1</sub>
1991 CM <sub>3</sub>	13.0	940217	4.97212	297.31147	127.68436	4.54398	0.1318607	2.4308019	21	4	1951-1993	0.98	Williams	22813	1991 CM <sub>3</sub>
1991 DK	11.5	940217	44.64843	19.81394	357.26906	15.64489	0.1443231	2.5788024	13	3	1972-1993	0.91	Williams	22814	1991 DK
1991 DM <sub>1</sub>	11.9	940217	158.03797	127.78724	164.40489	13.28515	0.1792124	2.5964544	38	4	1971-1993	0.48	Nakano	22083	1991 DM <sub>1</sub>
1991 EA	13.5	940217	296.40884	151.61310	350.57531	6.28200	0.0750905	2.4625492	30	4	1955-1993	0.93	Williams	22826	1991 EA
1991 EA <sub>1</sub>	12.0	940217	213.79139	160.64369	40.38754	10.01303	0.2003222	2.7383927	15	4	1988-1993	0.66	Williams	22826	1991 EA <sub>1</sub>
1991 GA	13.0	940217	236.72490	190.34768	38.65595	8.42993	0.1137251	2.4290736	20	6	1954-1993	0.70	Williams	22600	1991 GA
1991 GP <sub>1</sub>	11.5	940217	197.20780	104.64230	134.75962	14.43128	0.2247705	2.7619817	21	4	1987-1993	0.67	Williams	21110	1991 GP <sub>1</sub>
1991 GQ <sub>1</sub>	11.5	940217	116.78655	232.76178	88.04262	12.73412	0.1618954	3.0101804	16	3	1991-1993	0.64	Williams	22826	1991 GQ <sub>1</sub>
1991 GB <sub>3</sub>	13.5	940217	192.93286	159.84124	19.87313	0.80289	0.1204313	3.2166551	34	2	1991-1993	0.88	Williams	22593	1991 GB <sub>3</sub>
1991 GP <sub>10</sub>	14.5	940217	110.16311	215.13072	115.97811	3.70596	0.0504459	2.6446497	27	5	1979-1993	0.76	Williams	22431	1991 GP <sub>10</sub>
1991 GQ <sub>10</sub>	12.5	940217	54.42394	239.29615	132.05283	4.54009	0.1212858	2.7438103	19	4	1979-1993	0.61	Williams	22814	1991 GQ <sub>10</sub>
1991 HO	12.0	940217	182.66329	177.92220	78.88425	18.60200	0.2102230	2.7428699	22	4	1955-1993	0.60	Williams	21975	1991 HO
1991 JB <sub>1</sub>	12.1	940217	173.51824	147.52084	80.40574	5.05385	0.1207964	3.1925317	18	6	1934-1993	0.81	Bowell	22494	1991 JB <sub>1</sub>
1991 PE	12.5	940217	170.37645	195.47235	121.72541	2.74835	0.2661195	3.0736488	29	3	1986-1993	0.83	Williams	22083	1991 PE
1991 PW <sub>12</sub>	11.5	940217	283.95500	189.58972	6.61631	0.66995	0.1081487	3.2076282	27	8	1954-1993	0.77	Williams	22273	1991 PW <sub>12</sub>
1991 WA	16.9	940217	75.96159	241.75180	66.76504	39.65546	0.6424155	1.5754108	38	2	1991-1994	0.90	Williams	22815	1991 WA
1992 BB	15.5	940217	258.09092	330.33765	194.67320	45.28681	0.2668867	1.8817976	36	2	1992-1993	0.49	Williams	22827	1992 BB
1992 CA <sub>2</sub>	14.0	940217	248.46232	328.87987	139.86818	4.27529	0.0544805	2.2659633	17	2	1992-1993	0.55	Williams	22827	1992 CA <sub>2</sub>
1992 FN	14.0	940217	210.07147	354.14963	189.04794	1.41291	0.1196914	2.2134055	24	5	1954-1993	0.81	Williams	22700	1992 FN
1992 FV	13.0	940217	158.10726	158.67946	96.05003	3.93368	0.1162297	2.1498300	22	5	1979-1993	0.70	Bowell	22700	1992 FV
1992 GZ	13.0	940217	141.69579	250.48286	355.35800	2.22087	0.2412531	2.5778002	24	7	1955-1993	1.13	Bowell	22085	1992 GZ
1992 GF <sub>4</sub>	14.4	940217	42.42403	338.84636	37.95828	6.56093	0.1821869	2.2221604	27	3	1960-1993	0.94	Bowell	22815	1992 GF <sub>4</sub>

1992 LP	13.5	940217	101.07310	243.73105	102.00046	2.92985	0.1832460	2.2573038	26	3	1969-1993	0.91	Williams	22827	1992 LP
1992 LR	18.0	940217	227.42312	67.71335	233.24439	2.02332	0.4091594	1.8308452	157	1	145 days	0.76	Williams	21977	1992 LR
1992 LU	13.0	940217	189.95415	16.21832	175.23744	14.27967	0.1087493	2.5899060	16	2	1992-1993	0.61	Williams	22689	1992 LU
1992 MM	13.0	940217	269.37135	62.57593	70.97997	3.32308	0.0375154	2.4079339	17	4	1961-1993	0.93	Bardwell	20828	1992 MM
1992 NA	16.5	940217	138.90330	7.86709	349.63025	9.77291	0.5609426	2.3901071	94	1	180 days	0.79	Williams	21582	1992 NA
1992 OF	14.6	940217	138.50393	281.45155	68.49600	3.68209	0.3249214	2.4504058	38	3	1969-1992	0.94	Bowell	22432	1992 OF
1992 PF <sub>2</sub>	13.5	940217	206.30436	49.72276	210.17196	5.08290	0.1529757	2.2659225	19	6	1951-1993	0.75	Williams	22600	1992 PF <sub>2</sub>
1992 QG	13.0	940217	202.45636	108.83884	163.89303	7.35653	0.0686006	2.4105347	22	6	1950-1993	1.02	Williams	22085	1992 QG
1992 QB <sub>1</sub>	7.5	940217	11.22876	349.56470	359.40602	2.19095	0.0686902	43.8370318	39	2	1992-1994	0.65	Williams	22700	1992 QB <sub>1</sub>
1992 SG	12.5	940217	56.92309	84.35331	359.46223	14.97974	0.0917787	2.5509088	15	4	1970-1992	0.78	Bowell	22085	1992 SG
1992 SD <sub>1</sub>	13.1	940217	149.11229	294.54510	48.22483	9.75449	0.0973787	2.5396821	17	3	1976-1992	0.99	Bowell	22085	1992 SD <sub>1</sub>
1992 SR <sub>12</sub>	12.5	940217	92.88534	337.35090	48.83815	2.69704	0.0828271	2.8513053	27	6	1968-1993	0.84	Williams	22085	1992 SR <sub>12</sub>
1992 SX <sub>12</sub>	13.6	940217	154.88840	198.63552	165.63106	3.51787	0.1537764	2.2330076	19	4	1952-1992	0.82	Bowell	22085	1992 SX <sub>12</sub>
1992 TY	13.6	940217	206.86415	166.50371	133.90884	5.11895	0.1798085	2.2153085	21	4	1962-1992	0.72	Nakano	22827	1992 TY
1992 UP	11.5	940217	226.86586	167.86929	69.59217	2.50366	0.1362122	3.1735396	24	7	1976-1993	1.00	Nakano	22085	1992 UP
1992 UU <sub>2</sub>	13.8	940217	130.02991	324.13418	73.95276	6.30199	0.1850621	2.2646893	15	2	1975-1992	0.36	Bowell	22085	1992 UU <sub>2</sub>
1992 UO <sub>4</sub>	10.5	940217	178.98721	217.34092	75.24361	15.34501	0.0937897	3.1634644	12	3	1987-1993	1.30	Williams	21591	1992 UO <sub>4</sub>
1992 UQ <sub>4</sub>	13.0	940217	117.26274	291.87645	124.89584	7.08775	0.1458528	2.3579509	17	3	1952-1992	0.89	Bowell	21591	1992 UQ <sub>4</sub>
1992 UX <sub>4</sub>	12.5	940217	95.46876	172.18781	239.83568	16.20121	0.3338407	2.8623148	21	2	1929-1992	0.74	Williams	22432	1992 UX <sub>4</sub>
1992 WS	13.5	940217	182.34883	110.20080	235.40053	4.53423	0.1970942	2.2693318	27	6	1954-1992	0.84	Williams	22274	1992 WS
1993 QO	13.0	940217	15.01322	77.61082	314.08700	21.94007	0.2856456	2.2981147	16	1	120 days	0.62	Williams	22817	1993 QO
1993 RR	16.0	940217	22.88919	36.82703	4.16097	7.49753	0.3490728	2.5663873	49	1	120 days	0.73	Williams	22817	1993 RR
1993 RF <sub>2</sub>	14.0	940217	72.44398	326.17651	353.93107	4.81013	0.1819183	2.2586822	14	2	1976-1993	0.78	Williams	22827	1993 RF <sub>2</sub>
1993 RH <sub>2</sub>	14.0	940217	43.21390	349.39091	3.44404	14.11051	0.2017457	2.5312786	17	3	1985-1993	0.96	Williams	22692	1993 RH <sub>2</sub>
1993 SD	13.0	940217	37.22774	152.92647	195.44382	10.53185	0.0798319	2.9926023	19	2	1983-1993	0.34	Williams	22692	1993 SD
1993 SG	14.0	940217	38.32336	24.87628	347.52731	4.77159	0.2106018	2.3735184	43	3	1949-1993	0.94	Williams	22827	1993 SG
1993 SS <sub>2</sub>	13.0	940217	119.75988	168.87132	106.66845	5.64520	0.1556063	2.2026326	16	5	1963-1993	0.53	Williams	22817	1993 SS <sub>2</sub>
1993 SL <sub>3</sub>	12.5	940217	91.26729	285.34505	16.34472	23.98264	0.2188326	2.2734644	26	4	1982-1993	0.98	Williams	22827	1993 SL <sub>3</sub>
1993 SM <sub>3</sub>	13.0	940217	18.22274	247.98698	138.93301	1.81738	0.1892823	3.1288241	22	2	1987-1993	0.79	Williams	22817	1993 SM <sub>3</sub>
1993 SR <sub>3</sub>	12.5	940217	49.99589	160.13410	189.35224	15.49807	0.2055723	2.5790913	17	4	1935-1993	1.03	Williams	22818	1993 SR <sub>3</sub>
1993 TA	13.0	940217	5.99030	271.62397	158.01310	28.55394	0.4200824	2.7605426	15	3	1985-1993	1.09	Williams	22818	1993 TA
1993 TE	14.0	940217	46.14674	161.66070	192.47843	8.68670	0.2738672	2.5425945	16	4	1985-1993	0.74	Bowell	22827	1993 TE
1993 TF	14.0	940217	14.88258	324.04116	87.42320	1.76790	0.1888966	2.3800136	25	3	1982-1993	0.75	Williams	22827	1993 TF
1993 TN	13.5	940217	63.56611	253.17659	88.76697	3.58811	0.1275253	2.3536925	13	3	1975-1993	0.86	Williams	22818	1993 TN
1993 TQ	13.0	940217	44.60458	292.53262	67.28246	8.49233	0.2067812	2.6912370	15	4	1971-1994	0.76	Williams	22818	1993 TQ
1993 TX	12.5	940217	34.85513	329.88746	42.27021	11.54987	0.2960050	2.6158333	17	2	1972-1993	0.87	Williams	22827	1993 TX
1993 TC <sub>3</sub>	15.0	940217	53.27036	193.36188	166.31742	2.39386	0.2075302	2.2113971	15	3	1980-1993	1.07	Williams	22819	1993 TC <sub>3</sub>
1993 TJ <sub>3</sub>	13.0	940217	3.52227	37.29060	32.34883	4.80405	0.1114263	2.2574880	14	5	1973-1993	1.12	Nakano	22819	1993 TJ <sub>3</sub>
1993 TE <sub>5</sub>	14.0	940217	83.45577	46.24112	280.90806	2.96393	0.2267728	2.1986481	25	3	1980-1993	0.67	Williams	22819	1993 TE <sub>5</sub>
1993 UC <sub>1</sub>	12.2	940217	65.98062	79.97079	261.52145	12.41093	0.1758673	2.4592462	13	4	1962-1993	0.79	Bowell	22820	1993 UC <sub>1</sub>
1993 VM	13.5	940217	171.33033	78.70643	184.86920	3.81845	0.1165764	2.2466899	18	4	1985-1993	1.03	Williams	22820	1993 VM
1993 VN	14.0	940217	78.11473	161.60842	175.14722	2.09671	0.2317113	2.4003843	16	3	1978-1993	0.60	Williams	22821	1993 VN
1993 VM <sub>1</sub>	14.0	940217	21.53284	264.81837	170.66851	23.14799	0.1398799	1.9099908	11	2	1990-1993	0.45	Williams	22821	1993 VM <sub>1</sub>
2563 P-L	13.3	940217	36.37458	112.22779	150.47191	1.72297	0.1406708	3.2018364	14	4	1954-1992	0.65	Bowell	22274	2563 P-L
2702 P-L	13.5	940217	125.00016	152.10856	38.74573	1.13838	0.1495695	3.1958744	13	3	1960-1993	0.77	Williams	19035	2702 P-L
4028 P-L	14.4	940217	325.40944	223.77284	207.63776	7.16080	0.1780297	2.5842270	18	4	1960-1993	0.74	Bowell	22700	4028 P-L
4068 P-L	14.5	940217	48.28122	51.17998	340.54619	3.18953	0.0721572	2.2054515	31	3	1960-1993	0.75	Williams	22827	4068 P-L
4081 P-L	14.3	940217	355.17347	162.48198	199.80025	7.06534	0.1455754	2.2365192	23	5	1960-1992	0.60	Bowell	18445	4081 P-L
4116 P-L	15.0	940217	106.96656	109.24612	227.01162	1.18002	0.2438498	2.1970680	32	3	1960-1993	0.75	Balam	22827	4116 P-L
4276 P-L	16.0	940217	137.01140	254.55836	356.12956	5.51426	0.1832623	2.2175905	30	4	1960-1993	0.91	Williams	22086	4276 P-L
6038 P-L	13.4	940217	14.64962	58.26473	358.42271	6.97796	0.2102586	2.5619418	15	3	1952-1993	0.60	Bowell	22821	6038 P-L
6573 P-L	13.5	940217	194.46203	29.44384	126.99962	3.66401	0.0789457	2.5992089	26	6	1960-1992	0.81	Bowell	22061	6573 P-L

7063 P-L	14.3	940217	164.38053	68.77599	243.63042	4.28990	0.2124478	2.3343666	29	5	1960-1992	0.68	Bowell	22087	7063 P-L
9058 P-L	12.5	940217	46.06925	85.88905	266.30523	3.19584	0.1699223	3.0932900	21	3	1960-1993	0.60	Williams	22822	9058 P-L
4283 T-1	14.5	940217	15.02982	46.09714	28.34664	7.80983	0.1073130	2.2546886	15	3	1971-1993	0.93	Williams	19327	4283 T-1
1136 T-2	14.0	940217	211.02606	344.07847	174.15663	3.10204	0.0692185	2.5496082	23	4	1949-1992	0.90	Williams	20648	1136 T-2
1269 T-2	14.0	940217	299.60824	145.14486	296.29027	0.95679	0.0075971	2.9411012	51	5	1971-1993	1.15	Williams	22827	1269 T-2
1279 T-2	15.5	940217	18.36161	213.81153	173.61335	1.32630	0.1678465	2.2363675	30	2	1973-1993	0.81	Williams	22695	1279 T-2
1360 T-2	14.0	940217	114.16077	113.90768	201.64511	1.25825	0.0908282	2.8662324	39	4	1973-1993	0.78	Williams	22087	1360 T-2
2144 T-2	15.0	940217	95.00286	279.35892	357.64845	4.45449	0.1318979	2.5348394	21	3	1973-1993	1.26	Williams	22695	2144 T-2
3020 T-2	13.5	940217	69.17194	334.58114	5.48419	14.18083	0.2211024	2.8849521	24	3	1973-1990	0.91	Bowell	22701	3020 T-2
3070 T-2	13.7	940217	231.29641	4.48548	133.21807	4.05064	0.0821292	2.2601254	37	5	1965-1993	0.75	Bowell	22601	3070 T-2
3181 T-2	14.0	940217	36.46834	300.63434	95.42088	3.37045	0.0334423	2.8717199	24	3	1971-1993	0.87	Williams	21978	3181 T-2
5211 T-2	12.5	940217	357.17140	206.99086	229.09261	9.20871	0.2151871	2.9005367	20	2	1973-1993	0.64	Williams	22828	5211 T-2
1214 T-3	12.7	940217	45.55017	64.92029	326.90719	9.11780	0.0979825	2.9997829	24	4	1977-1993	0.88	Nakano	22828	1214 T-3
2158 T-3	14.7	940217	111.60421	358.27489	284.44909	1.75919	0.1277124	2.1786185	45	4	1977-1993	0.98	Nakano	22828	2158 T-3
2326 T-3	14.7	940217	50.34626	79.73385	281.20464	2.28824	0.0463085	2.5188114	23	2	1977-1993	0.94	Bowell	22822	2326 T-3
3134 T-3	15.0	940217	112.59770	130.48626	188.60685	3.66817	0.1964002	2.1480818	27	4	1977-1993	1.02	Williams	22088	3134 T-3
4086 T-3	16.5	940217	47.43002	205.86561	111.94835	3.73743	0.1873638	2.2000340	30	3	1977-1993	1.05	Williams	22828	4086 T-3
4094 T-3	15.2	940217	66.90624	281.83711	60.73168	4.95687	0.0739328	2.5158309	25	3	1977-1993	0.80	Bowell	22088	4094 T-3
5182 T-3	11.4	940217	275.88866	180.71281	171.20686	17.87088	0.1033810	3.3177962	53	4	1977-1993	0.60	Bowell	22432	5182 T-3
5192 T-3	12.5	940217	359.92884	6.50775	69.00950	11.27590	0.0544682	3.0092235	27	4	1977-1993	0.86	Williams	22828	5192 T-3

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1993 UC

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	Elements MPC 22960		
					$\epsilon$	$\phi$	$V$
1994 01 18	00 53.80	-32 27.8	0.729	0.953	65.7	70.1	16.7
1994 01 23	01 02.85	-31 40.1	0.689	0.919	63.8	74.0	16.6
1994 01 28	01 12.26	-30 44.7	0.643	0.888	62.0	78.2	16.5
1994 02 02	01 21.85	-29 38.9	0.594	0.863	60.3	83.0	16.4
1994 02 07	01 31.44	-28 18.7	0.540	0.843	58.7	88.1	16.4
1994 02 12	01 40.86	-26 38.0	0.483	0.830	57.0	93.7	16.4
1994 02 17	01 49.90	-24 27.1	0.424	0.824	55.3	99.7	16.3
1994 02 22	01 58.38	-21 29.8	0.364	0.825	53.3	106.0	16.3
1994 02 27	02 06.20	-17 18.2	0.304	0.833	51.0	112.5	16.3
1994 03 04	02 13.37	-11 01.6	0.247	0.848	48.3	119.1	16.4
1994 03 09	02 20.18	-01 05.8	0.194	0.869	45.9	124.9	16.4
1994 03 14	02 27.41	+15 09.3	0.151	0.896	46.2	126.8	16.1
1994 03 19	02 37.31	+39 47.7	0.128	0.928	55.1	118.4	15.1
1994 03 24	02 59.84	+67 10.7	0.135	0.964	72.0	100.3	14.2
1994 03 29	06 40	+86 08.5	0.165	1.003	86.9	83.6	14.0
1994 04 03	13 21.0	+77 59.5	0.209	1.045	96.7	71.8	14.2
1994 04 08	13 48.46	+69 36.3	0.259	1.089	103.0	63.6	14.5

1993 VW

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	Elements MPC 22961		
					$\epsilon$	$\phi$	$V$
1994 01 18	01 45.89	-09 53.0	0.340	1.003	83.4	76.9	17.0
1994 01 23	01 49.20	-11 37.6	0.327	0.975	78.9	81.9	17.1
1994 01 28	01 52.68	-13 31.9	0.312	0.950	74.5	87.1	17.1
1994 02 02	01 55.92	-15 40.8	0.296	0.928	70.1	92.4	17.2
1994 02 07	01 58.45	-18 09.3	0.278	0.909	65.8	98.0	17.2
1994 02 12	01 59.66	-21 03.4	0.258	0.894	61.5	103.8	17.3
1994 02 17	01 58.72	-24 29.4	0.238	0.883	57.3	109.6	17.5
1994 02 22	01 54.47	-28 32.8	0.218	0.876	53.1	115.4	17.6

1994 02 27

1994 02 27	01 45.29	-33 16.0	0.199	0.874	49.4	120.7	17.8
1994 03 04	01 28.92	-38 33.8	0.182	0.877	46.7	124.7	17.9
1994 03 09	01 02.45	-44 07.3	0.167	0.884	45.8	126.4	17.9
1994 03 14	00 22.58	-49 17.0	0.157	0.896	47.7	124.9	17.7
1994 03 19	23 27.91	-53 02.1	0.150	0.912	52.6	119.9	17.2
1994 03 24	22 23.32	-54 23.2	0.148	0.932	60.0	112.1	16.7
1994 03 29	21 20.07	-53 05.8	0.149	0.955	68.9	102.7	16.2
1994 04 03	20 27.07	-49 51.2	0.153	0.981	78.5	92.7	15.9
1994 04 08	19 45.58	-45 36.9	0.160	1.009	88.3	82.6	15.6
1994 04 13	19 12.93	-41 03.2	0.168	1.040	98.1	72.7	15.5
1994 04 18	18 46.18	-36 31.9	0.178	1.072	107.8	63.1	15.3
1994 04 23	18 23.31	-32 13.5	0.190	1.105	117.4	53.9	15.3
1994 04 28	18 03.05	-28 13.3	0.203	1.140	126.7	45.0	15.2
1994 05 03	17 44.70	-24 34.8	0.219	1.175	135.9	36.7	15.2
1994 05 08	17 27.93	-21 19.9	0.238	1.211	144.7	28.8	15.3
1994 05 13	17 12.69	-18 30.2	0.260	1.248	153.0	21.6	15.3
1994 05 18	16 59.10	-16 06.3	0.286	1.284	160.5	15.2	15.4

1993 TA

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	Elements MPC 22971		
					$\epsilon$	$\phi$	$V$
1994 01 18	02 23.63	-23 42.1	1.314	1.601	87.1	37.9	16.1
1994 01 28	02 43.66	-19 58.0	1.364	1.602	84.4	37.7	16.2
1994 02 07	03 05.06	-16 04.8	1.419	1.609	81.8	37.4	16.3
1994 02 17	03 27.63	-12 08.5	1.478	1.620	79.4	36.8	16.4
1994 02 27	03 51.15	-08 15.6	1.544	1.635	76.9	36.2	16.5
1994 03 09	04 15.44	-04 32.0	1.618	1.655	74.4	35.3	16.6
1994 03 19	04 40.34	-01 03.0	1.700	1.679	71.7	34.3	16.7
1994 03 29	05 05.67	+02 06.9	1.790	1.706	68.9	33.1	16.8
1994 04 08	05 31.24	+04 54.6	1.888	1.737	65.8	31.7	16.9
1994 04 18	05 56.92	+07 18.1	1.992	1.771	62.6	30.2	17.0

1994 04 28	06 22.52	+09 16.8	2.103	1.808	59.2	28.6	17.2
1994 05 08	06 47.88	+10 51.0	2.217	1.847	55.7	26.8	17.3

**Comet McNaught-Russell (1993v)**

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	Elements MPC 22932		
					$\epsilon$	$\phi$	$m_1$
1994 01 18	02 37.06	-52 16.9	1.350	1.517	79.4	39.6	16.0
1994 01 23	02 37.29	-50 57.3	1.302	1.453	77.5	41.4	15.7
1994 01 28	02 38.90	-49 27.6	1.251	1.390	75.8	43.4	15.4
1994 02 02	02 41.87	-47 46.9	1.196	1.327	74.3	45.6	15.1
1994 02 07	02 46.15	-45 53.7	1.137	1.266	72.8	48.1	14.8
1994 02 12	02 51.71	-43 45.7	1.074	1.206	71.5	50.9	14.5
1994 02 17	02 58.52	-41 19.8	1.008	1.149	70.3	54.0	14.1
1994 02 22	03 06.52	-38 31.3	0.939	1.095	69.1	57.6	13.8
1994 02 27	03 15.66	-35 13.3	0.867	1.044	68.0	61.6	13.4
1994 03 04	03 25.88	-31 16.2	0.794	0.998	66.9	66.1	13.0
1994 03 09	03 37.15	-26 26.9	0.721	0.957	65.7	71.0	12.6
1994 03 14	03 49.43	-20 28.5	0.649	0.922	64.3	76.3	12.2
1994 03 19	04 02.70	-13 00.3	0.583	0.896	62.9	81.7	11.9
1994 03 24	04 16.98	-03 43.0	0.527	0.877	61.5	86.7	11.5
1994 03 29	04 32.37	+07 29.5	0.486	0.868	60.4	90.4	11.3
1994 04 03	04 49.16	+20 11.0	0.465	0.869	60.3	92.0	11.2
1994 04 08	05 07.94	+33 14.5	0.467	0.880	61.5	90.7	11.3
1994 04 13	05 29.73	+45 19.6	0.491	0.899	63.6	87.1	11.5
1994 04 18	05 56.11	+55 32.2	0.533	0.927	66.2	82.1	11.8
1994 04 23	06 29.55	+63 36.5	0.587	0.963	68.7	76.6	12.2
1994 04 28	07 13.36	+69 37.7	0.649	1.005	71.0	71.3	12.6
1994 05 03	08 10.7	+73 44.6	0.715	1.052	73.0	66.4	13.0
1994 05 08	09 20.6	+76 02.8	0.783	1.103	74.8	62.0	13.4

**1994 AH<sub>2</sub>**

$a, e, i = 2.52, 0.71, 10$

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	Elements MPC 22935		
					$\epsilon$	$\phi$	$V$
1994 01 08	03 10.02	+01 08.5	1.049	1.730	116.7	30.5	18.1
1994 01 18	03 03.42	+01 52.3	1.059	1.628	105.7	35.6	18.1
1994 01 28	03 01.53	+03 01.4	1.069	1.524	95.7	40.0	18.1
1994 02 07	03 04.12	+04 31.6	1.072	1.417	86.9	44.0	18.1
1994 02 17	03 10.92	+06 19.5	1.065	1.309	79.1	47.8	18.0
1994 02 27	03 21.59	+08 23.0	1.043	1.200	72.2	51.8	17.9
1994 03 09	03 35.82	+10 40.9	1.005	1.091	66.2	56.4	17.7
1994 03 19	03 53.42	+13 14.1	0.946	0.987	61.0	61.9	17.6

**1993 XN<sub>2</sub>**

$a, e, i = 2.12, 0.54, 25$

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	Elements MPC 22935		
					$\epsilon$	$\phi$	$V$
1994 01 18	05 06.04	+63 41.1	0.771	1.581	128.1	29.3	17.7
1994 01 28	05 10.39	+61 57.6	0.897	1.656	123.2	29.9	18.2
1994 02 07	05 21.36	+60 09.5	1.031	1.729	118.0	30.2	18.6
1994 02 17	05 36.59	+58 21.5	1.173	1.801	112.7	30.4	18.9
1994 02 27	05 54.47	+56 35.0	1.321	1.872	107.3	30.3	19.3
1994 03 09	06 13.88	+54 49.8	1.475	1.941	102.0	30.0	19.6
1994 03 19	06 34.15	+53 05.2	1.633	2.009	96.6	29.5	19.9
1994 03 29	06 54.78	+51 20.5	1.795	2.074	91.3	28.8	20.1
1994 04 08	07 15.42	+49 35.3	1.959	2.138	86.1	27.9	20.3

**Periodic Comet Kushida-Muramatsu (1993t)**

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$m_1$
1994 01 18	05 09.60	+22 48.1	1.924	2.757	140.7	13.1	15.8
1994 01 28	05 08.20	+22 55.0	2.022	2.762	130.2	15.8	15.9
1994 02 07	05 09.51	+23 04.4	2.135	2.768	120.3	17.9	16.1
1994 02 17	05 13.43	+23 15.8	2.261	2.775	111.1	19.4	16.2
1994 02 27	05 19.74	+23 28.4	2.394	2.783	102.5	20.3	16.3
1994 03 09	05 28.15	+23 41.0	2.533	2.792	94.4	20.8	16.5
1994 03 19	05 38.37	+23 52.2	2.675	2.802	86.8	20.8	16.6
1994 03 29	05 50.12	+24 00.8	2.816	2.813	79.6	20.4	16.7
1994 04 08	06 03.13	+24 05.6	2.956	2.825	72.7	19.8	16.9
1994 04 18	06 17.19	+24 05.6	3.092	2.837	66.1	18.9	17.0
1994 04 28	06 32.06	+24 00.1	3.222	2.851	59.8	17.8	17.1
1994 05 08	06 47.56	+23 48.4	3.347	2.866	53.6	16.5	17.2
1994 05 18	07 03.54	+23 30.2	3.464	2.881	47.6	15.0	17.3
1994 05 28	07 19.84	+23 05.2	3.573	2.897	41.8	13.5	17.4
1994 06 07	07 36.34	+22 33.4	3.673	2.914	36.0	11.8	17.5
1994 06 17	07 52.93	+21 54.9	3.762	2.931	30.4	10.1	17.5

**Periodic Comet Mueller 5 (1993s)**

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$m_1$
1994 01 18	06 28.67	+23 29.6	3.434	4.366	158.8	4.7	17.6
1994 01 28	06 23.71	+23 57.9	3.494	4.357	147.5	7.0	17.6
1994 02 07	06 20.04	+24 23.7	3.579	4.348	136.5	9.0	17.7
1994 02 17	06 17.95	+24 46.9	3.686	4.339	125.9	10.6	17.7
1994 02 27	06 17.58	+25 07.6	3.809	4.331	115.7	11.9	17.8
1994 03 09	06 18.95	+25 25.8	3.943	4.324	106.0	12.8	17.8
1994 03 19	06 22.01	+25 41.7	4.085	4.316	96.7	13.2	17.9
1994 03 29	06 26.64	+25 55.0	4.230	4.309	87.8	13.4	18.0
1994 04 08	06 32.67	+26 05.8	4.374	4.302	79.3	13.2	18.0
1994 04 18	06 39.95	+26 13.7	4.514	4.296	71.2	12.8	18.1
1994 04 28	06 48.33	+26 18.5	4.647	4.290	63.3	12.1	18.2
1994 05 08	06 57.63	+26 20.1	4.771	4.285	55.7	11.2	18.2
1994 05 18	07 07.72	+26 18.3	4.885	4.280	48.4	10.2	18.3
1994 05 28	07 18.45	+26 13.0	4.985	4.275	41.2	9.0	18.3
1994 06 07	07 29.71	+26 04.0	5.072	4.271	34.2	7.7	18.3

**1994 AW<sub>1</sub>**

$a, e, i = 1.10, 0.08, 24$

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$
1994 01 18	07 01.08	+08 30.1	0.197	1.173	161.4	15.5	14.7
1994 01 28	06 26.40	-04 00.7	0.239	1.178	140.0	32.5	15.6
1994 02 07	06 08.42	-11 20.5	0.297	1.182	125.1	43.0	16.4
1994 02 17	06 02.12	-15 23.1	0.360	1.185	114.7	49.2	17.0
1994 02 27	06 03.70	-17 38.9	0.424	1.186	107.1	52.9	17.5
1994 03 09	06 10.64	-18 57.3	0.484	1.186	101.1	55.3	17.8
1994 03 19	06 21.60	-19 45.2	0.539	1.184	96.4	56.7	18.1
1994 03 29	06 35.70	-20 18.1	0.587	1.180	92.5	57.7	18.3
1994 04 08	06 52.38	-20 44.2	0.628	1.175	89.2	58.5	18.4

**1993 KH**

$a, e, i = 1.23, 0.31, 13$

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$
1994 01 18	08 28.52	+56 19.1	0.466	1.388	143.9	24.7	19.2
1994 01 28	07 53.87	+56 05.9	0.518	1.425	141.1	25.7	19.5
1994 02 07	07 30.24	+54 20.9	0.583	1.460	135.4	28.3	19.9

Elements MPC 22931

Elements MPC 22932

Elements MPC 22935

Elements MPC 22958

1994 02 17	07 18.82	+51 50.9	0.660	1.491	128.6	31.2	20.3
1994 02 27	07 17.33	+49 07.1	0.745	1.519	121.5	33.8	20.7
1994 03 09	07 22.82	+46 24.1	0.838	1.544	114.7	35.8	21.0

**Periodic Comet Kushida (1994a)**

Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	Elements MPC 22931		
					$\epsilon$	$\phi$	$m_1$
1994 01 18	09 49.39	+01 53.0	0.498	1.429	147.3	21.9	11.0
1994 01 28	09 49.35	+01 12.9	0.510	1.466	156.1	15.8	11.2
1994 02 07	09 46.82	+01 15.5	0.537	1.511	164.6	10.0	11.4
1994 02 17	09 43.66	+01 49.7	0.580	1.562	168.8	7.0	11.8
1994 02 27	09 41.67	+02 39.7	0.642	1.618	164.5	9.4	12.1
1994 03 09	09 41.87	+03 31.3	0.721	1.678	156.3	13.8	12.5
1994 03 19	09 44.70	+04 14.4	0.817	1.742	147.6	17.8	13.0
1994 03 29	09 50.11	+04 43.0	0.930	1.808	139.3	21.1	13.4
1994 04 08	09 57.71	+04 55.5	1.058	1.877	131.4	23.6	13.9
1994 04 18	10 07.11	+04 51.8	1.199	1.947	124.0	25.3	14.3
1994 04 28	10 17.89	+04 33.4	1.351	2.018	117.0	26.4	14.7
1994 05 08	10 29.68	+04 02.1	1.514	2.090	110.3	26.9	15.1

**(5660) 1974 MA**

		$a, e, i = 1.79, 0.76, 38$			Elements MPC 22578		
Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$
1994 01 18	15 16.47	-52 04.6	1.820	1.614	62.1	32.6	19.2
1994 01 28	15 33.52	-55 24.1	1.832	1.718	67.7	32.0	19.3
1994 02 07	15 48.03	-58 34.5	1.832	1.818	73.5	31.4	19.5
1994 02 17	15 58.97	-61 38.6	1.824	1.912	79.6	30.6	19.5
1994 02 27	16 04.92	-64 37.4	1.808	2.000	86.0	29.6	19.6
1994 03 09	16 03.83	-67 29.2	1.789	2.085	92.6	28.4	19.6
1994 03 19	15 52.8	-70 06.9	1.770	2.165	99.2	27.0	19.6
1994 03 29	15 28.6	-72 15.5	1.754	2.240	105.7	25.4	19.6
1994 04 08	14 50.3	-73 31.8	1.746	2.312	111.8	23.7	19.6
1994 04 18	14 03.5	-73 31.1	1.749	2.380	117.1	22.1	19.7
1994 04 28	13 19.9	-72 06.2	1.766	2.445	121.2	20.6	19.7
1994 05 08	12 48.06	-69 34.5	1.802	2.506	123.7	19.6	19.8
1994 05 18	12 29.19	-66 23.6	1.856	2.564	124.1	19.1	19.9
1994 05 28	12 20.59	-62 59.2	1.929	2.618	122.7	19.0	20.0
1994 06 07	12 19.19	-59 38.8	2.020	2.670	119.5	19.3	20.1
1994 06 17	12 22.74	-56 33.6	2.129	2.718	115.0	19.8	20.3
1994 06 27	12 29.70	-53 49.9	2.251	2.764	109.7	20.3	20.5

**(5604) 1992 FE**

		$a, e, i = 0.93, 0.41, 5$			Elements MPC 22476		
Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$
1994 01 18	15 18.45	-22 09.0	1.220	1.197	64.8	48.0	19.6
1994 01 28	15 43.43	-24 08.3	1.177	1.233	68.9	48.2	19.6
1994 02 07	16 08.34	-25 53.8	1.122	1.261	73.1	48.5	19.6
1994 02 17	16 33.17	-27 26.6	1.058	1.282	77.5	48.8	19.5
1994 02 27	16 57.96	-28 47.4	0.986	1.296	81.9	49.2	19.4
1994 03 09	17 22.82	-29 57.4	0.908	1.302	86.4	49.5	19.2
1994 03 19	17 47.80	-30 58.0	0.824	1.302	90.9	49.9	19.0
1994 03 29	18 13.14	-31 50.4	0.738	1.295	95.3	50.2	18.8
1994 04 08	18 39.23	-32 35.7	0.649	1.280	99.5	50.5	18.5
1994 04 18	19 06.69	-33 14.7	0.560	1.258	103.4	50.9	18.1
1994 04 28	19 36.75	-33 46.4	0.473	1.230	106.8	51.6	17.7
1994 05 08	20 11.78	-34 05.4	0.388	1.194	109.1	53.1	17.3

1994 05 18	20 56.05	-33 53.5	0.308	1.150	109.3	56.1	16.8
1994 05 28	21 57.92	-32 10.3	0.235	1.100	105.4	62.7	16.3

**1990 WW<sub>2</sub>**

		$a, e, i = 3.06, 0.45, 16$			Elements MPC 22600		
Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$
1994 01 18	15 32.62	-07 34.7	4.455	4.146	65.6	12.5	19.6
1994 01 28	15 39.45	-07 45.7	4.290	4.126	73.8	13.3	19.5
1994 02 07	15 45.31	-07 50.4	4.117	4.104	82.3	13.8	19.4
1994 02 17	15 49.99	-07 48.6	3.941	4.082	91.1	14.0	19.3
1994 02 27	15 53.33	-07 40.7	3.765	4.059	100.2	13.9	19.2
1994 03 09	15 55.14	-07 27.1	3.594	4.036	109.5	13.4	19.1
1994 03 19	15 55.26	-07 08.3	3.430	4.011	119.2	12.5	18.9
1994 03 29	15 53.61	-06 45.6	3.280	3.986	129.2	11.2	18.8
1994 04 08	15 50.15	-06 20.2	3.147	3.961	139.4	9.5	18.6
1994 04 18	15 44.99	-05 53.8	3.036	3.934	149.5	7.4	18.4
1994 04 28	15 38.38	-05 28.8	2.950	3.907	159.1	5.3	18.2
1994 05 08	15 30.71	-05 07.4	2.893	3.879	165.8	3.6	18.1
1994 05 18	15 22.52	-04 52.1	2.865	3.851	164.9	3.9	18.1
1994 05 28	15 14.42	-04 44.8	2.867	3.821	157.2	5.9	18.2
1994 06 07	15 06.97	-04 46.9	2.897	3.791	147.4	8.3	18.3
1994 06 17	15 00.69	-04 59.2	2.951	3.760	137.2	10.6	18.4
1994 06 27	14 55.95	-05 21.4	3.026	3.729	127.1	12.6	18.5
1994 07 07	14 52.93	-05 52.8	3.117	3.697	117.4	14.1	18.6
1994 07 17	14 51.74	-06 32.5	3.220	3.664	107.9	15.3	18.7
1994 07 27	14 52.35	-07 19.1	3.331	3.630	98.9	16.0	18.8
1994 08 06	14 54.68	-08 11.4	3.444	3.595	90.3	16.4	18.8
1994 08 16	14 58.64	-09 08.2	3.557	3.560	82.0	16.4	18.9

**1993 VB**

		$a, e, i = 1.91, 0.52, 5$			Elements MPC 22960		
Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$
1994 01 18	15 33.35	-34 48.5	0.119	0.929	59.5	114.2	19.1
1994 01 28	15 15.75	-23 16.3	0.154	0.957	75.3	95.8	18.8
1994 02 07	15 09.54	-16 13.5	0.190	1.000	88.6	80.4	18.7
1994 02 17	15 04.17	-11 13.6	0.222	1.054	101.3	66.8	18.7
1994 02 27	14 55.61	-07 08.1	0.251	1.117	114.3	53.9	18.7
1994 03 09	14 42.44	-03 31.1	0.280	1.186	128.0	41.3	18.7
1994 03 19	14 24.97	-00 21.2	0.315	1.259	142.1	29.0	18.8
1994 03 29	14 05.54	+02 09.0	0.359	1.333	155.5	18.1	18.8
1994 04 08	13 47.08	+03 48.7	0.418	1.409	165.1	10.5	19.0
1994 04 18	13 32.03	+04 35.5	0.492	1.484	164.5	10.4	19.5
1994 04 28	13 21.69	+04 36.8	0.584	1.559	156.3	15.1	20.1

**1993 VA**

		$a, e, i = 1.37, 0.40, 7$			Elements MPC 22796		
Date TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$
1994 01 18	15 39.99	-17 01.2	0.419	0.863	61.1	93.8	18.1
1994 01 28	16 03.47	-15 07.2	0.473	0.904	66.2	85.2	18.1
1994 02 07	16 25.86	-13 39.5	0.516	0.955	71.3	77.9	18.2
1994 02 17	16 46.17	-12 21.2	0.547	1.013	76.7	71.6	18.2
1994 02 27	17 03.60	-11 03.3	0.567	1.075	82.5	66.0	18.3
1994 03 09	17 17.50	-09 41.3	0.575	1.139	89.1	60.6	18.2
1994 03 19	17 27.07	-08 13.9	0.573	1.203	96.4	55.3	18.2
1994 03 29	17 31.54	-06 42.3	0.564	1.266	104.9	49.6	18.1
1994 04 08	17 30.12	-05 09.4	0.551	1.328	114.5	43.3	18.0
1994 04 18	17 22.13	-03 41.2	0.539	1.387	125.4	36.2	17.8



1994 04 28	17 07.65	-02 27.1	0.533	1.444	137.2	28.3	17.7	1994 06 07	11 16.70	+09 42.2	0.975	1.409	90.1	46.1	19.0
1994 05 08	16 47.93	-01 38.0	0.539	1.498	149.2	20.2	17.5	1994 06 17	11 40.17	+05 06.9	1.093	1.463	87.8	44.0	19.3
1994 05 18	16 25.63	-01 23.6	0.563	1.549	158.6	13.8	17.5	1994 06 27	12 02.02	+01 02.3	1.216	1.513	84.8	42.0	19.6
1994 05 28	16 04.33	-01 46.8	0.606	1.597	160.1	12.5	17.7								
1994 06 07	15 46.84	-02 42.4	0.670	1.641	153.3	16.1	18.1								
1994 06 17	15 34.63	-04 01.1	0.752	1.682	143.9	20.9	18.5								
1994 06 27	15 27.90	-05 33.7	0.848	1.720	134.4	25.0	19.0								
1994 07 07	15 26.04	-07 13.1	0.957	1.755	125.5	28.2	19.4								
1994 07 17	15 28.30	-08 54.6	1.075	1.786	117.3	30.4	19.7								
1994 07 27	15 33.92	-10 35.2	1.199	1.814	109.7	31.8	20.0								
1994 08 06	15 42.27	-12 12.8	1.328	1.839	102.6	32.6	20.3								
1994 08 16	15 52.87	-13 45.9	1.458	1.860	96.0	32.8	20.5								
1994 08 26	16 05.35	-15 13.2	1.589	1.879	89.7	32.5	20.7								

## OPPOSITION DATA

<b>1991 TB<sub>1</sub></b>								<b>Elements MPC 22955</b>									
Date	TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$	Planet	Opposition	$\alpha_{2000}$	$\delta_{2000}$	$V$	$\dot{\alpha}$	$\dot{\delta}$	$\phi_{\text{MIN}}$	MPC
								$a, e, i = 1.45, 0.35, 23$									
1994 01 18	15 46.75	-24 43.0	1.489	1.276	57.9	40.8	20.0	1982 EF	93 12 27.6	06 26.02	+01 49.2	16.8	-0.94	+ 1.6	7.9/28.6	21968	
1994 01 28	16 12.02	-28 27.2	1.470	1.329	61.9	40.8	20.1	1985 RS <sub>1</sub>	93 12 27.7	06 26.40	+27 24.8	17.2	-1.20	+ 1.0	1.6/27.6	22076	
1994 02 07	16 36.95	-31 56.3	1.445	1.382	66.2	40.8	20.1	1979 FA <sub>3</sub>	93 12 27.9	06 27.69	-03 37.9	16.5	-0.82	+ 0.5	7.8/29.0	21965	
1994 02 17	17 01.38	-35 13.0	1.412	1.434	70.9	40.6	20.1	1993 YE	93 12 28.0	06 27.97	+21 51.0	15.7	-1.13	+ 1.1	0.7/28.1	22965	
1994 02 27	17 25.09	-38 20.2	1.373	1.484	75.8	40.3	20.1	1992 SH	93 12 28.2	06 28.79	+05 29.9	17.4	-0.91	+ 0.6	5.5/29.0	21268	
1994 03 09	17 47.81	-41 21.5	1.330	1.532	81.1	39.8	20.1	1986 QP <sub>2</sub>	93 12 28.2	06 29.00	+21 33.9	17.8	-0.87	+ 1.0	0.5/28.4	22077	
1994 03 19	18 09.10	-44 21.1	1.282	1.578	86.7	39.0	20.1	(5398)	93 12 28.3	06 29.31	+30 53.0	15.5	-1.02	- 1.9	2.5/28.3	21246	
1994 03 29	18 28.43	-47 22.8	1.233	1.622	92.6	37.9	20.0	1981 EX <sub>3</sub>	93 12 28.4	06 29.88	+14 19.8	17.7	-0.97	- 1.9	3.5/28.6	22696	
1994 04 08	18 45.12	-50 30.9	1.183	1.663	98.8	36.5	20.0	1967 UT	93 12 28.5	06 30.37	+23 15.3	16.2	-1.12	+ 2.3	0.0/28.6	22072	
1994 04 18	18 58.09	-53 48.2	1.135	1.702	105.3	34.7	19.9	1982 BE <sub>1</sub>	93 12 29.1	06 32.63	+16 27.2	15.7	-0.98	+ 4.6	3.1/29.7	25001	
1994 04 28	19 05.92	-57 14.7	1.091	1.738	111.9	32.5	19.8	1987 SJ <sub>3</sub>	93 12 29.1	06 32.79	+67 12.5	16.4	-2.74	+ 1.0	19.6/27.5	22698	
1994 05 08	19 06.56	-60 46.2	1.053	1.772	118.4	30.1	19.7	1988 RW <sub>12</sub>	93 12 29.4	06 34.05	+23 28.3	18.9	-1.07	0.0	0.1/29.4	21972	
1994 05 18	18 57.13	-64 10.1	1.026	1.803	124.5	27.6	19.6	1989 TE	93 12 29.4	06 34.29	+22 17.4	17.3	-1.22	- 0.5	0.4/29.5	21973	
1994 05 28	18 34.92	-67 02.7	1.011	1.831	129.6	25.3	19.5	4040 P-L	93 12 29.4	06 34.32	+14 23.8	19.1	-0.94	+ 0.1	2.7/29.9	22694	
1994 06 07	17 59.72	-68 52.1	1.010	1.857	133.0	23.6	19.5	1993 XB <sub>1</sub>	93 12 29.5	06 34.69	+25 58.9	16.8	-1.09	+ 3.4	1.1/29.4	22964	
1994 06 17	17 17.94	-69 10.7	1.025	1.879	134.1	22.9	19.5	1989 SR <sub>1</sub>	93 12 29.6	06 35.21	+25 32.1	17.4	-1.20	+ 2.9	0.9/29.5	21572	
1994 06 27	16 40.96	-67 58.7	1.057	1.900	132.7	23.2	19.6	1989 SC <sub>1</sub>	93 12 29.7	06 35.19	+23 27.4	16.8	-1.20	+ 0.3	0.1/29.7	22081	
1994 07 07	16 16.13	-65 44.0	1.105	1.917	129.3	24.2	19.8	1981 UM <sub>22</sub>	93 12 29.7	06 35.21	+18 46.4	15.8	-0.87	+ 1.3	1.4/30.0	25001	
1994 07 17	16 04.08	-63 00.0	1.167	1.932	124.4	25.7	19.9	1983 EB <sub>1</sub>	93 12 29.7	06 35.55	+18 40.6	15.8	-1.06	+ 1.4	2.0/30.0	25002	
1994 07 27	16 02.17	-60 11.5	1.240	1.944	118.7	27.3	20.1	1989 VN <sub>5</sub>	93 12 29.7	06 35.61	+24 51.8	15.8	-1.08	- 0.2	0.8/29.7	22953	
1994 08 06	16 07.51	-57 31.4	1.324	1.954	112.7	28.6	20.3	1993 XA	93 12 29.7	06 35.70	+24 05.9	17.2	-1.09	+ 2.4	0.3/29.7	22963	
1994 08 16	16 18.03	-55 04.8	1.415	1.960	106.6	29.7	20.5	1978 RQ <sub>9</sub>	93 12 30.0	06 36.51	+34 05.0	17.2	-1.29	+ 0.1	4.5/29.5	21251	
1994 08 26	16 32.22	-52 52.4	1.511	1.964	100.5	30.4	20.7	1985 TR	93 12 30.0	06 36.80	+30 03.6	16.2	-1.15	+ 1.1	3.2/29.7	25002	
1994 09 05	16 49.04	-50 52.1	1.610	1.966	94.5	30.8	20.8	1189 T-3	93 12 30.4	06 38.32	+24 33.4	19.3	-1.12	- 0.2	0.5/30.4	21604	
<b>(5645) 1990 SP</b>								$a, e, i = 1.35, 0.39, 14$									
								<b>Elements MPC 22479</b>									
Date	TT	$\alpha_{2000}$	$\delta_{2000}$	$\Delta$	$r$	$\epsilon$	$\phi$	$V$	(5816)	93 12 30.5	06 38.78	+31 25.1	16.0	-1.02	- 1.4	2.8/30.3	22940
1994 02 27	01 45.47	+30 00.1	0.634	0.857	58.9	81.8	18.1	(5400)	93 12 30.6	06 39.41	+23 59.7	16.1	-0.94	+ 0.9	0.3/30.6	21247	
1994 03 09	02 37.46	+37 26.9	0.583	0.892	62.8	81.7	18.0	1989 TY <sub>4</sub>	93 12 30.9	06 40.55	+14 27.8	18.9	-1.12	+ 2.1	3.3/31.5	20818	
1994 03 19	03 44.98	+43 33.9	0.546	0.938	67.8	79.5	17.9	(5829)	93 12 30.9	06 40.91	+33 29.4	16.1	-1.30	- 0.1	4.9/30.5	22943	
1994 03 29	05 08.94	+46 47.9	0.528	0.991	73.9	75.4	17.8	1985 RG	93 12 31.1	06 41.67	+24 53.6	16.8	-1.16	+ 1.1	0.8/31.1	22076	
1994 04 08	06 38.53	+45 50.8	0.532	1.050	80.1	70.0	17.8	1991 PW <sub>12</sub>	93 12 31.1	06 41.88	+24 03.4	15.8	-0.89	+ 0.9	0.3/31.1	25004	
1994 04 18	07 57.13	+41 08.2	0.559	1.111	85.6	64.3	17.8	1984 SU <sub>3</sub>	93 12 31.2	06 41.82	+30 54.8	17.3	-1.19	+ 2.0	3.0/30.7	9415	
1994 04 28	08 58.10	+34 27.9	0.609	1.173	89.6	59.1	18.0	1986 RB <sub>12</sub>	93 12 31.3	06 42.37	+17 38.2	15.6	-0.90	- 2.5	1.6/31.4	22698	
1994 05 08	09 44.34	+27 25.1	0.679	1.234	91.8	54.8	18.2	3212 T-2	93 12 31.3	06 42.46	+12 29.0	18.3	-1.03	+ 2.7	4.5/01.2	22088	
1994 05 18	10 20.68	+20 48.5	0.766	1.295	92.5	51.3	18.5	1054 T-3	93 12 31.4	06 43.27	+59 57.3	19.7	-2.32	- 0.9	17.2/30.1	19330	
1994 05 28	10 50.70	+14 54.2	0.866	1.353	91.8	48.5	18.8	4592 P-L	93 12 31.5	06 43.27	+16 17.8	18.8	-0.94	+ 1.8	2.1/01.0	21600	
								1992 OG <sub>2</sub>	93 12 31.5	06 43.62	+18 31.0	16.4	-1.00	+ 3.4	1.9/01.0	22057	
								1992 SR <sub>2</sub>	93 12 31.6	06 43.79	+42 35.2	16.5	-1.23	+ 1.5	6.2/30.2	21977	

1992 RZ	93 12 31.8	06 44.87	+23 02.8	16.5	-0.97	+ 0.7	8.4/12.0	21977	1989 SQ	94 01 06.1	07 08.25	+24 57.6	15.2	-1.17	- 1.5	1.2/06.0	22952
1989 CL <sub>1</sub>	94 01 01.0	06 45.39	+24 38.7	16.2	-0.95	+ 1.9	0.6/31.9	22080	1992 OJ <sub>8</sub>	94 01 06.2	07 08.74	+25 28.3	16.5	-1.22	- 0.7	1.1/06.1	22956
1985 RJ <sub>5</sub>	94 01 01.1	06 46.27	+26 58.5	16.7	-1.17	+ 2.3	1.8/31.9	16697	1981 RF	94 01 06.5	07 10.04	+21 18.0	16.5	-1.11	+ 3.3	0.5/06.7	21933
1978 US <sub>5</sub>	94 01 01.2	06 46.28	+45 54.0	19.2	-1.23	+ 1.1	6.3/30.8	21965	1993 YJ	94 01 06.7	07 10.59	+23 42.2	16.3	-1.26	- 0.4	0.6/06.6	22965
1984 DZ	94 01 01.2	06 46.62	+34 14.5	17.7	-1.29	+ 0.4	4.1/31.6	22824	1989 SB	94 01 06.8	07 11.15	+27 01.6	17.3	-1.25	+ 1.4	1.7/06.5	22081
1979 MB <sub>6</sub>	94 01 01.2	06 46.63	+18 11.8	17.9	-1.19	+ 2.8	2.1/01.7	22270	1990 TN <sub>3</sub>	94 01 06.8	07 11.25	+62 48.6	16.5	-2.31	+ 0.9	19.4/02.9	21974
3189 T-2	94 01 01.5	06 47.77	+33 49.8	19.1	-1.20	+ 1.9	4.7/31.8	22701	1992 RC <sub>7</sub>	94 01 07.1	07 12.50	+20 32.6	16.9	-0.93	+ 2.5	0.6/07.4	22594
1993 XP	94 01 01.6	06 48.12	+17 50.9	15.8	-1.11	- 5.4	2.2/01.6	22963	1978 VF <sub>3</sub>	94 01 07.2	07 12.93	+24 49.4	17.3	-1.10	+ 2.4	1.2/07.0	22947
1978 VT <sub>10</sub>	94 01 01.7	06 48.84	+21 01.3	18.7	-1.12	+ 0.9	0.7/01.9	15876	1987 VR	94 01 07.3	07 13.31	+09 01.9	16.3	-0.86	+ 0.8	4.5/08.6	21787
1992 QG	94 01 01.9	06 49.63	+12 25.3	16.4	-1.04	+ 2.6	4.0/02.8	25004	(5594)	94 01 07.9	07 15.94	+16 58.4	16.2	-0.84	+ 3.9	1.6/08.6	22214
1991 NL <sub>1</sub>	94 01 02.1	06 50.40	+24 23.1	16.7	-0.88	+ 1.5	0.4/02.0	22273	1992 PY <sub>2</sub>	94 01 08.0	07 16.21	+22 20.3	14.7	-1.16	- 4.7	0.0/08.0	22956
1989 TF <sub>4</sub>	94 01 02.2	06 50.89	+14 36.1	17.8	-1.14	+ 2.6	3.5/02.9	22081	1981 EF <sub>14</sub>	94 01 08.1	07 16.90	+20 45.4	18.3	-1.18	+ 1.1	0.6/08.3	22429
1987 SM <sub>12</sub>	94 01 02.4	06 51.53	+24 32.8	17.2	-0.97	+ 1.0	0.6/02.3	22078	1992 GH	94 01 08.3	07 17.42	+57 47.4	16.8	-2.32	- 5.3	17.6/07.6	21977
1989 SZ <sub>1</sub>	94 01 02.4	06 51.66	+17 08.2	17.8	-1.16	+ 2.3	2.2/02.9	22699	1951 SY	94 01 08.3	07 17.43	-07 04.8	18.6	-0.98	+ 6.8	10.9/14.2	22491
1967 KB	94 01 02.4	06 51.69	+27 13.3	17.9	-1.07	+ 1.1	1.3/02.1	21963	1993 YH	94 01 08.3	07 17.59	+22 52.6	17.1	-0.89	+ 2.2	0.2/08.3	22965
1992 PJ	94 01 02.4	06 51.83	+21 53.9	18.0	-1.23	+ 0.1	0.4/02.5	21584	1979 SN <sub>4</sub>	94 01 08.3	07 17.76	+04 44.6	16.7	-0.92	+ 3.3	5.8/10.7	22073
1992 MB	94 01 02.5	06 52.04	+15 04.7	16.6	-1.14	+ 1.8	3.1/03.1	21977	1989 CX <sub>2</sub>	94 01 08.4	07 18.13	+18 52.0	17.0	-0.93	- 0.7	1.1/08.7	21972
1986 PW <sub>4</sub>	94 01 02.5	06 52.31	+21 17.4	17.4	-0.87	+ 1.1	0.4/02.7	22077	1981 EQ <sub>28</sub>	94 01 08.7	07 19.26	+17 45.6	16.3	-0.97	+ 3.1	1.8/09.3	25001
1986 WM <sub>5</sub>	94 01 02.6	06 52.50	+26 25.3	16.7	-0.93	- 1.1	1.0/02.4	22272	1991 RJ <sub>11</sub>	94 01 08.7	07 19.33	+22 20.0	18.7	-0.86	+ 2.1	0.0/08.7	20640
1991 GV <sub>1</sub>	94 01 03.0	06 54.44	+17 15.9	16.4	-0.99	+ 3.1	1.7/03.6	21975	1981 RJ <sub>5</sub>	94 01 08.7	07 19.54	+21 09.3	16.6	-0.92	+ 2.5	0.4/08.9	21254
1981 EX <sub>23</sub>	94 01 03.1	06 55.04	+21 13.0	19.1	-0.97	+ 0.7	0.5/03.3	21967	1992 RT	94 01 08.8	07 19.95	+20 45.4	16.7	-0.94	+ 2.7	0.5/09.0	21267
3100 T-3	94 01 03.2	06 55.54	+19 14.5	18.3	-1.08	+ 2.2	1.3/03.6	22088	1992 SB <sub>1</sub>	94 01 08.9	07 20.11	+45 38.4	16.5	-1.16	+ 0.2	6.7/06.7	22085
1992 ST <sub>1</sub>	94 01 03.5	06 56.68	+28 37.9	16.7	-1.01	- 0.1	1.7/03.2	21117	1989 TD	94 01 09.2	07 21.45	+23 44.6	17.8	-1.23	+ 1.0	0.7/09.1	21973
1990 HF <sub>1</sub>	94 01 03.5	06 56.74	+07 57.2	15.2	-0.84	+ 6.2	4.5/05.6	25003	1981 EG <sub>24</sub>	94 01 09.2	07 21.55	+23 10.9	19.6	-0.98	+ 1.5	0.3/09.1	21967
1989 TU <sub>10</sub>	94 01 03.7	06 57.71	+10 43.8	15.9	-1.01	+ 3.4	6.0/05.1	22953	1991 EU	94 01 09.3	07 22.22	+23 04.2	15.7	-1.12	+ 5.7	0.5/09.2	22083
1981 EP <sub>40</sub>	94 01 03.8	06 58.15	+11 24.4	18.6	-1.10	+ 1.8	4.2/04.9	21968	1992 PW <sub>1</sub>	94 01 09.6	07 23.42	+19 32.5	16.1	-1.11	+ 2.7	1.1/09.9	22956
1981 EK <sub>41</sub>	94 01 03.9	06 58.55	+12 22.4	17.0	-1.10	+ 1.7	4.4/04.8	25001	1980 PB <sub>2</sub>	94 01 09.9	07 24.82	+07 32.2	17.2	-0.79	+ 2.0	4.0/11.8	22074
1986 QO <sub>2</sub>	94 01 04.0	06 58.62	+21 58.8	17.3	-0.87	+ 1.6	0.2/04.1	21105	1989 SS <sub>2</sub>	94 01 10.0	07 25.17	+16 15.5	18.2	-1.13	+ 4.4	2.3/10.8	20817
1989 AB <sub>3</sub>	94 01 04.1	06 59.42	+19 42.7	15.8	-0.92	+ 5.2	1.1/04.6	22952	1985 JU <sub>1</sub>	94 01 10.2	07 25.75	+24 45.7	17.5	-1.20	+ 4.4	1.1/09.8	21934
1978 PM <sub>3</sub>	94 01 04.3	07 00.33	+12 14.5	16.6	-0.93	+ 3.7	3.5/05.6	22947	1981 ES <sub>27</sub>	94 01 10.5	07 27.49	+34 37.3	19.7	-1.35	+ 1.9	5.5/09.1	19859
1981 EV <sub>22</sub>	94 01 04.5	07 01.04	+17 47.5	16.6	-0.99	+ 2.2	1.9/05.0	22949	(5434)	94 01 10.6	07 27.69	-00 29.5	15.5	-0.79	+ 3.8	7.2/14.1	21909
1978 VL <sub>10</sub>	94 01 04.6	07 01.62	+20 05.0	16.7	-0.95	+ 1.8	0.9/04.9	22947	2040 P-L	94 01 10.6	07 27.82	+29 43.2	19.7	-1.33	+ 1.6	3.2/09.9	22700
1979 MU <sub>8</sub>	94 01 04.7	07 01.89	+14 24.7	15.8	-1.01	+ 6.6	3.1/05.8	25001	1978 WC	94 01 10.6	07 27.89	+28 08.6	16.6	-1.15	+ 7.3	2.9/09.7	22073
1993 XN <sub>1</sub>	94 01 04.8	07 02.60	+26 39.4	16.3	-1.07	+ 6.0	1.3/04.4	22964	1987 HK	94 01 10.8	07 28.53	+22 31.2	17.0	-1.05	+ 1.9	0.2/10.8	21970
1982 ST	94 01 04.9	07 02.53	+58 56.1	16.2	-2.33	- 8.0	18.4/06.3	22697	1975 XF	94 01 10.8	07 28.69	+13 58.2	17.5	-1.10	+ 4.6	3.1/12.0	21964
3067 T-2	94 01 04.9	07 02.82	+20 44.8	16.7	-1.19	+ 2.9	0.9/05.1	22701	1991 ED	94 01 10.8	07 28.76	+33 27.6	17.7	-1.26	+ 3.1	4.4/09.4	18128
(5792)	94 01 05.0	07 03.26	+22 26.7	15.8	-1.12	+ 5.4	0.1/05.1	22935	1978 ON	94 01 10.9	07 28.78	+27 06.0	15.7	-1.03	+ 2.1	1.8/10.3	22823
9057 P-L	94 01 05.0	07 03.29	+25 17.7	17.4	-1.19	+ 0.5	1.1/04.9	20830	1989 EH <sub>6</sub>	94 01 11.2	07 30.47	+21 28.2	17.8	-0.85	+ 2.3	0.1/11.3	22080
(5809)	94 01 05.1	07 03.57	+22 06.9	16.4	-0.94	+ 2.5	0.2/05.2	22939	1981 EP <sub>19</sub>	94 01 11.4	07 31.01	+17 17.5	16.9	-1.13	+ 3.6	2.0/12.0	22074
1352 T-2	94 01 05.1	07 03.79	+21 45.6	16.5	-1.10	+ 1.6	0.4/05.2	15080	1981 US <sub>14</sub>	94 01 11.4	07 31.12	+24 07.3	16.6	-1.11	+ 3.3	0.9/11.1	22075
1993 XG <sub>1</sub>	94 01 05.1	07 03.81	+24 05.6	15.6	-0.97	- 0.9	0.5/05.1	22964	1990 FM <sub>1</sub>	94 01 11.7	07 32.69	+19 15.1	15.5	-0.95	+ 5.8	1.0/12.2	16437
6058 P-L	94 01 05.1	07 03.93	+31 24.7	19.4	-1.14	+ 0.6	2.9/04.5	19875	1981 EA <sub>12</sub>	94 01 11.8	07 32.96	+17 47.1	17.5	-1.12	+ 2.0	1.9/12.3	22823
1993 XK <sub>1</sub>	94 01 05.2	07 04.11	+25 12.2	17.0	-0.98	+ 2.5	0.9/05.0	22964	1981 SE <sub>2</sub>	94 01 12.0	07 33.71	+22 11.6	17.2	-1.12	+ 3.8	0.2/12.0	25001
1989 BA <sub>1</sub>	94 01 05.3	07 04.69	-18 32.0	16.9	-1.15	- 8.7	15.0/06.0	21972	1981 EF <sub>42</sub>	94 01 12.1	07 34.31	+24 01.8	19.1	-0.99	+ 2.4	0.7/11.9	21968
1991 CX	94 01 05.3	07 04.79	+18 16.5	16.2	-1.16	+ 0.8	2.0/05.7	25003	1987 KD <sub>1</sub>	94 01 12.2	07 34.57	+04 19.5	17.2	-0.91	+ 4.3	5.1/14.9	21970
1992 PH <sub>1</sub>	94 01 05.4	07 04.96	+25 08.9	18.3	-1.26	+ 0.1	1.0/05.3	22085	4186 P-L	94 01 12.2	07 34.78	+18 37.0	19.3	-1.03	+ 2.3	1.0/12.7	22086
1981 EY <sub>39</sub>	94 01 05.5	07 05.31	+20 48.0	19.1	-1.16	+ 1.8	0.8/05.7	20629	1981 TJ <sub>3</sub>	94 01 12.2	07 34.80	+21 34.7	16.2	-0.90	+ 3.0	0.0/12.3	22074
3175 T-3	94 01 05.6	07 05.68	+25 51.6	19.0	-0.97	+ 1.6	1.1/05.3	21127	1991 HM	94 01 12.3	07 35.35	+36 07.7	17.1	-1.22	+ 4.9	5.3/10.1	20508
(5387)	94 01 05.7	07 06.32	+20 47.0	17.9	-1.08	+ 1.4	0.6/05.9	21242	1981 PF	94 01 12.4	07 35.31	+10 34.9	18.5	-1.03	+ 5.5	3.7/14.2	20811
1992 UO <sub>4</sub>	94 01 06.1	07 07.87	+33 19.3	15.5	-0.95	+ 4.2	3.0/04.7	25004	6602 P-L	94 01 12.4	07 35.41	+33 30.9	19.1	-1.34	+ 1.6	5.3/11.1	22701
1978 UV <sub>7</sub>	94 01 06.1	07 08.19	+15 25.0	17.5	-0.93	+ 1.5	2.3/06.8	22947	1986 CV <sub>1</sub>	94 01 12.7	07 36.71	+22 57.0	16.4	-1.15	- 2.4	0.5/12.6	25002

1986 QB <sub>3</sub>	94 01 12.7	07 36.95	+23 21.9	17.3	-0.88	+ 2.6	0.5/12.5	25002	1992 OE	94 01 17.9	07 59.13	+45 45.7	18.1	-1.47	- 3.3	7.8/15.6	22432
1981 EX <sub>10</sub>	94 01 12.9	07 37.79	+10 42.6	19.3	-0.93	+ 1.9	3.5/14.3	22492	1989 WD	94 01 17.9	07 59.20	+31 28.3	15.3	-1.17	+ 5.5	4.5/16.0	25003
1986 UY	94 01 12.9	07 37.95	+29 48.8	16.2	-1.27	+ 0.7	3.9/12.1	25002	1992 UQ	94 01 17.9	07 59.37	+14 44.6	16.5	-0.98	+ 3.5	1.9/19.0	22085
1988 VD <sub>5</sub>	94 01 13.0	07 37.89	-00 07.0	15.6	-0.90	+ 2.2	8.9/16.1	16029	1974 RY <sub>1</sub>	94 01 18.0	07 59.31	+16 43.7	18.1	-1.06	+ 3.4	1.3/18.6	22822
1978 VE <sub>15</sub>	94 01 13.0	07 38.06	+25 09.6	16.3	-1.15	+ 3.9	1.6/12.5	25001	1981 EF <sub>13</sub>	94 01 18.0	07 59.31	+33 39.3	18.0	-1.17	- 1.1	4.9/16.5	21100
1986 TB <sub>5</sub>	94 01 13.1	07 38.34	+23 36.4	17.6	-0.85	+ 2.1	0.5/12.8	21970	1981 SM	94 01 18.0	07 59.79	+20 55.2	15.9	-1.11	+ 1.3	0.1/18.0	21968
7643 P-L	94 01 13.1	07 38.41	+16 14.8	16.8	-1.09	+ 5.3	2.5/13.9	22274	1981 EO <sub>16</sub>	94 01 18.4	08 01.12	+07 01.9	19.7	-1.10	+ 3.0	5.3/21.0	22949
1992 RQ	94 01 13.1	07 38.45	+21 13.7	18.0	-0.89	+ 2.7	0.1/13.2	21114	1984 DR	94 01 18.4	08 01.37	+16 01.1	15.9	-1.04	+ 7.2	2.1/19.4	22950
1981 EO <sub>32</sub>	94 01 13.1	07 38.76	+19 37.0	19.8	-0.98	+ 1.1	0.6/13.4	22271	1988 TQ	94 01 18.5	08 01.77	+21 55.6	16.9	-1.01	+ 4.0	0.5/18.3	22080
1992 RM <sub>7</sub>	94 01 13.3	07 39.17	+24 05.6	17.7	-0.93	+ 2.7	0.9/12.9	22957	1992 RZ <sub>5</sub>	94 01 18.5	08 01.82	+23 51.9	16.1	-1.06	+ 4.9	1.5/18.0	22957
1991 FO	94 01 13.3	07 39.28	+10 50.4	16.3	-1.06	+ 3.2	4.5/14.8	21109	1977 AL <sub>1</sub>	94 01 18.6	08 02.05	+30 56.9	16.6	-1.06	+ 5.2	3.4/16.7	21964
1981 EZ <sub>15</sub>	94 01 13.3	07 39.68	+23 18.2	17.3	-1.21	- 0.8	0.9/13.2	21967	1981 EH <sub>19</sub>	94 01 18.6	08 02.40	+26 12.9	16.9	-1.22	+ 2.6	2.5/17.8	22823
1991 PB <sub>12</sub>	94 01 13.5	07 40.11	+14 58.8	17.2	-0.82	+ 0.9	1.7/14.3	22273	4262 T-2	94 01 18.7	08 02.63	+24 27.8	18.7	-1.21	+ 4.9	1.7/18.1	22088
1991 GG <sub>10</sub>	94 01 13.5	07 40.46	+21 04.2	15.8	-1.06	+ 5.8	0.2/13.6	18826	1988 RB <sub>12</sub>	94 01 18.8	08 03.08	+27 02.6	18.6	-1.10	+ 2.0	2.1/17.9	22079
1988 VQ <sub>2</sub>	94 01 13.6	07 40.51	+42 38.6	17.0	-1.24	+ 4.2	6.7/10.4	21972	1287 T-1	94 01 18.9	08 03.26	+17 16.4	18.0	-1.12	+ 3.2	1.3/19.4	22701
1992 UK <sub>1</sub>	94 01 13.7	07 41.11	+15 50.2	17.1	-0.94	+ 0.6	1.7/14.4	21945	1983 CZ <sub>2</sub>	94 01 18.9	08 03.31	+25 06.5	15.9	-1.16	- 1.1	2.2/18.4	8138
1981 EW <sub>38</sub>	94 01 13.9	07 42.09	+20 02.3	18.9	-0.99	+ 1.0	0.5/14.1	22697	1986 PN <sub>4</sub>	94 01 18.9	08 03.46	+25 24.0	16.9	-0.95	- 0.3	1.4/18.3	22698
1992 RM <sub>2</sub>	94 01 13.9	07 42.19	+37 19.8	18.1	-1.25	- 0.5	5.4/12.3	22432	1991 PS <sub>6</sub>	94 01 19.8	08 07.01	+21 20.3	16.2	-0.88	+ 4.1	0.4/19.6	22083
3081 P-L	94 01 14.5	07 44.68	+07 42.2	17.1	-0.85	+ 1.2	4.1/16.5	22821	(5412)	94 01 19.8	08 07.31	+24 01.6	17.9	-1.09	+ 3.1	1.3/19.2	21543
1038 T-2	94 01 14.5	07 44.68	+18 14.5	19.4	-1.17	+ 2.9	1.4/15.0	16242	6073 P-L	94 01 19.9	08 07.43	+24 25.5	18.4	-1.00	+ 2.0	1.4/19.2	22087
1989 CJ <sub>1</sub>	94 01 14.6	07 45.06	-03 08.2	15.3	-1.24	+19.3	11.0/21.5	25003	1989 RG	94 01 20.1	08 08.62	+21 57.5	15.8	-1.18	+ 0.9	0.8/19.9	22952
1970 OF	94 01 14.9	07 46.05	+25 42.5	17.4	-1.10	+ 0.9	1.5/14.4	22072	1931 TC <sub>2</sub>	94 01 20.2	08 08.90	+29 38.3	17.2	-1.08	+ 1.5	2.9/18.8	22696
1992 RJ	94 01 14.9	07 46.05	+09 09.5	16.5	-0.91	+ 4.7	4.3/17.0	21114	1981 EA <sub>22</sub>	94 01 20.2	08 09.07	+05 07.2	18.0	-0.87	+ 5.3	5.0/23.3	22598
1977 RD <sub>2</sub>	94 01 14.9	07 46.42	+25 41.7	16.4	-0.98	+ 2.8	1.6/14.3	22073	1992 NM	94 01 20.4	08 09.91	+20 20.9	16.4	-1.13	+ 5.5	0.1/20.4	22085
1989 NK <sub>1</sub>	94 01 15.1	07 47.14	+19 34.9	14.5	-1.17	+ 9.3	11.9/05.0	22952	1989 YA <sub>2</sub>	94 01 20.4	08 09.96	+16 27.6	15.8	-1.03	- 0.4	1.7/21.0	22699
6045 P-L	94 01 15.1	07 47.26	+08 16.8	15.8	-0.90	+ 2.5	5.4/17.1	22827	1991 PE <sub>1</sub>	94 01 20.4	08 10.01	+12 35.2	19.0	-0.77	+ 5.3	1.8/22.0	22083
1981 EA <sub>5</sub>	94 01 15.2	07 47.61	+11 51.2	18.0	-0.99	- 0.5	3.7/16.3	20497	1976 SK <sub>3</sub>	94 01 20.5	08 10.15	+34 51.9	16.8	-1.01	+ 1.9	4.3/18.0	22270
2280 T-2	94 01 15.3	07 47.85	+15 51.7	17.1	-1.12	+ 3.8	2.4/16.0	22274	1981 ED <sub>43</sub>	94 01 21.0	08 12.32	+30 21.6	18.4	-1.00	+ 2.3	2.9/19.3	21968
1977 EK <sub>1</sub>	94 01 15.3	07 47.90	+11 48.4	17.0	-1.08	+ 3.0	4.1/16.6	21559	1989 EC <sub>2</sub>	94 01 21.0	08 12.49	+28 15.8	16.6	-0.91	+ 2.6	2.5/19.6	21973
7063 P-L	94 01 15.5	07 48.77	+15 46.3	18.1	-1.08	+ 2.1	1.8/16.2	25005	1987 VA <sub>1</sub>	94 01 21.0	08 12.57	+40 59.7	15.4	-1.09	+ 2.8	6.6/17.0	22825
1988 RE <sub>10</sub>	94 01 15.8	07 50.21	+17 46.1	19.4	-1.02	+ 3.4	1.1/16.4	22272	1990 BZ	94 01 21.3	08 13.41	+24 17.9	16.4	-1.22	- 3.0	1.8/20.9	21108
1981 EL <sub>12</sub>	94 01 15.8	07 50.25	+21 19.2	18.4	-1.18	+ 0.6	11.4/27.0	22270	1983 RY <sub>4</sub>	94 01 21.3	08 13.72	+11 01.2	16.1	-0.97	+ 1.3	2.9/22.8	25002
1976 UP <sub>2</sub>	94 01 15.9	07 50.50	+30 13.8	17.9	-1.29	+ 2.7	4.0/14.7	15699	2636 P-L	94 01 21.3	08 13.85	+16 28.6	17.6	-1.09	+ 4.2	1.3/22.0	22086
1987 WT <sub>1</sub>	94 01 16.1	07 51.27	+23 28.7	16.7	-0.87	+ 3.7	0.8/15.7	19021	1988 RN <sub>11</sub>	94 01 21.4	08 13.98	+18 31.1	18.9	-0.54	+ 1.8	0.2/21.7	20146
2093 P-L	94 01 16.1	07 51.69	+07 50.5	17.6	-0.83	+ 1.9	3.9/18.2	21977	1989 CW <sub>2</sub>	94 01 21.4	08 14.22	+10 21.0	16.6	-0.87	+ 1.1	2.9/23.0	21972
1990 BB <sub>2</sub>	94 01 16.2	07 51.86	+24 19.7	15.7	-1.16	- 2.8	1.4/15.9	22953	4119 P-L	94 01 21.5	08 14.45	+12 57.7	18.9	-1.12	+ 4.3	2.6/22.8	22086
1992 OO	94 01 16.3	07 52.26	+16 07.1	17.1	-1.09	+11.3	1.7/17.4	22407	1981 EU <sub>8</sub>	94 01 22.0	08 16.30	+25 44.5	16.7	-1.09	- 0.3	2.2/21.2	22074
1984 SC <sub>1</sub>	94 01 16.3	07 52.28	+40 31.4	17.7	-1.28	+ 0.5	6.6/13.9	22599	1988 RT <sub>11</sub>	94 01 22.1	08 16.99	+22 03.9	18.6	-1.04	+ 3.1	1.0/21.7	18114
5004 P-L	94 01 16.3	07 52.42	+05 32.4	17.4	-0.81	+ 2.2	4.1/18.8	21600	3295 T-2	94 01 22.1	08 17.13	+13 01.3	18.6	-0.99	+ 5.2	2.4/23.5	21126
3474 T-3	94 01 16.4	07 52.83	+25 36.8	17.7	-1.13	+ 4.0	1.9/15.7	20519	1992 UG <sub>4</sub>	94 01 22.2	08 17.48	+28 01.9	17.0	-0.91	+ 3.5	2.4/20.7	21590
3196 T-3	94 01 16.4	07 52.85	+23 00.3	18.3	-1.07	+ 3.4	0.7/16.1	22088	1991 GU <sub>9</sub>	94 01 22.2	08 17.52	+27 54.4	16.2	-1.06	+ 7.3	3.0/20.5	18440
1988 RR <sub>2</sub>	94 01 16.5	07 53.20	+18 31.4	17.8	-1.05	+ 3.5	0.8/16.9	22079	1987 BB <sub>2</sub>	94 01 22.4	08 18.23	+15 43.6	16.0	-1.02	+ 2.8	2.0/23.1	12207
1986 TR <sub>3</sub>	94 01 16.7	07 53.81	+21 46.8	18.0	-0.84	+ 2.2	0.2/16.6	22078	1991 JH <sub>1</sub>	94 01 22.5	08 18.71	+17 38.7	16.3	-1.09	+ 4.7	0.8/22.9	22431
1987 YL <sub>1</sub>	94 01 16.9	07 54.68	+11 42.5	17.1	-0.79	+ 5.0	2.4/18.6	21971	1981 VK	94 01 22.5	08 18.83	+20 40.4	17.4	-0.86	+ 2.8	0.3/22.4	21102
1981 EV <sub>7</sub>	94 01 17.0	07 55.30	+16 21.0	18.9	-0.95	+ 1.7	1.5/17.7	22270	1981 EL <sub>33</sub>	94 01 22.7	08 19.56	+18 13.7	19.3	-1.13	+ 2.2	0.4/23.0	22599
(5822)	94 01 17.2	07 55.95	+27 17.2	15.4	-1.05	+ 6.1	3.1/16.0	22942	1990 UR <sub>1</sub>	94 01 22.7	08 19.60	-19 11.0	16.0	-1.27	- 1.0	18.2/30.5	25003
1991 CX <sub>2</sub>	94 01 17.2	07 56.33	+13 36.0	17.2	-1.11	+ 4.6	2.7/18.4	22083	2140 P-L	94 01 22.8	08 19.66	+32 26.9	17.3	-1.10	+ 1.1	4.1/20.7	21977
3005 P-L	94 01 17.2	07 56.39	+16 35.6	18.4	-0.91	+ 0.2	1.3/17.8	22700	1972 TF	94 01 22.8	08 20.01	+13 00.0	17.2	-1.10	+ 5.1	2.6/24.1	22822
1981 SJ	94 01 17.3	07 56.56	+21 29.7	18.3	-1.11	+ 2.6	0.3/17.2	22697	1978 OP	94 01 22.8	08 20.04	+24 31.1	18.3	-0.95	+ 6.7	1.5/21.8	22696
1990 HR	94 01 17.7	07 58.46	+42 11.5	16.4	-1.00	+ 3.5	5.6/13.8	22082	2908 T-2	94 01 23.0	08 20.56	+09 30.2	17.3	-0.98	+ 4.1	4.1/24.9	21978
1992 UG <sub>2</sub>	94 01 17.9	07 59.03	+40 36.1	16.7	-1.21	+ 3.2	6.5/14.4	21589	1986 AH	94 01 23.3	08 21.84	+17 27.9	15.4	-1.25	+23.3	0.9/23.9	22824

1991 FE <sub>1</sub>	94 01 23.4	08 22.17	+20 01.3	15.0	-1.16	+ 1.8	0.3/23.3	22954	1981 ET <sub>15</sub>	94 01 29.5	08 47.69	+35 52.9	17.4	-1.20	- 0.7	6.3/26.4	22948
1981 UT <sub>7</sub>	94 01 23.5	08 22.62	+18 48.9	17.3	-0.83	+ 3.1	0.2/23.6	22271	5175 T-3	94 01 29.6	08 48.04	+27 16.9	16.7	-0.96	+11.0	4.2/26.9	22702
1990 BU	94 01 23.5	08 22.70	+26 37.2	15.9	-1.14	- 0.1	2.5/22.5	22082	1986 TL	94 01 29.6	08 48.13	+16 10.5	16.6	-0.84	+ 1.7	0.4/30.0	21970
2221 P-L	94 01 23.5	08 22.81	+13 43.5	20.0	-1.13	+ 3.3	2.2/24.5	22274	(5668)	94 01 29.8	08 49.11	+29 13.5	16.1	-1.19	+ 3.3	5.1/27.5	22579
1991 GC <sub>7</sub>	94 01 23.5	08 22.85	+29 27.6	17.2	-1.19	+ 3.5	4.6/21.7	22826	1981 QE	94 01 29.8	08 49.12	+16 00.9	17.2	-1.06	+ 4.4	0.7/30.2	21563
2150 T-2	94 01 23.8	08 24.04	+04 25.7	18.6	-0.84	+ 3.7	4.1/26.9	16037	1953 GH	94 01 29.9	08 49.25	+05 50.1	16.1	-0.79	+ 4.6	3.5/01.7	22822
1989 SL <sub>1</sub>	94 01 24.0	08 24.88	+19 35.0	15.4	-1.08	+ 6.8	0.1/24.0	25003	1989 EQ	94 01 29.9	08 49.28	+18 57.0	15.3	-0.96	+ 0.4	0.4/29.7	22431
1987 SH <sub>7</sub>	94 01 24.2	08 25.65	+09 04.4	16.0	-1.52	- 6.3	4.8/25.0	22951	1977 EX	94 01 30.0	08 49.78	+15 46.9	15.4	-1.10	- 1.5	0.8/30.3	19856
(5536)	94 01 24.4	08 26.79	+09 14.5	15.5	-1.11	+ 2.0	4.1/26.2	22037	(5813)	94 01 30.0	08 49.96	+02 34.4	16.7	-0.89	+ 5.2	4.9/02.7	22940
1992 SR <sub>12</sub>	94 01 24.4	08 26.86	+23 14.9	16.3	-0.94	+ 3.4	1.4/23.7	25004	1978 VB <sub>6</sub>	94 01 30.1	08 49.99	-18 50.7	18.0	-1.09	- 1.4	12.9/05.2	22270
1981 QE <sub>1</sub>	94 01 24.5	08 26.91	+17 22.6	16.5	-1.08	+ 3.2	0.8/24.9	21563	1977 FN	94 01 30.4	08 51.54	+03 30.9	16.9	-0.96	+ 0.8	4.7/02.1	19012
1986 WB <sub>1</sub>	94 01 24.7	08 27.84	+12 45.6	15.8	-1.07	+ 2.1	3.1/25.8	22078	1988 QY	94 01 30.9	08 53.54	-19 35.5	18.0	-0.52	+ 1.4	6.0/09.9	20814
1979 XQ	94 01 25.0	08 28.88	+25 24.1	16.8	-1.18	+ 3.8	2.5/23.8	22823	1991 FT	94 01 30.9	08 53.66	+27 48.2	16.9	-1.18	+ 2.8	3.8/28.9	21975
1986 EQ <sub>5</sub>	94 01 25.1	08 29.58	+38 01.3	15.5	-1.17	+ 2.4	6.5/21.4	22077	1991 NA <sub>2</sub>	94 01 31.0	08 53.70	+18 02.8	17.0	-0.93	+ 7.0	0.2/30.9	21976
1992 OK	94 01 25.2	08 29.99	+09 35.1	19.1	-0.94	+ 2.6	2.8/27.1	21267	6783 P-L	94 01 31.1	08 54.17	+25 50.9	19.4	-1.00	+ 3.2	2.8/29.3	21600
1981 EO <sub>35</sub>	94 01 25.3	08 30.16	+13 26.3	19.6	-1.12	+ 2.4	2.1/26.3	22430	6519 P-L	94 01 31.1	08 54.29	+23 12.6	16.2	-0.90	+ 3.2	2.2/29.9	22274
1988 XH <sub>1</sub>	94 01 25.3	08 30.38	+33 40.8	16.5	-1.04	+ 5.4	4.4/22.1	22080	1974 OE	94 01 31.2	08 54.75	+28 26.5	17.4	-1.18	+ 3.2	4.1/28.9	21963
1985 RK <sub>5</sub>	94 01 25.3	08 30.55	+22 25.4	19.3	-1.09	+ 4.8	1.2/24.7	14350	1989 WR	94 01 31.2	08 54.87	+28 43.5	17.3	-1.21	+ 3.5	4.2/29.0	15723
1987 DF	94 01 25.4	08 30.97	-01 56.1	16.1	-0.98	+ 9.7	7.5/30.6	22078	(5476)	94 01 31.6	08 56.31	+01 45.0	17.6	-0.50	+ 2.5	2.7/04.5	21774
1982 SH <sub>1</sub>	94 01 25.5	08 30.96	-17 05.2	18.9	-1.08	+ 9.9	16.4/05.7	8393	1989 SB <sub>3</sub>	94 01 31.6	08 56.36	+17 04.3	18.6	-1.09	+ 6.4	0.1/31.7	20818
1991 PR <sub>12</sub>	94 01 25.8	08 32.20	+18 19.7	17.9	-0.80	+ 2.9	6.3/06.0	22273	1989 TU <sub>5</sub>	94 01 31.6	08 56.50	+18 16.4	17.5	-0.54	+ 2.4	0.2/31.4	22431
1992 SO <sub>24</sub>	94 01 25.8	08 32.48	+05 46.5	17.3	-0.96	+ 3.2	5.5/28.4	22689	1985 QL <sub>4</sub>	94 02 01.2	08 58.81	+19 40.7	16.8	-0.79	+ 4.7	0.7/31.6	21970
1991 GA <sub>1</sub>	94 01 25.9	08 32.64	-08 53.2	17.5	-0.96	+ 5.0	8.7/31.9	21975	1991 JL	94 02 01.3	08 58.98	+08 29.7	16.9	-1.04	+ 5.6	3.6/03.2	18442
4250 T-3	94 01 26.0	08 33.47	+16 58.8	18.1	-1.03	+ 5.2	0.7/26.5	16884	1981 EA <sub>29</sub>	94 02 01.4	08 59.47	+05 01.4	18.2	-0.89	+ 5.5	4.2/04.4	22697
1986 QS <sub>3</sub>	94 01 26.1	08 33.60	+14 33.0	17.5	-0.82	+ 5.8	1.2/27.1	21970	1152 T-2	94 02 01.4	08 59.56	+23 59.9	18.4	-1.08	+ 3.7	2.3/30.9	21808
1986 RD <sub>5</sub>	94 01 26.3	08 34.73	+22 21.0	17.1	-0.88	+ 2.5	1.0/25.7	22077	1992 QA	94 02 02.3	09 03.16	+68 29.5	17.5	-2.43	+ 5.9	23.4/16.0	22600
1985 UQ	94 01 26.5	08 35.42	+22 59.5	18.1	-1.08	+ 5.0	1.5/25.7	21970	3104 T-3	94 02 02.6	09 04.28	-03 50.6	17.6	-0.49	+ 2.9	3.5/08.1	22601
1981 EJ <sub>23</sub>	94 01 26.7	08 36.15	+23 09.8	17.3	-1.01	+ 2.3	1.7/25.9	22430	1988 VH	94 02 02.7	09 04.84	-01 44.9	17.3	-0.92	+ 2.7	5.8/06.9	22080
1981 EM <sub>30</sub>	94 01 27.0	08 37.28	+17 46.7	17.8	-0.95	+ 4.4	0.3/27.2	20810	9512 P-L	94 02 02.7	09 04.88	+16 57.6	16.0	-1.10	+ 6.0	0.1/02.7	22827
1983 AB	94 01 27.1	08 38.07	+22 29.8	15.9	-1.02	+ 5.8	1.8/26.3	21969	1991 GE <sub>2</sub>	94 02 02.7	09 04.89	+28 20.0	16.9	-1.05	+ 8.0	3.8/30.6	21793
1986 TZ <sub>1</sub>	94 01 27.3	08 38.47	+24 27.6	16.1	-1.19	+ 6.2	2.5/26.1	22493	1989 CE <sub>2</sub>	94 02 02.7	09 05.15	+22 33.1	15.0	-1.85	- 9.0	3.0/02.4	25003
(5807)	94 01 27.7	08 40.50	+18 12.5	17.3	-0.83	+ 3.6	0.0/27.8	22939	1981 EM <sub>45</sub>	94 02 03.1	09 06.34	+21 54.2	19.6	-1.01	+ 1.3	1.7/02.0	22271
1936 NB	94 01 27.8	08 40.54	+13 30.9	15.8	-0.88	+ 0.2	1.2/28.7	25001	1978 UJ <sub>4</sub>	94 02 03.1	09 06.44	+08 59.4	19.5	-1.05	+ 4.4	2.7/05.0	20921
1981 EA <sub>7</sub>	94 01 27.8	08 40.57	+12 36.4	18.1	-1.14	+ 2.6	2.2/28.9	21966	1977 XZ <sub>2</sub>	94 02 03.1	09 06.68	+17 31.8	16.8	-0.86	+ 3.5	0.3/03.0	21783
1982 PC	94 01 27.9	08 41.16	+14 56.2	18.0	-1.08	+ 5.3	1.2/28.7	22075	1981 EE <sub>11</sub>	94 02 03.2	09 07.21	+17 03.8	18.9	-1.13	+ 3.7	4.2/03.2	22270
1981 EO <sub>15</sub>	94 01 28.0	08 41.42	+07 11.8	16.7	-0.90	+ 3.4	3.9/30.3	22074	1981 EV <sub>41</sub>	94 02 03.5	09 08.11	+17 27.5	18.2	-0.96	+ 3.1	0.4/03.3	22430
1982 SA <sub>4</sub>	94 01 28.0	08 41.71	+26 26.4	17.0	-1.17	+ 3.9	2.9/26.4	22075	(5540)	94 02 03.5	09 08.17	+09 34.3	18.6	-0.92	+ 4.2	2.0/05.2	22038
1979 PA	94 01 28.1	08 41.76	+00 18.9	18.7	-0.91	+ 2.7	5.3/31.7	21965	1985 RL <sub>3</sub>	94 02 03.6	09 08.39	+26 21.1	16.4	-1.12	+ 6.9	3.9/01.1	25002
1989 XO	94 01 28.1	08 41.97	+14 01.1	15.1	-1.10	+ 1.0	1.8/28.9	21973	1992 UT <sub>5</sub>	94 02 03.7	09 08.86	+14 05.6	15.5	-0.87	+ 4.0	0.7/04.3	22085
(5817)	94 01 28.2	08 42.68	+46 27.6	14.4	-1.94	-15.1	14.8/29.1	22941	1992 UB <sub>1</sub>	94 02 03.7	09 09.09	+05 57.8	16.5	-1.02	+ 3.4	3.8/06.1	22085
1992 UV	94 01 28.3	08 42.74	+06 35.6	16.1	-0.84	+ 2.8	3.5/30.8	22085	(5677)	94 02 04.0	09 10.02	+14 07.1	16.0	-0.88	+ 4.2	0.7/04.5	22581
1992 OY <sub>2</sub>	94 01 28.4	08 43.03	+17 24.7	17.9	-1.01	+ 5.6	0.3/28.6	21977	(5419)	94 02 04.0	09 10.10	+14 04.4	16.9	-0.83	+ 2.6	0.6/04.6	21546
1992 SX <sub>17</sub>	94 01 28.4	08 43.17	+39 15.8	15.9	-1.17	- 1.4	6.7/25.0	21270	3060 T-2	94 02 04.0	09 10.19	+21 34.0	16.5	-0.98	+ 5.2	2.4/02.8	21978
1991 NE <sub>1</sub>	94 01 28.5	08 43.44	+17 25.0	16.6	-0.88	+ 1.1	0.2/28.7	22231	1988 RO <sub>10</sub>	94 02 04.1	09 10.58	+04 13.9	20.5	-0.49	+ 4.3	2.1/07.5	15891
1981 EL <sub>10</sub>	94 01 28.5	08 43.57	+17 16.0	18.5	-0.95	+ 2.3	0.3/28.7	25001	1989 SL	94 02 04.1	09 10.68	+04 58.0	16.5	-1.07	+ 4.0	4.5/06.7	22081
1992 SV <sub>12</sub>	94 01 28.7	08 44.28	+28 38.8	17.3	-1.21	+ 2.9	3.8/26.7	21118	1988 SW <sub>1</sub>	94 02 04.1	09 10.71	+37 40.0	19.3	-0.64	+ 1.9	3.7/29.4	21972
1976 SG <sub>2</sub>	94 01 28.8	08 44.81	+08 49.0	15.7	-1.04	+ 6.4	4.2/31.0	22482	9535 P-L	94 02 04.2	09 10.79	+10 53.3	18.4	-0.87	+ 5.7	1.8/05.6	22087
2319 T-2	94 01 29.0	08 45.48	+14 06.0	18.5	-1.12	+ 4.5	1.5/29.8	21125	1991 NU	94 02 04.4	09 11.60	-06 25.5	16.3	-0.90	+ 3.1	7.3/09.8	22083
1988 TN <sub>2</sub>	94 01 29.0	08 45.59	-04 07.5	17.2	-0.89	+ 5.4	7.1/03.5	25003	1982 RW	94 02 04.5	09 12.23	+16 52.5	17.5	-1.11	+ 4.2	0.3/04.4	22824
1986 UG	94 01 29.3	08 47.09	+17 45.2	16.3	-1.11	+ 5.8	0.1/29.4	25002	1980 RP	94 02 04.6	09 12.84	+25 33.5	17.8	-0.91	+ 1.0	2.4/02.6	22823
1991 PE	94 01 29.5	08 47.56	+18 23.7	17.8	-0.79	+ 3.6	0.1/29.4	25004	1991 QE	94 02 05.1	09 14.85	+47 42.4	17.6	-1.14	+ 1.2	7.8/28.3	22084



(5495)	94 02 14.2	09 50.89	+25 50.7	16.5	-0.80	+ 3.1	3.3/10.7	21909	1992 SG <sub>1</sub>	94 02 18.3	10 06.77	+06 29.1	17.1	-0.85	+ 9.6	1.7/20.0	21116
1991 NG	94 02 14.6	09 52.21	-05 31.7	15.8	-0.95	+ 1.8	5.8/19.2	22083	1978 SA <sub>7</sub>	94 02 18.5	10 07.43	+15 21.7	17.2	-0.94	+ 3.1	1.2/17.6	22073
1988 RT <sub>12</sub>	94 02 14.7	09 52.44	+06 34.6	20.1	-0.46	+ 2.8	1.0/16.6	21972	1976 QC <sub>1</sub>	94 02 18.7	10 08.35	+11 38.3	17.7	-1.09	+ 5.3	0.1/18.7	22823
1992 WA <sub>4</sub>	94 02 14.7	09 52.74	+21 54.5	17.4	-0.81	+ 4.4	2.5/12.2	22274	1978 UL <sub>6</sub>	94 02 18.8	10 08.42	+08 24.5	19.1	-1.01	+ 5.7	1.1/19.7	21560
(5613)	94 02 14.7	09 52.81	+14 46.5	16.7	-0.83	+ 4.0	0.6/14.3	22389	1989 YR	94 02 19.0	10 09.21	+15 02.1	16.2	-0.95	+ 6.9	1.6/18.0	22081
1988 PK	94 02 14.8	09 53.03	+10 53.3	18.5	-0.94	+ 6.1	0.6/15.4	22430	1107 T-2	94 02 19.0	10 09.25	+08 38.0	18.9	-0.85	+ 4.4	0.8/19.8	21978
1990 TV <sub>12</sub>	94 02 14.8	09 53.10	-17 54.5	18.1	-0.50	+ 1.8	4.9/24.6	19867	1982 UF <sub>7</sub>	94 02 19.0	10 09.36	-00 00.8	17.1	-0.78	+ 5.0	3.2/22.5	21564
1971 SX <sub>3</sub>	94 02 14.8	09 53.14	-02 57.3	15.7	-0.81	+ 8.5	6.0/20.0	22696	1992 UC <sub>4</sub>	94 02 19.2	10 10.00	+14 22.2	16.1	-0.79	+ 5.6	1.0/18.3	21590
1991 NV <sub>3</sub>	94 02 14.9	09 53.48	+17 09.0	16.6	-0.86	+ 4.9	1.3/13.7	22826	(5423)	94 02 19.3	10 10.59	+12 04.7	15.4	-1.00	+ 3.4	0.4/19.2	21548
(5391)	94 02 14.9	09 53.57	+13 34.4	16.6	-1.05	+ 4.8	0.3/14.8	21243	1988 RY <sub>10</sub>	94 02 19.4	10 10.91	+13 01.1	19.1	-0.49	+ 2.9	0.3/18.9	21972
1975 VV <sub>2</sub>	94 02 15.0	09 53.62	+36 46.9	18.5	-0.93	+ 2.8	6.0/08.1	21963	1975 TR <sub>2</sub>	94 02 19.5	10 11.31	+13 04.6	17.2	-0.76	+ 5.1	0.5/19.0	21963
(5449)	94 02 15.0	09 53.69	+13 10.8	16.4	-0.89	+ 2.0	0.1/14.9	21557	(5397)	94 02 19.6	10 11.71	-06 41.5	17.2	-0.87	+ 5.9	5.5/25.1	21245
2251 T-1	94 02 15.1	09 54.04	+17 31.6	18.0	-0.91	+ 3.8	1.7/13.8	22087	1983 RM <sub>2</sub>	94 02 19.7	10 11.83	+15 48.8	18.3	-0.89	+ 5.4	1.3/18.3	22271
1991 JY <sub>1</sub>	94 02 15.2	09 54.61	-20 02.4	16.7	-0.86	+ 5.4	9.2/25.8	20639	1988 RD <sub>12</sub>	94 02 19.7	10 12.21	+11 57.1	19.0	-0.50	+ 2.4	0.1/19.5	15560
2035 T-3	94 02 15.3	09 55.05	+14 23.0	19.4	-0.51	+ 2.1	0.3/14.9	22432	1985 UF <sub>5</sub>	94 02 19.8	10 12.33	+04 51.4	16.6	-0.95	+ 6.9	2.5/21.7	22077
1978 QA <sub>2</sub>	94 02 15.3	09 55.10	+08 42.2	18.7	-0.99	+ 6.2	1.3/16.5	21964	1988 SG <sub>3</sub>	94 02 20.1	10 13.68	+33 46.9	19.9	-0.56	+ 3.1	3.6/12.4	15892
1991 NQ	94 02 15.4	09 55.24	-12 10.1	16.2	-1.27	- 4.6	10.1/19.3	22273	1992 PT <sub>2</sub>	94 02 20.1	10 13.76	+03 58.9	17.3	-1.00	+ 5.8	2.6/22.2	22495
1989 GB <sub>1</sub>	94 02 15.4	09 55.34	+04 05.0	16.1	-0.77	+ 4.5	2.7/17.9	21973	1986 TQ	94 02 20.3	10 14.14	+20 06.1	17.2	-0.93	+ 1.1	2.6/18.0	21970
1975 SK	94 02 15.4	09 55.39	+16 12.8	17.0	-0.81	+ 4.3	1.0/14.4	21963	1977 QN <sub>2</sub>	94 02 20.3	10 14.20	+09 46.4	19.0	-0.98	+ 4.8	0.4/20.6	22429
(5386)	94 02 15.7	09 56.70	+25 53.5	16.4	-1.08	+ 7.7	4.9/11.8	21241	1977 EG <sub>7</sub>	94 02 20.4	10 14.90	+06 09.1	17.9	-0.96	+ 7.4	1.6/21.9	21964
1988 RG <sub>1</sub>	94 02 15.8	09 56.87	+06 13.2	17.7	-0.47	+ 4.7	1.0/17.9	21972	1981 RF <sub>7</sub>	94 02 20.5	10 14.89	+15 36.4	18.4	-0.87	+ 2.9	1.3/19.2	22074
1991 JD <sub>1</sub>	94 02 16.1	09 57.90	-03 16.1	16.4	-1.01	+ 3.5	5.9/20.0	22083	(5442)	94 02 20.5	10 15.04	+11 51.6	17.0	-0.84	+ 4.3	0.3/20.2	21555
1991 GR <sub>2</sub>	94 02 16.2	09 58.65	+15 15.9	17.6	-1.04	+ 5.0	1.0/15.5	21793	1990 BJ	94 02 20.5	10 15.12	-18 10.7	16.8	-1.22	+ 0.1	10.3/28.2	21973
1988 RA <sub>2</sub>	94 02 16.2	09 58.68	+10 39.4	17.5	-0.94	+ 5.8	0.5/16.8	25002	1981 EK <sub>12</sub>	94 02 20.9	10 16.64	+01 07.7	17.9	-0.98	+ 6.7	4.1/23.8	22270
1987 SG <sub>1</sub>	94 02 16.3	09 59.07	+03 37.5	18.4	-0.86	+ 7.2	2.6/19.0	22078	1989 RJ	94 02 21.0	10 17.04	+04 47.6	16.8	-1.02	+ 7.5	2.5/22.8	22272
4667 P-L	94 02 16.4	09 59.42	+21 44.0	18.3	-0.92	+ 3.8	2.7/13.9	15904	1987 QF <sub>7</sub>	94 02 21.0	10 17.18	+00 41.6	17.7	-0.82	+ 5.0	2.8/24.1	22272
1988 SD	94 02 16.4	09 59.49	+18 44.7	17.2	-1.05	+ 4.2	2.2/14.8	22431	1991 NL	94 02 21.2	10 17.62	-12 56.5	17.5	-0.92	+ 2.9	7.2/27.8	19309
1991 PQ <sub>1</sub>	94 02 16.5	09 59.48	+12 11.6	17.1	-0.82	+ 5.2	0.0/16.5	21976	1988 RX <sub>4</sub>	94 02 21.2	10 17.93	+14 51.4	17.6	-0.95	+ 6.0	1.4/20.0	25002
(5445)	94 02 16.5	09 59.65	+01 38.5	14.8	-0.97	+ 3.3	4.3/19.2	21556	1977 NK	94 02 21.3	10 18.05	+14 20.5	16.8	-0.97	+ 7.9	1.3/20.2	22073
1982 TB <sub>2</sub>	94 02 16.6	10 00.23	+04 24.3	16.1	-1.03	+ 4.5	3.2/18.7	21968	1989 UF	94 02 21.3	10 18.24	+01 30.9	17.2	-0.99	+ 7.8	3.6/24.1	22081
1992 RG <sub>4</sub>	94 02 16.7	10 00.49	+08 52.2	19.5	-0.95	+ 7.5	1.1/17.7	21586	(5648)	94 02 21.5	10 19.05	+38 16.2	17.0	-0.57	+ 2.6	4.1/11.9	22480
1981 EM <sub>13</sub>	94 02 16.7	10 00.53	+02 02.8	18.1	-0.99	+ 5.3	4.6/19.5	22270	1991 NY	94 02 21.5	10 19.09	+05 08.9	18.0	-0.87	+ 5.7	1.5/23.2	21975
7606 P-L	94 02 16.8	10 01.00	+16 31.5	20.7	-1.00	+ 5.7	1.4/15.7	16242	1988 VS <sub>2</sub>	94 02 21.6	10 19.48	-06 46.8	17.3	-0.84	+ 6.5	5.2/27.2	21260
1983 RC <sub>4</sub>	94 02 16.8	10 01.03	+11 50.1	18.9	-0.88	+ 6.6	0.1/17.0	22076	1980 PZ	94 02 21.7	10 19.57	+07 21.3	17.3	-1.02	+ 2.7	1.0/22.5	21561
1988 RG <sub>10</sub>	94 02 16.9	10 01.36	+13 16.2	18.4	-0.52	+ 2.4	0.2/16.6	21972	1979 FD <sub>2</sub>	94 02 21.7	10 19.74	+11 24.2	15.4	-0.88	+ 7.1	0.4/21.5	25001
1981 EW <sub>9</sub>	94 02 17.0	10 01.60	+11 01.1	18.0	-1.10	+ 4.0	0.4/17.3	22397	1981 EZ <sub>18</sub>	94 02 21.7	10 19.88	+08 21.4	17.2	-0.88	+ 4.7	0.7/22.4	19858
1991 JA	94 02 17.1	10 01.85	+26 48.8	16.7	-1.10	+ 5.5	6.0/12.9	18441	1991 NM <sub>6</sub>	94 02 21.8	10 20.28	+11 03.3	16.1	-0.83	+ 6.6	0.2/21.7	20023
1992 OF	94 02 17.1	10 02.18	+17 39.3	19.0	-0.97	+ 5.2	1.7/15.6	25004	1981 EW <sub>33</sub>	94 02 21.8	10 20.29	+06 04.4	19.6	-0.86	+ 4.8	1.3/23.1	11046
1990 FS <sub>1</sub>	94 02 17.2	10 02.56	+21 04.2	15.5	-0.84	+10.9	3.4/14.2	22082	1988 RL <sub>13</sub>	94 02 21.9	10 20.29	+30 51.6	20.0	-0.55	+ 2.5	3.3/15.1	21972
1989 AL <sub>7</sub>	94 02 17.3	10 02.99	+11 49.7	16.9	-0.82	+ 5.1	0.0/17.4	22226	1992 SN	94 02 21.9	10 20.51	+06 21.1	16.6	-0.93	+ 3.7	1.3/23.1	21115
3034 P-L	94 02 17.5	10 03.63	-02 13.6	17.9	-0.77	+ 4.1	3.9/21.7	22086	1988 UA	94 02 21.9	10 20.64	+08 36.8	17.9	-0.93	+ 5.3	0.5/22.5	22080
1982 VY <sub>2</sub>	94 02 17.6	10 03.77	+13 59.1	16.7	-0.82	+ 5.4	0.7/17.0	22075	1983 AN <sub>2</sub>	94 02 22.0	10 20.67	+26 21.7	16.1	-0.84	+ 4.8	4.4/17.0	22271
1949 QL	94 02 17.6	10 03.81	+13 19.5	16.1	-1.13	+ 3.6	0.5/17.3	21559	1981 EB <sub>37</sub>	94 02 22.0	10 20.74	+16 29.0	18.2	-0.98	+ 2.7	2.1/20.4	22430
1979 QK <sub>6</sub>	94 02 17.7	10 04.09	+15 06.4	17.8	-1.05	+ 7.0	1.1/16.8	25001	1949 QC <sub>1</sub>	94 02 22.1	10 21.07	+09 58.4	17.4	-1.10	+ 3.8	0.1/22.2	22072
1983 NR	94 02 17.7	10 04.10	+04 08.6	16.4	-1.04	+ 0.8	2.6/19.5	22076	1988 SP <sub>2</sub>	94 02 22.1	10 21.35	+05 50.1	20.6	-0.45	+ 3.6	0.7/23.6	15560
1981 EA <sub>26</sub>	94 02 17.8	10 04.70	+08 12.0	17.3	-0.85	+ 5.1	1.5/18.9	21967	(5447)	94 02 22.2	10 21.57	+13 32.6	15.7	-0.93	+ 1.7	1.1/21.4	21557
1981 VU	94 02 17.9	10 04.89	+09 01.8	17.4	-0.98	+ 6.0	1.0/18.7	22430	(5593)	94 02 22.2	10 21.80	+07 34.7	15.3	-0.89	+ 9.1	1.2/23.1	22213
1981 ER <sub>24</sub>	94 02 18.0	10 05.43	+09 03.3	18.7	-1.03	+ 6.1	1.1/18.8	22697	1992 WC <sub>8</sub>	94 02 22.3	10 21.86	+14 18.5	16.3	-0.83	+ 5.5	1.3/21.1	22274
(5443)	94 02 18.1	10 05.87	+08 24.5	15.0	-1.11	- 0.3	1.4/18.9	21555	1981 EY <sub>18</sub>	94 02 22.3	10 22.04	+06 39.2	17.2	-1.05	+ 5.3	1.5/23.3	21561
1989 EC	94 02 18.1	10 05.94	+25 05.0	14.4	-2.05	-11.7	7.2/17.1	17207	1992 VD	94 02 22.6	10 23.15	+15 38.4	17.0	-0.90	+ 5.3	1.8/21.0	21593
1978 SP <sub>5</sub>	94 02 18.1	10 06.08	+07 54.9	17.2	-0.84	+ 5.6	1.2/19.3	22696	1990 XZ	94 02 22.6	10 23.29	+55 36.7	16.4	-1.83	- 0.4	19.5/07.8	18635

1992 WC <sub>2</sub>	94 02 22.7	10 23.41	+10 37.5	17.6	-0.78	+ 4.5	0.2/22.6	22238	7075 P-L	94 02 26.4	10 37.43	-01 06.8	18.7	-0.73	+ 5.6	2.5/01.6	20516
1988 RP <sub>12</sub>	94 02 22.7	10 23.54	+09 41.8	19.5	-0.50	+ 3.4	0.1/22.9	15714	3176 T-2	94 02 26.6	10 38.41	+14 35.2	17.6	-1.00	+ 4.2	2.4/25.0	18133
1989 TS <sub>2</sub>	94 02 22.7	10 23.59	+11 05.2	18.3	-0.47	+ 3.9	0.2/22.4	16236	1981 ES <sub>21</sub>	94 02 27.0	10 39.87	+16 02.9	16.9	-1.10	- 0.1	2.9/25.3	22949
1988 PM <sub>1</sub>	94 02 22.8	10 23.65	+09 11.3	18.0	-0.94	+ 6.1	0.3/23.0	20501	1987 DD <sub>6</sub>	94 02 27.1	10 40.30	+08 51.2	16.5	-0.91	+ 8.3	0.2/27.0	18811
3201 T-2	94 02 22.8	10 23.84	+12 36.5	17.6	-0.83	+ 5.9	0.8/22.0	22088	1989 WH <sub>4</sub>	94 02 27.1	10 40.41	+12 13.8	15.5	-0.97	+ 8.3	1.5/26.0	21973
3063 P-L	94 02 22.8	10 23.92	+02 37.8	17.2	-0.75	+ 3.0	2.0/25.0	20648	1240 T-1	94 02 27.2	10 40.54	+14 27.0	17.6	-0.89	+ 3.2	1.7/25.5	21122
1987 MK	94 02 23.1	10 25.05	+08 37.2	17.2	-0.95	+ 2.2	0.4/23.5	22078	1991 NS <sub>2</sub>	94 02 27.3	10 40.79	+02 41.9	17.1	-0.86	+ 7.5	1.9/01.1	22273
(5420)	94 02 23.1	10 25.14	+22 02.7	17.6	-0.88	+ 5.4	3.4/19.4	21547	(5395)	94 02 27.5	10 41.71	+06 18.7	18.7	-0.89	+ 7.6	0.6/28.2	21245
1982 UE	94 02 23.1	10 25.18	+16 51.5	16.8	-1.05	+ 6.3	2.5/21.2	22075	4317 T-3	94 02 27.7	10 42.59	+05 38.9	19.7	-0.46	+ 3.7	0.4/28.7	22088
1989 UA <sub>3</sub>	94 02 23.2	10 25.18	+07 16.5	18.4	-1.01	+ 6.8	1.0/24.0	20818	(5416)	94 02 27.8	10 42.64	+20 56.2	17.3	-0.86	+ 4.7	3.4/23.8	21545
1991 RQ <sub>14</sub>	94 02 23.2	10 25.37	+12 43.0	18.7	-0.74	+ 4.2	0.7/22.4	21578	(5458)	94 02 27.9	10 43.03	-04 11.3	16.9	-0.72	+ 5.2	3.4/03.9	21767
(5511)	94 02 23.2	10 25.42	+05 29.8	16.7	-0.47	+ 3.7	0.7/24.7	21916	1981 DZ	94 02 27.9	10 43.10	-07 33.1	16.9	-0.84	+ 5.0	5.7/04.8	22270
1989 UU <sub>3</sub>	94 02 23.3	10 25.95	+06 17.4	17.6	-1.00	+ 7.2	1.4/24.4	18632	1981 RG <sub>5</sub>	94 02 27.9	10 43.27	+16 12.0	16.7	-1.04	+ 4.1	2.8/25.7	22074
1979 QX <sub>3</sub>	94 02 23.4	10 26.10	+07 25.6	16.7	-0.78	+ 2.6	0.6/24.1	21965	1991 SM <sub>1</sub>	94 02 28.0	10 43.75	+04 10.4	18.0	-0.72	+ 4.4	0.9/01.3	19316
1991 NT <sub>2</sub>	94 02 23.4	10 26.12	-05 13.5	16.1	-0.96	+ 2.1	4.9/27.4	22273	(5832)	94 02 28.1	10 43.93	+39 07.0	15.5	-0.96	+ 9.1	9.3/16.2	22944
1980 FY <sub>4</sub>	94 02 23.6	10 26.91	+05 12.2	18.2	-0.94	+ 7.0	1.5/25.0	22074	1992 TH <sub>1</sub>	94 02 28.1	10 44.05	+14 18.7	15.2	-0.84	+10.1	2.0/26.0	21271
1981 ET <sub>10</sub>	94 02 23.6	10 26.92	+10 30.9	17.4	-0.99	+ 1.9	0.3/23.4	20011	1990 EX <sub>2</sub>	94 02 28.2	10 44.24	-00 00.3	17.3	-0.82	+ 7.9	2.4/02.9	21974
1981 EQ <sub>24</sub>	94 02 23.7	10 27.21	+04 06.3	18.3	-1.01	+ 7.2	2.2/25.0	22271	1991 PZ <sub>11</sub>	94 02 28.2	10 44.49	-04 39.8	16.1	-1.00	+ 0.9	4.8/03.5	22232
1988 XG <sub>2</sub>	94 02 23.7	10 27.25	-02 08.0	16.7	-0.88	+ 4.1	4.2/27.2	25003	2508 P-L	94 02 28.2	10 44.50	+13 37.6	19.4	-1.04	+ 4.4	1.8/26.7	22495
1988 RE <sub>12</sub>	94 02 24.0	10 28.23	+03 32.0	21.6	-0.45	+ 3.9	0.9/26.0	15560	1987 VT	94 02 28.3	10 44.67	+34 43.6	17.0	-0.98	+ 3.4	7.3/19.6	21971
1992 WB <sub>9</sub>	94 02 24.0	10 28.46	+10 11.8	17.7	-0.81	+ 4.2	0.2/23.9	22407	1988 RY <sub>11</sub>	94 02 28.4	10 45.09	+05 29.5	19.8	-0.46	+ 5.3	0.4/01.3	15892
1992 VQ	94 02 24.1	10 29.02	+10 50.8	17.2	-0.79	+ 5.0	0.4/23.8	22432	1979 OQ <sub>5</sub>	94 02 28.4	10 45.28	+03 09.0	16.9	-0.79	+ 3.6	1.4/01.9	21965
1142 T-3	94 02 24.2	10 29.25	+02 08.0	16.9	-1.00	+ 3.6	2.6/26.2	22088	1988 VB <sub>1</sub>	94 02 28.5	10 45.34	+17 05.4	17.1	-1.05	+ 2.2	2.9/26.1	21972
1982 VV <sub>10</sub>	94 02 24.2	10 29.42	+13 57.5	16.4	-0.99	+ 6.8	1.8/22.9	22492	1989 CL <sub>3</sub>	94 02 28.6	10 45.90	-02 42.3	17.0	-0.82	+ 5.2	3.0/04.0	21972
1992 SG	94 02 24.2	10 29.45	+21 47.5	15.7	-1.18	- 0.5	4.7/21.5	25004	4101 T-3	94 02 28.6	10 45.90	+35 21.8	18.8	-0.64	+ 1.2	4.6/19.3	15909
2400 T-3	94 02 24.4	10 29.90	+07 24.1	16.5	-0.99	+ 4.1	0.8/25.0	21954	1990 OH <sub>4</sub>	94 02 28.8	10 46.59	+03 50.4	17.6	-0.73	+ 6.1	1.1/02.0	22082
1989 UC <sub>5</sub>	94 02 24.5	10 30.16	-00 17.5	20.8	-0.46	+ 3.1	1.5/27.7	18118	1988 RS <sub>12</sub>	94 02 28.9	10 47.03	+03 06.3	20.6	-0.48	+ 3.0	0.8/02.5	22431
2247 T-3	94 02 24.7	10 31.12	+05 31.7	16.9	-1.04	+ 4.2	1.5/25.8	19883	1981 ES <sub>20</sub>	94 03 01.0	10 47.15	+07 48.8	18.6	-0.88	+ 4.6	0.0/29.0	11045
4277 T-1	94 02 24.8	10 31.35	+05 30.7	16.7	-0.70	+ 6.1	1.0/26.0	19880	1990 OF <sub>1</sub>	94 03 01.1	10 47.88	+07 38.5	16.3	-0.70	+ 7.4	0.0/01.2	17446
2281 T-2	94 02 24.8	10 31.38	+09 58.1	17.4	-0.87	+ 4.4	0.2/24.6	21953	5490 T-2	94 03 01.2	10 47.87	-04 05.0	18.7	-0.93	+ 5.6	4.0/04.8	22274
1992 UO <sub>2</sub>	94 02 24.8	10 31.45	+28 36.1	15.8	-1.10	+ 2.1	6.1/19.5	22085	1991 JU	94 03 01.2	10 48.04	+22 07.6	16.9	-1.07	+ 5.1	5.2/24.8	22083
1986 QO <sub>1</sub>	94 02 24.9	10 31.67	+13 40.1	17.7	-0.81	+ 5.5	1.3/23.5	19674	1981 SN <sub>1</sub>	94 03 01.5	10 49.15	+08 23.3	18.8	-0.75	+ 5.0	0.2/01.3	25001
1979 FQ <sub>2</sub>	94 02 25.1	10 32.55	+26 22.0	16.4	-0.88	+ 4.1	5.2/19.7	21965	1988 TD	94 03 01.5	10 49.18	+05 27.4	17.4	-0.93	+ 5.4	0.6/02.2	22079
1992 WH	94 02 25.1	10 32.77	+00 24.5	17.1	-0.95	+ 5.8	3.1/27.8	22237	(5637)	94 03 01.6	10 49.46	+20 40.0	17.5	-0.57	+ 1.4	2.1/25.4	22477
1986 UQ	94 02 25.2	10 33.04	+05 05.8	16.6	-1.06	+ 6.4	1.6/26.4	22824	1988 SL <sub>3</sub>	94 03 01.7	10 49.73	+25 57.0	17.9	-0.50	+ 4.4	2.9/22.9	21972
1983 XH <sub>1</sub>	94 02 25.2	10 33.14	+05 11.5	15.7	-0.80	+ 8.1	1.4/26.6	21969	1989 WK <sub>4</sub>	94 03 01.7	10 49.83	+15 48.2	17.1	-0.93	+ 7.8	3.7/27.0	22081
1980 UC	94 02 25.4	10 33.91	+11 49.7	17.8	-0.73	+ 4.6	0.7/24.6	21966	(5550)	94 03 01.8	10 50.14	+07 51.8	16.4	-0.78	+ 5.1	0.1/01.7	22042
1981 UC <sub>26</sub>	94 02 25.4	10 33.97	+08 42.7	18.0	-0.76	+ 5.4	0.1/25.6	22075	(5583)	94 03 01.8	10 50.39	+12 08.9	16.2	-0.83	+ 4.8	1.5/28.4	22210
1987 QR <sub>11</sub>	94 02 25.5	10 34.01	+00 10.6	15.0	-0.98	+ 1.9	3.5/27.8	22224	1987 RA <sub>3</sub>	94 03 02.1	10 51.61	+09 45.0	18.1	-0.87	+ 6.5	0.7/01.4	22078
1986 SD <sub>2</sub>	94 02 25.6	10 34.40	-02 45.6	15.9	-0.87	+ 1.9	3.6/28.9	21970	1990 EU	94 03 02.4	10 52.63	-03 41.7	18.0	-0.93	+ 4.1	3.5/05.6	19027
1981 EZ <sub>7</sub>	94 02 25.6	10 34.43	+01 04.6	18.4	-0.83	+ 5.5	2.3/28.1	21966	1991 VA <sub>1</sub>	94 03 02.4	10 52.64	-07 55.2	16.9	-0.72	+ 4.3	3.9/07.3	20642
1989 YG	94 02 25.6	10 34.72	+14 53.5	16.5	-1.07	+ 3.8	2.3/24.1	21262	1989 WW	94 03 02.7	10 53.50	+16 00.2	18.3	-1.03	+ 6.8	2.9/28.0	16878
1973 SB <sub>6</sub>	94 02 25.7	10 34.94	+09 39.5	18.3	-0.93	+ 6.1	0.2/25.5	22072	(5582)	94 03 02.7	10 53.89	+09 07.8	16.1	-0.83	+ 4.5	0.7/02.2	22209
1986 TZ <sub>11</sub>	94 02 25.8	10 35.44	+03 04.0	17.9	-0.76	+ 3.8	1.5/27.6	21970	1991 GP <sub>7</sub>	94 03 02.8	10 53.86	+05 57.4	17.5	-1.04	+ 5.1	0.4/03.1	22083
3086 P-L	94 02 26.0	10 35.89	-05 22.2	17.1	-0.77	+ 4.3	4.1/02.4	20037	2370 T-3	94 03 02.9	10 54.26	-03 47.9	18.5	-0.79	+ 5.7	3.1/06.4	19691
1981 TJ <sub>4</sub>	94 02 26.1	10 36.33	+22 32.1	16.3	-0.86	+ 3.0	3.7/22.0	22075	1992 UR	94 03 02.9	10 54.41	+28 42.8	17.7	-1.11	+ 2.9	6.9/24.5	21588
1991 SC <sub>2</sub>	94 02 26.1	10 36.36	+11 24.2	17.7	-0.80	+ 5.4	0.8/25.3	21976	1985 SL <sub>3</sub>	94 03 02.9	10 54.56	+01 48.5	17.8	-1.02	+ 4.6	1.8/04.5	22698
1988 RM <sub>11</sub>	94 02 26.2	10 36.92	+09 59.7	18.8	-0.50	+ 3.3	0.2/25.9	21972	1992 XF	94 03 02.9	10 54.57	-09 09.8	16.0	-0.82	+ 2.9	5.3/07.9	21598
(5388)	94 02 26.3	10 37.19	+17 50.8	17.1	-1.06	+ 1.0	3.3/24.1	21242	1989 UO <sub>5</sub>	94 03 03.0	10 54.86	+23 56.3	19.5	-0.55	+ 2.0	2.8/25.3	18119
1991 NE <sub>3</sub>	94 02 26.3	10 37.22	+08 04.8	16.2	-0.80	+ 7.3	0.2/26.6	20023	1983 QE	94 03 03.0	10 54.97	+03 55.6	17.4	-0.83	+ 9.2	0.9/04.1	21969
1981 EM <sub>40</sub>	94 02 26.4	10 37.37	+11 05.2	19.4	-0.85	+ 5.9	0.7/25.7	22271	3145 T-2	94 03 03.3	10 56.11	+11 19.9	17.6	-0.82	+ 6.4	1.5/01.9	22701

1975 VW <sub>2</sub>	94 03 03.4	10 56.09	+09 59.3	16.2	-0.96	+ 8.3	1.2/02.4	22823	1977 RQ <sub>19</sub>	94 03 08.7	11 15.89	+05 34.9	18.6	-0.91	+ 7.1	0.3/08.5	21782
1991 RX <sub>23</sub>	94 03 03.5	10 56.68	+10 28.5	17.2	-0.87	+ 2.5	1.1/02.5	22233	1992 XB	94 03 08.9	11 16.59	-10 52.2	17.3	-0.77	+ 4.7	4.1/14.1	22432
1989 US	94 03 03.6	10 57.11	+13 38.9	16.6	-1.08	+ 5.4	2.6/01.6	21973	4179 T-3	94 03 09.0	11 17.24	+11 30.2	18.6	-0.50	+ 3.1	1.2/06.7	22432
(5421)	94 03 03.8	10 57.75	+01 14.9	16.6	-1.00	+ 5.8	1.9/05.5	21547	4369 T-3	94 03 09.1	11 17.36	+05 19.0	19.5	-0.46	+ 3.8	0.1/08.9	22088
1981 ED <sub>19</sub>	94 03 03.8	10 57.85	+06 18.0	16.4	-0.84	+ 6.0	0.1/04.0	22823	1990 MC	94 03 09.1	11 17.53	-03 53.7	17.5	-0.76	+ 7.2	2.3/12.0	17638
1989 UT	94 03 03.8	10 57.87	+16 59.3	17.1	-1.12	+ 4.1	3.9/29.0	21973	1988 RK	94 03 09.2	11 17.61	+01 47.5	18.2	-0.85	+ 9.5	0.9/10.2	20502
1989 AE <sub>7</sub>	94 03 04.0	10 58.69	+03 58.7	16.8	-0.86	+ 4.2	0.9/04.9	22493	4254 T-2	94 03 09.3	11 17.96	+09 59.2	18.1	-0.94	+ 5.8	1.7/07.6	22495
1988 RO	94 03 04.1	10 58.74	-07 20.1	17.4	-0.46	+ 3.7	2.2/09.0	21972	1991 RQ <sub>11</sub>	94 03 09.3	11 18.08	+19 05.0	16.9	-0.79	+10.7	5.0/03.8	22084
1985 KE	94 03 04.2	10 59.19	+02 08.5	17.4	-0.78	+ 5.2	1.3/05.6	25002	1992 UU	94 03 09.5	11 19.16	+14 40.0	16.6	-1.02	+ 3.1	3.6/06.6	22085
(5429)	94 03 04.3	10 59.67	+06 00.6	15.9	-0.75	+ 4.9	0.1/04.5	22476	1988 SJ <sub>3</sub>	94 03 09.6	11 19.10	+30 44.3	19.9	-0.53	+ 3.0	4.2/27.7	21972
1985 SJ <sub>3</sub>	94 03 04.4	10 59.92	+04 12.0	16.4	-1.11	+ 3.3	0.9/05.0	22077	1992 UY <sub>3</sub>	94 03 09.6	11 19.21	+10 21.1	17.5	-1.03	+ 5.1	2.0/07.8	21275
1979 KO	94 03 04.4	10 59.95	+29 26.7	16.5	-0.78	+ 6.0	6.1/24.3	22073	(5482)	94 03 09.6	11 19.28	-01 42.4	15.5	-0.96	+ 3.9	2.5/11.4	21777
1991 NZ <sub>6</sub>	94 03 04.4	11 00.03	+11 18.8	16.7	-0.80	+ 5.8	1.5/02.9	22083	1992 YL	94 03 09.7	11 19.64	+27 57.5	16.9	-0.79	+ 4.0	5.7/01.6	21599
1989 YU <sub>5</sub>	94 03 04.5	11 00.61	+03 04.0	18.6	-1.00	+ 6.0	1.1/05.6	22081	1981 EC <sub>11</sub>	94 03 09.8	11 19.92	-02 23.7	19.2	-0.88	+ 4.6	2.2/11.9	21966
3105 T-3	94 03 04.7	11 00.95	+05 45.8	18.6	-0.92	+ 6.6	0.2/04.9	22274	1981 EC <sub>8</sub>	94 03 09.9	11 20.17	-02 17.3	18.0	-0.99	+ 6.7	2.2/11.9	22270
1988 VO <sub>3</sub>	94 03 04.9	11 01.86	+10 26.9	18.7	-0.93	+ 4.5	1.3/03.7	21107	(5422)	94 03 09.9	11 20.39	+11 47.1	16.9	-0.84	+ 3.9	2.1/07.6	22577
1982 UQ <sub>6</sub>	94 03 05.1	11 02.52	+04 28.0	16.9	-0.80	+ 5.2	0.5/05.7	22430	1982 VA <sub>1</sub>	94 03 10.0	11 20.55	+14 22.2	17.1	-1.04	+ 5.8	3.5/06.9	21969
2550 P-L	94 03 05.1	11 02.69	+09 50.0	18.5	-1.02	+ 6.2	1.4/04.0	22086	6063 P-L	94 03 10.0	11 20.62	+01 41.6	18.9	-1.05	+ 5.7	1.0/10.8	21806
1992 UR <sub>3</sub>	94 03 05.3	11 03.36	-01 15.3	17.8	-0.95	+ 6.3	2.4/07.6	22085	3269 T-2	94 03 10.1	11 21.00	+04 51.5	19.4	-0.77	+ 7.0	0.2/09.9	16439
1981 OH	94 03 05.3	11 03.52	+15 41.5	18.0	-0.91	+ 9.6	3.0/02.1	21968	1979 MZ <sub>2</sub>	94 03 10.3	11 21.81	+05 11.3	16.7	-0.87	+ 6.7	0.4/10.0	22482
1981 EA <sub>42</sub>	94 03 05.4	11 03.87	+03 52.4	18.5	-0.94	+ 9.7	0.8/06.2	22697	1981 EV <sub>9</sub>	94 03 10.4	11 22.18	-04 03.2	18.6	-1.02	+ 4.9	3.6/12.9	21966
(5465)	94 03 05.5	11 03.93	+09 13.3	16.3	-0.79	+ 5.6	1.0/04.5	21770	1992 WS	94 03 10.5	11 22.47	-02 56.1	17.1	-0.96	+ 6.6	2.3/12.7	25004
(5446)	94 03 05.5	11 04.01	+09 16.1	16.4	-0.75	+ 4.9	0.9/04.5	21556	(5399)	94 03 10.6	11 23.00	-02 22.1	15.1	-0.85	+ 5.2	2.2/12.7	21246
1981 EY <sub>40</sub>	94 03 05.6	11 04.62	+04 05.7	19.7	-0.85	+ 5.6	0.6/06.3	22271	1992 SY <sub>14</sub>	94 03 10.6	11 23.09	-09 02.1	16.7	-0.96	+ 7.1	4.9/15.0	21118
1991 TQ	94 03 05.7	11 04.76	+16 21.7	18.0	-0.80	+ 4.6	2.9/02.3	22600	1987 QS <sub>1</sub>	94 03 10.6	11 23.17	-01 01.8	15.2	-1.02	+ 1.8	2.2/12.0	22824
1992 UN <sub>4</sub>	94 03 05.7	11 04.88	+22 34.9	16.3	-0.88	+ 4.9	5.1/28.4	21977	1985 RV <sub>4</sub>	94 03 10.7	11 23.32	+04 06.3	18.2	-0.71	+ 4.5	0.0/10.7	22077
1992 RM	94 03 05.8	11 05.46	+07 24.4	17.6	-1.04	+ 5.6	0.6/05.4	21114	(5533)	94 03 10.9	11 23.96	+03 45.4	17.3	-1.05	+ 4.7	0.0/11.0	22036
1992 XL	94 03 05.9	11 05.72	+23 12.5	17.7	-0.81	+ 4.9	4.7/28.1	21800	1978 SU <sub>5</sub>	94 03 10.9	11 24.12	-05 25.0	15.0	-0.90	+ 7.6	3.8/14.0	21964
1978 VK <sub>8</sub>	94 03 06.0	11 05.78	+09 20.1	18.1	-0.83	+ 5.3	1.1/04.9	22073	4272 T-1	94 03 11.0	11 24.61	+10 07.5	17.2	-0.93	+ 6.6	2.3/09.0	19523
1979 TS <sub>2</sub>	94 03 06.3	11 07.09	+02 25.7	16.6	-0.83	+ 6.9	1.1/07.4	22073	1979 MT <sub>4</sub>	94 03 11.1	11 24.81	-17 15.8	17.7	-0.95	+ 4.1	7.3/18.0	22948
2285 T-2	94 03 06.4	11 07.31	+12 21.5	17.3	-0.93	+ 2.8	2.2/04.5	22695	1992 SX <sub>12</sub>	94 03 11.3	11 25.44	+04 15.2	16.7	-0.97	+ 7.6	0.2/11.2	25004
1984 SH <sub>6</sub>	94 03 06.4	11 07.49	+08 37.1	17.5	-0.90	+ 6.7	1.0/05.5	21969	1992 UB <sub>2</sub>	94 03 11.3	11 25.78	+05 17.4	16.8	-0.95	+ 7.5	0.5/10.9	22085
4206 P-L	94 03 06.4	11 07.64	+07 23.9	18.5	-1.11	+ 2.5	0.6/06.0	16034	1991 PG <sub>16</sub>	94 03 11.4	11 25.96	+06 52.2	19.1	-0.70	+ 4.7	0.7/10.4	20025
1979 ME <sub>7</sub>	94 03 06.5	11 07.63	-14 52.8	17.9	-0.94	+ 4.0	6.8/13.0	21100	1979 VS <sub>2</sub>	94 03 11.5	11 26.08	+44 16.8	17.1	-1.60	+ 0.5	16.6/26.5	21965
1991 SY	94 03 06.9	11 09.17	+23 16.4	16.6	-1.06	+ 1.8	6.4/01.7	19315	1989 WO <sub>7</sub>	94 03 11.5	11 26.22	+13 14.0	15.5	-0.95	+ 6.7	4.2/08.4	21262
1981 VF	94 03 06.9	11 09.42	+11 19.2	17.5	-0.97	+ 5.0	1.8/05.2	22075	1979 MU <sub>2</sub>	94 03 11.6	11 26.46	+04 57.4	18.7	-0.71	+ 5.9	0.4/11.2	22696
1980 VO	94 03 06.9	11 09.53	+18 51.6	18.3	-1.01	+ 3.8	4.2/03.1	21966	1989 AN <sub>1</sub>	94 03 11.7	11 27.17	+06 40.7	15.6	-0.86	+ 4.9	1.1/10.8	22272
4089 P-L	94 03 07.1	11 10.24	-02 42.0	18.5	-0.79	+ 6.6	2.3/09.9	15903	1988 VK <sub>2</sub>	94 03 11.8	11 27.32	+16 01.8	17.0	-0.92	+ 5.2	4.0/07.8	22080
1987 QN	94 03 07.2	11 10.24	+13 13.7	17.2	-0.46	+ 4.7	1.3/04.3	22951	1990 GS	94 03 11.8	11 27.43	+06 41.7	17.8	-1.03	+ 2.1	1.1/11.0	22699
1988 RH <sub>12</sub>	94 03 07.2	11 10.36	+04 58.5	19.8	-0.45	+ 3.7	0.1/07.4	21972	4045 T-3	94 03 12.1	11 28.54	+12 26.3	16.1	-0.90	+ 7.9	3.7/09.1	22088
1991 GC <sub>6</sub>	94 03 07.4	11 11.21	+14 44.1	16.7	-1.13	+ 3.2	4.0/04.9	18637	1992 SN <sub>1</sub>	94 03 12.1	11 28.67	+13 23.9	16.4	-1.06	+ 1.7	3.3/09.5	21977
2245 T-1	94 03 07.4	11 11.27	+11 23.2	17.8	-0.96	+ 5.5	2.3/05.6	22597	4074 T-3	94 03 12.2	11 28.71	+09 40.8	17.4	-0.92	+ 6.4	2.6/10.2	22088
1988 XO	94 03 07.6	11 11.71	+29 03.8	17.5	-0.93	+ 5.6	7.0/27.4	21972	1990 OJ <sub>4</sub>	94 03 12.4	11 29.57	-24 17.8	16.0	-0.80	+ 2.7	7.5/21.8	22082
1987 SR <sub>1</sub>	94 03 08.0	11 13.33	-00 20.2	17.3	-0.82	+ 8.7	1.7/09.9	21971	(5492)	94 03 12.5	11 29.90	-05 28.0	16.7	-0.74	+ 9.2	2.5/15.7	21781
1991 QC	94 03 08.0	11 13.34	-00 25.1	16.5	-0.88	+ 6.0	1.8/09.8	22600	1975 AN	94 03 12.6	11 30.26	-31 26.8	17.6	-1.08	+ 3.2	10.2/24.8	21963
4314 T-3	94 03 08.0	11 13.38	+08 54.5	17.0	-0.80	+ 5.8	1.2/06.8	20519	1975 TM <sub>2</sub>	94 03 12.7	11 30.51	+03 14.4	17.0	-0.96	+ 7.1	0.0/12.7	21963
1990 EO <sub>4</sub>	94 03 08.1	11 13.67	+02 48.6	17.4	-0.85	+ 7.0	0.7/08.8	22082	1978 RX <sub>7</sub>	94 03 12.7	11 30.73	-02 37.6	16.8	-0.96	+ 3.0	2.3/14.4	22270
1981 EZ <sub>22</sub>	94 03 08.1	11 13.90	+05 35.5	18.1	-1.04	+ 5.6	0.2/08.0	22398	3163 T-1	94 03 12.7	11 30.76	+04 39.4	19.9	-0.47	+ 2.7	0.2/12.2	19879
1979 MO <sub>7</sub>	94 03 08.2	11 13.95	-03 08.8	19.4	-0.71	+ 5.1	2.1/10.9	21561	2390 T-3	94 03 13.0	11 32.02	+08 51.1	16.7	-1.05	+ 2.8	2.3/11.4	22088
1988 RF <sub>9</sub>	94 03 08.2	11 14.07	+09 43.1	17.7	-1.00	+ 7.1	2.0/06.7	22825	2137 T-2	94 03 13.1	11 31.97	+01 11.2	19.0	-1.02	+ 7.1	0.7/13.7	22701
1988 TB <sub>1</sub>	94 03 08.5	11 15.35	-00 33.9	17.1	-0.89	+ 6.8	1.7/10.3	22493	1985 UK <sub>3</sub>	94 03 13.1	11 32.08	+09 22.4	16.6	-1.04	+ 5.4	2.4/11.2	18285