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EDITORIAL NOTICE

The next *MPCs* will be published on or about 1994 Jan. 27. No *MPCs* will be issued in December.

ERRATA

<i>MPC</i>	Line	
9076	-25	<i>For</i> = 1979 HL ₂ <i>read</i> = 1979 HL ₄
12626	27	<i>Add the note</i> The identification 1979 HL ₄ = (3117) was utilized in the orbit computation on <i>MPC</i> 9076 but erroneously listed there as 1979 HL ₂ .
22499	- 4	<i>For</i> 1928- <i>read</i> 1927-
22666	19	<i>For</i> <i>H</i> 10.00 <i>read</i> <i>H</i> 10.0
22667	15	<i>For</i> <i>H</i> 13.20 <i>read</i> <i>H</i> 13.2
22668	-43	<i>For</i> (4189) Andreev <i>read</i> (4189) 1979 SV ₉
22691	28	<i>Add</i> Id. G. V. Williams, A. Lowe

CORRECTED OBSERVATIONS

The following observations correct those previously published.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	Mag.	N Obs.
1954 WZ	* 1954 11 20.20000	01 32 16.71	-02 59 54.0	<i>MPC</i> 4998	17	675	
(2)	1940 03 01.77884	07 02 27.19	-14 29 04.9	<i>MPC</i> 17675		066	
(2)	1940 04 17.82716	07 50 59.19	+01 48 20.2	<i>MPC</i> 17675		066	
(7)	1946 06 04.03893	16 35 40.75	-23 21 30.7	<i>MPC</i> 17478		804	
(7)	1946 06 05.02176	16 34 38.92	-23 17 50.1	<i>MPC</i> 17478		804	
(11)	1946 05 11.00860	15 14 07.86	-10 01 04.7	<i>MPC</i> 17478		804	
(11)	1946 05 31.99684	14 55 37.90	-09 11 01.0	<i>MPC</i> 17479		804	
(11)	1946 06 01.98795	14 54 54.96	-09 10 06.4	<i>MPC</i> 17479		804	
(11)	1946 06 04.01192	14 53 31.65	-09 08 40.8	<i>MPC</i> 17479		804	
(12)	1946 08 09.79950	18 12 18.42	-09 39 03.1	<i>MPC</i> 17676		066	
(16)	1987 05 25.86074	10 33 49.33	+10 28 01.6	<i>MPC</i> 17502		1 047	
(16)	1987 05 26.86908	10 34 23.37	+10 24 46.7	<i>MPC</i> 17502		1 047	
(21)	1947 11 10.79885	02 44 13.83	+12 30 20.2	<i>MPC</i> 17479		066	
(21)	1984 06 29.80064	14 20 29.79	-12 15 41.0	<i>MPC</i> 9820		073	
(21)	1984 06 29.81415	14 20 29.90	-12 15 40.5	<i>MPC</i> 9820		073	
(23)	1961 06 12.96528	18 26 39.00	-29 18 29.1	<i>MPC</i> 17479	12.0	2 076	
(27)	1984 04 06.78587	10 57 51.90	+09 26 17.9	<i>MPC</i> 9820		3 073	
(27)	1984 04 06.79556	10 57 51.66	+09 26 18.9	<i>MPC</i> 9820		3 073	
(29)	1952 04 24.78925	12 44 27.80	-09 05 02.1	<i>MPC</i> 939		066	
(29)	1952 04 24.79504	12 44 27.72	-09 05 02.1	<i>MPC</i> 939		066	

(40)	1946 09 27.83593	02 13 34.88	+05 46 48.8	<i>MPC</i> 17480		066
(51)	1947 11 21.73927	02 13 37.28	+01 22 38.5	<i>MPC</i> 92		4 066
(103)	1948 09 28.80025	00 35 51.66	-03 32 22.9	<i>MPC</i> 17251		066
(194)	1986 10 12.18437	00 12 22.43	-15 53 26.4	<i>MPC</i> 11315		5 657
(452)	1983 03 15.41875	13 22 39.88	-03 34 49.8	<i>MPC</i> 8873		6 662
(452)	1983 03 16.38194	13 22 06.25	-03 30 39.2	<i>MPC</i> 8873		6 662
(599)	1952 04 17.31596	14 00.6	-04 33	<i>MPC</i> 16647	13.9	760
(656)	1953 02 05.90	07 50.6	+20 20	<i>MPC</i> 15938		020
(679)	1974 12 11.93889	05 12 36.92	-04 52 29.3	<i>MPC</i> 4046		7 990
(679)	1974 12 11.94583	05 12 36.38	-04 52 23.9	<i>MPC</i> 4046		7 990
(785)	1977 09 08.83403	22 38 46.28	-29 05 00.5	<i>MPC</i> 4423	14.0	8 076
(863)	1955 11 13.60	03 20 47	-16 41.5	<i>MPC</i> 1396	13.3	388
(930)	1970 06 09.10348	18 38 38.80	-49 43 41.4	<i>MPC</i> 3164	14.5	9 076
(1330)	1982 03 16.83403	10 56 55.52	+09 59 10.1	<i>MPC</i> 9010	15.4	2 552
(1330)	1982 03 16.88403	10 56 53.67	+09 59 36.0	<i>MPC</i> 9010		2 552
(1635)	1954 07 26.12260	17 58 13.08	-20 45 45.1	<i>MPC</i> 8643		5 760
(1635)	1954 07 26.16079	17 58 12.08	-20 45 47.5	<i>MPC</i> 8643		5 760
(1656)	1991 04 16.92137	13 03 42.94	+15 44 24.8	<i>MPC</i> 18330	15	7 104
(1656)	1991 04 16.93249	13 03 42.39	+15 44 35.8	<i>MPC</i> 18330		7 104
(1702)	1962 05 05.29271	16 09 28.97	-09 36 45.4	<i>MPC</i> 12042		A 760
(1702)	1962 05 05.33646	16 09 26.89	-09 36 41.0	<i>MPC</i> 12042		A 760
(2342)	1962 11 01.14786	01 06 54.42	+07 01 01.2	<i>MPC</i> 16988	15.7	B 760
(3196)	1983 09 06.93969	22 57 02.91	-14 38 57.0	<i>MPC</i> 13967		095

Note 1: date corrected by +1 month. 2: date corrected by -1 day. 3: date corrected by -2 days. 4: time corrected by +1 hour. 5: date corrected by +1 day. 6: time corrected by +8 hours. 7: time corrected by +2 hours. 8: time corrected by +12 hours. 9: time corrected by +4 hours. A: originally given as (3628). B: originally given as (1207).

DELETED OBSERVATIONS

The following observations are to be deleted.

Object	Date	UT	α_{2000}	δ_{2000}	Reference	N Obs.
1955 VU	* 1955 11 13.54000	03 33 58	+17 33.4	<i>MPC</i> 1396		1 388
1955 VU	1955 11 13.54097	03 33 59.43	+17 33 25.8	<i>MPC</i> 2588		1 388
1957 HD	1957 04 16.86727	12 19 17.77	+08 28 53.4	<i>MPC</i> 1821		2 020
1961 JF	1961 05 10.9924	12 49 43.28	+28 13 22.0	<i>MPC</i> 3406		043
1993 UC	1993 10 20.63264	00 51 54.11	-25 09 05.8	<i>MPC</i> 22630		413
(8)	1948 09 09.89684	00 44 01.53	-07 07 42.2	<i>MPC</i> 340		021
(8)	1948 09 10.88257	00 43 24.62	-07 18 17.2	<i>MPC</i> 340		021

(8)	1948 09 23.81829	00 34 03.38	-09 09 27.1	MPC 186	066	(410)	1938 06 04.10241	18 41 35.25	-19 14 42.2	MPC 3213	020
(8)	1961 09 13.87741	23 28 19.62	-14 38 41.8	MPC 2539	073	(429)	1970 02 02.10575	07 03 47.77	+08 11 08.2	MPC 3581	805
(8)	1961 09 13.93102	23 28 15.11	-14 39 46.1	MPC 2539	073	(430)	1966 03 25.09374	12 30 25.99	-23 13 52.5	MPC 2658	808
(9)	1960 12 16.70947	01 34 34.22	+06 44 52.2	MPC 2538	073	(464)	1937 12 02.99095	04 11 10.00	+10 42 20.1	MPC 3214	020
(10)	1968 09 02.10065	00 21 50.26	+08 22 07.3	MPC 3413	3 020	(464)	1937 12 03.02246	04 11 08.37	+10 42 22.6	MPC 3214	020
(10)	1968 09 02.11866	00 21 49.11	+08 22 05.9	MPC 3413	3 020	(478)	1940 02 10.93138	08 54 47.75	-03 31 14.4	RI 2098	022
(18)	1946 07 25.98949	18 51 04.40	-11 08 54.7	MPC 117	804	(563)	1976 03 04.07760	12 45 03.68	+11 37 16.5	MPC16646	012
(19)	1948 12 25.82951	05 42 08.83	+21 00 30.5	MPC 340	021	(563)	1976 03 04.11223	12 45 03.74	+11 37 45.8	MPC16646	012
(28)	1984 06 08.79773	14 16 02.58	+00 08 44.1	MPC 9820	073	(653)	1969 10 03.97633	00 22 31.66	-11 24 26.4	MPC 3440	020
(28)	1984 06 08.81158	14 16 03.09	+00 08 36.5	MPC 9820	073	(653)	1969 10 03.99365	00 22 30.76	-11 24 27.9	MPC 3440	020
(30)	1970 09 18.79180	17 06 49.94	-23 47 31.8	MPC 6359	020	(656)	1968 11 20.88922	02 38 37.63	+15 00 40.4	MPC15938	020
(30)	1970 09 18.79596	17 06 50.03	-23 47 31.6	MPC 6359	020	(661)	1955 01 20.67361	09 57 50.73	+17 12 02.7	MPC 2299	388
(40)	1968 01 24.82926	07 00 49.06	+24 59 19.7	MPC 3420	020	(704)	1976 01 28.95190	06 39 41.84	+19 53 40.9	MPC 4317	012
(40)	1968 01 24.83134	07 00 48.91	+24 59 19.8	MPC 3420	020	(704)	1976 01 28.97407	06 39 41.34	+19 53 36.3	MPC 4317	012
(40)	1968 01 24.83376	07 00 48.77	+24 59 19.5	MPC 3420	020	(704)	1976 01 28.99623	06 39 40.91	+19 53 31.6	MPC 4317	012
(41)	1973 12 06.71111	02 17 44.25	-01 17 17.4	MPC 5154	073	(714)	1955 03 13.53611	10 21 51.19	-13 18 31.7	MPC 2612	388
(41)	1973 12 06.71873	02 17 43.86	-01 17 17.0	MPC 5154	073	(714)	1955 03 13.55486	10 21 51.58	-13 18 31.4	MPC 2612	388
(42)	1977 03 22.88715	09 14 10.30	+26 37 18.0	MPC13129	553	(736)	1937 03 11.03111	13 06 48.72	-01 17 22.6	MPC 3219	020
(44)	1962 02 05.88278	10 11 17.68	+12 47 13.5	MPC 2210	021	(748)	1956 09 10.61319	21 58 30.76	-09 28 37.5	MPC 1573	330
(45)	1942 05 06.88872	14 14 42.91	-02 38 06.6	RI 2397	028	(752)	1955 03 17.51111	09 42 19.31	+23 09 28.1	MPC 2612	388
(45)	1942 05 07.91701	14 13 56.93	-02 34 17.6	RI 2397	028	(758)	1954 10 27.92193	00 32 38.08	-05 21 48.1	MPC 1232	983
(46)	1950 12 09.91528	04 35 13.87	+18 21 26.2	MPC 561	990	(777)	1961 05 12.14195	13 08 13.17	-26 58 43.2	MPC 3149	839
(66)	1955 01 26.86458	07 09.7	+27 32	MPC 1229	990	(828)	1971 05 14.88402	12 45 14.68	-05 29 15.1	MPC 6380	020
(80)	1948 09 10.80513	22 09 50.61	+05 14 29.5	MPC 186	066	(828)	1971 05 14.89129	12 45 14.54	-05 29 15.1	MPC 6380	020
(85)	1977 08 06.86910	19 56 00.24	+00 59 49.7	MPC16667	553	(909)	1955 06 17.03433	19 22 16.03	-04 08 20.8	MPC 1754	020
(86)	1949 02 24.08125	07 19 42.85	+25 52 54.7	MPC 566	786	(914)	1957 04 02.86841	13 39 20.02	-43 41 54.0	MPC 1685	076
(86)	1949 02 24.09861	07 19 42.63	+25 52 54.9	MPC 566	786	(921)	1952 06 27.00830	17 12 36.70	-01 01 12.0	MPC 873	990
(103)	1974 06 28.69653	18 57 07.04	-17 31 49.3	MPC 3940	323	(924)	1967 02 15.16273	11 34 36.59	+05 49 21.5	MPC 3343	020
(103)	1974 06 28.71319	18 57 06.35	-17 31 47.8	MPC 3940	323	(924)	1967 02 15.17450	11 34 35.23	+05 49 16.5	MPC 3343	020
(123)	1956 09 05.58611	21 00 39.46	-14 19 53.2	MPC 2644	388	(931)	1968 09 18.89722	23 22 11.90	-19 38 50.5	MPC 2938	076
(132)	1953 06 04.98997	15 55 54.93	-29 56 49.8	MPC 1153	020	(932)	1942 01 14.93273	07 14 42.47	+36 36 40.8	RI 2400	028
(151)	1970 07 27.87153	20 46 03.46	-28 44 19.9	MPC 3162	076	(942)	1959 08 08.92604	22 35 20.42	-25 23 33.8	MPC 1990	076
(152)	1938 01 26.79259	07 40 43.77	+39 04 21.2	MPC 3207	020	(969)	1970 04 13.32724	14 59 10.69	-20 18 19.3	MPC 3505	805
(152)	1938 01 26.82722	07 40 41.69	+39 04 21.0	MPC 3207	020	(969)	1970 04 13.33762	14 59 10.19	-20 18 22.1	MPC 3505	805
(152)	1938 01 26.84899	07 40 40.53	+39 04 20.7	MPC 3207	020	(969)	1970 04 13.34801	14 59 09.58	-20 18 26.7	MPC 3505	805
(168)	1987 08 17.92917	20 15 36.54	-13 12 46.5	MPC12506	010	(971)	1964 12 05.90146	03 51 26.91	+12 04 17.0	MPC 2600	095
(168)	1987 08 17.95000	20 15 35.94	-13 12 49.6	MPC12506	010	(972)	1966 03 19.92243	11 31 04.02	-08 51 28.9	MPC 3343	020
(168)	1987 08 17.96042	20 15 35.49	-13 12 52.1	MPC12506	010	(972)	1966 03 19.93351	11 31 03.87	-08 51 29.8	MPC 3343	020
(186)	1952 12 15.8403	03 52 54.98	+39 57 03.1	MPC 879	990	(972)	1966 03 19.94442	11 31 03.80	-08 51 29.8	MPC 3343	020
(186)	1952 12 15.8819	03 52 47.15	+39 59 16.7	MPC 879	990	(987)	1969 02 17.94443	09 28 36.92	+15 27 50.7	MPC 3446	020
(211)	1967 07 05.86532	16 02 24.38	-21 40 18.8	MPC 3331	020	(987)	1969 02 17.95759	09 28 35.27	+15 27 49.1	MPC 3446	020
(211)	1967 07 05.88544	16 02 23.10	-21 40 18.7	MPC 3331	020	(992)	1969 10 06.99445	00 18 37.62	+08 48 44.8	MPC 3446	020
(227)	1938 07 28.01694	22 34 23.05	+10 04 48.5	MPC 3208	020	(992)	1969 10 07.00622	00 18 36.50	+08 48 53.7	MPC 3446	020
(227)	1938 07 28.05555	22 34 22.42	+10 04 49.7	MPC 3208	020	(1001)	1966 03 19.92243	11 28 12.82	-10 44 00.3	MPC 3344	020
(227)	1971 07 30.94526	20 18 58.89	-25 50 23.9	MPC 6366	020	(1001)	1966 03 19.93351	11 28 12.41	-10 43 55.9	MPC 3344	020
(227)	1971 07 30.95288	20 18 58.15	-25 50 22.3	MPC 6367	020	(1001)	1966 03 19.94442	11 28 11.26	-10 43 42.2	MPC 3344	020
(230)	1963 09 22.01281	23 31 45.65	+13 15 28.9	MPC 2542	073	(1002)	1968 02 29.99650	11 41 14.50	+00 01 45.1	MPC 3446	020
(230)	1963 09 22.02348	23 31 42.52	+13 15 34.3	MPC 2542	073	(1002)	1968 03 01.01377	11 41 13.43	+00 01 52.7	MPC 3446	020
(319)	1979 12 08.18889	03 25 12.90	+04 58 59.8	MPC 5171	688	(1003)	1966 05 24.06145	17 05 57.28	-20 34 32.2	MPC 3344	020
(393)	1977 09 13.97014	00 33 16.47	+18 31 30.1	MPC16667	553	(1003)	1966 05 24.08568	17 05 56.64	-20 34 33.7	MPC 3344	020
(406)	1957 01 31.57813	07 49 26.04	+22 54 22.5	MPC 3061	388	(1003)	1966 06 07.98169	16 54 03.46	-20 18 33.6	MPC 3344	020
(410)	1938 06 04.04486	18 41 36.37	-19 14 31.9	MPC 3213	020	(1003)	1966 06 08.00178	16 54 02.25	-20 18 18.3	MPC 3344	020

(1003)	1967 08 02.00598	21 03 39.35	-16 25 32.3	MPC 3344	020
(1003)	1967 08 02.02745	21 03 38.29	-16 25 30.4	MPC 3344	020
(1007)	1967 08 02.00598	21 02 06.12	-16 36 24.4	MPC 3344	020
(1007)	1967 08 02.02745	21 02 04.36	-16 36 20.1	MPC 3344	020
(1008)	1972 09 07.92252	00 52 10.96	+01 12 36.3	MPC 5167	073
(1008)	1972 09 07.93429	00 52 10.51	+01 12 31.5	MPC 5167	073
(1008)	1972 11 09.68807	00 09 29.51	-00 07 17.8	MPC 5167	073
(1008)	1972 11 09.69915	00 09 29.32	-00 07 15.5	MPC 5167	073
(1014)	1971 01 07.05687	08 41 57.02	+15 17 12.9	MPC 6382	020
(1014)	1971 01 07.06553	08 41 56.49	+15 17 15.3	MPC 6382	020
(1021)	1961 05 13.96047	14 30 38.09	+07 30 35.2	MPC 2123	020
(1021)	1961 05 13.98886	14 30 36.80	+07 30 41.1	MPC 2123	020
(1022)	1971 07 29.81723	18 28 18.16	-20 55 58.0	MPC 5118	073
(1022)	1971 07 29.82900	18 28 18.04	-20 56 00.5	MPC 5118	073
(1025)	1973 09 03.90791	20 54 58.20	-02 32 07.5	MPC 4881	020
(1025)	1973 09 03.91968	20 54 57.58	-02 32 10.9	MPC 4881	020
(1025)	1973 09 05.91485	20 53 54.85	-03 16 24.8	MPC 4881	020
(1025)	1973 09 05.92939	20 53 54.42	-03 16 44.3	MPC 4881	020
(1029)	1968 03 29.97297	13 44 11.89	-10 12 03.8	MPC 3447	020
(1029)	1968 03 29.98336	13 44 11.18	-10 12 03.7	MPC 3447	020
(1032)	1970 11 04.01368	02 33 19.46	+06 25 58.9	MPC 6382	020
(1032)	1970 11 04.02268	02 33 19.01	+06 25 55.6	MPC 6382	020
(1032)	1970 11 17.87986	02 22 46.03	+06 00 11.9	MPC 3195	056
(1032)	1970 11 17.95208	02 22 41.87	+06 00 09.4	MPC 3195	056
(1039)	1971 08 12.89729	19 08 34.08	-15 53 45.2	MPC 6382	020
(1039)	1971 08 12.91253	19 08 33.57	-15 53 48.2	MPC 6382	020
(1087)	1969 09 05.99910	00 51 26.56	-02 50 17.5	MPC 3448	020
(1087)	1969 09 06.00326	00 51 26.53	-02 50 16.5	MPC 3448	020
(1412)	1952 11 06.43368	02 01 23.99	+07 35 52.4	MPC 2158	388
(1413)	1969 04 23.88671	12 06 27.38	+02 26 04.1	MPC 3452	020
(1413)	1969 04 23.91164	12 06 26.52	+02 26 07.9	MPC 3452	020
(1416)	1972 12 14.67614	03 08 20.71	+32 13 57.7	MPC 5167	073
(1416)	1972 12 14.68652	03 08 20.16	+32 13 57.2	MPC 5167	073
(1420)	1967 08 01.99525	20 53 46.59	-12 52 04.2	MPC 3350	020
(1420)	1967 08 02.01671	20 53 46.09	-12 52 08.6	MPC 3350	020
(1423)	1970 11 03.91101	01 19 18.00	+05 51 34.0	MPC 6385	020
(1423)	1970 11 03.93872	01 19 16.80	+05 51 35.8	MPC 6385	020
(1428)	1971 10 27.81910	05 28 52.41	+03 26 44.5	MPC 3944	323
(1437)	1971 08 16.87875	20 46 48.39	-19 57 37.7	MPC 6385	020
(1437)	1971 08 16.88775	20 46 47.92	-19 57 35.6	MPC 6385	020
(1443)	1966 09 20.03566	00 14 24.41	+01 22 05.4	MPC 3350	020
(1443)	1966 09 20.05990	00 14 23.21	+01 22 15.9	MPC 3350	020
(1621)	1969 08 14.02491	21 56 35.48	-08 49 09.9	MPC 3455	020
(1621)	1969 08 14.04222	21 56 34.67	-08 49 38.2	MPC 3455	020
(1621)	1969 08 19.97800	21 51 08.25	-09 25 58.2	MPC 3455	020
(1621)	1969 08 19.99947	21 51 07.77	-09 25 57.2	MPC 3455	020
(1621)	1969 09 05.92776	21 35 40.34	-11 20 17.6	MPC 3455	020
(1621)	1969 09 05.93884	21 35 40.06	-11 20 21.3	MPC 3455	020
(1629)	1966 06 18.02954	18 05 01.70	-09 12 10.4	MPC 3352	020
(1629)	1966 06 18.05965	18 04 59.89	-09 12 02.9	MPC 3352	020
(1629)	1966 06 18.91600	18 04 13.24	-09 18 31.2	MPC 3352	020
(1629)	1966 06 18.91600	18 04 10.13	-09 17 52.8	MPC 3352	020

(1629)	1966 06 18.95824	18 04 10.62	-09 18 18.0	MPC 3352	020
(1629)	1966 06 18.95824	18 04 08.17	-09 17 52.1	MPC 3352	020
(1629)	1969 04 16.91838	12 21 21.85	+15 03 08.1	MPC 3455	020
(1629)	1969 04 16.92530	12 21 21.01	+15 03 04.7	MPC 3455	020
(1666)	1972 08 14.78653	19 53 45.47	-16 39 58.8	MPC 5167	073
(1666)	1972 08 14.79899	19 53 45.36	-16 39 58.1	MPC 5167	073
(2130)	1984 07 27.97366	21 16 44.88	-24 33 14.1	MPC 11314	491
(4278)	1989 10 29.21042	02 42 51.44	+04 24 09.4	MPC 16155	801

Note 1: the identification of 1955 VU with (3320) (*MPC* 9069) is invalid.
 2: the identification of 1957 HD with (479) (*MPC* 1995) is still valid.
 3: observations published under correct designation of (929) on *MPC* 3445.

IDENTIFICATION CHANGES

Continuation to *MPC* 22609.

Object	Date	UT	α_{2000}	δ_{2000}	Originally	Mag.	N Obs.
1933 ST ₁	* 1933 09 26.01932	00 33 14.29	+12 06 01.1	1933 SK			012
1933 ST ₁	1933 09 28.01420	00 31 24.29	+12 05 06.9	1933 SK			012
1933 TC	* 1933 10 13.94212	00 25 10.47	+10 55 17.1	1933 SK			012
1937 VS	* 1937 11 02.78221	21 43 45.41	-05 08 42.4	1937 PB	14		029
1937 VS	1937 11 02.83068	21 43 47.58	-05 08 34.8	1937 PB	14		029
1941 SO ₂	* 1941 09 26.931	23 44.5	-03 57	(642)	13.2		078
1948 QU	* 1948 08 28.22439	23 48 40.75	-20 50 51.7	(42)			839
1948 QU	1948 08 28.26525	23 48 39.18	-20 51 13.4	(42)			839
1949 SX ₁	* 1949 09 18.81708	21 43.6	-14 23	(658)	13.2		094
1952 RW	* 1952 09 15.765	23 12.8	-03 28	(573)			210
1953 UK ₁	* 1953 10 31.14721	00 55 29.58	+00 35 47.2	1953 TV ₂	17.2	1	760
1953 UK ₁	1953 10 31.19235	00 55 27.32	+00 35 47.3	1953 TV ₂		1	760
1954 TM ₁	* 1954 10 07.30	23 52.9	-04 06	(1623)			754
1971 WC	* 1971 11 19.92741	02 35 54.06	+09 51 16.0	1971 VL			029
1977 FQ ₃	* 1977 03 30.64097	11 33 49.26	-01 37 12.8	(525)			323
1977 FQ ₃	1977 03 30.65764	11 33 48.29	-01 37 09.1	(525)			323
1986 RP ₁₇	* 1986 09 09.93366	23 52 12.42	-07 10 53.9	1986 PB ₆	15.5	V	095
1986 TQ ₁₈	* 1986 10 06.84611	23 28 09.54	-08 36 21.1	1986 SQ ₂	16.0	V	095

Note 1: this redesignation was not noted when 1953 TV₂ was identified with 1967 UV and numbered (3769) on *MPC* 12798.

IDENTIFICATIONS

The following identifications with numbered minor planets, by G. V. Williams, continues the list on *MPC* 22519:

1937 VS	=	(544)	1941 SO ₂	=	(1097)	1948 QU	=	(521)
1949 SX ₁	=	(214)	1952 RW	=	(1536)	1953 UK ₁	=	(4287)
1954 TM ₁	=	(1267)	1977 FQ ₃	=	(1717)			

OBSERVATIONS OF COMETS

Observations are published here for the following observatory codes:

046	Kleť. 0.63-m Maksutov telescope and 0.57-m reflector. Observers M. Tichý and Z. Moravec. Communicated by J. Tichá.
056	Skalnaté Pleso. 0.3-m <i>f</i> /5 astrograph. Observers P. Rychtarčík, J. Svoreň and G. Červák.

091	Aurec-sur-Loire. 0.41-m reflector. Observer R. Chanal.	/1987 XIV	1987 08 25.01424	00 26 32.02	+06 07 39.4		056
107	Cavezzo. 0.40-m $f/2.23$ reflector + CCD. Observers R. Calanca and R. Bonomi. Communicated by E. Colombini.	/1987 XIV	1987 08 31.01285	00 28 37.25	+05 07 17.0		056
108	Montelupo. Observers M. Tombelli, A. Boattini and S. Bartolini.	/1987 XIV	1987 08 31.06215	00 28 37.88	+05 06 45.1		056
360	Kuma Kogen. 0.60-m $f/6.0$ Ritchey-Chrétien + CCD. Observer A. Nakamura.	/1987 XIV	1987 09 21.96007	00 28 47.25	+00 26 37.5		056
372	Geisei. 0.60-m $f/3.5$ reflector. Observer T. Seki. In part from <i>OAA Comet Bull.</i>	/1987 XIV	1987 09 22.01962	00 28 46.36	+00 25 52.3		056
374	Minami-Oda. 0.25-m $f/3.4$ Schmidt camera. Observer T. Nomura.	/1987 XIV	1987 09 22.85851	00 28 37.80	+00 14 32.0		056
385	Nihondaira Observatory Oohira Station. 0.31-m $f/4.7$ reflector + CCD. Observer T. Urata.	/1987 XIV	1987 09 28.89826	00 27 26.10	-01 04 37.5		056
402	Dynic Astronomical Observatory. 0.25-m $f/3.4$ Schmidt. Observer A. Sugie.	/1987 XIV	1987 09 28.95417	00 27 25.34	-01 05 19.9		056
410	Sengamine. 0.20-m $f/6.0$ reflector + CCD. Observer M. Hotta.	/1987 XIV	1987 10 28.80081	00 25 25.54	-05 26 05.0		056
540	Linz. 0.3-m $f/5.2$ Schmidt-Cassegrain + CCD. Observers E. Meyer, E. Obermair and H. Raab.	/1987 XIV	1987 10 28.84456	00 25 25.92	-05 26 13.0		056
557	Ondřejov. 0.65-m $f/3.6$ reflector + CCD. Observer P. Pravec.	/1987 XIX	1993 10 22.77813	07 51 48.72	+18 18 24.6	14.5 T	360
587	Sormano. 0.5-m reflector + CCD. Observers P. Sicoli and M. Cavagna.	/1987 XIX	1993 10 22.78160	07 51 49.01	+18 18 23.8		360
657	Climenhaga Observatory, Victoria. 0.5-m reflector + CCD. Observers D. D. Balam and J. B. Tatum. Measured by D. D. Balam.	/1987 XIX	1993 10 23.03670	07 52 11.56	+18 17 27.3		107
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.	/1987 XIX	1993 10 27.11215	07 58 04.83	+18 02 36.6		046
675	Palomar. 0.46-m and 1.2-m Schmidts. Observers J. Alu, E. F. Helin, H. E. Holt, C. T. Kowal, K. Lawrence, D. H. Levy, C. M. Olmstead, J. E. Rogers, C. S. Shoemaker and E. M. Shoemaker. Measured by K. Lawrence and B. A. Skiff.	/1987 XIX	1993 10 27.12361	07 58 05.91	+18 02 33.7		046
691	Kitt Peak. 0.91-m Spacewatch telescope. Observers J. V. Scotti and R. Jedicke.	/1987 XIX	1993 10 27.97907	07 59 18.75	+17 59 27.7		107
693	University of Arizona, Catalina Station. 1.5-m reflector + CCD. Observers S. M. Larson and C. Hergenrother.	/1987 XIX	1993 10 27.99871	07 59 20.28	+17 59 23.6		107
786	U.S. Naval Observatory, Washington. 0.61-m reflector + CCD. Observer J. DeYoung.	/1987 XIX	1993 11 08.96376	08 14 54.28	+17 17 55.1		107
801	Oak Ridge. 1.5-m reflector + CCD. Observers R. E. McCrosky and C.-Y. Shao.	/1987 XIX	1993 11 14.78993	08 21 29.39	+17 00 04.7	13.7 T	360
816	Rand Observatory, Lake Placid. 0.37-m reflector + CCD. Observer G. R. Viscome.	/1987 XIX	1993 11 14.79271	08 21 29.55	+17 00 04.4		360
887	Ojima. 0.30-m $f/5.8$ reflector + CCD. Observer T. Nijjima. Measurer T. Urata.	/1987 XIX	1993 11 15.70020	08 22 27.33	+16 57 30.4	12.5 T	900
900	Kiryuu Observatory, Ohtsu. 0.26-m $f/2.9$ reflector. Observer Y. Ikari.	/1987 XIX	1993 11 15.70599	08 22 27.65	+16 57 28.1		900
Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.	
Periodic Comet Schwassmann-Wachmann 2							
/1971 IX	1971 06 28.45735	00 59 21.22	+06 01 37.9			1	675
/1971 IX	1971 06 29.44653	01 00 50.80	+06 08 33.6				675
/1993k	1993 10 19.58819	00 29 45.28	-01 58 33.4		16.8 T		360
/1993k	1993 10 19.59115	00 29 45.19	-01 58 34.9				360
Periodic Comet Borrelly							
/1987 XIV	1987 08 22.84688	00 25 31.10	+06 26 43.1				056
/1987 XIV	1987 08 22.90394	00 25 32.78	+06 26 13.9				056
/1987 XIV	1987 08 23.84375	00 26 00.22	+06 18 08.9				056
/1987 XIV	1987 08 23.89271	00 26 01.34	+06 17 41.9				056
/1987 XIV	1987 08 24.89549	00 26 29.21	+06 08 43.7				056
Periodic Comet Klemola							
/1987 XIV	1987 08 22.84688	00 25 31.10	+06 26 43.1				056
/1987 XIV	1987 08 22.90394	00 25 32.78	+06 26 13.9				056
/1987 XIV	1987 08 23.84375	00 26 00.22	+06 18 08.9				056
/1987 XIV	1987 08 23.89271	00 26 01.34	+06 17 41.9				056
/1987 XIV	1987 08 24.89549	00 26 29.21	+06 08 43.7				056
Periodic Comet Borrelly							
/1987 XXXIII	1987 12 13.85208	02 27 38.49	-00 36 37.8				056
/1987 XXXIII	1987 12 13.88542	02 27 37.21	-00 34 12.0				056
/1987 XXXIII	1987 12 14.68056	02 27 10.27	+00 23 39.1				056
/1987 XXXIII	1987 12 14.71390	02 27 09.08	+00 26 03.6				056
/1987 XXXIII	1987 12 15.70278	02 26 37.97	+01 37 50.9				056
/1987 XXXIII	1987 12 15.72813	02 26 37.12	+01 39 41.8				056
/1987 XXXIII	1988 01 12.69531	02 37 32.16	+30 07 19.3				056
/1987 XXXIII	1988 01 12.73079	02 37 34.72	+30 08 58.0				056
/1987 XXXIII	1988 01 13.72240	02 38 50.31	+30 54 17.2				056

/1987 XXXIII	1988 01 13.76030	02 38 53.11	+30 55 59.2	056
/1987 XXXIII	1988 01 14.71233	02 40 09.14	+31 38 30.8	056
/1987 XXXIII	1988 01 14.74502	02 40 11.73	+31 39 57.1	056
/1987 XXXIII	1988 01 16.73981	02 43 00.72	+33 05 56.8	056
/1987 XXXIII	1988 01 16.77025	02 43 03.21	+33 07 14.4	056
/1987 XXXIII	1988 01 20.82986	02 49 29.06	+35 50 06.1	056
/1987 XXXIII	1988 01 20.87639	02 49 33.85	+35 51 53.6	056
/1987 XXXIII	1988 02 09.75694	03 33 37.37	+45 49 58.5	056
/1987 XXXIII	1988 02 14.77083	03 47 42.20	+47 36 33.7	056
/1987 XXXIII	1988 02 15.73785	03 50 32.59	+47 55 21.3	056
/1987 XXXIII	1988 02 15.77280	03 50 38.93	+47 56 01.6	056
/1987 XXXIII	1988 02 16.73900	03 53 31.53	+48 14 09.6	056
/1987 XXXIII	1988 02 16.77581	03 53 38.01	+48 14 50.3	056
/1987 XXXIII	1988 03 10.77175	05 11 16.17	+52 53 30.9	056
/1987 XXXIII	1988 03 10.85347	05 11 33.85	+52 54 00.0	056

Periodic Comet Tempel 2

/1988 XIV	1988 06 15.92083	15 33 41.83	+02 19 27.4	056
/1988 XIV	1988 07 06.87865	15 26 05.74	-02 24 26.4	056
/1988 XIV	1988 07 06.92396	15 26 05.66	-02 25 12.3	056
/1988 XIV	1988 07 11.91771	15 27 06.86	-03 55 19.2	056
/1988 XIV	1988 08 10.81782	15 58 24.22	-14 30 08.2	056
/1988 XIV	1988 08 10.83542	15 58 25.85	-14 30 29.9	056
/1988 XIV	1988 08 11.82118	16 00 11.18	-14 52 39.9	056
/1988 XIV	1988 08 11.84618	16 00 13.71	-14 53 13.2	056
/1988 XIV	1988 08 14.82384	16 05 47.95	-15 59 35.4	056
/1988 XIV	1988 08 14.84259	16 05 50.48	-16 00 01.5	056
/1988 XIV	1988 08 17.81736	16 11 48.80	-17 05 57.6	056
/1988 XIV	1988 08 18.81563	16 13 54.70	-17 27 58.8	056

Periodic Comet Gunn

/1989 XI	1993 10 27.80278	08 02 22.05	+27 06 29.2	19.3 T	360
/1989 XI	1993 10 27.83542	08 02 22.48	+27 06 32.0		360
/1989 XI	1993 11 14.79722	08 04 50.48	+27 41 07.9	18.9 T	2 360
/1989 XI	1993 11 14.80069	08 04 50.54	+27 41 09.4		2 360

Periodic Comet Schwassmann-Wachmann 1

/1989 XV	1993 10 22.76840	07 48 03.17	+25 45 35.9	15.3 T	360
/1989 XV	1993 10 22.77153	07 48 03.21	+25 45 36.0		360
/1989 XV	1993 10 27.78646	07 48 57.12	+25 44 09.2	13.3 T	360
/1989 XV	1993 10 27.79653	07 48 57.20	+25 44 09.1		360
/1989 XV	1993 10 27.84271	07 48 57.59	+25 44 08.5		360
/1989 XV	1993 11 14.77587	07 49 40.97	+25 44 41.4	13.1 T	360
/1989 XV	1993 11 14.77882	07 49 40.96	+25 44 41.1		360
/1989 XV	1993 11 18.69184	07 49 18.62	+25 45 53.6	13.1 T	360
/1989 XV	1993 11 18.69479	07 49 18.65	+25 45 52.7		360
/1989 XV	1993 11 20.10344	07 49 07.75	+25 46 24.0	13.8 T	557
/1989 XV	1993 11 20.10921	07 49 07.67	+25 46 24.1	16.7 N	557
/1989 XV	1993 11 20.11115	07 49 07.66	+25 46 24.2		557

Periodic Comet Shoemaker-Levy 4

/1990 XII	1991 02 11.27274	12 11 20.86	+02 25 46.6	3	675
/1990 XII	1991 02 11.30382	12 11 20.29	+02 25 58.5		675

Periodic Comet Encke

/1990 XXI	1993 10 19.56215	23 58 06.44	+16 59 44.8	17.2 T	360
/1990 XXI	1993 10 19.56563	23 58 05.90	+16 59 42.2		360
/1990 XXI	1993 11 17.14378	22 55 05.94	+09 58 43.3		691
/1990 XXI	1993 11 17.16102	22 55 04.26	+09 58 28.6		691
/1990 XXI	1993 11 17.16842	22 55 03.54	+09 58 22.3		691
/1990 XXI	1993 11 18.79304	22 52 36.04	+09 35 41.3		557
/1990 XXI	1993 11 18.80366	22 52 35.08	+09 35 32.4		557
/1990 XXI	1993 11 18.80914	22 52 34.56	+09 35 27.8	17.3 T	557
/1990 XXI	1993 11 18.81106	22 52 34.40	+09 35 26.5	18.0 N	557

Periodic Comet Howell

/1992c	1993 10 19.64358	03 00 36.89	+14 46 48.4	16.0 T	360
/1992c	1993 10 19.64618	03 00 36.72	+14 46 47.9		360
/1992c	1993 11 14.71823	02 32 47.30	+13 21 55.6	15.7 T	360
/1992c	1993 11 14.72083	02 32 47.19	+13 21 55.2		360
/1992c	1993 11 18.66458	02 29 10.54	+13 11 07.8	16.0 T	360
/1992c	1993 11 18.66736	02 29 10.40	+13 11 07.0		360

Comet Spacewatch (1992h)

/1992h	1993 11 23.80972	12 40 46.09	+80 24 03.3	15.6 T	385
/1992h	1993 11 23.82419	12 40 49.42	+80 24 32.1		385
/1992h	1993 11 23.83034	12 40 50.59	+80 24 46.1		385
/1992h	1993 11 25.68178	12 48 35.92	+81 27 35.2	15.8 T	385
/1992h	1993 11 25.68576	12 48 36.99	+81 27 43.6		385
/1992h	1993 11 25.68958	12 48 37.92	+81 27 51.5		385

Periodic Comet Ashbrook-Jackson

/1992j	1993 10 06.78993	01 11 29.54	+13 55 13.3		046
/1992j	1993 10 06.80417	01 11 28.91	+13 55 14.3		046
/1992j	1993 10 09.14441	01 09 24.01	+13 59 39.6		816
/1992j	1993 10 09.67326	01 08 55.35	+14 00 35.3		410
/1992j	1993 10 09.67465	01 08 55.29	+14 00 35.9		410
/1992j	1993 10 09.67917	01 08 55.05	+14 00 37.1		410
/1992j	1993 10 09.87407	01 08 45.03	+14 00 53.9		046
/1992j	1993 10 09.88831	01 08 44.26	+14 00 56.1		046
/1992j	1993 10 16.04472	01 03 17.36	+14 09 28.2		816
/1992j	1993 10 16.04732	01 03 17.22	+14 09 27.9		816
/1992j	1993 10 16.04861	01 03 17.15	+14 09 27.8		816
/1992j	1993 10 19.53611	01 00 18.33	+14 12 55.7		410
/1992j	1993 10 19.53715	01 00 18.29	+14 12 55.8		410
/1992j	1993 10 19.54358	01 00 17.93	+14 12 57.9		410
/1992j	1993 10 19.60729	01 00 14.65	+14 13 01.1	12.8 T	360
/1992j	1993 10 19.61007	01 00 14.51	+14 13 01.3		360
/1992j	1993 10 19.84507	01 00 02.88	+14 13 13.5		107
/1992j	1993 10 22.94399	00 57 31.80	+14 15 35.7		107
/1992j	1993 10 25.82117	00 55 19.85	+14 17 29.6		107
/1992j	1993 10 27.78298	00 53 54.89	+14 18 37.6		107
/1992j	1993 11 04.65376	00 49 02.37	+14 22 48.9	13 T	900
/1992j	1993 11 08.85394	00 47 03.12	+14 25 21.7		107
/1992j	1993 11 09.21788	00 46 53.98	+14 25 37.0		675
/1992j	1993 11 09.80023	00 46 39.92	+14 26 03.4		107
/1992j	1993 11 10.15087	00 46 31.83	+14 26 17.2		675
/1992j	1993 11 11.08101	00 46 10.86	+14 26 59.8		801

/1992j	1993 11 11.10970	00 46 10.17	+14 27 01.1		801
/1992j	1993 11 13.74907	00 45 19.13	+14 29 14.3		107
/1992j	1993 11 15.61432	00 44 49.58	+14 31 01.7	13 T	900
/1992j	1993 11 15.62055	00 44 49.41	+14 31 03.0		900
/1992j	1993 11 15.80449	00 44 47.26	+14 31 14.5		107
/1992j	1993 11 16.61122	00 44 36.32	+14 32 05.5	13.5 T	900
/1992j	1993 11 16.61783	00 44 36.31	+14 32 06.4		900
/1992j	1993 11 16.79351	00 44 34.34	+14 32 17.2		107
/1992j	1993 11 17.05435	00 44 31.30	+14 32 34.3		801
/1992j	1993 11 17.07633	00 44 31.01	+14 32 35.7		801
/1992j	1993 11 17.17614	00 44 29.73	+14 32 42.5		691
/1992j	1993 11 17.18386	00 44 29.67	+14 32 43.0		691
/1992j	1993 11 17.19176	00 44 29.54	+14 32 43.6		691
/1992j	1993 11 18.60538	00 44 15.02	+14 34 23.6	13.3 T	360
/1992j	1993 11 18.60833	00 44 14.98	+14 34 23.9		360
/1992j	1993 11 18.74267	00 44 14.23	+14 34 33.4		107
/1992j	1993 11 19.74840	00 44 06.18	+14 35 52.1		107

Periodic Comet Slaughter-Burnham

/1992w	1993 10 11.69219	05 22 47.70	+33 21 41.4	17.0 T	360
/1992w	1993 10 11.69549	05 22 47.74	+33 21 42.2		360
/1992w	1993 10 11.72708	05 22 48.41	+33 21 49.7		360
/1992w	1993 10 19.68542	05 24 58.86	+33 53 41.7	16.9 T	360
/1992w	1993 10 19.69097	05 24 58.88	+33 53 42.9		360
/1992w	1993 10 20.43446	05 25 05.02	+33 56 32.5		657
/1992w	1993 10 20.44031	05 25 05.00	+33 56 34.8		657
/1992w	1993 10 20.44664	05 25 04.94	+33 56 35.9		657
/1992w	1993 11 08.41971	05 22 07.70	+34 57 28.8		658
/1992w	1993 11 08.42321	05 22 07.60	+34 57 29.3		658
/1992w	1993 11 14.73924	05 18 53.10	+35 10 49.9	16.7 T	360
/1992w	1993 11 14.74236	05 18 53.00	+35 10 50.5		360
/1992w	1993 11 18.68316	05 16 23.52	+35 16 46.6	16.7 T	360
/1992w	1993 11 18.68611	05 16 23.39	+35 16 47.1		360
/1992w	1993 11 19.12397	05 16 05.42	+35 17 17.2		557
/1992w	1993 11 19.12852	05 16 05.23	+35 17 17.5	16.9 T	557
/1992w	1993 11 19.13046	05 16 05.12	+35 17 17.7	17.6 N	557
/1992w	1993 11 20.01457	05 15 28.72	+35 18 17.9	17.9 N 4	557

Periodic Comet Schaumasse

/1992x	1993 01 16.86736	03 31 40.07	+27 11 55.6	10.5 T	091
/1992x	1993 01 16.87917	03 31 40.08	+27 12 11.4	10.5 T	091
/1992x	1993 01 16.88472	03 31 40.17	+27 12 20.5	10.5 T	091
/1992x	1993 02 13.90451	04 11 13.79	+38 37 11.1	8.3 T	091

Comet Mueller (1993a)

/1993a	1993 03 16.58101	07 18 44.73	+57 49 17.3		372
/1993a	1993 03 16.58889	07 18 44.51	+57 49 17.9		372
/1993a	1993 10 06.79375	10 51 53.16	+79 18 15.7		046
/1993a	1993 10 06.80139	10 51 57.61	+79 18 28.6		046
/1993a	1993 10 09.87118	11 31 00.30	+80 46 53.9		046
/1993a	1993 10 09.87506	11 31 04.02	+80 47 01.3		046
/1993a	1993 10 10.79688	11 45 36.2	+81 11 26.2	9.5 T	372
/1993a	1993 10 22.92489	16 39 17.71	+81 24 42.8		107
/1993a	1993 10 24.83819	17 16 32.5	+80 18 56.2	12 T	372

/1993a	1993 10 27.76424	18 00 28.39	+78 14 33.9		107
/1993a	1993 10 28.73148	18 12 11.78	+77 28 33.0		107
/1993a	1993 10 29.73017	18 23 07.20	+76 38 57.1	11.0 T	540
/1993a	1993 10 29.73162	18 23 07.84	+76 38 53.0	11.2 T	540
/1993a	1993 10 29.73301	18 23 08.75	+76 38 47.3	11.1 T	540
/1993a	1993 10 29.73440	18 23 09.82	+76 38 45.2	11.1 T	540
/1993a	1993 10 29.73531	18 23 10.12	+76 38 42.2		107
/1993a	1993 10 29.74029	18 23 13.22	+76 38 25.2	11.4 T	540
/1993a	1993 10 29.74137	18 23 13.71	+76 38 22.9	11.4 T	540
/1993a	1993 10 29.74241	18 23 14.34	+76 38 19.1	11.4 T	540
/1993a	1993 10 29.74346	18 23 14.98	+76 38 16.3	11.4 T	540
/1993a	1993 10 29.74594	18 23 16.41	+76 38 09.5		107
/1993a	1993 11 05.81041	19 17 02.63	+70 05 16.2	10.9 T	540
/1993a	1993 11 05.81138	19 17 03.02	+70 05 13.9	11.0 T	540
/1993a	1993 11 05.81218	19 17 03.38	+70 05 09.8	11.0 T	540
/1993a	1993 11 05.81300	19 17 03.39	+70 05 08.4	11.0 T	540
/1993a	1993 11 08.13054	19 29 02.80	+67 45 42.8		658
/1993a	1993 11 08.13234	19 29 03.31	+67 45 36.3		658
/1993a	1993 11 08.72476	19 31 50.39	+67 09 26.5		107
/1993a	1993 11 08.82889	19 32 18.15	+67 03 03.2		107
/1993a	1993 11 09.71824	19 36 15.97	+66 08 25.5		107
/1993a	1993 11 13.72028	19 51 47.61	+61 59 21.9		107
/1993a	1993 11 13.88755	19 52 21.81	+61 48 50.6	11.1 T	540
/1993a	1993 11 13.88839	19 52 22.17	+61 48 46.5	11.1 T	540
/1993a	1993 11 13.88943	19 52 22.31	+61 48 44.4	11.2 T	540
/1993a	1993 11 13.89019	19 52 22.47	+61 48 39.5	11.2 T	540
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/1993a	1993 11 15.71986	19 58 26.61	+59 54 08.4		107
/1993a	1993 11 15.75313	19 58 33.24	+59 52 01.8		107
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/1993a	1993 11 18.70424	20 07 21.12	+56 47 44.3		107
/1993a	1993 11 18.71965	20 07 23.76	+56 46 46.6		107
/1993a	1993 11 18.75776	20 07 30.17	+56 44 23.6	11.0 T	540
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/1993a	1993 11 18.77168	20 07 32.35	+56 43 30.3	10.9 T	540
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/1993a	1993 11 19.71896	20 10 08.75	+55 44 54.3		107

Comet Mueller (1993d)

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/1993d	1993 04 01.73056	12 52 04.80	+64 16 16.3		372

Periodic Comet Shoemaker-Levy 9

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/1993e	1993 03 30.31897	12 23 43.84	-03 46 09.3	L 691	/1993e	1993 03 31.39913	12 23 13.55	-03 42 54.0	E 691
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/1993e	1993 03 30.31897	12 23 42.83	-03 46 12.7	S 691	/1993e	1993 03 31.39913	12 23 12.84	-03 42 56.3	H 691
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/1993e	1993 03 30.32758	12 23 44.99	-03 46 03.0	E 691	/1993e	1993 04 13.23325	12 17 10.81	-03 06 10.8	L 691
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/1993p	1993 10 25.96986	23 38 18.77	+34 36 17.5		587	/1993p	1993 11 18.88061	23 01 36.58	+17 40 58.7		557
/1993p	1993 10 27.75519	23 34 39.15	+33 26 39.2		107	/1993p	1993 11 18.88183	23 01 36.52	+17 40 55.7	12.8 T	557
/1993p	1993 10 28.77884	23 32 36.68	+32 45 52.3		107	/1993p	1993 11 18.88306	23 01 36.46	+17 40 52.4	14.8 N	557
/1993p	1993 10 28.78571	23 32 35.73	+32 45 33.9		107	/1993p	1993 11 19.72743	23 00 49.59	+17 04 59.7		107
/1993p	1993 10 29.75052	23 30 42.71	+32 06 37.1		107	/1993p	1993 11 19.74005	23 00 48.90	+17 04 25.7		107
/1993p	1993 10 29.77962	23 30 39.51	+32 05 26.2		107	Periodic Comet Spitaler					
/1993p	1993 11 04.59979	23 20 12.08	+28 01 32.4	11 T	900	/1993r	1993 10 09.5309	01 54 18.9	+13 39 23	17 T	5 374
/1993p	1993 11 04.60706	23 20 11.45	+28 01 13.5		900	/1993r	1993 10 19.30191	01 47 05.47	+13 38 29.2	17.0 T	5 675
/1993p	1993 11 05.74627	23 18 20.75	+27 12 07.3	12.5 T	540	/1993r	1993 10 19.32639	01 47 03.97	+13 38 30.3		5 675
/1993p	1993 11 05.74744	23 18 20.49	+27 12 04.6	12.5 T	540	/1993r	1993 10 21.30156	01 45 30.13	+13 37 32.5		5 675
/1993p	1993 11 05.74855	23 18 20.50	+27 12 02.8	12.6 T	540	/1993r	1993 10 21.32674	01 45 28.75	+13 37 31.1		5 675
/1993p	1993 11 05.74958	23 18 20.37	+27 11 58.7	12.6 T	540	/1993r	1993 10 24.29677	01 43 06.34	+13 35 43.3	19.8 N	691
/1993p	1993 11 07.81716	23 15 08.12	+25 42 16.4	12.8 T	540	/1993r	1993 10 24.31248	01 43 05.54	+13 35 42.8	17.2 T	691
/1993p	1993 11 07.81817	23 15 08.01	+25 42 14.3	12.8 T	540	/1993r	1993 10 24.42589	01 42 59.86	+13 35 37.2	19.6 N	691
/1993p	1993 11 07.81920	23 15 07.89	+25 42 10.5	12.8 T	540	/1993r	1993 10 26.25626	01 41 32.66	+13 34 21.8		693
/1993p	1993 11 07.82362	23 15 07.37	+25 41 57.8	12.8 T	540	/1993r	1993 10 26.31402	01 41 29.76	+13 34 19.2		693
/1993p	1993 11 08.71167	23 13 49.07	+25 03 15.8		107	/1993r	1993 10 27.32148	01 40 41.71	+13 33 34.9	17.5 T	693
/1993p	1993 11 08.81356	23 13 40.01	+24 58 48.1		107	/1993r	1993 10 27.32421	01 40 41.57	+13 33 34.9		693
/1993p	1993 11 09.73440	23 12 21.52	+24 18 31.3		107	/1993r	1993 11 03.50000	01 35 13.34	+13 28 07.5	17.7 T	385
/1993p	1993 11 09.79018	23 12 16.66	+24 16 06.0		107	/1993r	1993 11 03.50800	01 35 12.91	+13 28 07.5		385
/1993p	1993 11 10.84082	23 10 50.17	+23 30 07.5	12.8 T	540	/1993r	1993 11 03.51181	01 35 12.82	+13 28 07.2		385
/1993p	1993 11 10.84190	23 10 49.98	+23 30 04.7	12.8 T	540	/1993r	1993 11 05.47656	01 33 49.23	+13 26 44.1	16.8 T	385
/1993p	1993 11 10.84291	23 10 49.95	+23 30 00.7	12.6 T	540	/1993r	1993 11 05.48102	01 33 49.06	+13 26 44.0		385
/1993p	1993 11 10.84395	23 10 49.89	+23 29 58.4	12.8 T	540	/1993r	1993 11 05.48102	01 33 49.06	+13 26 44.0		385
/1993p	1993 11 13.70552	23 07 11.18	+21 24 46.4		107	/1993r	1993 11 10.82378	01 30 21.50	+13 23 41.4	17.0 T	540
/1993p	1993 11 13.86834	23 06 59.06	+21 17 38.6		108	/1993r	1993 11 10.83178	01 30 21.35	+13 23 41.0	17.2 T	540
/1993p	1993 11 13.87042	23 06 58.90	+21 17 33.8		108	/1993r	1993 11 11.12727	01 30 10.77	+13 23 33.7		801
/1993p	1993 11 13.87639	23 06 58.51	+21 17 18.1		108	/1993r	1993 11 11.15189	01 30 09.81	+13 23 33.2		801
						/1993r	1993 11 13.14301	01 29 02.44	+13 22 51.5		801
						/1993r	1993 11 13.17299	01 29 01.37	+13 22 50.6		801

/1993r	1993 11 13.83704	01 28 40.46	+13 22 39.0	17.4 T	540
/1993r	1993 11 13.85350	01 28 39.85	+13 22 39.2	17.2 T	540
/1993r	1993 11 13.86438	01 28 39.44	+13 22 40.1	17.4 T	540
/1993r	1993 11 13.87537	01 28 39.19	+13 22 38.7	17.5 T	540
/1993r	1993 11 14.00672	01 28 34.83	+13 22 36.9	17.4 T	540
/1993r	1993 11 14.01785	01 28 34.35	+13 22 37.1	17.5 T	540
/1993r	1993 11 17.08227	01 27 06.53	+13 22 22.3		801
/1993r	1993 11 17.11419	01 27 05.56	+13 22 22.7		801
/1993r	1993 11 17.22914	01 27 02.43	+13 22 24.5		691
/1993r	1993 11 17.24853	01 27 01.79	+13 22 25.0		691
/1993r	1993 11 17.25637	01 27 01.69	+13 22 24.4		691
/1993r	1993 11 22.03763	01 25 16.81	+13 23 50.4		786
/1993r	1993 11 22.04564	01 25 16.64	+13 23 50.5		786
/1993r	1993 11 22.05160	01 25 16.51	+13 23 50.0		786
/1993r	1993 11 23.09889	01 24 58.70	+13 24 28.9		786
/1993r	1993 11 23.10634	01 24 58.57	+13 24 28.8		786
/1993r	1993 11 23.10933	01 24 58.52	+13 24 29.2		786

Note 1: very faint image. 2: faint image. 3: correction to *MPC* 17687 (with slight time change); out-of-focus image. 4: crowded star field. 5: pre-recovery image. E-W: various nuclei, counted east-west, in the notation of Sekanina *et al.* (1993, submitted to *Astron. J.*), correlating with that of Jewitt *et al.* (1993, *Bull. Am. Astron. Soc.* **25**, 1042) as E = 17, G = 15, H = 14, K = 12, L = 11, Q = 7, R = 6, S = 5, W = 1.

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
- J J2000.0 reduction of previously-reported position
- M measurement difficult
- N near edge of plate, measurement uncertain
- O image out of focus
- o plate measured in one direction only
- P position uncertain
- p poor image
- R right ascension uncertain

- r poor distribution of reference stars
- S poor sky
- s streaked image
- T time uncertain
- t trailed image
- U uncertain image
- u unconfirmed image
- V very faint image
- W weak image
- w weak solution

Object	Date	UT	α_{2000}	δ_{2000}	Mag.	N Obs.
010 Caussols						
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						
1986 QN ₃	1993 11 09.09421		04 34 26.21	+19 28 02.0		010
1986 QN ₃	1993 11 09.10503		04 34 25.57	+19 28 02.0		010
1986 QN ₃	1993 11 10.03958		04 33 34.99	+19 27 47.4	18.3	010
1986 QN ₃	1993 11 10.05000		04 33 34.26	+19 27 48.2		010
1986 QN ₃	1993 11 10.06042		04 33 33.64	+19 27 47.5		010
1988 KC	1993 11 09.09421		04 50 26.97	+18 10 20.5		010
1988 KC	1993 11 09.10503		04 50 26.47	+18 10 18.0		010
1988 KC	1993 11 10.03958		04 49 37.03	+18 04 22.2	18.4	010
1988 KC	1993 11 10.05000		04 49 36.50	+18 04 17.8		010
1988 KC	1993 11 10.06042		04 49 35.83	+18 04 12.7		010
1993 VO ₄	* 1993 11 09.09421		04 38 34.98	+17 11 45.8		010
1993 VO ₄	1993 11 09.10503		04 38 34.42	+17 11 47.7		010
1993 VO ₄	1993 11 10.03958		04 37 50.95	+17 13 52.0	18.5	010
1993 VO ₄	1993 11 10.05000		04 37 50.41	+17 13 54.6		010
1993 VO ₄	1993 11 10.06042		04 37 49.90	+17 13 56.2		010
1993 VP ₄	* 1993 11 09.09421		04 41 29.85	+20 15 44.6		010
1993 VP ₄	1993 11 09.10503		04 41 29.27	+20 15 45.7		010
1993 VP ₄	1993 11 10.03958		04 40 39.17	+20 17 34.7	18.3	010
1993 VP ₄	1993 11 10.05000		04 40 38.55	+20 17 36.1		010
1993 VP ₄	1993 11 10.06042		04 40 37.95	+20 17 37.0		010
1993 VQ ₄	* 1993 11 09.09421		04 42 46.11	+18 48 00.5		010
1993 VQ ₄	1993 11 09.10503		04 42 45.52	+18 47 56.6		010
1993 VQ ₄	1993 11 10.03958		04 41 57.47	+18 45 02.8	18.5	010
1993 VQ ₄	1993 11 10.05000		04 41 56.86	+18 45 01.1		010
1993 VQ ₄	1993 11 10.06042		04 41 56.33	+18 44 59.1		010
1993 VR ₄	* 1993 11 09.09421		04 42 58.63	+20 47 30.1		010
1993 VR ₄	1993 11 09.10503		04 42 58.08	+20 47 31.9		010
1993 VR ₄	1993 11 10.03958		04 42 16.25	+20 46 46.4	18.4	010
1993 VR ₄	1993 11 10.05000		04 42 15.70	+20 46 46.8		010
1993 VR ₄	1993 11 10.06042		04 42 15.09	+20 46 47.3		010
1993 VS ₄	* 1993 11 09.09421		04 44 12.91	+17 40 13.9		010
1993 VS ₄	1993 11 09.10503		04 44 12.23	+17 40 16.7		010
1993 VS ₄	1993 11 10.03958		04 43 22.63	+17 43 34.9	18.5	010

1993 VS ₄	1993 11 10.05000	04 43 21.97	+17 43 38.0	010	(5707)	1993 08 19.03889	22 59 05.23	-01 59 48.6	010	
1993 VS ₄	1993 11 10.06042	04 43 21.43	+17 43 40.0	010	(5707)	1993 08 19.04931	22 59 04.71	-01 59 52.3	010	
1993 VT ₄	* 1993 11 09.09421	04 45 17.66	+18 50 50.2	010	012 Uccle					
1993 VT ₄	1993 11 09.10503	04 45 17.13	+18 50 45.2	010	T. Pauwels, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels,					
1993 VT ₄	1993 11 10.03958	04 44 35.65	+18 47 22.1	18.6	Belgium					
1993 VT ₄	1993 11 10.05000	04 44 35.17	+18 47 22.7	010	0.33-m Carte de Ciel astrograph					
1993 VT ₄	1993 11 10.06042	04 44 34.72	+18 47 23.0	010	(45)	1993 10 12.91979	02 24 22.06	+05 04 57.3	012	
1993 VU ₄	* 1993 11 09.09421	04 46 38.83	+20 52 50.8	010	(45)	1993 10 12.93542	02 24 21.37	+05 04 52.5	012	
1993 VU ₄	1993 11 09.10503	04 46 38.54	+20 52 46.0	010	033 Tautenburg					
1993 VU ₄	1993 11 10.03958	04 45 58.61	+20 47 10.5	18.3	F. Börngen, Thüringer Landessternwarte, Sternwarte 5, D-07778 Tautenburg,					
1993 VU ₄	1993 11 10.05000	04 45 58.11	+20 47 06.8	010	Germany					
1993 VU ₄	1993 11 10.06042	04 45 57.67	+20 47 02.9	010	L. D. Schmadel, Astronomisches Rechen-Institut, Mönchhofstrasse 12-14, D-69120					
1993 VV ₄	* 1993 11 09.09421	04 52 17.11	+17 47 05.5	010	Heidelberg, Germany					
1993 VV ₄	1993 11 09.10503	04 52 16.62	+17 47 05.9	010	1.3-m Schmidt telescope					
1993 VV ₄	1993 11 10.03958	04 51 38.00	+17 47 58.2	18.7	PPM					
1993 VV ₄	1993 11 10.05000	04 51 37.51	+17 47 58.4	010	1967 JN	1993 09 18.93889	00 26 16.81	-12 10 35.4	16.5	033
1993 VV ₄	1993 11 10.06042	04 51 37.09	+17 47 58.4	010	1967 JN	1993 09 18.98403	00 26 14.16	-12 10 41.1		033
(564)	1993 11 09.09421	04 42 00.43	+19 02 26.4	010	1967 JN	1993 09 21.98333	00 23 26.12	-12 15 58.9		033
(564)	1993 11 09.10503	04 41 59.80	+19 02 28.1	010	1967 JN	1993 10 17.87292	00 01 03.23	-12 05 43.7	16.9	033
(564)	1993 11 10.03958	04 41 09.86	+19 04 13.3	18.0	1967 JN	1993 10 17.91736	00 01 01.27	-12 05 37.0		033
(564)	1993 11 10.05000	04 41 09.22	+19 04 14.4	010	1967 JN	1993 10 17.91736	00 05 03.36	-13 13 59.8	17.3	033
(564)	1993 11 10.06042	04 41 08.62	+19 04 15.8	010	1991 AO ₃	1993 10 17.91736	00 05 01.73	-13 13 57.0		033
(1347)	1993 11 10.03958	04 53 41.33	+17 48 24.1	17.5	1991 AO ₃	1993 10 17.84861	23 55 03.46	+02 38 21.6	17.2	033
(1347)	1993 11 10.05000	04 53 40.88	+17 48 19.0	010	1993 RF ₂	1993 10 17.89526	23 55 01.68	+02 38 19.4		033
(1347)	1993 11 10.06042	04 53 40.36	+17 48 14.8	010	1993 RF ₂	1993 10 17.84861	00 01 28.42	+03 23 20.1	17.6	033
(1896)	1993 11 09.09421	04 42 08.92	+18 41 06.2	010	1993 SK ₃	1993 10 17.89526	00 01 26.64	+03 23 08.8		033
(1896)	1993 11 09.10503	04 42 08.29	+18 41 04.5	010	2158 T-3	1993 10 17.84861	23 56 40.75	+03 04 49.0	18.5	033
(1896)	1993 11 10.03958	04 41 21.43	+18 38 07.9	18.4	2158 T-3	1993 10 17.89526	23 56 38.89	+03 04 34.7		033
(1896)	1993 11 10.05000	04 41 20.79	+18 38 06.6	010	(189)	1993 10 17.84861	23 58 47.93	+02 03 15.8	13.6	033
(1896)	1993 11 10.06042	04 41 20.26	+18 38 04.6	010	(189)	1993 10 17.89526	23 58 46.23	+02 02 56.8		033
(2426)	1993 11 09.09421	04 35 27.92	+20 48 49.1	010	(5479)	1993 10 17.84861	23 58 35.91	+04 01 53.2	16.6	033
(2426)	1993 11 09.10503	04 35 27.42	+20 48 45.9	010	(5479)	1993 10 17.89526	23 58 34.91	+04 01 18.6		033
(2426)	1993 11 10.03958	04 34 46.29	+20 45 22.9	18.2	046 Kleť					
(2426)	1993 11 10.05000	04 34 45.76	+20 45 20.5	010	J. Tichá, Hvězdárna Kleť, CZ-37001 České Budějovice, Czech Republic					
(2426)	1993 11 10.06042	04 34 45.25	+20 45 18.2	010	Observers J. Tichá, Z. Vávrová, Z. Moravec, M. Tichý					
(2773)	1993 11 09.09421	04 51 01.20	+18 00 27.7	010	Measurers Z. Moravec, M. Tichý					
(2773)	1993 11 09.10503	04 51 00.68	+18 00 26.8	010	0.63-m Maksutov reflector, 0.57-m reflector					
(2773)	1993 11 10.03958	04 50 19.78	+18 00 08.8	17.9	PPM					
(2773)	1993 11 10.05000	04 50 19.19	+18 00 08.6	010	1993 MF	1993 10 09.89069	00 28 44.40	+24 31 43.2		046
(2773)	1993 11 10.06042	04 50 18.76	+18 00 07.9	010	1993 MF	1993 10 09.89983	00 28 44.45	+24 31 27.3		046
(2989)	1993 11 09.09421	04 37 03.67	+20 20 26.4	010	1993 MF	1993 10 10.90208	00 29 02.72	+24 04 21.6		S 046
(2989)	1993 11 09.10503	04 37 03.00	+20 20 26.4	010	1993 MF	1993 10 10.90943	00 29 02.75	+24 04 10.6		S 046
(2989)	1993 11 10.03958	04 36 07.10	+20 20 02.8	18.2	1993 MF	1993 10 11.82170	00 29 20.33	+23 39 38.4		S 046
(2989)	1993 11 10.05000	04 36 06.49	+20 20 02.3	010	1993 MF	1993 10 11.82917	00 29 20.40	+23 39 30.5		S 046
(2989)	1993 11 10.06042	04 36 05.84	+20 20 02.6	010	1993 OH ₁₁	* 1993 07 24.96696	21 04 24.50	-16 59 44.4	15.8	E 046
(4537)	1993 11 09.09421	04 40 24.48	+18 52 42.4	010	1993 OH ₁₁	1993 07 24.98154	21 04 23.93	-16 59 47.7		E 046
(4537)	1993 11 09.10503	04 40 23.98	+18 52 38.7	010	1993 OH ₁₁	1993 07 26.93802	21 02 26.77	-17 06 14.0		E 046
(4537)	1993 11 10.03958	04 39 45.42	+18 48 38.2	18.2	1993 OH ₁₁	1993 07 26.94959	21 02 26.00	-17 06 18.9		E 046
(4537)	1993 11 10.05000	04 39 44.94	+18 48 35.5	010	1993 TU ₂	* 1993 10 06.78993	01 13 14.62	+12 57 35.4	15.7	046
(4537)	1993 11 10.06042	04 39 44.46	+18 48 33.2	010	1993 TU ₂	1993 10 06.80417	01 13 13.81	+12 57 38.2		046
(5707)	1993 08 17.98229	22 59 56.22	-01 53 20.7	010						
(5707)	1993 08 19.02812	22 59 05.79	-01 59 44.9	18.0						

1993 TU ₂	1993 10 09.87407	01 10 18.11	+13 08 15.0		046	(895)	1993 08 17.89306	19 40 07.79	+02 43 29.9	13.8	091
1993 TU ₂	1993 10 09.88831	01 10 17.20	+13 08 18.4		046	(895)	1993 08 18.86458	19 39 32.52	+02 42 00.2	13.8	091
1993 TV ₂	* 1993 10 06.78993	01 15 18.51	+14 47 56.0	16.1	046	(1531)	1993 08 18.93831	20 51 01.89	-04 31 39.9	15.9	V 091
1993 TV ₂	1993 10 09.87407	01 13 11.78	+14 29 01.6		046	(1584)	1993 02 14.01255	09 03 42.28	-00 28 31.0	12.6	091
1993 TV ₂	1993 10 09.88831	01 13 10.93	+14 28 57.3		046	(1584)	1993 03 11.87083	08 34 32.57	-04 33 18.3	13.3	091
1993 TW ₂	* 1993 10 06.78993	01 15 53.25	+13 53 44.4	16.0	U 046	(1584)	1993 03 18.88889	08 31 33.65	-05 13 22.2	13.5	091
1993 TW ₂	1993 10 06.80417	01 15 52.94	+13 53 39.5		046	(1584)	1993 03 27.86250	08 30 52.58	-05 55 17.2	13.8	091
1993 TW ₂	1993 10 09.87407	01 13 58.39	+13 41 59.4		046	(1951)	1993 01 17.01875	08 54 14.11	-00 40 27.6	14.9	091
1993 TW ₂	1993 10 09.88831	01 13 57.50	+13 41 54.1		046	(1951)	1993 01 18.02569	08 52 32.72	+00 19 43.5	14.9	091
1993 TX ₂	* 1993 10 09.91319	01 45 41.38	+12 50 58.8	15.9	046	(1951)	1993 02 13.99028	07 56 58.65	+31 10 49.9	15.1	091
1993 TX ₂	1993 10 09.92760	01 45 40.70	+12 50 52.3		046	(2060)	1993 03 18.90417	09 13 06.56	+08 46 37.4	15.8	V 091
1993 TX ₂	1993 10 10.90179	01 44 30.86	+12 42 48.0		046	(2083)	1993 08 20.89538	20 22 41.33	+13 14 48.6	15.8	V 091
1993 TY ₂	* 1993 10 09.91319	01 46 33.74	+15 59 00.4	16.0	046	(2131)	1993 08 17.91042	20 10 12.58	-03 25 53.2	14.0	091
1993 TY ₂	1993 10 09.92760	01 46 32.93	+15 59 01.2		046	(2131)	1993 08 18.88825	20 08 20.11	-03 01 37.4	14.1	091
1993 TY ₂	1993 10 10.90179	01 45 35.23	+15 52 32.8		M 046	(2131)	1993 08 18.90003	20 08 18.69	-03 01 19.6	14.1	091
1993 TZ ₂	* 1993 10 09.91319	01 47 43.51	+12 52 22.7	16.3	E 046	(2204)	1993 03 18.93958	10 27 45.32	+12 48 54.6	14.1	091
1993 TZ ₂	1993 10 09.92760	01 47 42.69	+12 52 15.6		E 046	(2204)	1993 03 27.97778	10 25 10.59	+14 51 15.5	14.5	091
1993 TZ ₂	1993 10 10.90179	01 46 41.79	+12 45 27.9		046	(2423)	1993 01 16.91181	07 19 35.19	+19 06 26.3	16.3	V 091
1993 TL ₁₁	* 1993 10 09.91319	01 40 02.03	+12 58 12.7	15.5	046	(2423)	1993 01 17.96979	07 18 19.56	+19 07 40.2	16.3	V 091
1993 TL ₁₁	1993 10 09.92760	01 40 00.97	+12 58 10.8		046	(2463)	1993 03 28.00694	12 38 37.79	-00 21 09.3	15.2	091
1993 TL ₁₁	1993 10 10.90179	01 39 02.51	+12 55 28.2		046	(2463)	1993 03 28.05486	12 38 35.46	-00 20 39.0	15.2	091
1993 TM ₁₁	* 1993 10 09.91319	01 42 05.51	+15 52 00.4	16.1	046	(2578)	1993 03 18.96183	11 07 08.06	+21 07 07.4	16.2	V 091
1993 TM ₁₁	1993 10 09.92760	01 42 04.76	+15 51 58.9		046	(4179)	1993 01 16.98476	08 01 20.78	+20 09 48.4	12.9	091
1993 TM ₁₁	1993 10 10.90179	01 40 53.54	+15 49 29.2		046	(4179)	1993 01 17.99097	08 00 28.23	+20 14 27.5	13.2	091
1993 TN ₁₁	* 1993 10 09.91319	01 44 16.29	+15 00 40.2	16.2	046	(4179)	1993 01 18.00833	08 00 27.19	+20 14 31.9	13.2	091
1993 TN ₁₁	1993 10 09.92760	01 44 15.64	+15 00 39.3		046						
1993 TN ₁₁	1993 10 10.90179	01 43 16.34	+14 59 04.7		I 046						
1993 TO ₁₁	* 1993 10 09.91319	01 38 46.82	+14 09 54.1	15.7	046						
1993 TO ₁₁	1993 10 09.92760	01 38 45.85	+14 09 52.6		046						
1993 TO ₁₁	1993 10 10.90179	01 38 00.50	+14 07 26.5		046						
1993 TG ₁₂	1993 10 09.91319	01 36 15.62	+16 06 11.4	15.7	E 046						
1993 TG ₁₂	1993 10 09.92760	01 36 14.36	+16 06 13.2		E 046	1993 MF	1993 10 22.93677	00 33 32.05	+19 09 03.5		107
(2)	1993 08 21.85340	21 49 44.42	+08 43 51.1		046	1993 MF	1993 10 22.96232	00 33 32.58	+19 08 28.4		107
(2)	1993 08 21.85792	21 49 44.26	+08 43 48.4		046	1993 MF	1993 10 28.78985	00 36 31.34	+17 11 04.9		107
(132)	1993 10 13.81424	23 35 12.05	+33 21 21.4		046	1993 MF	1993 10 28.80962	00 36 31.96	+17 10 38.3		107
(132)	1993 10 13.82494	23 35 11.43	+33 21 16.8		046	(1728)	1993 10 28.79737	03 30 00.55	+21 39 23.1		107
(153)	1993 10 06.78993	01 08 50.93	+12 50 36.9		046	(1728)	1993 10 28.81584	03 29 59.64	+21 39 16.2		107
(153)	1993 10 06.80417	01 08 50.41	+12 50 31.7		046	(1735)	1993 10 27.79469	01 56 09.81	+22 17 25.6		107
(153)	1993 10 09.87407	01 06 59.69	+12 35 59.9		046	(1735)	1993 10 27.85981	01 56 05.92	+22 17 18.0		107
(153)	1993 10 09.88831	01 06 59.15	+12 35 55.8		046	(2323)	1993 10 28.80398	02 39 15.62	+19 42 07.0		107
(504)	1993 10 27.11215	07 54 52.76	+18 27 01.5		046	(2323)	1993 10 28.83492	02 39 13.86	+19 42 01.2		107
(504)	1993 10 27.12361	07 54 53.11	+18 27 01.9		046	(2323)	1993 11 18.94243	02 21 19.30	+18 44 13.6		107
(1552)	1993 10 09.91319	01 37 26.81	+13 56 31.1		I 046	(2337)	1993 11 09.81617	05 02 11.85	+34 09 26.5		107
(1552)	1993 10 09.92760	01 37 25.93	+13 56 30.5		046	(2337)	1993 11 09.85823	05 02 10.00	+34 09 49.9		107
(1552)	1993 10 10.90179	01 36 34.09	+13 55 42.1		M 046	(2650)	1993 10 27.78879	01 09 18.05	+30 45 08.7		107
						(2650)	1993 10 27.82180	01 09 16.06	+30 45 03.9		107
						(2650)	1993 10 28.75653	01 08 20.79	+30 41 46.7		107
						(2650)	1993 10 28.76906	01 08 20.03	+30 41 43.8		107
						(2650)	1993 11 13.79639	00 56 14.49	+29 24 08.8		107
						(2650)	1993 11 13.82538	00 56 13.66	+29 23 58.5		107
						(2699)	1993 11 09.81004	03 42 13.55	+13 40 10.2		107
						(2699)	1993 11 09.83837	03 42 11.55	+13 40 17.0		107
						(2699)	1993 11 13.81851	03 37 36.43	+13 57 29.9		107

091 Aurec-sur-Loire

R. Chanal, Observatoire de Nurol, F-43110 Aurec-sur-Loire, France

0.41-m reflector

(243)	1993 03 11.92153	12 12 21.38	-02 24 48.3	14.0	091						
(531)	1993 08 17.98056	20 17 20.78	+29 04 16.3	15.8	V 091						
(568)	1993 08 18.00208	20 53 57.91	+10 01 52.2	13.5	091						
(568)	1993 08 18.95486	20 53 11.21	+09 59 03.3	13.5	091						

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

1993 MF	1993 10 22.93677	00 33 32.05	+19 09 03.5		107						
1993 MF	1993 10 22.96232	00 33 32.58	+19 08 28.4		107						
1993 MF	1993 10 28.78985	00 36 31.34	+17 11 04.9		107						
1993 MF	1993 10 28.80962	00 36 31.96	+17 10 38.3		107						
(1728)	1993 10 28.79737	03 30 00.55	+21 39 23.1		107						
(1728)	1993 10 28.81584	03 29 59.64	+21 39 16.2		107						
(1735)	1993 10 27.79469	01 56 09.81	+22 17 25.6		107						
(1735)	1993 10 27.85981	01 56 05.92	+22 17 18.0		107						
(2323)	1993 10 28.80398	02 39 15.62	+19 42 07.0		107						
(2323)	1993 10 28.83492	02 39 13.86	+19 42 01.2		107						
(2323)	1993 11 18.94243	02 21 19.30	+18 44 13.6		107						
(2337)	1993 11 09.81617	05 02 11.85	+34 09 26.5		107						
(2337)	1993 11 09.85823	05 02 10.00	+34 09 49.9		107						
(2650)	1993 10 27.78879	01 09 18.05	+30 45 08.7		107						
(2650)	1993 10 27.82180	01 09 16.06	+30 45 03.9		107						
(2650)	1993 10 28.75653	01 08 20.79	+30 41 46.7		107						
(2650)	1993 10 28.76906	01 08 20.03	+30 41 43.8		107						
(2650)	1993 11 13.79639	00 56 14.49	+29 24 08.8		107						
(2650)	1993 11 13.82538	00 56 13.66	+29 23 58.5		107						
(2699)	1993 11 09.81004	03 42 13.55	+13 40 10.2		107						
(2699)	1993 11 09.83837	03 42 11.55	+13 40 17.0		107						
(2699)	1993 11 13.81851	03 37 36.43	+13 57 29.9		107						

(2699)	1993 11 13.83420	03 37 35.23	+13 57 35.9	107
(2699)	1993 11 16.80278	03 34 07.20	+14 10 44.0	107
(2699)	1993 11 16.81803	03 34 06.06	+14 10 47.8	107
(2699)	1993 11 18.90472	03 31 39.79	+14 20 11.8	107
(2699)	1993 11 18.92614	03 31 38.28	+14 20 16.3	107
(3223)	1993 11 19.81060	04 18 50.00	+04 33 07.9	107
(3223)	1993 11 19.81726	04 18 49.64	+04 33 03.2	107
(4324)	1993 11 13.80466	03 58 15.34	+32 54 17.8	107
(4324)	1993 11 13.84228	03 58 13.06	+32 54 09.0	107
(4324)	1993 11 13.86363	03 58 11.84	+32 54 03.5	107
(4324)	1993 11 16.81188	03 55 16.63	+32 39 25.1	107
(4324)	1993 11 16.83499	03 55 15.15	+32 39 16.8	107
(4324)	1993 11 18.91566	03 53 08.80	+32 27 40.7	107
(4324)	1993 11 18.93311	03 53 07.71	+32 27 34.5	107
(4324)	1993 11 19.76865	03 52 17.17	+32 22 36.3	107
(4324)	1993 11 19.78378	03 52 16.21	+32 22 31.5	107
(4349)	1993 10 27.80320	00 54 42.37	-14 41 20.6	107
(4349)	1993 10 27.86764	00 54 39.82	-14 41 02.5	107

108 Montelupo

M. Tombelli, Via Bozzeto 26, I-50056 Montelupo, Florence, Italy

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

Measurer M. Tombelli

0.20-m $f/10$ reflector + CCD

1993 UB	1993 10 28.94486	00 35 31.49	-00 46 53.9	108
1993 UB	1993 10 28.95518	00 35 29.75	-00 46 06.4	108
1993 UB	1993 10 28.96101	00 35 28.73	-00 45 36.3	108
1993 UB	1993 10 28.96483	00 35 28.03	-00 45 16.0	108
1993 UB	1993 10 28.97084	00 35 27.11	-00 44 48.6	108
1993 UB	1993 10 28.97427	00 35 26.32	-00 44 32.3	108
1993 UB	1993 10 28.97828	00 35 25.52	-00 44 10.9	108
1993 VW	1993 11 23.90316	02 23 26.31	+12 34 17.4	108
1993 VW	1993 11 23.90526	02 23 25.88	+12 34 09.4	108
1993 VW	1993 11 23.90698	02 23 25.85	+12 34 07.6	108
1993 WD	1993 11 23.86314	01 36 14.46	+25 13 30.7	108
1993 WD	1993 11 23.86705	01 36 09.35	+25 14 04.8	108
1993 WD	1993 11 23.86871	01 36 07.00	+25 14 23.6	108
1993 WD	1993 11 23.87026	01 36 04.81	+25 14 34.2	108
1993 WD	1993 11 23.98271	01 33 31.66	+25 31 07.0	108
1993 WD	1993 11 23.98390	01 33 29.99	+25 31 17.9	108
1993 WD	1993 11 23.98576	01 33 27.46	+25 31 32.6	108

323 Perth

M. P. Candy, Perth Observatory, Bickley, WA 6076, Australia

Observers G. Lowe, T. Smith

0.3-m astrograph

1993 VA	1993 11 14.52083	23 56 03.96	-87 57 09.7	323
1993 VA	1993 11 14.68958	23 29 53.28	-88 14 44.3	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 ₁	1993 11 03.49965	02 35 05.31	+18 46 29.2	16.6 V	360
1980 RG ₁	1993 11 03.50347	02 35 05.16	+18 46 26.8		360
1980 RG ₁	1993 11 03.50764	02 35 05.00	+18 46 24.3		360
1993 TO ₁	1993 10 24.52813	02 13 16.45	+08 57 48.1	15.8 V	360
1993 TO ₁	1993 10 24.53160	02 13 16.11	+08 57 51.1		360
1993 TO ₁	1993 10 24.54410	02 13 14.86	+08 58 01.4		360
1993 TO ₁	1993 11 03.48507	01 57 00.39	+11 17 53.4	16.1 V	360
1993 TO ₁	1993 11 03.48889	01 57 00.02	+11 17 56.6		360
(2060)	1993 11 14.80625	10 30 04.51	+03 15 44.9	16.5 V	360
(2060)	1993 11 14.80972	10 30 04.56	+03 15 44.4		360
(4743)	1993 11 18.64306	01 36 32.63	+14 40 42.4	17.4 V	360
(4743)	1993 11 18.64618	01 36 32.47	+14 40 42.0		360
(4743)	1993 11 18.65017	01 36 32.28	+14 40 41.2		360

364 JCPM Kagoshima Station

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

Observer M. Mukai

Measurer M. Takeishi

0.25-m $f/4.2$ Wright-Schmidt telescope

GSC

1993 TC	1993 10 19.51424	01 30 02.04	+11 04 22.5	16	364
1993 TC	1993 10 19.52813	01 30 00.56	+11 04 31.5		364
1993 TC	1993 10 21.53299	01 26 38.93	+11 25 36.1		364
1993 TC	1993 10 21.54688	01 26 37.40	+11 25 45.7		364
1993 TV ₁	1993 10 19.57326	02 09 05.60	+08 12 14.8	16.5	364
1993 TV ₁	1993 10 19.58715	02 09 04.77	+08 12 17.1		364
1993 UM	1993 10 10.57257	01 53 24.16	+07 33 49.2	16.5	364
1993 UM	1993 10 10.58646	01 53 23.34	+07 33 50.6		364
1993 UM	1993 10 19.54410	01 44 00.10	+07 40 43.8	16.5	364
1993 UM	1993 10 19.55799	01 43 59.20	+07 40 45.1		364

365 Uto Observatory

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

Observer F. Uto

0.20-m $f/4.0$ reflector

PPM

1993 VL ₂	* 1993 11 15.61626	04 00 55.95	+28 50 51.0	17.0	W 365
1993 VL ₂	1993 11 15.65723	04 00 53.25	+28 50 25.7		365
1993 VL ₂	1993 11 16.61765	03 59 53.97	+28 42 34.6		365
1993 VL ₂	1993 11 16.64543	03 59 52.33	+28 42 21.0		365
1993 VQ ₂	* 1993 11 15.63015	04 04 38.44	+24 14 46.5	16.5	S 365
1993 VQ ₂	1993 11 15.67043	04 04 35.91	+24 14 37.8		365
1993 VQ ₂	1993 11 16.63223	04 03 34.41	+24 11 53.1		365
1993 VQ ₂	1993 11 16.65793	04 03 32.54	+24 11 51.8		365
1993 VR ₂	* 1993 11 15.63015	04 06 28.97	+23 52 56.7	16.5	S 365
1993 VR ₂	1993 11 15.67043	04 06 26.34	+23 52 35.5		365
1993 VR ₂	1993 11 16.63223	04 05 29.75	+23 44 39.9		365
1993 VR ₂	1993 11 16.65793	04 05 28.38	+23 44 26.5		365

367 Yatsuka

S. Miyasaka, 3-8-501, 4 Chome, Nagayama, Tama, Tokyo 206, Japan

Observer H. Abe
 Measurer S. Miyasaka
 0.26-m reflector
 PPM

1993 TE	1993 10 22.54516	01 24 33.23	+04 30 09.2		367
1993 TE	1993 10 22.57246	01 24 32.20	+04 29 49.7		367
1993 TF	1993 10 22.55558	01 35 05.59	+06 33 33.6		367
1993 TF	1993 10 22.58131	01 35 04.15	+06 33 26.6		367
1993 TX	1993 10 22.56393	01 38 52.09	+03 05 56.8		367
1993 TX	1993 10 22.58978	01 38 50.45	+03 06 06.6		367

372 Geisei

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

1973 SF ₆	1993 10 24.73472	03 53 57.07	+12 00 28.1	17	372
1973 SF ₆	1993 10 25.73403	03 53 10.17	+11 53 21.4	17	372
1988 UH	1993 11 09.56840	00 19 17.34	+02 42 24.5	17	372
1988 UH	1993 11 09.57847	00 19 17.08	+02 42 23.6		372
1989 WC ₂	1993 10 24.69166	04 20 04.29	+17 30 08.6	16.5	372
1989 WC ₂	1993 10 24.70208	04 20 03.76	+17 30 12.3		372
1989 WC ₂	1993 10 25.78507	04 19 33.16	+17 33 28.9	17	372
1989 WC ₂	1993 10 25.79549	04 19 32.92	+17 33 31.2		372
1989 YH	1993 11 15.67014	02 09 29.95	+27 30 21.0	15.5	372
1989 YH	1993 11 15.67986	02 09 29.46	+27 30 17.8		372
1991 CL ₁	1993 11 15.68959	02 29 14.96	+19 00 34.1	16.5	372
1991 CL ₁	1993 11 15.69896	02 29 14.34	+19 00 31.7		372
1991 DK	1993 11 18.62431	01 56 20.84	+34 10 34.8	15	372
1991 DK	1993 11 18.63472	01 56 20.28	+34 10 32.5		372
1991 GQ ₁₀	1993 10 24.73472	03 56 12.20	+13 02 51.9	17	372
1991 GQ ₁₀	1993 10 25.71944	03 55 35.61	+12 59 38.9	17	372
1991 GQ ₁₀	1993 11 13.53507	03 40 24.84	+12 00 12.4	16.5	372
1991 GQ ₁₀	1993 11 13.54444	03 40 24.29	+12 00 11.0		372
1993 SM ₃	1993 11 09.58924	01 02 54.16	+03 51 38.5	18	372
1993 SM ₃	1993 11 09.59931	01 02 53.65	+03 51 38.1		372
1993 SM ₃	1993 11 13.55729	01 01 24.57	+03 44 07.7	17.5	372
1993 SM ₃	1993 11 13.56736	01 01 24.09	+03 44 06.9		372
1993 TO ₁	1993 10 24.64236	02 13 04.98	+08 59 27.5	17	372
1993 TO ₁	1993 10 24.78125	02 12 50.76	+09 01 22.6		372
1993 UU	* 1993 10 22.67083	03 22 33.25	+12 48 46.3	16	372
1993 UU	1993 10 25.74774	03 19 49.72	+12 57 34.1	16	372
1993 UU	1993 11 09.64340	03 03 56.14	+13 41 35.9	14	372
1993 UU	1993 11 09.65382	03 03 55.37	+13 41 39.2		372
1993 UU	1993 11 13.68194	02 59 22.35	+13 54 28.8	14	372
1993 UW ₂	* 1993 10 24.73472	03 51 00.95	+12 14 49.6	17	372
1993 UW ₂	1993 10 25.73403	03 50 22.45	+12 07 33.0	17	372
1993 UW ₂	1993 11 09.62326	03 39 11.10	+10 18 31.8	15.5	372
1993 UW ₂	1993 11 09.63299	03 39 10.48	+10 18 27.7		372
1993 VH ₂	* 1993 11 13.61042	04 06 45.77	+15 35 42.1	17.5	372
1993 VH ₂	1993 11 13.62187	04 06 45.10	+15 35 38.6		372
1993 VH ₂	1993 11 18.69201	04 02 31.49	+15 09 43.4	18	372
1993 VH ₂	1993 11 18.70313	04 02 30.81	+15 09 40.3		372

1993 VP ₂	* 1993 11 15.77465	04 05 17.70	+16 06 25.6	17	372
1993 VP ₂	1993 11 15.78368	04 05 17.49	+16 06 19.5		372
1993 VP ₂	1993 11 18.60417	04 02 38.56	+15 30 35.4	16.5	372
1993 VP ₂	1993 11 18.69757	04 02 33.15	+15 29 24.7		372
1993 VP ₂	1993 11 18.71545	04 02 32.08	+15 29 10.6		372
1993 VT ₃	* 1993 11 13.58160	04 05 18.58	+19 19 44.5	17	372
1993 VT ₃	1993 11 13.59732	04 05 17.82	+19 19 41.7		372
1993 VT ₃	1993 11 18.66701	04 00 48.05	+19 04 34.3	17	372
1993 VT ₃	1993 11 18.67882	04 00 47.19	+19 04 32.2		372
1993 VU ₃	* 1993 11 13.69479	04 27 00.09	+22 21 13.3	18	372
1993 VU ₃	1993 11 13.70451	04 26 59.36	+22 21 17.0		372
1993 VU ₃	1993 11 18.57396	04 21 47.86	+22 44 17.5	18	372
1993 VU ₃	1993 11 18.58611	04 21 46.93	+22 44 22.2		372
2222 T-2	1993 11 13.61042	04 06 38.29	+15 20 59.4	18	372
2222 T-2	1993 11 13.62187	04 06 37.76	+15 20 57.9		372
(1754)	1993 05 18.76910	23 22 41.74	-02 15 55.6	16	372
(1754)	1993 05 18.78021	23 22 42.25	-02 15 50.3		372
(2180)	1993 11 18.66701	04 04 35.03	+19 05 33.0	16.5	372
(2180)	1993 11 18.67882	04 04 34.46	+19 05 28.7		372

374 Minami-Oda

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

Observer M. Sugano

Measurer T. Nomura

0.25-m $f/3.4$ Schmidt camera

GSC

(5737)	1993 10 09.51632	01 41 40.55	+20 49 20.1	16	V	374
(5737)	1993 10 09.58542	01 41 36.77	+20 49 17.6			374
(5737)	1993 10 11.64031	01 39 46.00	+20 47 00.5	16	V	374
(5737)	1993 10 11.65451	01 39 45.23	+20 47 00.6			374

376 Uenohara

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

0.30-m reflector + CCD

GSC

1988 YB	1993 10 22.71418	02 19 02.22	+12 10 01.6			376
1988 YB	1993 10 22.72535	02 19 01.80	+12 09 58.7			376
1989 TT ₁	1993 11 15.60440	05 15 35.12	+19 21 31.1			376
1989 TT ₁	1993 11 15.61898	05 15 34.46	+19 21 27.0			376
1993 TB	1993 10 22.60428	00 03 58.62	-04 08 16.1			376
1993 TB	1993 10 22.62575	00 03 57.97	-04 08 19.1			376
1993 TB	1993 10 23.45573	00 03 36.04	-04 09 49.4			376
1993 TB	1993 10 23.49057	00 03 35.26	-04 09 50.8			376
1993 TG	1993 10 22.66331	01 50 26.03	+08 51 02.8			376
1993 TG	1993 10 22.67477	01 50 25.44	+08 50 59.2			376
1993 TG	1993 10 23.55463	01 49 47.41	+08 45 44.2			376
1993 TG	1993 10 23.56493	01 49 46.90	+08 45 42.8			376
1993 TW ₁	1993 10 23.65451	02 19 17.60	+08 50 04.3	17.5		376
1993 TW ₁	1993 10 23.66829	02 19 16.73	+08 50 04.5			376

385 Nihondaira Observatory Oohira station

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

0.31-m $f/4.7$ reflector + CCD

GSC

1972 RF ₂	1993 11 05.52726	02 12 05.92	+08 58 27.9	16.3 V	385	1991 DO	1993 10 19.55729	00 27 46.03	+11 51 55.0		385
1972 RF ₂	1993 11 05.53148	02 12 05.67	+08 58 26.1		385	1991 DO	1993 11 03.44757	00 17 58.79	+10 54 31.0	17.4 V	385
1972 RF ₂	1993 11 05.53611	02 12 05.43	+08 58 24.1		385	1991 DO	1993 11 03.45122	00 17 58.67	+10 54 30.2		385
1980 RG ₁	1993 11 03.46684	02 35 06.54	+18 46 49.5	16.4 V	385	1991 DO	1993 11 03.45486	00 17 58.58	+10 54 29.7		385
1980 RG ₁	1993 11 03.47050	02 35 06.42	+18 46 47.0		385	1991 EG	1993 11 15.62500	04 01 04.23	+22 22 07.1	17.1 V	385
1980 RG ₁	1993 11 03.47500	02 35 06.25	+18 46 44.3		385	1991 EG	1993 11 15.62860	04 01 04.02	+22 22 07.3		385
1980 RG ₁	1993 11 15.59341	02 28 59.25	+16 47 46.1	17.5 V	385	1991 EG	1993 11 15.63178	04 01 03.80	+22 22 07.7		385
1980 RG ₁	1993 11 15.59654	02 28 59.19	+16 47 43.9		385	1991 EG	1993 11 18.69687	03 57 31.31	+22 24 15.5	16.4 V	385
1980 RG ₁	1993 11 15.60000	02 28 59.08	+16 47 42.2		385	1991 EG	1993 11 18.70081	03 57 31.08	+22 24 15.5		385
1985 GS	1993 11 05.49688	02 09 16.34	-10 23 44.6	16.3 V	385	1991 EG	1993 11 18.70534	03 57 30.83	+22 24 15.5		385
1985 GS	1993 11 05.50069	02 09 16.15	-10 23 45.0		385	1993 RR	1993 10 22.65000	01 36 33.21	+18 26 27.5	17.2 V	385
1985 GS	1993 11 05.50729	02 09 15.85	-10 23 45.9		385	1993 RR	1993 10 22.65694	01 36 32.81	+18 26 29.9		385
1985 GS	1993 11 15.56876	02 02 11.66	-10 34 40.7	16.7 V	385	1993 RR	1993 10 22.66007	01 36 32.63	+18 26 30.6		385
1985 GS	1993 11 15.57194	02 02 11.52	-10 34 40.9		385	1993 UN	1993 10 24.59722	01 02 59.62	+05 31 13.9	17.3 V	385
1985 GS	1993 11 15.57500	02 02 11.41	-10 34 40.9		385	1993 UN	1993 10 24.60417	01 02 59.23	+05 31 11.7		385
1987 BB	1993 11 15.63925	04 27 01.11	+21 02 30.8	17.8 V	385	1993 UN	1993 10 24.60799	01 02 59.03	+05 31 10.5		385
1987 BB	1993 11 15.64249	04 27 00.91	+21 02 31.1		385	1993 UN	1993 11 14.45880	00 51 03.14	+04 23 53.4	17.5 V	385
1987 BB	1993 11 15.64590	04 27 00.72	+21 02 30.1		385	1993 UN	1993 11 14.46563	00 51 02.89	+04 23 53.0		385
1987 SE ₁₃	1993 11 05.51262	02 11 24.26	+08 58 53.3	15.4 V	385	1993 UN	1993 11 15.51111	00 50 48.44	+04 22 49.7	17.6 V	385
1987 SE ₁₃	1993 11 05.51678	02 11 24.05	+08 58 52.5		385	1993 UN	1993 11 15.51840	00 50 48.36	+04 22 49.7		385
1987 SE ₁₃	1993 11 05.52199	02 11 23.80	+08 58 51.6		385	1993 UN	1993 11 15.52222	00 50 48.27	+04 22 50.4		385
1988 RE	1993 10 22.66563	03 27 52.47	-04 56 07.0	17.3 V	385	1993 US	* 1993 10 22.63032	01 17 09.10	+06 09 29.9	18.5 V	385
1988 RE	1993 10 22.66875	03 27 52.25	-04 56 14.0		385	1993 US	1993 10 22.63970	01 17 08.62	+06 09 27.1		385
1988 RE	1993 10 22.67170	03 27 52.03	-04 56 20.9		385	1993 US	1993 10 22.64421	01 17 08.35	+06 09 24.7		385
1988 WF	1993 10 19.50312	00 08 18.03	-02 13 59.8		385	1993 US	1993 10 23.59792	01 16 22.81	+06 04 20.7		385
1988 WF	1993 10 19.50642	00 08 17.91	-02 14 00.4		385	1993 US	1993 10 23.60799	01 16 22.41	+06 04 17.8		385
1988 WF	1993 10 19.51458	00 08 17.58	-02 14 01.3		385	1993 US	1993 10 23.61406	01 16 22.01	+06 04 16.7		385
1988 WF	1993 11 03.42442	00 02 10.66	-02 40 07.3	17.4 V	385	1993 US	1993 10 24.61701	01 15 34.60	+05 59 00.7	18.2 V	385
1988 WF	1993 11 03.42830	00 02 10.58	-02 40 07.8		385	1993 US	1993 10 24.62708	01 15 34.14	+05 58 57.3		385
1988 WF	1993 11 03.46059	00 02 10.04	-02 40 08.8		385	1993 US	1993 10 24.63785	01 15 33.58	+05 58 54.1		385
1988 WF	1993 11 04.45799	00 01 56.41	-02 40 35.3	17.3 V	385	1993 US	1993 11 04.50383	01 07 56.28	+05 08 50.5	17.4 V	385
1988 WF	1993 11 04.46581	00 01 56.23	-02 40 35.0		385	1993 US	1993 11 04.51321	01 07 55.95	+05 08 48.4		385
1988 WF	1993 11 04.49654	00 01 55.84	-02 40 35.8		385	1993 US	1993 11 04.52883	01 07 55.33	+05 08 44.5		385
1989 VV	1993 11 15.67987	05 20 20.07	+22 17 05.0	18.0 V	385	1993 US	1993 11 05.43576	01 07 23.02	+05 05 16.1	17.3 V	385
1989 VV	1993 11 15.68300	05 20 19.93	+22 17 05.5		385	1993 US	1993 11 05.44965	01 07 22.61	+05 05 12.4		385
1989 VV	1993 11 15.68612	05 20 19.76	+22 17 05.2		385	1993 US	1993 11 05.45625	01 07 22.36	+05 05 11.6		385
1989 VV	1993 11 18.76389	05 17 49.00	+22 16 56.6	17.2 V	385	1993 UT	* 1993 10 22.66563	03 28 18.10	-04 55 20.8	17.8 V	385
1989 VV	1993 11 18.76788	05 17 48.75	+22 16 56.6		385	1993 UT	1993 10 22.66875	03 28 17.85	-04 55 19.7		385
1989 VV	1993 11 18.77176	05 17 48.53	+22 16 56.6		385	1993 UT	1993 10 22.67170	03 28 17.60	-04 55 18.3		385
1991 BD	1993 10 19.52813	00 16 18.92	+13 11 24.9	16.8 V	385	1993 UT	1993 10 23.62465	03 27 02.49	-04 50 13.2		385
1991 BD	1993 10 19.53264	00 16 18.75	+13 11 23.1		385	1993 UT	1993 10 23.63461	03 27 01.73	-04 50 10.4		385
1991 BD	1993 10 19.53889	00 16 18.45	+13 11 20.2		385	1993 UT	1993 10 23.63970	03 27 01.25	-04 50 09.0		385
1991 BD	1993 11 03.43472	00 08 18.48	+11 32 22.7	16.5 V	385	1993 UT	1993 10 24.64792	03 25 40.56	-04 44 34.0	17.8 V	385
1991 BD	1993 11 03.43889	00 08 18.34	+11 32 21.1		385	1993 UT	1993 10 24.66019	03 25 39.54	-04 44 30.4		385
1991 BD	1993 11 03.44259	00 08 18.30	+11 32 19.8		385	1993 UT	1993 10 24.66493	03 25 39.13	-04 44 28.6		385
1991 CY	1993 11 03.40625	23 36 06.80	+11 37 19.7	17.1 V	385	1993 UT	1993 10 27.67257	03 21 32.97	-04 26 40.1	17.6 V	385
1991 CY	1993 11 03.41111	23 36 06.67	+11 37 18.3		385	1993 UT	1993 10 27.67639	03 21 32.71	-04 26 37.7		385
1991 CY	1993 11 03.41505	23 36 06.59	+11 37 17.0		385	1993 UT	1993 10 27.70139	03 21 30.57	-04 26 29.7		385
1991 CY	1993 11 04.47258	23 35 49.60	+11 31 47.7	17.8 V	385	1993 UT	1993 11 03.48196	03 11 55.87	-03 39 46.4	17.3 V	385
1991 CY	1993 11 04.48333	23 35 49.41	+11 31 44.6		385	1993 UT	1993 11 03.48569	03 11 55.58	-03 39 44.6		385
1991 CY	1993 11 04.49075	23 35 49.25	+11 31 41.7		385	1993 UT	1993 11 03.48959	03 11 55.18	-03 39 43.1		385
1991 DO	1993 10 19.55278	00 27 46.21	+11 51 56.4	18.0 V	385	1993 UT	1993 11 15.60609	02 54 53.19	-01 54 59.4	17.3 V	385

1993 UT	1993 11 15.60950	02 54 52.91	-01 54 57.5		385	1993 VV	* 1993 11 09.54201	02 54 29.70	+26 23 41.1	16	391
1993 UT	1993 11 15.61332	02 54 52.59	-01 54 55.2		385	1993 VV	1993 11 09.55937	02 54 28.64	+26 23 37.5		391
1993 VO	1993 11 14.49167	00 58 05.92	+05 01 31.1	16.7 V	385	1993 VV	1993 11 15.54271	02 47 59.87	+26 07 48.4		391
1993 VO	1993 11 14.49549	00 58 05.91	+05 01 29.7		385	1993 VV	1993 11 15.56007	02 47 58.92	+26 07 44.4		391
1993 VO	1993 11 14.50000	00 58 05.90	+05 01 28.5		385	1993 VV	1993 11 22.58933	02 41 06.37	+25 42 56.0	16.5	391
1993 VO	1993 11 15.52750	00 58 04.06	+04 56 05.0	16.8 V	385	1993 VV	1993 11 22.60729	02 41 05.45	+25 42 52.2		391
1993 VO	1993 11 15.53090	00 58 04.10	+04 56 03.9		385	1993 VX ₄	* 1993 11 15.65174	04 17 15.77	+12 28 28.4	16.5	391
1993 VO	1993 11 15.53414	00 58 04.05	+04 56 03.5		385	1993 VX ₄	1993 11 15.66910	04 17 14.64	+12 28 27.7		391
1993 VO	1993 11 21.59167	00 58 35.37	+04 30 20.7	16.8 V	385	1993 VX ₄	1993 11 18.66354	04 14 20.14	+12 24 47.2	16.5	391
1993 VO	1993 11 21.59560	00 58 35.41	+04 30 19.5		385	1993 VX ₄	1993 11 22.62604	04 10 20.10	+12 21 34.0		391
1993 VJ ₂	1993 11 18.73201	04 46 22.49	+18 23 14.4	16.2 V	385	1993 VX ₄	1993 11 22.64340	04 10 18.79	+12 21 31.7		391
1993 VJ ₂	1993 11 18.73588	04 46 22.20	+18 23 15.5		385						
1993 VJ ₂	1993 11 18.73977	04 46 21.98	+18 23 17.7		385						
1993 VJ ₂	1993 11 21.64262	04 43 13.34	+18 40 59.2	16.0 V	385						
1993 VJ ₂	1993 11 21.64740	04 43 13.01	+18 41 00.9		385						
1993 VK ₂	1993 11 18.74690	04 46 25.07	+15 24 25.5	16.5 V	385						
1993 VK ₂	1993 11 18.75076	04 46 24.78	+15 24 26.6		385						
1993 VK ₂	1993 11 18.75486	04 46 24.55	+15 24 27.7		385						
1993 VK ₂	1993 11 21.65527	04 43 20.48	+15 34 50.6	15.7 V	385						
1993 VK ₂	1993 11 21.65903	04 43 20.26	+15 34 50.9		385						
1993 VK ₂	1993 11 21.66414	04 43 19.92	+15 34 52.1		385						
1993 VK ₂	1993 11 23.71719	04 41 05.79	+15 42 25.3	16.0 V	385						
1993 VK ₂	1993 11 23.72049	04 41 05.55	+15 42 26.0		385						
1993 VK ₂	1993 11 23.72650	04 41 05.12	+15 42 27.3		385						
1993 VM ₂	* 1993 11 15.62500	04 01 28.36	+22 28 14.1	17.7 V	385						
1993 VM ₂	1993 11 15.62860	04 01 28.12	+22 28 13.6		385						
1993 VM ₂	1993 11 15.63178	04 01 27.93	+22 28 13.8		385						
1993 VM ₂	1993 11 18.69687	03 58 23.25	+22 21 51.1	17.4 V	385						
1993 VM ₂	1993 11 18.70081	03 58 22.94	+22 21 51.1		385						
1993 VM ₂	1993 11 18.70534	03 58 22.66	+22 21 50.0		385						
1993 VM ₂	1993 11 21.62083	03 55 22.49	+22 15 10.8	17.2 V	385						
1993 VM ₂	1993 11 21.70694	03 55 16.83	+22 14 57.0		385						
1993 WD	1993 11 23.70249	01 39 49.00	+24 49 08.2	14.1 V	385						
1993 WD	1993 11 23.70434	01 39 46.49	+24 49 24.8		385						
1993 WD	1993 11 23.70573	01 39 44.51	+24 49 38.3		385						
1993 WE	* 1993 11 18.69687	03 58 33.45	+22 27 59.9	16.7 V	385						
1993 WE	1993 11 18.70081	03 58 33.19	+22 27 58.8		385						
1993 WE	1993 11 18.70534	03 58 32.92	+22 27 57.7		385						
1993 WE	1993 11 21.62083	03 55 44.26	+22 18 57.7	16.7 V	385						
1993 WE	1993 11 21.70694	03 55 39.13	+22 18 41.1		385						
1993 WE	1993 11 21.71493	03 55 38.63	+22 18 39.9		385						
1993 WE	1993 11 23.68646	03 53 43.83	+22 12 19.4	16.5 V	385						
1993 WE	1993 11 23.69000	03 53 43.62	+22 12 19.0		385						
1993 WE	1993 11 23.69317	03 53 43.47	+22 12 18.5		385						
(5747)	1993 10 22.60692	23 56 30.19	+47 34 48.0	15.4 V	385						
(5747)	1993 10 22.61389	23 56 29.79	+47 34 43.5		385						
(5747)	1993 10 22.61701	23 56 29.63	+47 34 41.5		385						

391 Sendai Observatory, Ayashi Station

M. Koishikawa, Sendai Municipal Observatory, 1-1 Sakuragaoka-koen, Sendai 980,
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0.30-m $f/3.8$ astrocamera
SAOC

399 Kushiro

H. Kaneda, Taiyo MS 2-H, 2 chome 2-15, Kawazoe 8 jo, Minami-ku, Sapporo 005,
Japan

Observer S. Ueda

Measurer H. Kaneda

0.25-m $f/3.4$ hyperboloid astrocamera
GSC

1987 SS ₉	1993 11 07.57292	03 44 06.54	+15 58 42.9	16.7	399
1987 SS ₉	1993 11 07.58785	03 44 05.73	+15 58 40.5		399
1988 XW ₁	1993 11 16.51736	03 22 46.50	+13 26 55.0	15.5	399
1988 XW ₁	1993 11 16.53194	03 22 45.72	+13 26 55.2		399
1989 UL ₁	1993 10 20.64028	02 06 16.92	+08 01 08.9	16.5	399
1989 UL ₁	1993 10 20.65486	02 06 16.08	+08 01 08.6		399
1990 EJ ₂	1993 10 20.60509	01 58 01.91	+17 16 52.9	16.5	399
1990 EJ ₂	1993 10 20.61968	01 58 01.17	+17 16 47.3		399
1990 YC	1993 10 20.64028	02 04 36.62	+07 42 54.4	16.7	399
1990 YC	1993 10 20.65486	02 04 35.67	+07 42 50.7		399
1991 GQ ₁₀	1993 11 07.57292	03 45 45.32	+12 18 08.3	16.5	399
1991 GQ ₁₀	1993 11 07.58785	03 45 44.54	+12 18 06.1		399
1991 GQ ₁₀	1993 11 09.54549	03 44 01.37	+12 12 01.5	16.3	399
1991 GQ ₁₀	1993 11 09.55980	03 44 00.63	+12 11 58.9		399
1991 UC	1991 10 28.42951	01 39 42.61	+12 04 57.7	17.3	399
1991 UC	1991 10 28.44462	01 39 41.78	+12 04 54.5		399
1991 UC	1991 10 29.44792	01 38 53.13	+12 00 13.2	17.3	399
1991 UC	1991 10 29.46424	01 38 52.46	+12 00 11.8		399
1992 FA ₁	1993 10 20.60509	01 57 48.95	+16 11 01.0	16.7	399
1992 FA ₁	1993 10 20.61968	01 57 48.03	+16 10 54.5		399
1993 TS	1993 10 20.56597	01 23 55.86	+14 32 40.2	17	399
1993 TS	1993 10 20.58056	01 23 54.78	+14 32 41.1		399
1993 TT	1993 10 20.56597	01 30 22.33	+14 13 30.5	16.5	399
1993 TT	1993 10 20.58056	01 30 21.56	+14 13 26.0		399
1993 TU	1993 10 20.56597	01 28 08.57	+16 09 48.3	16.7	399
1993 TU	1993 10 20.58056	01 28 07.63	+16 09 44.6		399
1993 TJ ₁	1993 10 20.60509	02 03 55.88	+14 11 50.1	16.2	399
1993 TJ ₁	1993 10 20.61968	02 03 54.90	+14 11 48.0		399
1993 TK ₁	1993 10 20.67500	02 10 28.51	+13 25 45.7	15.8	399
1993 TK ₁	1993 10 20.68958	02 10 27.51	+13 25 45.0		399
1993 TK ₁	1993 11 07.42465	01 52 45.47	+12 50 20.8	16	399
1993 TK ₁	1993 11 07.43999	01 52 44.81	+12 50 20.6		399
1993 TO ₁	1993 11 07.42465	01 50 52.30	+12 12 35.5	16	399
1993 TO ₁	1993 11 07.43999	01 50 51.01	+12 12 46.8		399

1993 TT ₁	1993 10 20.64028	02 03 35.87	+08 44 44.4	16.8	399	1993 UO ₃	* 1993 10 20.71534	02 16 55.82	+21 58 22.7	17	399
1993 TT ₁	1993 10 20.65486	02 03 35.26	+08 44 35.3		399	1993 UO ₃	1993 10 20.73021	02 16 54.80	+21 58 23.0		399
1993 TV ₁	1993 10 20.64028	02 07 51.30	+08 15 28.9	15.8	399	1993 UO ₃	1993 11 07.45903	01 59 12.78	+21 40 41.3	17	399
1993 TV ₁	1993 10 20.65486	02 07 50.23	+08 15 31.1		399	1993 UO ₃	1993 11 07.47361	01 59 11.77	+21 40 39.5		399
1993 TL ₂	1993 10 20.60509	01 52 40.07	+15 14 29.5	16.8	399	1993 UO ₃	1993 11 09.48854	01 57 18.70	+21 36 36.0	17	399
1993 TL ₂	1993 10 20.61968	01 52 39.10	+15 14 26.2		399	1993 UO ₃	1993 11 09.52674	01 57 16.43	+21 36 33.2		399
1993 TN ₂	1993 10 20.64028	02 05 37.99	+09 19 39.9	16.7	399	1993 UP ₃	* 1993 10 20.71534	02 24 39.09	+21 50 50.9	16.7	399
1993 TN ₂	1993 10 20.65486	02 05 37.00	+09 19 38.6		399	1993 UP ₃	1993 10 20.73021	02 24 38.12	+21 50 51.1		399
1993 TJ ₃	1993 11 07.42465	01 50 16.87	+12 11 07.3	15.8	399	1993 UP ₃	1993 11 07.45903	02 05 04.78	+21 40 47.7	15.5	399
1993 TJ ₃	1993 11 07.43999	01 50 15.94	+12 11 04.5		399	1993 UP ₃	1993 11 07.47361	02 05 03.95	+21 40 47.5		399
1993 UK	1993 11 09.45440	02 02 23.35	+08 39 54.5	17	399	1993 UP ₃	1993 11 09.48854	02 03 02.73	+21 36 54.3	16.5	399
1993 UK	1993 11 09.46887	02 02 22.59	+08 39 50.6		399	1993 UP ₃	1993 11 09.52674	02 03 00.25	+21 36 49.7		399
1993 UO	* 1993 10 20.56597	01 23 52.01	+14 01 51.8	16.6	399	1993 VF	* 1993 11 07.42465	01 54 33.06	+12 09 59.6	17	399
1993 UO	1993 10 20.58056	01 23 51.16	+14 01 40.3		399	1993 VF	1993 11 07.43999	01 54 32.30	+12 09 57.1		399
1993 UP	* 1993 10 20.60509	02 01 12.76	+13 48 05.1	17	399	1993 VF	1993 11 09.45440	01 53 03.77	+12 02 11.2	17.1	399
1993 UP	1993 10 20.61968	02 01 11.96	+13 48 03.1		399	1993 VF	1993 11 09.46887	01 53 03.06	+12 02 07.7		399
1993 UQ	* 1993 10 20.64028	01 58 34.55	+09 54 14.3	16.7	399	1993 VG	* 1993 11 07.49583	03 54 19.65	+21 11 20.2	17	399
1993 UQ	1993 10 20.65486	01 58 33.65	+09 54 07.3		399	1993 VG	1993 11 07.51042	03 54 18.70	+21 11 19.8		399
1993 UR	* 1993 10 20.64028	01 59 23.23	+10 00 31.2	17	399	1993 VG	1993 11 09.57917	03 52 31.80	+21 08 01.0	17	399
1993 UR	1993 10 20.65486	01 59 22.38	+10 00 24.5		399	1993 VG	1993 11 09.59375	03 52 31.09	+21 07 59.7		399
1993 UX	1993 11 11.56181	03 30 11.14	+20 37 12.2	16.5	399	1993 VH	* 1993 11 07.49583	03 56 04.43	+20 40 51.3	16.8	399
1993 UX	1993 11 11.57639	03 30 10.22	+20 37 08.8		399	1993 VH	1993 11 07.51042	03 56 03.57	+20 40 52.8		399
1993 UY	1993 11 11.59792	03 35 20.47	+17 36 45.8	17	399	1993 VH	1993 11 09.57917	03 53 51.49	+20 50 19.1	16.7	399
1993 UY	1993 11 11.61250	03 35 19.61	+17 36 39.3		399	1993 VH	1993 11 09.59375	03 53 50.50	+20 50 22.7		399
1993 UC ₃	1993 11 11.46528	03 06 59.09	+19 55 09.6	16	399	1993 VJ	* 1993 11 07.49583	03 59 38.81	+20 37 46.3	16.7	399
1993 UC ₃	1993 11 11.47986	03 06 58.28	+19 55 06.5		399	1993 VJ	1993 11 07.51042	03 59 38.27	+20 37 36.0		399
1993 UE ₃	1993 11 11.49722	03 03 45.25	+17 25 21.4	15	399	1993 VJ	1993 11 09.57917	03 58 20.89	+20 08 26.3	16.7	399
1993 UE ₃	1993 11 11.51181	03 03 44.21	+17 25 22.7		399	1993 VJ	1993 11 09.59375	03 58 20.20	+20 08 12.7		399
1993 UK ₃	* 1993 10 20.71534	02 23 46.76	+22 29 17.9	15.7	399	1993 VK	* 1993 11 07.53009	04 09 31.60	+33 53 39.3	16.5	399
1993 UK ₃	1993 10 20.73021	02 23 46.24	+22 29 08.0		399	1993 VK	1993 11 07.54444	04 09 30.88	+33 53 39.4		399
1993 UK ₃	1993 11 07.45903	02 09 37.45	+19 07 34.3	15.5	399	1993 VK	1993 11 09.62882	04 07 42.66	+33 53 24.1	16.5	399
1993 UK ₃	1993 11 07.47361	02 09 36.77	+19 07 23.1		399	1993 VK	1993 11 09.64549	04 07 41.74	+33 53 24.4		399
1993 UK ₃	1993 11 09.48854	02 08 07.36	+18 42 54.4	15.8	399	1993 VL	* 1993 11 07.57292	03 39 40.25	+15 02 00.2	16.5	399
1993 UK ₃	1993 11 09.52674	02 08 05.50	+18 42 26.4		399	1993 VL	1993 11 07.58785	03 39 39.43	+15 01 57.9		399
1993 UL ₃	* 1993 10 20.71534	02 25 39.16	+22 47 41.4	16.6	399	1993 VL	1993 11 09.54549	03 38 01.35	+15 01 46.4	16.5	399
1993 UL ₃	1993 10 20.73021	02 25 38.16	+22 47 42.3		399	1993 VL	1993 11 09.55980	03 38 00.58	+15 01 46.2		399
1993 UL ₃	1993 11 07.45903	02 07 49.06	+22 41 50.6	16	399	1993 VM	* 1993 11 07.57292	03 45 07.22	+15 01 34.5	16.8	399
1993 UL ₃	1993 11 07.47361	02 07 48.20	+22 41 49.6		399	1993 VM	1993 11 07.58785	03 45 06.28	+15 01 31.1		399
1993 UL ₃	1993 11 09.48854	02 05 51.63	+22 38 19.3	16.3	399	1993 VM	1993 11 09.54549	03 43 04.74	+14 51 52.7	17	399
1993 UL ₃	1993 11 09.52674	02 05 49.30	+22 38 16.7		399	1993 VM	1993 11 09.55980	03 43 03.85	+14 51 47.6		399
1993 UM ₃	* 1993 10 20.64028	02 08 32.24	+10 04 34.1	16.6	399	1993 VM	1993 11 11.59792	03 40 54.95	+14 41 47.4	17	399
1993 UM ₃	1993 10 20.65486	02 08 31.51	+10 04 26.9		399	1993 VM	1993 11 11.61250	03 40 53.93	+14 41 43.3		399
1993 UM ₃	1993 11 07.42465	01 55 28.55	+08 10 17.7	16.7	399	1993 VN	* 1993 11 07.57292	03 48 00.64	+16 40 07.1	17	399
1993 UM ₃	1993 11 07.43999	01 55 27.89	+08 10 13.1		399	1993 VN	1993 11 07.58785	03 47 59.71	+16 40 02.0		399
1993 UM ₃	1993 11 09.45440	01 54 06.68	+07 58 29.2	17	399	1993 VN	1993 11 09.54549	03 45 57.85	+16 31 47.1	17	399
1993 UM ₃	1993 11 09.46887	01 54 05.96	+07 58 23.7		399	1993 VN	1993 11 09.55980	03 45 56.98	+16 31 42.3		399
1993 UN ₃	* 1993 10 20.67500	02 15 31.35	+14 28 49.0	16	399	1993 VN	1993 11 11.59792	03 43 47.52	+16 23 03.6	16.8	399
1993 UN ₃	1993 10 20.68958	02 15 30.72	+14 28 42.1		399	1993 VN	1993 11 11.61250	03 43 46.67	+16 23 00.2		399
1993 UN ₃	1993 11 07.42465	02 02 16.91	+12 10 03.2	15.7	399	1993 VQ	1993 11 11.56181	03 29 31.24	+20 49 46.5	16.7	399
1993 UN ₃	1993 11 07.43999	02 02 16.11	+12 09 56.0		399	1993 VQ	1993 11 11.57639	03 29 30.39	+20 49 44.7		399
1993 UN ₃	1993 11 09.45440	02 00 52.18	+11 54 36.3	16	399	1993 VA ₁	1993 11 11.46528	03 17 12.90	+22 54 24.3	16.5	399
1993 UN ₃	1993 11 09.46887	02 00 51.54	+11 54 29.1		399	1993 VA ₁	1993 11 11.47986	03 17 11.81	+22 54 15.6		399

1993 VA ₁	1993 11 16.55069	03 12 04.12	+22 09 49.0	16.5	399	1993 VC ₂	* 1993 11 11.49722	03 04 16.14	+17 20 40.9	16.8	399
1993 VA ₁	1993 11 16.56528	03 12 03.25	+22 09 42.2		399	1993 VC ₂	1993 11 11.51181	03 04 15.03	+17 20 41.6		399
1993 VC ₁	1993 11 16.55069	03 20 47.85	+19 59 08.9	15.5	399	1993 VC ₂	1993 11 16.48403	02 58 27.39	+17 25 33.3	16.8	399
1993 VC ₁	1993 11 16.56528	03 20 47.03	+19 58 47.3		399	1993 VC ₂	1993 11 16.49861	02 58 26.47	+17 25 34.6		399
1993 VK ₁	1993 11 11.56181	03 18 02.43	+20 11 44.3	17	399	1993 VD ₂	* 1993 11 11.49722	03 10 14.38	+14 29 47.7	16.7	399
1993 VK ₁	1993 11 11.57639	03 18 01.37	+20 11 49.0		399	1993 VD ₂	1993 11 11.51181	03 10 13.57	+14 29 45.0		399
1993 VK ₁	1993 11 16.45139	03 11 44.72	+20 46 39.1	16.7	399	1993 VD ₂	1993 11 16.48403	03 05 39.79	+14 06 26.4	16.7	399
1993 VK ₁	1993 11 16.46597	03 11 43.39	+20 46 44.0		399	1993 VD ₂	1993 11 16.49861	03 05 39.03	+14 06 21.4		399
1993 VR ₁	* 1993 11 11.46528	03 02 20.83	+19 52 32.8	16.8	399	1993 VE ₂	* 1993 11 11.49722	03 11 27.51	+16 16 35.6	16.7	399
1993 VR ₁	1993 11 11.47986	03 02 19.89	+19 52 31.6		399	1993 VE ₂	1993 11 11.51181	03 11 26.68	+16 16 25.1		399
1993 VR ₁	1993 11 16.45139	02 56 53.86	+19 44 46.0	16.8	399	1993 VE ₂	1993 11 16.48403	03 06 59.11	+15 22 43.4	16.5	399
1993 VR ₁	1993 11 16.46597	02 56 52.86	+19 44 46.8		399	1993 VE ₂	1993 11 16.49861	03 06 58.32	+15 22 35.2		399
1993 VS ₁	* 1993 11 11.46528	03 02 40.24	+21 19 17.3	16.7	399	1993 VF ₂	* 1993 11 11.49722	03 13 54.91	+14 18 57.7	16.5	399
1993 VS ₁	1993 11 11.47986	03 02 39.34	+21 19 13.0		399	1993 VF ₂	1993 11 11.51181	03 13 54.04	+14 18 56.2		399
1993 VS ₁	1993 11 16.45139	02 58 07.80	+20 52 18.0	16.5	399	1993 VF ₂	1993 11 16.48403	03 08 38.34	+14 16 30.5	16.5	399
1993 VS ₁	1993 11 16.46597	02 58 06.85	+20 52 11.8		399	1993 VF ₂	1993 11 16.49861	03 08 37.44	+14 16 29.8		399
1993 VT ₁	* 1993 11 11.46528	03 07 23.53	+20 25 23.9	16.8	399	1993 VG ₂	* 1993 11 11.49722	03 14 29.14	+16 46 32.1	17	399
1993 VT ₁	1993 11 11.47986	03 07 22.50	+20 25 25.6		399	1993 VG ₂	1993 11 11.51181	03 14 28.18	+16 46 31.7		399
1993 VT ₁	1993 11 16.45139	03 01 50.36	+20 29 30.6	16.8	399	1993 VG ₂	1993 11 16.48403	03 09 59.60	+16 35 50.9	17	399
1993 VT ₁	1993 11 16.46597	03 01 49.49	+20 29 30.5		399	1993 VG ₂	1993 11 16.49861	03 09 58.74	+16 35 49.5		399
1993 VU ₁	* 1993 11 11.46528	03 07 47.14	+21 36 57.3	16.3	399	1993 VU ₂	* 1993 11 11.46528	03 09 06.22	+22 49 20.1	16.8	399
1993 VU ₁	1993 11 11.47986	03 07 46.29	+21 36 49.5		399	1993 VU ₂	1993 11 11.47986	03 09 05.29	+22 49 14.3		399
1993 VU ₁	1993 11 16.45139	03 03 35.52	+20 58 18.1	16.8	399	1993 VV ₂	* 1993 11 11.52917	03 18 27.32	+14 39 55.6	17	399
1993 VU ₁	1993 11 16.46597	03 03 34.83	+20 58 10.3		399	1993 VV ₂	1993 11 11.54375	03 18 26.29	+14 39 53.3		399
1993 VV ₁	* 1993 11 11.46528	03 08 03.26	+20 59 16.1	16.7	399	1993 VV ₂	1993 11 16.51736	03 14 21.10	+14 19 18.4	16.8	399
1993 VV ₁	1993 11 11.47986	03 08 02.34	+20 59 13.8		399	1993 VV ₂	1993 11 16.53194	03 14 20.29	+14 19 14.0		399
1993 VV ₁	1993 11 16.45139	03 02 53.66	+20 42 25.3	16.5	399	1993 VW ₂	* 1993 11 11.52917	03 18 44.79	+15 25 56.7	17	399
1993 VV ₁	1993 11 16.46597	03 02 52.62	+20 42 21.7		399	1993 VW ₂	1993 11 11.54375	03 18 43.75	+15 25 57.4		399
1993 VW ₁	* 1993 11 11.46528	03 09 02.38	+21 51 49.5	16.8	399	1993 VW ₂	1993 11 16.51736	03 13 25.83	+15 32 26.6	16.7	399
1993 VW ₁	1993 11 11.47986	03 09 01.47	+21 51 40.0		399	1993 VW ₂	1993 11 16.53194	03 13 24.88	+15 32 28.0		399
1993 VW ₁	1993 11 16.45139	03 04 17.24	+21 06 22.8	17	399	1993 VX ₂	* 1993 11 11.52917	03 23 38.34	+17 35 24.2	16.5	399
1993 VW ₁	1993 11 16.46597	03 04 16.42	+21 06 15.4		399	1993 VX ₂	1993 11 11.54375	03 23 37.45	+17 35 24.9		399
1993 VX ₁	* 1993 11 11.46528	03 09 12.98	+21 41 12.0	16.8	399	1993 VX ₂	1993 11 16.51736	03 18 30.64	+17 42 55.5	17	399
1993 VX ₁	1993 11 11.47986	03 09 12.01	+21 41 08.0		399	1993 VX ₂	1993 11 16.53194	03 18 29.82	+17 42 55.8		399
1993 VX ₁	1993 11 16.45139	03 04 26.92	+21 24 50.2	16.7	399	1993 VY ₂	* 1993 11 11.52917	03 23 51.10	+16 11 01.5	16.5	399
1993 VX ₁	1993 11 16.46597	03 04 25.93	+21 24 45.9		399	1993 VY ₂	1993 11 11.54375	03 23 50.09	+16 10 59.9		399
1993 VY ₁	* 1993 11 11.46528	03 14 10.44	+21 15 16.5	16.8	399	1993 VY ₂	1993 11 16.51736	03 18 32.16	+16 09 41.0	16.5	399
1993 VY ₁	1993 11 11.47986	03 14 09.23	+21 15 14.8		399	1993 VY ₂	1993 11 16.53194	03 18 31.28	+16 09 40.6		399
1993 VY ₁	1993 11 16.45139	03 08 24.89	+21 03 14.4	16.7	399	1993 VZ ₂	* 1993 11 11.52917	03 26 24.44	+14 28 59.8	16.7	399
1993 VY ₁	1993 11 16.46597	03 08 23.80	+21 03 12.1		399	1993 VZ ₂	1993 11 11.54375	03 26 23.56	+14 28 57.3		399
1993 VZ ₁	* 1993 11 11.46528	03 14 31.10	+20 10 33.8	16.7	399	1993 VZ ₂	1993 11 16.51736	03 21 23.16	+14 03 19.9	16.5	399
1993 VZ ₁	1993 11 11.47986	03 14 30.18	+20 10 28.2		399	1993 VZ ₂	1993 11 16.53194	03 21 22.17	+14 03 16.4		399
1993 VZ ₁	1993 11 16.45139	03 09 33.80	+19 39 15.4	16.5	399	1993 VA ₃	* 1993 11 11.52917	03 26 36.23	+18 12 34.6	16.7	399
1993 VZ ₁	1993 11 16.46597	03 09 32.94	+19 39 11.3		399	1993 VA ₃	1993 11 11.54375	03 26 35.43	+18 12 35.4		399
1993 VA ₂	* 1993 11 11.46528	03 15 47.98	+21 01 26.3	16.7	399	1993 VA ₃	1993 11 16.51736	03 21 49.81	+18 12 31.2	16.7	399
1993 VA ₂	1993 11 11.47986	03 15 47.11	+21 01 27.4		399	1993 VA ₃	1993 11 16.53194	03 21 49.12	+18 12 30.1		399
1993 VA ₂	1993 11 16.45139	03 11 02.18	+20 59 57.3	17	399	1993 VB ₃	* 1993 11 11.52917	03 28 04.39	+15 20 31.0	16.7	399
1993 VA ₂	1993 11 16.46597	03 11 01.34	+20 59 57.2		399	1993 VB ₃	1993 11 11.54375	03 28 03.68	+15 20 21.4		399
1993 VB ₂	* 1993 11 11.49722	03 03 54.30	+18 33 08.8	16.7	399	1993 VB ₃	1993 11 16.51736	03 23 35.92	+14 25 35.8	17	399
1993 VB ₂	1993 11 11.51181	03 03 53.34	+18 33 03.2		399	1993 VB ₃	1993 11 16.53194	03 23 35.09	+14 25 25.7		399
1993 VB ₂	1993 11 16.48403	02 58 53.20	+18 05 16.3	16.5	399	1993 VC ₃	* 1993 11 11.52917	03 29 13.51	+15 33 47.3	16.7	399
1993 VB ₂	1993 11 16.49861	02 58 52.20	+18 05 11.1		399	1993 VC ₃	1993 11 11.54375	03 29 12.74	+15 33 41.1		399

1993 VC ₃	1993 11 16.51736	03 25 17.19	+14 58 40.2	16.5	399	1993 VQ ₃	1993 11 16.62089	03 50 01.20	+24 13 14.5	16	399
1993 VC ₃	1993 11 16.53194	03 25 16.47	+14 58 33.2		399	1993 VQ ₃	1993 11 16.63542	03 50 00.34	+24 13 05.4		399
1993 VD ₃	* 1993 11 11.56181	03 20 23.89	+22 49 33.1	17.2	399	1993 VR ₃	* 1993 11 11.63819	03 55 29.23	+26 41 51.9	16.3	399
1993 VD ₃	1993 11 11.57639	03 20 22.89	+22 49 27.8		399	1993 VR ₃	1993 11 11.65278	03 55 28.41	+26 41 49.5		399
1993 VD ₃	1993 11 16.55069	03 15 21.50	+22 17 48.5	17	399	1993 VR ₃	1993 11 16.62089	03 51 08.91	+26 29 35.6	16	399
1993 VD ₃	1993 11 16.56528	03 15 20.58	+22 17 41.9		399	1993 VR ₃	1993 11 16.63542	03 51 08.12	+26 29 33.9		399
1993 VE ₃	* 1993 11 11.56181	03 23 26.84	+21 28 33.8	16.5	399	1993 VS ₃	* 1993 11 11.63819	03 59 46.01	+25 13 27.2	17.3	399
1993 VE ₃	1993 11 11.57639	03 23 25.79	+21 28 30.3		399	1993 VS ₃	1993 11 11.65278	03 59 45.15	+25 13 24.1		399
1993 VE ₃	1993 11 16.55069	03 17 53.80	+21 13 40.3	16.5	399	1993 VS ₃	1993 11 16.62089	03 54 25.98	+25 01 21.2	17	399
1993 VE ₃	1993 11 16.56528	03 17 52.84	+21 13 37.8		399	1993 VS ₃	1993 11 16.63542	03 54 25.01	+25 01 15.6		399
1993 VF ₃	* 1993 11 11.56181	03 24 31.20	+22 08 00.7	16.8	399	1993 VW ₃	1993 11 11.46528	03 11 44.38	+22 19 01.1	16.7	399
1993 VF ₃	1993 11 11.57639	03 24 30.39	+22 07 58.2		399	1993 VW ₃	1993 11 11.47986	03 11 43.34	+22 18 59.2		399
1993 VF ₃	1993 11 16.55069	03 20 17.44	+21 30 20.9	17	399	1993 VC ₄	* 1993 11 11.46528	03 16 34.46	+22 24 29.4	16.8	399
1993 VF ₃	1993 11 16.56528	03 20 16.65	+21 30 13.6		399	1993 VC ₄	1993 11 11.47986	03 16 33.77	+22 24 30.6		399
1993 VG ₃	* 1993 11 11.56181	03 25 09.73	+20 38 00.5	16.8	399	1993 VC ₄	1993 11 16.55069	03 11 31.84	+22 18 12.8	17	399
1993 VG ₃	1993 11 11.57639	03 25 08.96	+20 37 58.4		399	1993 VC ₄	1993 11 16.56528	03 11 30.87	+22 18 13.0		399
1993 VG ₃	1993 11 16.55069	03 20 23.86	+20 17 26.1	16.7	399	1993 VD ₄	* 1993 11 11.49722	03 03 32.05	+16 46 00.1	17	399
1993 VG ₃	1993 11 16.56528	03 20 22.97	+20 17 23.4		399	1993 VD ₄	1993 11 11.51181	03 03 31.08	+16 46 00.8		399
1993 VH ₃	* 1993 11 11.56181	03 31 02.43	+20 05 55.9	17	399	1993 VD ₄	1993 11 16.48403	02 58 35.55	+16 49 56.6	17	399
1993 VH ₃	1993 11 11.57639	03 31 01.58	+20 05 57.4		399	1993 VD ₄	1993 11 16.49861	02 58 34.60	+16 49 58.2		399
1993 VH ₃	1993 11 16.55069	03 26 04.71	+20 17 03.6	17.2	399	1993 VE ₄	* 1993 11 11.49722	03 08 09.34	+14 59 03.1	16.7	399
1993 VH ₃	1993 11 16.56528	03 26 03.71	+20 17 05.8		399	1993 VE ₄	1993 11 11.51181	03 08 08.33	+14 59 02.8		399
1993 VJ ₃	* 1993 11 11.56181	03 31 46.74	+19 42 58.9	16.2	399	1993 VE ₄	1993 11 16.48403	03 02 27.50	+14 58 21.0	17	399
1993 VJ ₃	1993 11 11.57639	03 31 45.75	+19 42 57.3		399	1993 VE ₄	1993 11 16.49861	03 02 26.50	+14 58 21.0		399
1993 VJ ₃	1993 11 16.55069	03 26 55.02	+19 30 01.9	16	399	1993 VF ₄	* 1993 11 11.49722	03 11 02.64	+15 27 47.7	17.2	399
1993 VJ ₃	1993 11 16.56528	03 26 54.19	+19 29 59.0		399	1993 VF ₄	1993 11 11.51181	03 11 01.67	+15 27 44.8		399
1993 VK ₃	* 1993 11 11.59792	03 41 08.03	+16 10 28.1	16.8	399	1993 VF ₄	1993 11 16.48403	03 05 48.43	+15 06 57.2	17	399
1993 VK ₃	1993 11 11.61250	03 41 07.00	+16 10 24.7		399	1993 VF ₄	1993 11 16.49861	03 05 47.45	+15 06 52.7		399
1993 VK ₃	1993 11 16.58333	03 36 13.80	+15 47 45.8	17.2	399	1993 VG ₄	* 1993 11 11.56181	03 18 25.48	+21 48 32.3	17	399
1993 VK ₃	1993 11 16.59792	03 36 12.84	+15 47 44.9		399	1993 VG ₄	1993 11 11.57639	03 18 24.69	+21 48 27.5		399
1993 VL ₃	* 1993 11 11.59792	03 41 28.49	+16 23 17.2	17	399	1993 VG ₄	1993 11 16.55069	03 14 12.92	+21 19 53.7	17.2	399
1993 VL ₃	1993 11 11.61250	03 41 27.59	+16 23 15.0		399	1993 VG ₄	1993 11 16.56528	03 14 12.15	+21 19 48.1		399
1993 VL ₃	1993 11 16.58333	03 37 01.40	+16 12 09.8	17	399	1993 VH ₄	* 1993 11 11.56181	03 25 16.76	+22 04 22.8	17.2	399
1993 VL ₃	1993 11 16.59792	03 37 00.40	+16 12 09.3		399	1993 VH ₄	1993 11 11.57639	03 25 15.76	+22 04 20.4		399
1993 VM ₃	* 1993 11 11.59792	03 42 16.96	+16 57 15.9	16.7	399	1993 VH ₄	1993 11 16.55069	03 20 19.39	+21 54 07.5	17.2	399
1993 VM ₃	1993 11 11.61250	03 42 16.01	+16 57 14.3		399	1993 VH ₄	1993 11 16.56528	03 20 18.45	+21 54 03.5		399
1993 VM ₃	1993 11 16.58333	03 37 22.08	+16 33 07.5	16.5	399	1993 VJ ₄	* 1993 11 11.56181	03 26 38.60	+21 44 45.1	17	399
1993 VM ₃	1993 11 16.59792	03 37 21.28	+16 33 03.7		399	1993 VJ ₄	1993 11 11.57639	03 26 37.65	+21 44 41.8		399
1993 VN ₃	* 1993 11 11.59792	03 43 09.61	+18 01 41.6	17.2	399	1993 VJ ₄	1993 11 16.55069	03 20 48.59	+21 30 31.3	17	399
1993 VN ₃	1993 11 11.61250	03 43 08.65	+18 01 40.9		399	1993 VJ ₄	1993 11 16.56528	03 20 47.66	+21 30 28.2		399
1993 VN ₃	1993 11 16.58333	03 37 29.22	+17 59 36.0	17.2	399	1993 VK ₄	* 1993 11 11.56181	03 28 11.25	+22 52 46.4	17.2	399
1993 VN ₃	1993 11 16.59792	03 37 28.26	+17 59 36.8		399	1993 VK ₄	1993 11 11.57639	03 28 10.22	+22 52 43.0		399
1993 VO ₃	* 1993 11 11.59792	03 45 02.48	+17 29 58.6	16.5	399	1993 VK ₄	1993 11 16.55069	03 22 49.31	+22 36 59.8	16.8	399
1993 VO ₃	1993 11 11.61250	03 45 01.69	+17 29 58.3		399	1993 VK ₄	1993 11 16.56528	03 22 48.38	+22 36 56.8		399
1993 VO ₃	1993 11 16.58333	03 40 27.72	+17 30 09.7	16.7	399	1993 VL ₄	* 1993 11 11.56181	03 29 27.14	+21 59 00.6	17	399
1993 VO ₃	1993 11 16.59792	03 40 26.85	+17 30 09.2		399	1993 VL ₄	1993 11 11.57639	03 29 26.44	+21 59 02.3		399
1993 VP ₃	* 1993 11 11.63819	03 52 53.89	+27 20 55.4	16.5	399	1993 VL ₄	1993 11 16.55069	03 24 48.20	+21 52 36.2	17	399
1993 VP ₃	1993 11 11.65278	03 52 52.96	+27 20 53.7		399	1993 VL ₄	1993 11 16.56528	03 24 47.34	+21 52 34.9		399
1993 VP ₃	1993 11 16.62089	03 48 04.40	+27 08 21.0	16.5	399	1993 VM ₄	* 1993 11 11.56181	03 29 48.50	+21 44 30.7	17.2	399
1993 VP ₃	1993 11 16.63542	03 48 03.51	+27 08 18.3		399	1993 VM ₄	1993 11 11.57639	03 29 47.75	+21 44 28.0		399
1993 VQ ₃	* 1993 11 11.63819	03 54 32.83	+25 06 06.8	16	399	1993 VM ₄	1993 11 16.55069	03 25 08.96	+21 23 25.4	17.2	399
1993 VQ ₃	1993 11 11.65278	03 54 32.05	+25 05 58.2		399	1993 VM ₄	1993 11 16.56528	03 25 08.11	+21 23 21.4		399

1993 VY ₄	* 1993 11 11.52917	03 22 34.99	+15 11 44.0	17.2	399	1993 SN ₁	1993 10 15.51181	00 33 10.40	-03 54 58.0		400
1993 VY ₄	1993 11 11.54375	03 22 34.02	+15 11 43.8		399	1993 SQ ₁	1993 10 15.49792	00 32 55.95	-01 44 49.6	16.8	400
1993 VY ₄	1993 11 16.51736	03 17 46.56	+15 04 43.3	17.2	399	1993 SQ ₁	1993 10 15.51181	00 32 55.31	-01 44 47.1		400
1993 VY ₄	1993 11 16.53194	03 17 45.64	+15 04 41.3		399	1993 SS ₁	1993 10 15.49792	00 38 26.51	-01 23 11.3	16.8	400
1993 VA ₅	1993 11 11.59792	03 42 35.45	+18 23 08.9	16.5	399	1993 SS ₁	1993 10 15.51181	00 38 25.87	-01 23 19.3		400
1993 VA ₅	1993 11 11.61250	03 42 34.61	+18 23 09.9		399	1993 SV ₁	1993 10 15.49792	00 42 30.04	-00 55 53.7	16.5	400
1993 WB	1993 11 11.56181	03 28 56.11	+22 18 36.1	16.7	399	1993 SV ₁	1993 10 15.51181	00 42 29.55	-00 55 55.2		400
1993 WB	1993 11 11.57639	03 28 55.07	+22 18 32.8		399	1993 SA ₄	* 1993 09 18.64722	00 54 07.14	+03 36 09.7	16.5	400
1993 WB	1993 11 16.55069	03 23 38.59	+22 02 39.2	16.5	399	1993 SA ₄	1993 09 18.66319	00 54 06.41	+03 36 01.5		400
1993 WB	1993 11 16.56528	03 23 37.57	+22 02 37.4		399	1993 SA ₄	1993 10 11.56042	00 38 50.10	-00 06 30.2	16.5	400
1993 WC	1993 11 11.59792	03 37 41.38	+15 50 52.3	17.2	399	1993 SA ₄	1993 10 11.57569	00 38 49.49	-00 06 37.3		400
1993 WC	1993 11 11.61250	03 37 40.39	+15 50 51.6		399	1993 SA ₄	1993 10 15.49792	00 36 18.00	-00 41 06.7	16.0	400
1993 WC	* 1993 11 16.58333	03 31 56.57	+15 43 41.4	17	399	1993 SA ₄	1993 10 15.51181	00 36 17.45	-00 41 13.6		400
1993 WC	1993 11 16.59792	03 31 55.59	+15 43 40.3		399	1993 TL	1993 10 19.53125	00 54 18.25	+06 18 43.2	16.0	400
(4455)	1993 11 11.56181	03 23 49.50	+21 39 25.6	15	399	1993 TL	1993 10 19.54896	00 54 17.46	+06 18 43.2		400
(4455)	1993 11 11.57639	03 23 48.62	+21 39 19.5		399	1993 TM	1993 10 19.53125	00 59 25.68	+04 55 37.1	16.8	400
400 Kitami						1993 TM	1993 10 19.54896	00 59 24.13	+04 55 37.0		400
K. Watanabe, 3-8 Mason Hashimoto B-203, atsubetsu cyuo 3 jo 4 chome,						1993 TN	1993 10 19.53125	01 11 35.08	+00 50 41.9	16.5	400
Atsubetsu-ku, Sapporo 004, Japan						1993 TN	1993 10 19.54896	01 11 33.80	+00 50 36.8		400
Observer K. Endate						1993 TR	1993 10 19.50069	01 24 55.67	+11 48 00.6	17	400
Measurer K. Watanabe						1993 TR	1993 10 19.51528	01 24 54.93	+11 47 59.5		400
0.25-m <i>f</i> /2.6 Schmidt camera						1993 TW	1993 10 19.50069	01 36 40.33	+11 39 44.8	16.0	400
GSC						1993 TW	1993 10 19.51528	01 36 39.70	+11 39 41.4		400
1986 RN ₅	1993 09 21.58333	23 53 41.65	-01 00 08.5	16.0	400	1993 TY	1993 10 19.50069	01 31 43.53	+11 11 23.3	16.5	400
1986 RN ₅	1993 09 21.59861	23 53 40.62	-01 00 08.4		400	1993 TY	1993 10 19.51528	01 31 42.95	+11 11 15.1		400
1988 UC	1993 10 20.56736	02 18 35.38	+13 23 43.5	17	400	1993 TB ₁	1993 10 19.56806	01 27 06.79	+08 17 48.4	17	400
1988 UC	1993 10 20.58125	02 18 34.66	+13 23 43.7		400	1993 TB ₁	1993 10 19.58194	01 27 06.11	+08 17 43.0		400
1988 XW ₁	1993 11 11.61042	03 27 23.01	+13 24 43.6	15.8	400	1993 TD ₁	1993 10 19.56806	01 30 41.25	+08 59 37.4	16.5	400
1988 XW ₁	1993 11 11.62639	03 27 21.95	+13 24 43.6		400	1993 TD ₁	1993 10 19.58194	01 30 40.06	+08 59 40.8		400
1989 SU	1993 09 19.57361	00 22 37.77	+10 44 23.8	16.0	400	1993 TE ₁	1993 10 19.56806	01 36 47.36	+07 43 42.3	17	400
1989 SU	1993 09 19.58819	00 22 36.85	+10 44 20.1		400	1993 TE ₁	1993 10 19.58194	01 36 46.45	+07 43 38.0		400
1990 BC ₁	1993 10 16.46875	00 44 49.86	-07 34 08.2	17	400	1993 TF ₁	1993 11 10.46111	01 33 49.84	+14 09 49.5	16.5	400
1990 BC ₁	1993 10 16.48819	00 44 49.02	-07 34 14.9		400	1993 TF ₁	1993 11 10.47639	01 33 49.21	+14 09 40.6		400
1990 BG ₁	1993 10 20.56736	02 30 16.90	+08 33 28.3	17	400	1993 TJ ₁	1993 11 10.46111	01 42 26.90	+13 49 55.3	16.5	400
1990 BG ₁	1993 10 20.58125	02 30 15.84	+08 33 26.0		400	1993 TJ ₁	1993 11 10.47639	01 42 26.14	+13 49 55.0		400
1990 BG ₁	1993 11 11.54375	02 11 32.82	+07 28 54.7	17	400	1993 TK ₁	1993 11 10.46111	01 50 14.66	+12 45 26.1	16.0	400
1990 BG ₁	1993 11 11.55972	02 11 32.02	+07 28 53.0		400	1993 TK ₁	1993 11 10.47639	01 50 13.94	+12 45 23.3		400
1990 VG ₃	1993 10 16.46875	00 48 32.54	-05 02 44.1	16.5	400	1993 TL ₁	1993 10 20.53542	01 53 55.80	+06 13 57.7	16.5	400
1990 VG ₃	1993 10 16.48819	00 48 31.59	-05 02 50.0		400	1993 TL ₁	1993 11 11.47917	01 42 47.44	+03 18 32.7	16.5	400
1990 XM	1993 10 15.52778	01 26 09.21	+03 20 56.1	16.0	400	1993 TL ₁	1993 11 11.49583	01 42 47.06	+03 18 24.2		400
1990 XM	1993 10 15.54167	01 26 08.55	+03 20 52.6		400	1993 TM ₁	1993 10 20.53542	01 59 59.17	+06 43 17.5	16.0	400
1990 XM	1993 10 19.56806	01 22 33.50	+03 00 50.5	16.0	400	1993 TM ₁	1993 10 20.55069	01 59 58.30	+06 43 12.3		400
1990 XM	1993 10 19.58194	01 22 32.80	+03 00 46.3		400	1993 TM ₁	1993 11 11.47917	01 41 02.05	+05 55 27.4	16.5	400
1991 CM ₃	1993 11 11.51250	02 00 36.18	+03 31 45.9	16.0	400	1993 TM ₁	1993 11 11.49583	01 41 01.22	+05 55 25.2		400
1991 CM ₃	1993 11 11.52778	02 00 35.49	+03 31 43.1		400	1993 TN ₁	1993 10 20.55069	02 03 28.63	+05 11 10.3	16.5	400
1993 RD ₂	1993 10 12.54375	00 04 30.12	-05 46 54.2	17	400	1993 TN ₁	1993 11 11.47917	01 45 24.69	+04 09 23.9	16.5	400
1993 RD ₂	1993 10 12.55903	00 04 29.73	-05 47 04.1		400	1993 TN ₁	1993 11 11.49583	01 45 24.14	+04 09 21.3		400
1993 SD ₁	1993 10 12.54375	00 12 49.51	-02 53 01.9	16.8	400	1993 TQ ₁	1993 10 20.53542	01 52 54.12	+08 21 22.4	17	400
1993 SD ₁	1993 10 12.55903	00 12 48.60	-02 53 03.9		400	1993 TQ ₁	1993 10 20.55069	01 52 53.52	+08 21 14.9		400
1993 SH ₁	1993 10 15.49792	00 28 30.62	-01 33 58.6	16.8	400	1993 TR ₁	1993 10 20.53542	01 53 26.70	+09 43 51.1	16.8	400
1993 SH ₁	1993 10 15.51181	00 28 29.97	-01 34 07.6		400	1993 TR ₁	1993 10 20.55069	01 53 25.80	+09 43 53.5		400
1993 SN ₁	1993 10 15.49792	00 33 10.93	-03 54 55.3	16.8	400	1993 TR ₁	1993 11 10.46111	01 35 31.35	+09 38 00.5	17	400

1993 TR ₁	1993 11 10.47639	01 35 30.59	+09 38 01.8		400	1993 TD ₃	1993 10 11.64028	01 47 48.87	+04 31 18.8		400
1993 TS ₁	1993 10 20.53542	01 59 08.47	+07 11 43.2	17	400	1993 TD ₃	1993 10 15.52778	01 45 02.12	+04 03 11.1	17	400
1993 TS ₁	1993 10 20.55069	01 59 07.81	+07 11 35.7		400	1993 TD ₃	1993 10 15.54167	01 45 01.47	+04 03 06.5		400
1993 TS ₁	1993 11 11.47917	01 44 46.91	+04 14 26.0	16.8	400	1993 TE ₃	* 1993 10 11.65556	01 30 14.16	+12 27 17.4	16.0	400
1993 TS ₁	1993 11 11.49583	01 44 46.22	+04 14 19.5		400	1993 TE ₃	1993 10 11.66944	01 30 13.06	+12 27 16.3		400
1993 TT ₁	1993 11 11.47917	01 47 31.14	+04 55 28.9	16.7	400	1993 TE ₃	1993 10 12.57639	01 29 12.40	+12 26 59.1	16.0	400
1993 TT ₁	1993 11 11.49583	01 47 30.30	+04 55 18.8		400	1993 TE ₃	1993 10 12.59028	01 29 11.33	+12 26 56.0		400
1993 TV ₁	1993 11 10.46111	01 45 20.73	+09 29 51.6	16.0	400	1993 TE ₃	1993 10 19.50069	01 21 25.17	+12 22 30.2	16.5	400
1993 TV ₁	1993 11 10.47639	01 45 20.02	+09 29 55.3		400	1993 TE ₃	1993 10 19.51528	01 21 24.17	+12 22 26.6		400
1993 TW ₁	1993 10 20.56736	02 22 27.83	+08 50 28.0	17	400	1993 TF ₃	* 1993 10 11.65556	01 47 00.21	+12 11 33.9	16.5	400
1993 TW ₁	1993 10 20.58125	02 22 26.82	+08 50 30.0		400	1993 TF ₃	1993 10 11.66944	01 46 59.47	+12 11 27.7		400
1993 TX ₁	1993 10 20.56736	02 34 05.41	+06 25 28.4	17	400	1993 TF ₃	1993 10 12.57639	01 46 12.53	+12 06 41.9	17	400
1993 TX ₁	1993 10 20.58125	02 34 04.49	+06 25 14.9		400	1993 TF ₃	1993 10 12.59028	01 46 11.65	+12 06 38.5		400
1993 TX ₁	1993 11 11.51250	02 14 58.33	+03 05 16.7	16.5	400	1993 TF ₃	1993 10 19.50069	01 39 59.89	+11 28 22.8	16.5	400
1993 TX ₁	1993 11 11.52778	02 14 57.56	+03 05 10.9		400	1993 TF ₃	1993 10 19.51528	01 39 59.00	+11 28 18.1		400
1993 TY ₁	1993 11 11.44722	01 59 03.70	+18 49 54.6	16.0	400	1993 TG ₃	* 1993 10 11.65556	01 49 02.46	+15 04 27.7	16.5	400
1993 TY ₁	1993 11 11.46250	01 59 02.85	+18 49 52.3		400	1993 TG ₃	1993 10 11.66944	01 49 01.68	+15 04 26.4		400
1993 TZ ₁	1993 11 11.54375	02 08 54.19	+11 46 20.6	16.5	400	1993 TH ₃	* 1993 10 15.52778	01 24 42.47	+08 59 16.2	16.5	400
1993 TZ ₁	1993 11 11.55972	02 08 53.31	+11 46 10.8		400	1993 TH ₃	1993 10 15.54167	01 24 41.61	+08 59 06.8		400
1993 TB ₂	1993 11 11.44722	02 15 00.72	+15 56 49.6	16.5	400	1993 TH ₃	1993 10 19.56806	01 20 31.61	+08 17 08.7	16.5	400
1993 TB ₂	1993 11 11.46250	02 14 59.99	+15 56 43.2		400	1993 TH ₃	1993 10 19.58194	01 20 30.66	+08 16 59.9		400
1993 TC ₂	1993 11 11.44722	02 09 27.01	+15 54 09.7	16.8	400	1993 TJ ₃	* 1993 10 15.55903	02 14 14.92	+12 56 46.3	16.0	400
1993 TC ₂	1993 11 11.46250	02 09 26.05	+15 54 05.5		400	1993 TJ ₃	1993 10 15.57361	02 14 13.98	+12 56 44.9		400
1993 TD ₂	1993 11 11.44722	02 11 05.12	+14 11 12.8	17	400	1993 TJ ₃	1993 10 16.50417	02 13 19.01	+12 55 14.3	16.0	400
1993 TD ₂	1993 11 11.46250	02 11 04.32	+14 11 08.9		400	1993 TJ ₃	1993 10 16.51875	02 13 18.01	+12 55 13.6		400
1993 TE ₂	1993 11 11.44722	02 12 32.84	+20 01 38.5	16.7	400	1993 TK ₃	* 1993 10 15.65486	02 31 33.15	+09 10 14.7	16.5	400
1993 TE ₂	1993 11 11.46250	02 12 32.22	+20 01 39.3		400	1993 TK ₃	1993 10 15.67153	02 31 32.48	+09 10 12.0		400
1993 TF ₂	1993 10 20.56736	02 27 02.06	+12 04 50.2	17	400	1993 TK ₃	1993 10 20.56736	02 27 44.68	+08 54 40.5	17	400
1993 TF ₂	1993 10 20.58125	02 27 01.47	+12 04 45.1		400	1993 TK ₃	1993 10 20.58125	02 27 43.79	+08 54 37.2		400
1993 TF ₂	1993 11 11.54375	02 10 02.80	+10 48 36.8	16.5	400	1993 TK ₃	1993 11 11.54375	02 10 04.67	+08 00 03.8	16.5	400
1993 TF ₂	1993 11 11.55972	02 10 02.07	+10 48 31.9		400	1993 TK ₃	1993 11 11.55972	02 10 03.93	+08 00 03.4		400
1993 TG ₂	1993 10 20.56736	02 29 35.21	+10 09 40.1	16.0	400	1993 TK ₁₁	* 1993 10 11.62569	01 48 12.07	+08 08 30.2	16.5	400
1993 TG ₂	1993 10 20.58125	02 29 34.43	+10 09 30.5		400	1993 TK ₁₁	1993 10 11.64028	01 48 11.30	+08 08 21.4		400
1993 TG ₂	1993 11 11.54375	02 12 41.10	+07 12 58.8	16.5	400	1993 TK ₁₁	1993 10 15.52778	01 44 55.35	+07 35 13.5	16.5	400
1993 TG ₂	1993 11 11.55972	02 12 40.46	+07 12 54.3		400	1993 TK ₁₁	1993 10 19.56806	01 41 24.48	+07 00 54.8	16.5	400
1993 TH ₂	1993 11 11.54375	02 17 17.67	+09 39 11.6	16.5	400	1993 TK ₁₁	1993 10 19.58194	01 41 23.80	+07 00 48.4		400
1993 TH ₂	1993 11 11.55972	02 17 16.78	+09 39 10.3		400	1993 TS ₁₁	1993 10 19.50069	01 39 49.90	+14 37 57.5	16.5	400
1993 TA ₃	* 1993 10 11.62569	01 41 20.13	+04 04 41.9	17	400	1993 TS ₁₁	1993 10 19.51528	01 39 48.89	+14 37 54.3		400
1993 TA ₃	1993 10 11.64028	01 41 19.37	+04 04 36.1		400	1993 UK	* 1993 10 16.59931	02 22 23.85	+10 01 34.9	16.5	400
1993 TA ₃	1993 10 15.52778	01 37 37.91	+03 37 38.5	17	400	1993 UK	1993 10 16.61667	02 22 23.01	+10 01 29.7		400
1993 TA ₃	1993 10 15.54167	01 37 37.03	+03 37 29.5		400	1993 UK	1993 10 20.56736	02 19 07.55	+09 47 06.8	16.5	400
1993 TB ₃	* 1993 10 11.62569	01 41 26.38	+03 25 38.1	16.5	400	1993 UK	1993 10 20.58125	02 19 06.72	+09 47 01.9		400
1993 TB ₃	1993 10 11.64028	01 41 25.45	+03 25 32.0		400	1993 UK	1993 11 11.54375	02 00 47.39	+08 34 16.9	17	400
1993 TB ₃	1993 10 15.52778	01 37 49.18	+03 14 00.2	16.5	400	1993 UK	1993 11 11.55972	02 00 46.68	+08 34 14.0		400
1993 TB ₃	1993 10 15.54167	01 37 48.42	+03 13 57.9		400	1993 UL	* 1993 10 16.59931	02 24 39.91	+08 30 49.0	16.5	400
1993 TC ₃	* 1993 10 11.62569	01 47 32.16	+07 39 58.1	16.0	400	1993 UL	1993 10 16.61667	02 24 39.05	+08 30 37.8		400
1993 TC ₃	1993 10 11.64028	01 47 31.47	+07 39 52.2		400	1993 UL	1993 10 20.56736	02 21 34.98	+07 48 11.3	17	400
1993 TC ₃	1993 10 15.52778	01 44 18.89	+07 12 43.6	16.0	400	1993 UL	1993 10 20.58125	02 21 34.07	+07 47 59.1		400
1993 TC ₃	1993 10 15.54167	01 44 18.15	+07 12 40.3		400	1993 UL	1993 11 11.51250	02 04 39.90	+04 18 45.7	17	400
1993 TC ₃	1993 10 19.56806	01 40 53.61	+06 45 11.1	16.5	400	1993 UL	1993 11 11.52778	02 04 39.23	+04 18 39.5		400
1993 TC ₃	1993 10 19.58194	01 40 52.96	+06 45 04.3		400	1993 UO	1993 10 19.50069	01 24 40.85	+14 15 51.7	16.5	400
1993 TD ₃	* 1993 10 11.62569	01 47 49.29	+04 31 21.4	16.5	400	1993 UO	1993 10 19.51528	01 24 40.04	+14 15 40.4		400

1993 UP	1993 10 15.55903	02 05 41.74	+14 00 28.5	17	400
1993 UP	1993 10 15.57361	02 05 40.77	+14 00 24.4		400
1993 UQ	1993 10 16.53403	02 02 27.08	+10 20 24.7	16.5	400
1993 UQ	1993 10 16.54861	02 02 26.28	+10 20 17.4		400
1993 UR	1993 10 16.53403	02 02 57.23	+10 33 47.7	16.5	400
1993 UR	1993 10 16.54861	02 02 56.34	+10 33 40.7		400
1993 VG ₁	1993 11 11.61042	03 34 37.72	+11 11 31.7	14.5	400
1993 VG ₁	1993 11 11.62639	03 34 36.76	+11 11 35.2		400
1993 VR ₂	1993 11 11.64375	04 10 19.35	+24 24 52.7	16.0	400
1993 VR ₂	1993 11 11.65972	04 10 18.19	+24 24 42.8		400
3526 P-L	1993 10 08.61875	00 45 04.23	+17 26 51.9	16.5	400
3526 P-L	1993 10 08.63264	00 45 03.49	+17 26 50.3		400
4121 P-L	1993 11 11.54375	02 04 50.51	+07 42 07.7	16.5	400
4121 P-L	1993 11 11.55972	02 04 49.88	+07 41 58.8		400
3137 T-3	1993 11 10.46111	01 41 07.31	+13 52 43.8	16.5	400
3137 T-3	1993 11 10.47639	01 41 06.47	+13 52 43.3		400
(1264)	1993 11 11.64375	04 03 12.09	+18 37 49.5	14.5	400
(1264)	1993 11 11.65972	04 03 11.30	+18 37 41.6		400
(1979)	1993 10 19.56806	01 30 37.52	+09 00 08.7	16.0	400
(1979)	1993 10 19.58194	01 30 36.70	+09 00 01.4		400
(5754)	1993 10 16.46875	00 52 24.90	-06 03 28.9	16.0	400
(5754)	1993 10 16.48819	00 52 23.86	-06 03 33.8		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

1993 VW	1993 11 18.53333	02 34 16.66	+15 01 55.5	17.0	d 402
1993 VW	1993 11 18.54583	02 34 14.88	+15 01 29.2		d 402
1993 VE ₁	* 1993 11 15.54028	03 23 23.10	+07 40 39.7	17.5	402
1993 VE ₁	1993 11 15.55278	03 23 22.47	+07 40 38.4		402
1993 VE ₁	1993 11 16.46667	03 22 36.61	+07 38 55.6		402
1993 VE ₁	1993 11 16.47986	03 22 36.06	+07 38 55.3		402
1993 VF ₁	* 1993 11 15.54028	03 27 52.76	+09 11 00.3	17.0	402
1993 VF ₁	1993 11 15.55278	03 27 51.61	+09 11 09.6		402
1993 VF ₁	1993 11 16.46667	03 26 31.41	+09 21 12.7		402
1993 VF ₁	1993 11 16.47986	03 26 30.17	+09 21 19.7		402
1993 VG ₁	* 1993 11 15.54028	03 30 31.52	+11 29 00.3	16.0	402
1993 VG ₁	1993 11 15.55278	03 30 30.72	+11 29 03.7		402
1993 VG ₁	1993 11 16.46667	03 29 33.36	+11 33 18.8		402
1993 VG ₁	1993 11 16.47986	03 29 32.58	+11 33 22.2		402
1993 VH ₁	* 1993 11 15.56319	03 53 41.23	+11 56 54.1	16.5	402
1993 VH ₁	1993 11 15.58889	03 53 39.27	+11 57 07.2		402
1993 VH ₁	1993 11 17.68837	03 51 12.31	+12 08 41.1		402
1993 VH ₁	1993 11 17.69931	03 51 11.50	+12 08 46.2		402
1993 VZ ₃	* 1993 11 15.59792	04 07 48.59	+11 13 16.4	17.0	402
1993 VZ ₃	1993 11 15.61047	04 07 47.64	+11 13 12.2		402
1993 VZ ₃	1993 11 16.68403	04 06 43.42	+11 13 46.1		402
1993 VZ ₃	1993 11 16.69792	04 06 42.60	+11 13 47.9		402
1993 VA ₄	* 1993 11 15.59792	04 08 56.92	+11 14 46.2	17.0	402
1993 VA ₄	1993 11 15.61047	04 08 56.10	+11 14 45.9		402
1993 VA ₄	1993 11 16.68403	04 07 46.47	+11 13 22.8		402

1993 VA ₄	1993 11 16.69792	04 07 45.52	+11 13 17.1		402
1993 VB ₄	* 1993 11 15.59792	04 24 02.22	+09 48 33.2	17.5	402
1993 VB ₄	1993 11 15.61047	04 24 01.49	+09 48 37.0		402
1993 VB ₄	1993 11 16.68403	04 23 04.72	+09 52 45.6		402
1993 VB ₄	1993 11 16.69792	04 23 03.84	+09 52 47.8		402

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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

1987 SE ₁₃	1993 10 19.62350	02 24 37.33	+09 56 16.4	16.5	403
1987 SE ₁₃	1993 10 19.63437	02 24 36.86	+09 56 13.7		403
1987 SE ₁₃	1993 10 23.63380	02 21 33.18	+09 42 00.5		403
1987 SE ₁₃	1993 10 23.64630	02 21 32.54	+09 41 57.7		403
1989 UL ₁	1993 10 19.57627	02 07 23.70	+08 01 32.1	16.5	403
1989 UL ₁	1993 10 19.58704	02 07 22.99	+08 01 31.6		403
1990 YC	1993 10 19.57627	02 05 37.96	+07 47 08.3	16.5	403
1990 YC	1993 10 19.58704	02 05 37.35	+07 47 04.4		403
1993 TJ ₁	1993 10 19.55417	02 05 06.68	+14 12 31.6	16.5	403
1993 TJ ₁	1993 10 19.56528	02 05 06.03	+14 12 31.2		403
1993 TV ₁	1993 10 19.57627	02 09 05.39	+08 12 14.0	16.5	403
1993 TV ₁	1993 10 19.58704	02 09 04.59	+08 12 17.7		403
1993 UK	1993 10 19.62349	02 19 54.76	+09 50 34.3	16.5	403
1993 UK	1993 10 19.63437	02 19 54.28	+09 50 31.5		403
1993 VA ₄	1993 11 15.57951	04 08 58.10	+11 14 49.6	16.0	403
1993 VA ₄	1993 11 15.59027	04 08 57.48	+11 14 48.0		403
(5701)	1993 10 23.66215	02 52 01.85	+17 12 03.3	16.0	403
(5701)	1993 10 23.67569	02 52 01.32	+17 12 04.2		403

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

Observers M. Hirasawa, S. Suzuki

Measurer K. Watanabe

0.30-m $f/2.7$ Schmidt camera

GSC

1993 UC ₃	* 1993 10 22.69306	03 22 58.26	+20 50 03.6	17	408
1993 UC ₃	1993 10 22.70972	03 22 57.47	+20 49 58.3		408
1993 UC ₃	1993 10 23.72917	03 22 18.57	+20 48 15.6	17	408
1993 UC ₃	1993 10 23.74306	03 22 18.04	+20 48 15.2		408
1993 UC ₃	1993 11 14.59306	03 04 09.49	+19 43 30.5	16.5	408
1993 UC ₃	1993 11 14.60868	03 04 08.66	+19 43 27.6		408
1993 UC ₃	1993 11 15.61875	03 03 14.54	+19 39 37.7	16.5	408
1993 UC ₃	1993 11 15.62986	03 03 13.84	+19 39 34.6		408
1993 UD ₃	* 1993 10 22.71875	03 18 18.73	+23 49 30.8	16.5	408
1993 UD ₃	1993 10 22.73611	03 18 17.95	+23 49 24.9		408
1993 UD ₃	1993 10 23.75208	03 17 28.72	+23 44 32.9	16.5	408
1993 UD ₃	1993 10 23.76736	03 17 27.97	+23 44 28.7		408
1993 UD ₃	1993 11 14.59306	02 56 41.86	+21 22 50.6	16.5	408
1993 UD ₃	1993 11 14.60868	02 56 40.78	+21 22 43.2		408
1993 UD ₃	1993 11 15.61875	02 55 42.94	+21 15 06.9	16.5	408

1993 UD ₃	1993 11 15.62986	02 55 42.27	+21 15 00.6		408	1993 UV	1993 10 24.61883	04 09 09.99	+16 26 03.1		411
1993 UE ₃	* 1993 10 23.69444	03 24 22.67	+16 31 55.9	16.0	408	1993 UV	1993 10 24.62205	04 09 09.97	+16 26 01.5		411
1993 UE ₃	1993 10 23.70883	03 24 21.91	+16 32 00.0		408	1993 UW	* 1993 10 23.73512	04 14 21.28	+18 30 02.1	16	411
1993 UE ₃	1993 10 24.72014	03 23 26.38	+16 35 20.2	16.0	408	1993 UW	1993 10 23.74673	04 14 20.87	+18 30 01.8		411
1993 UE ₃	1993 10 24.73750	03 23 25.36	+16 35 23.6		408	1993 UW	1993 10 24.62771	04 13 55.62	+18 29 04.9		411
1993 VU ₂	1993 11 15.61875	03 04 59.51	+22 29 32.2	17	408	1993 UW	1993 10 24.63417	04 13 55.42	+18 29 05.5		411
1993 VU ₂	1993 11 15.62986	03 04 58.87	+22 29 26.3		408	1993 UW	1993 10 24.63740	04 13 55.34	+18 29 04.8		411
1993 VV ₃	* 1993 11 14.59306	02 55 59.65	+19 12 34.4	16.5	408	1993 UX	* 1993 10 24.65189	03 48 45.48	+21 19 21.0	16	411
1993 VV ₃	1993 11 14.60868	02 55 58.44	+19 12 37.5		408	1993 UX	1993 10 24.66344	03 48 44.94	+21 19 21.4		411
1993 VV ₃	1993 11 15.61875	02 54 48.12	+19 14 25.9	16.5	408	1993 UX	1993 10 25.61043	03 47 56.95	+21 17 56.8		411
1993 VV ₃	1993 11 15.62986	02 54 47.32	+19 14 27.1		408	1993 UX	1993 10 25.62012	03 47 56.50	+21 17 57.2		411
1993 VW ₃	* 1993 11 14.59306	03 08 08.90	+22 20 21.3	16.5	408	1993 UX	1993 10 25.63083	03 47 55.93	+21 17 57.4		411
1993 VW ₃	1993 11 14.60868	03 08 07.79	+22 20 22.1		408	1993 UX	1993 10 26.69992	03 46 59.77	+21 16 12.5		411
1993 VW ₃	1993 11 15.61875	03 06 59.34	+22 20 35.1	16.5	408	1993 UX	1993 10 26.70639	03 46 59.49	+21 16 14.6		411
1993 VW ₃	1993 11 15.62986	03 06 58.49	+22 20 34.0		408	1993 UX	1993 10 26.70963	03 46 59.22	+21 16 15.0		411
1993 VX ₃	* 1993 11 14.65139	04 29 41.63	+21 37 50.8	16.5	408	1993 UX	1993 11 14.62700	03 26 33.69	+20 27 05.4		411
1993 VX ₃	1993 11 14.65903	04 29 41.07	+21 37 51.1		408	1993 UX	1993 11 14.63345	03 26 33.21	+20 27 04.1		411
1993 VX ₃	1993 11 15.64375	04 28 45.29	+21 32 28.5	16.5	408	1993 UX	1993 11 14.63668	03 26 32.99	+20 27 03.7		411
1993 VX ₃	1993 11 15.65972	04 28 44.27	+21 32 22.6		408	1993 UY	* 1993 10 24.67300	03 51 19.85	+19 37 14.8	16.5	411
1993 VY ₃	* 1993 11 14.65139	04 36 22.93	+22 46 22.9	17	408	1993 UY	1993 10 24.68454	03 51 19.34	+19 37 09.2		411
1993 VY ₃	1993 11 14.66875	04 36 21.96	+22 46 19.1		408	1993 UY	1993 10 25.64190	03 50 35.72	+19 31 20.5		411
1993 VY ₃	1993 11 15.64375	04 35 35.43	+22 44 13.8	17	408	1993 UY	1993 10 25.64836	03 50 35.41	+19 31 18.9		411
1993 VY ₃	1993 11 15.65972	04 35 34.63	+22 44 10.3		408	1993 UY	1993 10 25.65159	03 50 35.22	+19 31 18.3		411
1993 VN ₄	* 1993 11 14.68056	04 34 01.16	+27 33 16.3	16.7	408	1993 VQ	* 1993 11 14.54394	03 26 47.85	+20 42 23.9	16	411
1993 VN ₄	1993 11 14.71250	04 33 58.82	+27 33 20.6		408	1993 VQ	1993 11 14.55039	03 26 47.52	+20 42 22.5		411
1993 VN ₄	1993 11 15.67083	04 32 56.17	+27 35 13.9	16.7	408	1993 VQ	1993 11 14.55362	03 26 47.35	+20 42 21.5		411
1993 VN ₄	1993 11 15.68472	04 32 55.18	+27 35 15.6		408	1993 VQ	1993 11 15.51954	03 25 54.24	+20 39 54.3		411
1993 VZ ₄	* 1993 11 14.65139	04 30 58.34	+23 37 24.3	16.7	408	1993 VQ	1993 11 15.52600	03 25 53.85	+20 39 53.6		411
1993 VZ ₄	1993 11 14.66875	04 30 57.35	+23 37 23.9		408	1993 VQ	1993 11 15.52923	03 25 53.68	+20 39 52.7		411
1993 VZ ₄	1993 11 15.64375	04 29 59.83	+23 36 39.5	16.5	408	1993 VR	* 1993 11 14.54394	03 28 38.95	+20 50 16.0	16.5	411
1993 VZ ₄	1993 11 15.65972	04 29 58.90	+23 36 37.9		408	1993 VR	1993 11 14.55039	03 28 38.53	+20 50 12.5		411
410 Sengamine						1993 VR	1993 11 14.55362	03 28 38.36	+20 50 11.2		411
K. Ito, 4-13-7, Sakuragaoka Higashi Mati, Nishi-ku, Kobe 651-22, Japan						1993 VR	1993 11 15.50054	03 27 47.73	+20 39 45.1		411
0.20-m <i>f</i> /6.0 reflector + CCD						1993 VR	1993 11 15.50699	03 27 47.36	+20 39 40.8		411
GSC						1993 VR	1993 11 15.51022	03 27 47.16	+20 39 39.2		411
1993 SL ₃	1993 10 11.47374	01 10 40.23	+10 10 41.1	15.5 V	410	1993 VS	* 1993 11 14.57288	03 56 50.90	+17 42 28.8	16.5	411
1993 SL ₃	1993 10 11.48032	01 10 39.59	+10 10 43.2		410	1993 VS	1993 11 14.57933	03 56 50.52	+17 42 27.7		411
1993 SL ₃	1993 10 11.48829	01 10 38.87	+10 10 46.6		410	1993 VS	1993 11 14.58256	03 56 50.31	+17 42 27.3		411
1993 TO ₁	1993 10 22.59792	02 16 24.71	+08 30 46.0	15.6 V	410	1993 VS	1993 11 15.55479	03 55 54.75	+17 39 54.8		411
1993 TO ₁	1993 10 22.60477	02 16 24.03	+08 30 52.1		410	1993 VS	1993 11 15.56124	03 55 54.35	+17 39 53.7		411
(5737)	1993 10 22.68346	01 29 11.62	+20 19 53.9	15.2 V	410	1993 VS	1993 11 15.56447	03 55 54.15	+17 39 53.2		411
(5737)	1993 10 22.69003	01 29 11.23	+20 19 52.8		410	1993 VT	* 1993 11 14.57288	03 57 38.82	+18 05 13.8	17	411
(5737)	1993 10 22.70042	01 29 10.60	+20 19 50.6		410	1993 VT	1993 11 14.57933	03 57 38.48	+18 05 15.4		411
411 Oizumi						1993 VT	1993 11 14.58256	03 57 38.14	+18 05 15.8		411
T. Kobayashi, 1717-2 Shimo-Koizumi, Oizumi-machi, Ora-gun, Gunma-ken, 370-05						1993 VT	1993 11 15.53902	03 56 33.91	+18 07 13.7		411
Japan						1993 VT	1993 11 15.54548	03 56 33.41	+18 07 14.5		411
0.25-m <i>f</i> /4.4 reflector + CCD						1993 VT	1993 11 15.54871	03 56 33.15	+18 07 15.4		411
GSC						1993 VX	* 1993 11 15.62932	05 11 14.52	+17 52 52.7	16	411
1993 UV	* 1993 10 23.67943	04 09 26.18	+16 37 09.1	16	411	1993 VX	1993 11 15.64299	05 11 13.89	+17 52 53.9		411
1993 UV	1993 10 23.69099	04 09 25.92	+16 37 00.7		411	1993 VX	1993 11 16.64688	05 10 30.01	+17 54 36.5		411
1993 UV	1993 10 24.61237	04 09 10.09	+16 26 07.5		411	1993 VX	1993 11 16.65334	05 10 29.70	+17 54 37.1		411
						1993 VX	1993 11 16.65657	05 10 29.53	+17 54 37.6		411

1993 VN ₂	* 1993 11 15.65885	05 14 31.31	+18 01 03.4	17	411	1991 RC	1993 10 27.40853	19 37 09.85	-16 54 54.9		413
1993 VN ₂	1993 11 15.67253	05 14 30.51	+18 01 01.2		411	1991 WA	1993 11 21.50322	04 18 59.63	-15 42 02.3		T 413
1993 VN ₂	1993 11 18.67982	05 11 49.62	+17 55 22.4		411	1991 WA	1993 11 21.50919	04 18 55.92	-15 40 54.3		T 413
1993 VN ₂	1993 11 18.70285	05 11 48.40	+17 55 19.4		411	1991 WA	1993 11 22.62022	04 07 57.18	-12 11 42.0		413
1993 VO ₂	* 1993 11 15.65885	05 16 09.10	+17 43 16.2	16.5	411	1991 WA	1993 11 22.62238	04 07 55.90	-12 11 17.2		413
1993 VO ₂	1993 11 15.67253	05 16 08.48	+17 43 16.4		411	1991 WA	1993 11 22.62470	04 07 54.59	-12 10 52.1		413
1993 VO ₂	1993 11 18.68712	05 13 41.71	+17 45 18.6		411	1992 BB	1993 10 27.48816	23 16 54.86	+05 14 27.5		413
1993 VO ₂	1993 11 18.69359	05 13 41.38	+17 45 18.6		411	1992 BB	1993 11 20.48073	23 17 06.63	-02 13 34.5		413
1993 VO ₂	1993 11 18.69682	05 13 41.19	+17 45 18.4		411	1992 BB	1993 11 20.48448	23 17 06.73	-02 13 38.2		413
1993 VJ ₃	1993 11 23.72943	03 20 06.93	+19 10 37.1	16	411	1992 BB	1993 11 20.48917	23 17 06.78	-02 13 42.0		413
1993 VJ ₃	1993 11 23.73911	03 20 06.47	+19 10 35.5		411	1992 BB	1993 11 20.49347	23 17 06.95	-02 13 45.5		413
1993 VJ ₃	1993 11 24.58867	03 19 20.86	+19 08 19.4		411	1992 CH ₁	1993 10 26.73093	05 09 39.80	-25 01 28.2		413
1993 VJ ₃	1993 11 24.59373	03 19 20.58	+19 08 18.7		411	1992 CH ₁	1993 10 26.73485	05 09 39.91	-25 01 33.9		413
1993 VJ ₃	1993 11 24.59626	03 19 20.43	+19 08 18.2		411	1992 CH ₁	1993 10 27.67998	05 10 05.01	-25 25 43.4		413
1993 WD	1993 11 23.44488	01 45 43.81	+24 09 07.3		411	1992 CH ₁	1993 10 27.68363	05 10 05.10	-25 25 48.6		413
1993 WD	1993 11 23.44643	01 45 41.65	+24 09 23.5		411	1992 CH ₁	1993 11 20.72667	05 07 11.78	-34 24 12.1	18 V	413
1993 WD	1993 11 23.44720	01 45 40.62	+24 09 29.6		411	1992 CH ₁	1993 11 20.73039	05 07 11.65	-34 24 15.1		413
						1992 JB	1993 11 20.74250	08 15 42.53	-06 12 13.5		413
						1992 JB	1993 11 20.74488	08 15 42.83	-06 12 20.5		413
						1993 MF	1981 04 26.38168	10 46 20.53	-02 34 56.3		F 413
						1993 MF	1981 04 26.43029	10 46 19.50	-02 34 38.9		F 413
						1993 MO	1993 10 26.45106	21 13 57.89	-46 31 04.8		413
						1993 MO	1993 10 26.45361	21 13 58.38	-46 31 02.8		413
						1993 MO	1993 10 26.46267	21 14 00.09	-46 30 54.2		413
						1993 MO	1993 10 27.47856	21 17 10.39	-46 15 49.6		413
						1993 MO	1993 10 27.48102	21 17 10.84	-46 15 47.4		413
						1993 MO	1993 11 20.45891	22 25 57.87	-39 05 10.6		413
						1993 MO	1993 11 20.46227	22 25 58.30	-39 05 07.5		413
						1993 OV ₁	1993 10 27.44444	21 48 11.04	+00 39 31.2		413
						1993 OV ₁	1993 10 27.44709	21 48 11.23	+00 39 31.4		413
						1993 OZ ₂	1993 10 26.52164	23 34 03.96	-42 22 34.1		413
						1993 OZ ₂	1993 10 26.52347	23 34 04.04	-42 22 32.8		413
						1993 OZ ₂	1993 10 27.48344	23 34 52.48	-42 10 12.2		413
						1993 OZ ₂	1993 10 27.48556	23 34 52.59	-42 10 10.5		413
						1993 OZ ₂	1993 11 20.53728	00 02 10.59	-35 17 26.1		413
						1993 OZ ₂	1993 11 20.53944	00 02 10.78	-35 17 22.9		413
						1993 RR ₂	1993 10 26.53913	00 45 30.21	-15 20 02.7		413
						1993 RR ₂	1993 10 26.54953	00 45 30.20	-15 20 01.7		413
						1993 RR ₂	1993 10 27.56010	00 45 33.95	-15 17 49.2		413
						1993 RR ₂	1993 10 27.56726	00 45 33.96	-15 17 48.0		413
						1993 SS ₂	1993 10 09.51991	00 59 10.72	-04 49 42.2		413
						1993 SV ₃	1993 09 24.59865	00 51 17.66	-04 34 38.1	16 V	413
						1993 SV ₃	1993 09 24.68198	00 51 09.45	-04 33 43.5		413
						1993 SV ₃	1993 10 21.47778	00 11 37.00	+00 41 08.6	17 V	413
						1993 SV ₃	1993 10 21.54028	00 11 32.33	+00 41 56.5		413
						1993 SW ₃	1993 10 09.51991	00 53 19.30	-03 58 53.2		413
						1993 TA	1988 08 04.51847	20 53 01.44	+01 54 37.9	17 V	413
						1993 TA	1988 08 04.57403	20 52 58.47	+01 54 04.7		413
						1993 TA	1993 10 23.65786	01 15 25.16	-34 28 39.4	15.5 V	413
						1993 TA	1993 10 27.61941	01 13 47.01	-35 27 02.1		413
						1993 TA	1993 10 27.62744	01 13 46.79	-35 27 08.3		413
						1993 TA	1993 10 27.70653	01 13 44.78	-35 28 09.6		413

413 Siding Spring

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

Observers M. J. Drinkwater, G. J. Garradd, M. Gregg, M. Hartley,

R. H. McNaught, A. Savage, P. Wood

Measurers R. H. McNaught, G. J. Garradd

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

1979 KR ₁	* 1979 05 28.62882	18 13 49.79	+02 34 34.0	18	V	I	413
1979 KR ₁	1979 05 28.67049	18 13 41.76	+02 37 12.3			F	413
1983 RB	1993 10 27.56212	00 53 23.04	-17 46 34.7				413
1983 RB	1993 10 27.56486	00 53 22.96	-17 46 35.5				413
1984 KB	1993 10 26.51425	23 37 24.03	-05 49 14.3				413
1984 KB	1993 10 26.51627	23 37 23.88	-05 49 15.5				413
1984 KB	1993 10 26.51843	23 37 23.69	-05 49 16.4				413
1984 KB	1993 10 27.49556	23 35 56.41	-05 59 47.3				413
1984 KB	1993 10 27.49792	23 35 56.21	-05 59 49.1				413
1984 KB	1993 11 20.49772	23 11 33.93	-08 51 48.1				413
1984 KB	1993 11 20.50089	23 11 33.85	-08 51 49.0				413
1988 RE	1993 10 27.66686	03 21 50.12	-08 05 12.2				413
1988 RE	1993 10 27.66856	03 21 49.98	-08 05 15.4				413
1988 VN ₄	1993 10 27.71222	07 29 12.38	+12 07 32.5				413
1988 VN ₄	1993 10 27.71464	07 29 12.80	+12 07 26.9				413
1988 VN ₄	1993 11 20.75295	08 32 01.97	-05 38 26.1				413
1988 VN ₄	1993 11 20.75473	08 32 02.21	-05 38 31.2				413
1989 OL	1993 09 23.54255	19 13 47.15	-39 03 28.8				413
1989 OL	1993 09 23.54443	19 13 47.28	-39 03 28.0				413
1989 OL	1993 11 20.42245	20 46 06.09	-30 12 12.4				413
1989 OL	1993 11 20.42442	20 46 06.32	-30 12 11.3				413
1989 WQ ₁	1993 11 20.47309	23 05 16.95	-25 50 21.9				413
1989 WQ ₁	1993 11 20.47579	23 05 17.11	-25 50 18.2				413
1991 AM	1993 11 20.73492	05 17 24.88	-23 43 32.4				413
1991 AM	1993 11 20.73847	05 17 24.38	-23 43 32.4				413
1991 FG	1993 11 20.52753	23 36 29.54	+02 07 20.3	19.5	V	U	413
1991 RC	1993 10 27.40360	19 37 09.17	-16 54 53.6				413
1991 RC	1993 10 27.40619	19 37 09.56	-16 54 54.5				413

1993 TA	1993 10 27.70793	01 13 44.74	-35 28 10.7	413	1993 UF	1993 10 21.62546	00 42 51.97	-21 56 15.0	F 413
1993 TB	1993 09 21.60891	00 24 19.43	-02 08 15.5	413	1993 UF	1993 10 22.55608	00 42 21.64	-21 57 10.3	V 413
1993 TB	1993 09 21.65058	00 24 17.50	-02 08 29.0	413	1993 UF	1993 10 22.61858	00 42 19.46	-21 57 12.8	V 413
1993 TQ ₂	1993 10 27.66066	02 45 07.21	+26 17 42.0	413	1993 UF	1993 10 23.64931	00 41 46.58	-21 57 47.6	413
1993 TQ ₂	1993 10 27.66419	02 45 07.11	+26 17 47.1	413	1993 UF	1993 10 26.69622	00 40 18.21	-21 56 52.4	413
1993 TS ₂	1993 10 27.55385	01 14 34.24	+11 56 12.6	413	1993 UF	1993 10 26.69987	00 40 18.06	-21 56 51.4	413
1993 TS ₂	1993 10 27.55661	01 14 34.12	+11 56 10.5	413	1993 UF	1993 10 27.53552	00 39 56.57	-21 55 58.0	413
1993 UB	1993 10 26.42520	00 42 45.20	-04 07 56.8	413	1993 UF	1993 10 27.54072	00 39 56.42	-21 55 57.5	413
1993 UB	1993 10 26.42696	00 42 44.87	-04 07 48.6	413	1993 UV ₂	* 1993 10 20.65365	03 37 26.70	-31 53 02.6	17.5 V 413
1993 UB	1993 10 26.43404	00 42 43.59	-04 07 15.2	413	1993 UV ₂	1993 10 20.69531	03 37 24.26	-31 53 12.5	413
1993 UB	1993 10 26.43560	00 42 43.30	-04 07 07.8	413	1993 UV ₂	1993 10 26.66608	03 30 55.87	-32 10 39.4	413
1993 UB	1993 10 26.70544	00 41 53.97	-03 45 49.2	b 413	1993 UV ₂	1993 10 26.67061	03 30 55.53	-32 10 39.6	413
1993 UB	1993 10 26.70698	00 41 53.66	-03 45 41.2	b 413	1993 UV ₂	1993 10 26.74104	03 30 50.30	-32 10 43.4	413
1993 UB	1993 10 27.42427	00 39 52.18	-02 48 41.5	413	1993 UV ₂	1993 10 26.74310	03 30 50.15	-32 10 43.6	413
1993 UB	1993 10 27.42561	00 39 51.94	-02 48 35.1	413	1993 UV ₂	1993 10 26.74600	03 30 49.93	-32 10 43.6	413
1993 UB	1993 10 27.63866	00 39 13.21	-02 31 33.4	413	1993 UV ₂	1993 10 27.50861	03 29 56.26	-32 11 19.8	413
1993 UB	1993 10 27.64140	00 39 12.71	-02 31 20.3	413	1993 UV ₂	1993 10 27.51067	03 29 56.12	-32 11 20.1	413
1993 UB	1993 10 27.69829	00 39 02.61	-02 26 46.6	413	1993 UV ₂	1993 10 27.72435	03 29 39.85	-32 11 26.7	413
1993 UB	1993 10 27.69981	00 39 02.34	-02 26 39.3	413	1993 UV ₂	1993 10 27.72612	03 29 39.71	-32 11 26.7	413
1993 UB	1993 11 20.44267	23 50 18.25	+27 09 25.3	413	1993 UX ₂	* 1993 10 20.59444	00 44 03.06	-21 34 09.3	18 V 413
1993 UB	1993 11 20.44543	23 50 18.06	+27 09 35.0	413	1993 UX ₂	1993 10 20.63264	00 44 01.44	-21 34 08.5	413
1993 UB	1993 11 20.44721	23 50 17.91	+27 09 41.2	413	1993 UX ₂	1993 10 23.64931	00 41 57.03	-21 31 35.0	413
1993 UC	1993 10 26.43777	00 43 05.91	-27 35 02.8	413	1993 UX ₂	1993 10 27.52762	00 39 32.73	-21 23 33.5	413
1993 UC	1993 10 26.43985	00 43 05.70	-27 35 05.6	413	1993 UX ₂	1993 10 27.52965	00 39 32.66	-21 23 33.1	413
1993 UC	1993 10 26.44615	00 43 05.11	-27 35 14.6	413	1993 UY ₂	* 1993 10 20.59444	00 47 12.10	-21 37 25.0	17.5 V 413
1993 UC	1993 10 26.44817	00 43 04.92	-27 35 17.5	413	1993 UY ₂	1993 10 20.63264	00 47 09.95	-21 37 09.9	413
1993 UC	1993 10 26.71060	00 42 40.27	-27 41 25.7	b 413	1993 UY ₂	1993 10 23.64931	00 44 27.92	-21 15 37.8	413
1993 UC	1993 10 26.71257	00 42 40.10	-27 41 29.0	b 413	1993 UY ₂	1993 10 27.54306	00 41 14.24	-20 44 27.6	413
1993 UC	1993 10 27.42861	00 41 36.57	-27 58 10.4	413	1993 UY ₂	1993 10 27.54646	00 41 14.07	-20 44 25.9	413
1993 UC	1993 10 27.43064	00 41 36.37	-27 58 13.4	413	1993 UZ ₂	* 1993 10 21.63981	02 43 25.00	-35 16 04.4	17 V 413
1993 UC	1993 10 27.64701	00 41 16.08	-28 03 09.1	413	1993 UZ ₂	1993 10 21.68148	02 43 21.71	-35 15 49.5	413
1993 UC	1993 10 27.64918	00 41 15.88	-28 03 12.1	413	1993 UZ ₂	1993 10 23.68819	02 40 44.21	-35 03 14.2	413
1993 UC	1993 10 27.70196	00 41 11.06	-28 04 24.0	413	1993 UZ ₂	1993 10 25.74248	02 38 00.64	-34 47 47.7	b 413
1993 UC	1993 10 27.70369	00 41 10.90	-28 04 26.3	413	1993 UZ ₂	1993 10 26.71812	02 36 42.34	-34 39 34.5	413
1993 UC	1993 11 05.43223	00 28 47.62	-31 01 00.7	413	1993 UZ ₂	1993 10 26.72090	02 36 42.11	-34 39 32.8	413
1993 UC	1993 11 14.47176	00 18 18.65	-33 12 36.2	413	1993 UZ ₂	1993 10 27.65448	02 35 27.17	-34 31 07.7	413
1993 UC	1993 11 20.46663	00 13 17.86	-34 12 20.0	413	1993 UZ ₂	1993 10 27.65631	02 35 27.02	-34 31 06.7	413
1993 UC	1993 11 20.46899	00 13 17.74	-34 12 21.0	413	1993 VA	* 1993 11 07.50465	01 43 32.33	-73 38 14.1	15.5 V 413
1993 UE	* 1993 10 20.59444	00 43 13.31	-21 57 43.8	17 V 413	1993 VA	1993 11 07.53938	01 43 25.78	-73 42 18.6	413
1993 UE	1993 10 20.63264	00 43 11.92	-21 57 39.9	413	1993 VA	1993 11 09.42251	01 39 10.95	-77 29 14.1	16 V 413
1993 UE	1993 10 21.56296	00 42 38.96	-21 55 58.8	b 413	1993 VA	1993 11 09.64907	01 38 04.20	-77 56 48.0	F 413
1993 UE	1993 10 21.62546	00 42 36.79	-21 55 51.2	413	1993 VA	1993 11 09.72858	01 37 43.56	-78 06 06.6	F 413
1993 UE	1993 10 22.55608	00 42 05.02	-21 53 45.5	413	1993 VA	1993 11 09.73557	01 37 41.90	-78 06 54.1	413
1993 UE	1993 10 22.61858	00 42 02.78	-21 53 35.9	413	1993 VA	1993 11 10.46921	01 35 10.48	-79 37 48.0	413
1993 UE	1993 10 23.64931	00 41 29.13	-21 50 51.1	413	1993 VA	1993 11 10.47162	01 35 09.51	-79 38 06.0	413
1993 UE	1993 10 26.69076	00 39 58.81	-21 40 11.6	413	1993 VA	1993 11 14.46505	00 02 00.62	-87 50 56.2	p 413
1993 UE	1993 10 26.69319	00 39 58.78	-21 40 10.8	413	1993 VA	1993 11 19.50345	14 26 31.02	-80 50 49.4	413
1993 UE	1993 10 27.53146	00 39 36.90	-21 36 38.0	413	1993 VA	1993 11 19.50546	14 26 30.52	-80 50 33.5	413
1993 UE	1993 10 27.53373	00 39 36.82	-21 36 37.4	413	1993 VA	1993 11 19.50748	14 26 30.08	-80 50 17.6	413
1993 UF	* 1993 10 20.59444	00 43 27.44	-21 54 48.3	17.5 V 413	1993 VA	1993 11 20.41503	14 21 56.54	-78 51 59.1	413
1993 UF	1993 10 20.63264	00 43 26.05	-21 54 51.4	413	1993 VA	1993 11 20.41677	14 21 56.36	-78 51 45.4	413
1993 UF	1993 10 21.56296	00 42 54.22	-21 56 11.2	V 413	1993 VB	* 1993 11 06.50253	01 14 40.93	-17 51 23.5	18 V 413

1993 VB	1993 11 06.53726	01 14 37.21	-17 52 35.9	413	(5726)	1993 11 04.40897	00 38 54.26	-29 01 12.5	413
1993 VB	1993 11 09.46547	01 09 59.28	-19 35 54.4	413	(5726)	1993 11 04.45064	00 38 52.26	-29 00 47.1	413
1993 VB	1993 11 09.47589	01 09 58.09	-19 36 16.6	413	(5739)	1993 10 21.43076	21 44 11.91	-23 57 42.1	V 413
1993 VB	1993 11 10.47870	01 08 21.00	-20 11 54.5	413	(5739)	1993 10 26.50568	21 45 33.60	-24 08 21.0	413
1993 VB	1993 11 10.48148	01 08 20.69	-20 12 00.2	413	(5739)	1993 10 26.50941	21 45 33.68	-24 08 21.7	413
1993 VB	1993 11 14.48021	01 01 48.93	-22 35 14.2	V 413	(5739)	1993 10 27.47081	21 45 53.76	-24 09 49.7	413
1993 VB	1993 11 14.48634	01 01 48.22	-22 35 28.4	V 413	(5739)	1993 10 27.47531	21 45 53.83	-24 09 50.2	413
1993 VB	1993 11 20.45155	00 51 57.51	-26 13 38.4	413	(5751)	1993 10 26.46949	21 24 39.16	-25 55 02.4	413
1993 VB	1993 11 20.45360	00 51 57.28	-26 13 43.3	413	(5751)	1993 10 26.49130	21 24 39.46	-25 55 00.0	413
1993 VB	1993 11 20.45635	00 51 56.97	-26 13 49.7	413	(5751)	1993 10 26.50207	21 24 39.66	-25 54 58.2	413
1993 VL ₁	1993 10 08.57495	01 20 35.97	-31 36 21.4	17.5 V	413				
1993 VL ₁	1993 10 08.60273	01 20 34.37	-31 36 21.8	413					
1993 VL ₁	* 1993 11 04.40897	00 57 50.07	-29 17 08.0	17.5 V	413				
1993 VL ₁	1993 11 04.45064	00 57 48.49	-29 16 43.9	413					
1993 VM ₁	* 1993 11 05.57936	04 38 56.15	-22 53 40.0	16.5 V	413				
1993 VM ₁	1993 11 05.64186	04 38 54.37	-22 54 50.0	413					
1993 VM ₁	1993 11 14.56185	04 33 30.48	-25 40 43.7	413					
1993 VM ₁	1993 11 20.71943	04 28 30.46	-27 04 16.0	413					
1993 VM ₁	1993 11 20.72192	04 28 30.31	-27 04 17.6	413					
1993 VN ₁	* 1993 11 06.41042	00 02 53.68	-09 06 54.9	17.5 V	413				
1993 VN ₁	1993 11 06.44514	00 02 52.58	-09 06 14.1	413					
1993 VN ₁	1993 11 11.46567	00 01 05.25	-07 27 44.2	413					
1993 VO ₁	* 1993 11 06.50253	01 32 25.46	-14 38 26.8	17 V	413				
1993 VO ₁	1993 11 06.53726	01 32 23.93	-14 39 02.1	413					
1993 VO ₁	1993 11 14.50880	01 27 45.98	-16 39 39.7	413					
1993 VS ₂	* 1993 11 06.59257	03 24 51.66	-27 06 22.3	17 V	V 413				
1993 VS ₂	1993 11 06.65507	03 24 46.13	-27 05 55.6	V 413					
1993 VS ₂	1993 11 09.70199	03 20 31.40	-26 41 59.3	413					
1993 VT ₂	* 1993 11 07.41184	23 28 40.64	-41 17 00.2	17 V	413				
1993 VT ₂	1993 11 07.44656	23 28 42.12	-41 16 14.6	413					
1993 VT ₂	1993 11 11.44062	23 32 03.02	-39 46 34.5	413					
1993 WD	1993 11 20.70840	02 47 58.57	+15 47 18.8	13.0 V	413				
1993 WD	1993 11 20.71179	02 47 53.95	+15 48 01.8	413					
1993 WD	1993 11 22.61130	02 04 44.23	+21 50 23.4	F 413					
1993 WD	1993 11 22.61314	02 04 41.66	+21 50 41.6	F 413					
(434)	1993 11 06.50253	01 21 53.45	-16 49 51.6	413					
(434)	1993 11 06.53726	01 21 52.18	-16 50 07.2	413					
(582)	1988 08 04.51847	20 50 51.60	+00 40 55.7	413					
(582)	1988 08 04.57403	20 50 48.76	+00 40 22.9	413					
(692)	1993 10 20.59444	00 52 22.39	-26 23 51.4	413					
(692)	1993 10 20.63264	00 52 20.55	-26 23 46.2	413					
(1270)	1993 11 06.41042	00 09 56.28	-10 44 56.4	413					
(1270)	1993 11 06.44514	00 09 56.38	-10 44 41.9	413					
(1729)	1993 10 21.47778	00 04 36.55	+00 46 49.0	413					
(1729)	1993 10 21.54028	00 04 33.91	+00 46 38.4	413					
(2062)	1993 10 27.69444	06 20 44.53	-49 08 55.5	413					
(2898)	1993 11 06.50253	01 19 46.40	-15 20 10.2	413					
(2898)	1993 11 06.53726	01 19 44.99	-15 20 06.6	413					
(3753)	1993 10 27.67492	04 56 39.32	-56 05 06.4	413					
(3753)	1993 10 27.67647	04 56 39.37	-56 05 12.4	413					
(5645)	1993 10 27.43498	20 02 31.17	-36 05 05.2	413					
(5645)	1993 10 27.43802	20 02 31.56	-36 05 02.1	413					
474 Mount John									
A. C. Gilmore, P.O. Box 57, Lake Tekapo, New Zealand									
Observer A. C. Gilmore									
Measurer P. M. Kilmartin									
0.6-m <i>f</i> /14 Cassegrain reflector									
SAOC, CPZ, field plates from Carter Observatory									
1993 UC	1993 10 25.65468	00 44 15.93	-27 16 20.2	17.5	474				
1993 UC	1993 10 25.66938	00 44 14.63	-27 16 40.9	474					
1993 VB	1993 11 13.44324	01 03 30.81	-21 57 48.9	474					
1993 VB	1993 11 13.47264	01 03 27.61	-21 58 51.6	474					
1993 VB	1993 11 14.45354	01 01 51.04	-22 34 11.0	18.8	474				
1993 VB	1993 11 14.47686	01 01 48.50	-22 34 59.5	474					
540 Linz									
E. Meyer, F. Marklstrasse 1/62, A-4040 Linz, Austria									
Observers E. Meyer, E. Obermair, H. Raab									
0.30-m <i>f</i> /5.2 Schmidt Cassegrain + CCD									
GSC									
1993 UH	1993 11 13.83704	01 29 00.50	+13 24 37.3	17.9 R	540				
1993 UH	1993 11 13.85350	01 29 00.02	+13 24 20.8	17.6 R	540				
1993 UH	1993 11 13.86438	01 28 59.83	+13 24 11.0	17.9 R	540				
1993 UH	1993 11 13.87537	01 28 59.52	+13 24 00.2	17.6 R	540				
1993 UH	1993 11 14.00672	01 28 56.43	+13 21 56.1	17.6 R	540				
1993 UH	1993 11 14.01785	01 28 56.29	+13 21 47.7	17.9 R	540				
1993 UH	1993 11 17.94890	01 27 40.51	+12 21 27.3	17.6 R	540				
1993 UH	1993 11 17.96137	01 27 40.31	+12 21 17.4	540					
1993 UH	1993 11 17.97713	01 27 39.98	+12 21 02.5	540					
1993 UH	1993 11 17.98802	01 27 39.81	+12 20 53.8	540					
1993 UH	1993 11 18.79950	01 27 27.25	+12 08 51.7	17.7 R	540				
1993 UH	1993 11 18.81054	01 27 27.06	+12 08 42.3	540					
1993 UH	1993 11 18.82767	01 27 26.78	+12 08 27.8	540					
1993 UH	1993 11 18.83891	01 27 26.51	+12 08 17.0	540					
557 Ondřejov									
P. Pravec, Astronomical Institute, Czech Academy of Sciences, CS-25165 Ondřejov,									
Czech Republic									
Observers P. Pravec, M. Varady									
Measurer P. Pravec									
0.18-m <i>f</i> /5.6 Maksutov + CCD, 0.65-m <i>f</i> /3.6 reflector + CCD									
1993 UB	1993 11 19.96034	23 50 47.18	+26 39 57.6	16.6 V	557				
1993 UB	1993 11 19.96529	23 50 46.84	+26 40 15.3	16.6 V	557				
1993 UB	1993 11 19.96935	23 50 46.58	+26 40 29.8	16.7 V	557				

1993 UB	1993 11 19.97312	23 50 46.34	+26 40 43.4	16.7 V	557
1993 VW	1993 11 19.02418	02 33 16.23	+14 48 45.6	16.5 V	T 557
1993 VW	1993 11 19.02606	02 33 16.00	+14 48 42.3		T 557
1993 VW	1993 11 19.03029	02 33 15.48	+14 48 35.3		T 557
1993 VW	1993 11 19.03150	02 33 15.34	+14 48 33.7	16.5 V	T 557
1993 VW	1993 11 19.98848	02 31 19.37	+14 22 56.4	16.7 V	557
1993 VW	1993 11 19.99448	02 31 18.61	+14 22 46.4		557
1993 VW	1993 11 19.99878	02 31 18.07	+14 22 39.5		557
1993 VW	1993 11 20.00001	02 31 17.92	+14 22 37.7	16.7 V	557

565 Bassano Bresciano

U. Quadri, Osservatorio di Bassano Bresciano, Via S. Michele 4, I-25020 Bassano Bresciano (Brescia), Italy

Observers U. Quadri, L. Strabla

0.3-0.4-m $f/3.3$ Schmidt

AGK3, SAOC

1993 TK ₂	1993 11 08.85193	01 26 57.36	+12 59 20.8		565
1993 TK ₂	1993 11 08.87463	01 26 56.53	+12 59 18.0		565
1993 TX ₁₁	1993 10 15.90001	01 50 30.30	+12 19 25.8	16.5	565
1993 TX ₁₁	1993 10 15.92256	01 50 28.66	+12 19 13.1		565
1993 UM	1993 11 15.86041	01 20 28.28	+08 33 25.8	16.5	565
1993 UM	1993 11 15.87775	01 20 27.67	+08 33 29.3		565
(79)	1993 10 15.90001	01 47 06.80	+11 15 56.8		565
(79)	1993 10 15.92256	01 47 05.67	+11 15 45.9		565
(244)	1993 10 15.90001	01 46 22.85	+11 23 51.4		565
(244)	1993 10 15.92256	01 46 21.59	+11 23 41.2		565
(343)	1993 10 15.90001	02 01 13.61	+10 48 44.8		565
(343)	1993 10 15.92256	02 01 12.41	+10 48 43.1		565
(2626)	1993 10 15.90001	01 52 17.06	+12 48 45.5		565
(2626)	1993 10 15.92256	01 52 15.78	+12 48 39.4		565
(4204)	1993 10 15.90001	01 48 43.10	+13 05 55.9		565

587 Sormano

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

Observers P. Sicoli, E. Colzani, P. Ghezzi, C. Gualdoni, M. Cavagna

0.5-m reflector + CCD

PPM, GSC

1993 UB	1993 10 27.84101	00 38 40.23	-02 15 57.8		587
1993 UB	1993 10 27.85791	00 38 37.18	-02 14 35.8		587
1993 UB	1993 10 27.86276	00 38 36.33	-02 14 11.7		587
(5305)	1993 10 27.94375	03 29 16.57	+19 08 41.0	16.5 V	587
(5305)	1993 10 27.97650	03 29 14.69	+19 08 33.9		587
(5305)	1993 10 27.98454	03 29 14.27	+19 08 32.1		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 RH	1993 10 22.90032	23 29 07.71	+01 45 42.5		589
1993 RH	1993 10 22.91514	23 29 07.28	+01 45 47.3		589
1993 RH	1993 10 22.96360	23 29 05.87	+01 46 02.3		589
1993 RH	1993 10 23.84531	23 28 43.00	+01 50 39.3		589

1047 T-1	1993 10 22.90032	23 29 07.14	+01 50 20.7		589
1047 T-1	1993 10 22.91514	23 29 06.77	+01 50 15.3		589
1047 T-1	1993 10 22.96360	23 29 05.58	+01 49 58.0		589
1047 T-1	1993 10 23.83046	23 28 46.43	+01 44 51.2		589
1047 T-1	1993 10 23.84531	23 28 46.08	+01 44 46.1		589

595 Farra d'Isonzo

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

Observers L. Bittesini, W. Boschin, F. Bressan, G. Lombardi, E. Pettarin,

G. Panterotto, F. Piani, A. Toso, F. Damonte

Measurers E. Pettarin, A. Toso

0.4-m $f/4.5$ reflector + CCD

GSC

1969 TR ₁	1993 11 19.89203	03 19 35.99	+21 54 43.1		595
1969 TR ₁	1993 11 19.90344	03 19 35.18	+21 54 40.4		595
1986 RS ₁	1993 10 19.93469	01 37 52.86	+01 22 06.5		595
1986 RS ₁	1993 10 19.94896	01 37 52.10	+01 22 00.5		595
1993 SG ₃	1993 10 19.85811	23 36 58.39	-04 21 00.2		595
1993 SG ₃	1993 10 19.87256	23 36 57.93	-04 21 03.4		595
1993 SG ₃	1993 10 19.88637	23 36 57.57	-04 21 08.9		595
1993 UD ₁	* 1993 10 26.86229	02 01 00.77	+04 54 03.2	18 V	595
1993 UD ₁	1993 10 26.94473	02 00 55.54	+04 53 51.1		595
1993 UD ₁	1993 10 26.95868	02 00 54.62	+04 53 49.2		595
1993 UD ₁	1993 10 26.97314	02 00 53.58	+04 53 47.4		595
1993 UD ₁	1993 10 27.93372	01 59 53.14	+04 51 43.1		595
1993 UD ₁	1993 10 27.95212	01 59 52.10	+04 51 40.2		595
1993 UD ₁	1993 10 27.99811	01 59 49.24	+04 51 34.7		595
1993 UD ₁	1993 11 15.95764	01 42 47.59	+04 36 37.6		595
1993 UD ₁	1993 11 15.97228	01 42 47.06	+04 36 39.2		595
1993 UD ₁	1993 11 15.98604	01 42 46.47	+04 36 39.8		595
1993 UD ₁	1993 11 16.81996	01 42 12.99	+04 37 17.2		595
1993 UD ₁	1993 11 16.83190	01 42 12.46	+04 37 17.3		595
1993 UE ₁	* 1993 10 26.89931	02 00 37.75	+05 05 57.6	16.5 V	595
1993 UE ₁	1993 10 26.91324	02 00 36.94	+05 05 58.5		595
1993 UE ₁	1993 10 26.92620	02 00 36.26	+05 05 59.4		595
1993 UE ₁	1993 10 27.84953	01 59 43.99	+05 07 07.8		595
1993 UE ₁	1993 10 27.86369	01 59 43.25	+05 07 10.3		595
1993 UE ₁	1993 10 27.87844	01 59 42.30	+05 07 12.7		595
1993 UE ₁	1993 11 15.83148	01 43 42.45	+05 46 53.3		595
1993 UE ₁	1993 11 15.84537	01 43 41.89	+05 46 56.4		595
1993 UE ₁	1993 11 15.85926	01 43 41.28	+05 46 59.2		595
1993 UE ₁	1993 11 16.76539	01 43 04.45	+05 49 44.1		595
1993 UE ₁	1993 11 16.77928	01 43 03.90	+05 49 47.1		595
1993 UE ₁	1993 11 16.79443	01 43 03.27	+05 49 49.6	17.5 V	595
1993 WA	* 1993 11 16.76539	01 42 56.82	+05 47 43.2		595
1993 WA	1993 11 16.77928	01 42 56.32	+05 47 36.0		595
1993 WA	1993 11 16.79443	01 42 55.90	+05 47 28.9	17.5 V	595
1993 WA	1993 11 17.88819	01 42 25.66	+05 38 29.1		595
1993 WA	1993 11 17.90119	01 42 25.32	+05 38 22.5		595
1993 WA	1993 11 17.91591	01 42 24.91	+05 38 14.9		595
1993 WB	1993 11 19.89203	03 20 04.73	+21 50 46.3		595
1993 WB	1993 11 19.90344	03 20 03.97	+21 50 43.9		595

(1465)	1993 10 19.93469	01 38 35.20	+01 18 54.5	595	1993 TJ ₂	1993 10 22.87347	01 42 47.87	+10 04 20.4	596
(1465)	1993 10 19.94896	01 38 34.62	+01 18 49.5	595	1993 WB	* 1993 11 16.82021	03 23 21.52	+22 01 42.9	596
596 Colleverde di Guidonia					1993 WB	1993 11 16.85819	03 23 19.06	+22 01 35.7	596
V. S. Casulli, Via M. Rosa 1, I-00010 Colleverde di Guidonia (RM), Italy					1993 WB	1993 11 16.86972	03 23 18.28	+22 01 33.3	596
0.31-m <i>f</i> /2.8 Baker-Schmidt + CCD					1993 WB	1993 11 17.78930	03 22 19.46	+21 58 21.6	596
GSC					1993 WB	1993 11 17.84083	03 22 16.08	+21 58 09.7	596
1934 GA	1993 11 15.91062	05 26 34.61	+24 53 52.7	596	1993 WB	1993 11 17.86868	03 22 14.22	+21 58 02.5	596
1934 GA	1993 11 15.93986	05 26 33.16	+24 54 12.1	596	1993 WB	1993 11 20.78167	03 19 08.59	+21 47 28.4	596
1934 GA	1993 11 15.95410	05 26 32.46	+24 54 21.7	596	1993 WB	1993 11 20.81007	03 19 06.63	+21 47 21.9	596
1969 TR ₁	1993 11 16.82021	03 23 05.27	+22 06 38.7	596	1993 WB	1993 11 20.82951	03 19 05.50	+21 47 17.0	596
1969 TR ₁	1993 11 16.85819	03 23 02.54	+22 06 30.2	596	1993 WB	1993 11 20.85035	03 19 04.16	+21 47 12.9	596
1969 TR ₁	1993 11 16.86972	03 23 01.75	+22 06 27.7	596	1993 WB	1993 11 22.81118	03 17 01.26	+21 39 46.3	596
1969 TR ₁	1993 11 17.78930	03 21 58.54	+22 02 56.0	596	1993 WB	1993 11 22.83125	03 17 00.03	+21 39 43.9	596
1969 TR ₁	1993 11 17.84083	03 21 54.85	+22 02 44.5	596	1993 WB	1993 11 22.84312	03 16 59.21	+21 39 40.4	596
1969 TR ₁	1993 11 17.86868	03 21 52.88	+22 02 37.8	596	1993 WB	1993 11 22.84812	03 16 58.94	+21 39 40.1	596
1969 TR ₁	1993 11 20.78167	03 18 37.39	+21 51 10.8	596	1993 WF	* 1993 11 20.78167	03 19 35.95	+21 59 46.2	16.2 V 596
1969 TR ₁	1993 11 20.81007	03 18 35.44	+21 51 05.3	596	1993 WF	1993 11 20.81007	03 19 34.16	+21 59 36.2	596
1969 TR ₁	1993 11 20.82951	03 18 34.12	+21 51 00.6	596	1993 WF	1993 11 20.82951	03 19 33.00	+21 59 26.8	596
1969 TR ₁	1993 11 20.85035	03 18 32.71	+21 50 55.6	596	1993 WF	1993 11 20.85035	03 19 31.57	+21 59 15.5	596
1969 TR ₁	1993 11 22.81118	03 16 26.25	+21 43 05.8	596	1993 WF	1993 11 22.81118	03 17 37.47	+21 45 06.1	596
1969 TR ₁	1993 11 22.83125	03 16 24.97	+21 43 01.5	596	1993 WF	1993 11 22.83125	03 17 35.84	+21 44 57.1	596
1969 TR ₁	1993 11 22.84312	03 16 24.16	+21 42 58.1	596	1993 WF	1993 11 22.84312	03 17 34.94	+21 44 54.3	596
1969 TR ₁	1993 11 22.84812	03 16 23.85	+21 42 56.4	596	1993 WF	1993 11 22.84812	03 17 34.82	+21 44 52.1	596
1972 RU ₁	1993 10 22.89597	02 58 49.33	+15 29 05.0	596	(899)	1993 10 19.94317	03 47 22.26	+28 57 07.8	596
1972 RU ₁	1993 10 22.91906	02 58 47.95	+15 28 55.3	596	(899)	1993 10 19.95408	03 47 21.93	+28 57 03.9	596
1972 RU ₁	1993 10 22.92473	02 58 47.66	+15 28 54.3	596	(899)	1993 10 20.91974	03 46 53.06	+28 52 24.0	596
1981 SN	1993 11 11.87884	04 03 42.23	+17 25 04.5	596	(899)	1993 10 20.95200	03 46 51.98	+28 52 15.1	596
1981 SN	1993 11 11.90986	04 03 40.54	+17 24 55.0	596	(899)	1993 10 22.94198	03 45 47.37	+28 42 00.7	596
1982 UJ ₇	1993 11 16.92597	05 12 34.87	+20 21 22.8	596	(2773)	1993 11 10.91315	04 49 40.06	+17 59 51.5	596
1982 UJ ₇	1993 11 16.94222	05 12 34.11	+20 21 21.7	596	(2773)	1993 11 10.93689	04 49 38.87	+17 59 51.5	596
1987 SZ ₆	1993 11 22.75319	02 37 19.94	+25 54 20.7	596	(4888)	1993 11 10.94907	04 49 38.26	+17 59 50.7	596
1987 SZ ₆	1993 11 22.78042	02 37 18.76	+25 54 08.8	596	(4888)	1993 11 11.79462	01 29 17.56	+09 27 39.5	596
1987 SZ ₆	1993 11 22.79590	02 37 18.05	+25 54 03.0	596	(5701)	1993 11 11.81053	01 29 16.59	+09 27 38.0	596
1988 KC	1993 11 10.91315	04 48 50.19	+17 58 51.1	596	(5701)	1993 11 09.80563	02 35 39.52	+17 04 39.3	596
1988 KC	1993 11 10.93689	04 48 48.80	+17 58 42.4	596	(5719)	1993 11 09.83640	02 35 37.69	+17 04 38.8	596
1988 QD ₁	1993 11 15.81722	03 46 55.27	+25 40 16.9	596	(5719)	1993 09 23.82495	00 22 52.73	+09 07 40.7	596
1988 QD ₁	1993 11 15.84035	03 46 53.71	+25 40 01.8	596	(5719)	1993 09 23.85208	00 22 50.97	+09 07 34.8	596
1988 QD ₁	1993 11 15.86049	03 46 52.37	+25 39 51.8	596	(5745)	1993 09 23.86677	00 22 50.05	+09 07 32.3	596
1988 QD ₁	1993 11 15.88090	03 46 51.03	+25 39 39.2	596	(5745)	1993 11 10.82133	03 39 00.71	+24 49 38.9	596
1989 TT ₁	1993 11 13.92090	05 16 44.49	+19 28 59.1	596	(5745)	1993 11 10.85146	03 38 58.61	+24 49 41.3	596
1989 TT ₁	1993 11 13.94743	05 16 43.43	+19 28 51.5	596	(5745)	1993 11 10.88028	03 38 56.70	+24 49 43.8	596
1989 TT ₁	1993 11 13.95611	05 16 43.01	+19 28 50.4	596	597 Springe				
1993 SG	1993 11 09.72867	00 38 35.55	+10 54 15.2	596	N. Ehring, Detmoldstrasse 8, D-30171 Hannover, Germany				
1993 SG	1993 11 09.77827	00 38 34.81	+10 54 12.0	596	(75)	1993 09 19.92227	00 27 26.58	+03 27 28.0	597
1993 SG	1993 11 10.74785	00 38 22.97	+10 53 28.5	596	(75)	1993 09 19.92841	00 27 26.31	+03 27 27.9	597
1993 SG	1993 11 11.72535	00 38 13.49	+10 52 56.0	596	(189)	1993 09 19.89433	00 20 17.20	+05 42 49.7	597
1993 SG	1993 11 11.74542	00 38 13.37	+10 52 54.9	596	(189)	1993 09 19.90545	00 20 16.63	+05 42 45.0	597
1993 TD	1993 11 09.74981	00 32 51.48	+12 22 04.8	596	(295)	1993 08 24.95038	23 39 13.43	+02 07 26.8	597
1993 TD	1993 11 09.77160	00 32 50.71	+12 22 09.2	596	(295)	1993 08 24.95459	23 39 13.27	+02 07 26.2	597
1993 TD	1993 11 11.76049	00 32 01.18	+12 25 36.1	596	(295)	1993 09 17.86405	23 20 57.96	+00 28 40.7	597
1993 TD	1993 11 11.77222	00 32 00.67	+12 25 37.1	596	(295)	1993 09 17.87293	23 20 57.58	+00 28 38.2	597
1993 TJ ₂	1993 10 22.85474	01 42 48.76	+10 04 25.4	596	(295)	1993 09 18.84041	23 20 09.97	+00 23 42.3	597

(295)	1993 09 18.85347	23 20 09.30	+00 23 37.8	597
(295)	1993 09 19.87016	23 19 19.28	+00 18 29.9	597
(295)	1993 09 19.88306	23 19 18.69	+00 18 25.6	597
(577)	1993 09 18.86498	00 07 44.39	+05 34 18.5	597
(577)	1993 09 18.87854	00 07 43.70	+05 34 16.2	597
(714)	1993 08 24.90562	22 56 59.03	+16 22 47.1	597
(714)	1993 08 24.91428	22 56 58.63	+16 22 46.1	597
(849)	1993 08 24.92442	23 48 58.99	+23 59 47.0	597
(849)	1993 08 24.93546	23 48 58.64	+23 59 45.6	597
(1187)	1993 09 17.92009	23 51 20.67	+10 27 09.7	597
(1187)	1993 09 17.92903	23 51 20.10	+10 27 09.9	597

657 Victoria, Climenhaga Observatory

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

Observers J. B. Tatum, D. D. Balam

Measurer D. D. Balam

0.5-m reflector + CCD

1978 VE ₉	1993 11 18.39934	04 34 08.43	+23 14 05.9	657
1978 VE ₉	1993 11 18.40508	04 34 08.06	+23 14 04.9	657
1978 VE ₉	1993 11 18.40797	04 34 07.92	+23 14 04.4	657
1981 EJ ₄₀	1993 10 20.46994	06 26 53.18	+69 51 51.5	657
1981 EJ ₄₀	1993 10 20.47271	06 26 53.63	+69 51 55.3	657
1981 EJ ₄₀	1993 10 20.47623	06 26 54.41	+69 51 57.3	657
1986 QN ₃	1993 11 18.35037	04 25 05.68	+19 24 33.4	657
1986 QN ₃	1993 11 18.35579	04 25 05.30	+19 24 32.7	657
1986 QN ₃	1993 11 18.36015	04 25 05.01	+19 24 32.6	657
1988 DO ₁	1993 11 18.34230	04 25 56.37	+13 08 39.9	657
1988 DO ₁	1993 11 18.34619	04 25 56.01	+13 08 39.1	657
1988 DO ₁	1993 11 18.34780	04 25 56.01	+13 08 37.9	657
1993 MF	1993 11 18.21839	00 51 30.08	+12 39 57.6	657
1993 MF	1993 11 18.21993	00 51 30.22	+12 39 57.0	657
1993 MF	1993 11 18.22493	00 51 30.48	+12 39 54.2	657
1993 OD	1993 10 20.20817	20 09 40.94	-01 19 23.4	657
1993 OD	1993 10 20.21299	20 09 41.36	-01 19 21.7	657
1993 OD	1993 10 20.21972	20 09 41.83	-01 19 18.2	657
1993 QP	1993 10 26.30604	00 12 27.19	+29 24 38.6	657
1993 QP	1993 10 26.30818	00 12 27.38	+29 24 36.5	657
1993 RR	1993 10 26.33176	01 33 18.11	+18 43 09.8	657
1993 RR	1993 10 26.33369	01 33 18.01	+18 43 10.5	657
1993 RR	1993 10 26.33725	01 33 17.77	+18 43 11.6	657
1993 VW	1993 11 18.24534	02 34 51.41	+15 09 18.4	657
1993 VW	1993 11 18.24675	02 34 51.18	+15 09 16.6	657
1993 VW	1993 11 18.24797	02 34 51.05	+15 09 14.7	657
(407)	1993 11 11.29288	03 27 13.16	+30 07 30.3	657
(407)	1993 11 11.32413	03 27 11.14	+30 07 22.1	657
(407)	1993 11 14.22951	03 24 12.86	+29 53 36.3	657
(407)	1993 11 14.31719	03 24 07.50	+29 53 11.1	657
(407)	1993 11 18.22778	03 20 07.85	+29 32 26.3	657
(803)	1993 11 18.39934	04 34 34.27	+23 12 09.8	657
(803)	1993 11 18.40508	04 34 33.99	+23 12 08.9	657
(803)	1993 11 18.40797	04 34 33.84	+23 12 08.3	657
(803)	1993 11 18.41397	04 34 33.54	+23 12 06.6	657

(5720)	1993 10 26.41510	03 40 41.12	+17 21 10.3	657
(5720)	1993 10 26.41706	03 40 40.97	+17 21 11.4	657
(5720)	1993 10 26.42141	03 40 40.66	+17 21 14.8	657

658 Dominion Astrophysical Observatory, Victoria

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BC V8W 2Y2, Canada

Observers D. D. Balam, J. B. Tatum, G. C. L. Aikman

Measurer D. D. Balam

1.82-m Plaskett telescope + CCD

GSC

1980 RG ₁	1993 11 08.38334	02 32 17.05	+17 55 52.7	658
1980 RG ₁	1993 11 08.38606	02 32 16.96	+17 55 51.1	658
1980 RG ₁	1993 11 08.38917	02 32 16.84	+17 55 49.1	658
1991 WA	1993 11 23.39443	04 00 52.38	-09 52 35.6	658
1991 WA	1993 11 23.39679	04 00 51.15	-09 52 11.8	658
1991 WA	1993 11 23.39872	04 00 50.13	-09 51 51.5	658
1992 BB	1993 11 07.19316	23 14 48.95	+01 25 59.7	658
1992 BB	1993 11 07.19674	23 14 48.92	+01 25 54.4	658
1992 BB	1993 11 07.20039	23 14 48.91	+01 25 50.4	658
1992 HE	1993 11 23.49875	08 39 34.77	+64 13 40.9	658
1992 HE	1993 11 23.50429	08 39 34.66	+64 13 45.1	658
1992 HE	1993 11 23.51008	08 39 34.61	+64 13 49.4	658
1992 HE	1993 11 25.47200	08 38 52.02	+64 38 30.3	658
1992 HE	1993 11 25.47795	08 38 51.90	+64 38 34.5	658
1992 HE	1993 11 25.48363	08 38 51.74	+64 38 38.0	658
1992 HE	1993 11 25.48885	08 38 51.61	+64 38 42.9	658
1992 JB	1993 11 23.52295	08 23 00.57	-08 20 58.3	658
1992 JB	1993 11 23.52696	08 23 01.23	-08 21 10.1	658
1992 JB	1993 11 23.53139	08 23 01.89	-08 21 21.5	658
1993 NH	1993 11 07.12687	19 59 15.92	+04 19 27.4	658
1993 NH	1993 11 07.12964	19 59 16.36	+04 19 27.4	658
1993 NH	1993 11 07.13234	19 59 16.79	+04 19 27.5	658
1993 NH	1993 11 07.14014	19 59 18.02	+04 19 27.5	658
1993 NH	1993 11 08.09547	20 01 49.14	+04 19 43.8	658
1993 NH	1993 11 08.09816	20 01 49.59	+04 19 43.7	658
1993 NH	1993 11 08.10119	20 01 50.03	+04 19 43.9	658
1993 OV ₁	1993 11 07.16220	22 02 13.74	+01 30 22.1	658
1993 OV ₁	1993 11 07.16628	22 02 13.93	+01 30 23.7	658
1993 OV ₁	1993 11 07.17170	22 02 14.46	+01 30 24.5	658
1993 QN	1993 11 08.15961	22 33 18.67	+48 53 44.8	658
1993 QN	1993 11 08.16377	22 33 18.78	+48 53 42.7	658
1993 QN	1993 11 08.16687	22 33 18.83	+48 53 41.3	658
1993 QN	1993 11 08.17103	22 33 18.95	+48 53 39.2	658
1993 QN	1993 11 23.13110	22 46 16.37	+46 49 59.2	658
1993 QN	1993 11 23.13336	22 46 16.62	+46 49 58.1	658
1993 QN	1993 11 23.13581	22 46 16.72	+46 49 57.1	658
1993 QP	1993 11 07.29580	00 29 15.23	+27 09 10.9	658
1993 QP	1993 11 07.29931	00 29 15.53	+27 09 08.6	658
1993 QP	1993 11 07.30241	00 29 15.79	+27 09 06.6	658
1993 RR	1993 11 07.33457	01 24 14.52	+19 25 43.4	658
1993 RR	1993 11 07.33822	01 24 14.38	+19 25 44.0	658
1993 RR	1993 11 07.34101	01 24 14.27	+19 25 44.5	658

1993 RR	1993 11 08.35128	01 23 39.04	+19 28 42.0	658
1993 RR	1993 11 08.35413	01 23 38.94	+19 28 42.4	658
1993 RR	1993 11 08.35795	01 23 38.79	+19 28 43.0	658
1993 RR	1993 11 08.36207	01 23 38.64	+19 28 43.7	658
1993 TQ ₂	1993 11 08.39404	02 39 29.13	+31 22 31.8	658
1993 TQ ₂	1993 11 08.39678	02 39 29.08	+31 22 36.8	658
1993 TS ₂	1993 11 07.32047	01 08 13.49	+10 17 03.3	658
1993 TS ₂	1993 11 07.32684	01 08 13.30	+10 17 01.3	658
1993 TS ₂	1993 11 07.32953	01 08 13.20	+10 16 59.7	658
1993 UB	1993 11 08.19500	00 09 45.91	+13 03 17.7	658
1993 UB	1993 11 08.19745	00 09 45.59	+13 03 29.0	658
1993 UB	1993 11 23.11216	23 47 58.59	+29 42 19.0	658
1993 UB	1993 11 23.11569	23 47 58.39	+29 42 31.5	658
1993 UB	1993 11 23.11946	23 47 58.21	+29 42 43.3	658
1993 VW	1993 11 23.36838	02 24 30.08	+12 49 23.3	658
1993 VW	1993 11 23.37034	02 24 29.84	+12 49 20.1	658
1993 VW	1993 11 23.37288	02 24 29.52	+12 49 15.7	658
1993 WG	1993 11 23.29487	02 26 41.10	+17 51 46.6	658
1993 WG	1993 11 23.29880	02 26 41.08	+17 51 43.8	658
1993 WG	1993 11 23.30748	02 26 40.99	+17 51 37.5	658
4116 P-L	1993 11 23.45782	06 50 43.73	+21 45 10.7	658
4116 P-L	1993 11 23.46227	06 50 43.54	+21 45 10.8	658
4116 P-L	1993 11 23.46597	06 50 43.39	+21 45 10.7	658

670 Camarillo

J. E. Rogers, 441 Rowland Avenue, Camarillo, CA 93010, U.S.A.
0.25-m Schmidt-Cassegrain + CCD
GSC

1991 EO ₁	1993 11 20.28368	02 31 52.05	+08 47 07.9	17.0 V	670
1991 EO ₁	1993 11 20.29444	02 31 51.46	+08 47 04.5		670
1991 EO ₁	1993 11 20.30938	02 31 50.84	+08 47 03.8		670
1991 EO ₁	1993 11 24.16215	02 29 02.09	+08 40 16.0	17.2 V	670
1991 EO ₁	1993 11 24.19340	02 29 00.47	+08 40 11.8		670
1991 EO ₁	1993 11 24.21701	02 28 59.51	+08 40 09.6		670
1993 MF	1993 11 19.12778	00 52 20.16	+12 32 35.6	16.4 V	670
1993 MF	1993 11 19.14241	00 52 20.95	+12 32 29.4		670
1993 MF	1993 11 19.15557	00 52 21.65	+12 32 23.3		670
1993 RR	1993 11 20.20035	01 19 40.80	+20 00 56.8	17.3 V	670
1993 RR	1993 11 20.23438	01 19 40.32	+20 01 03.9		670
1993 RR	1993 11 20.26007	01 19 40.17	+20 01 06.8		670
1993 UB	1993 11 19.24583	23 51 34.00	+25 56 39.6	16.3 V	670
1993 UB	1993 11 19.25139	23 51 33.57	+25 57 00.8		670
1993 UB	1993 11 19.25903	23 51 33.01	+25 57 28.1		670
1993 VW	1993 11 19.18333	02 32 58.08	+14 44 36.2	16.0 V	670
1993 VW	1993 11 19.19028	02 32 57.30	+14 44 25.1		670
1993 VW	1993 11 19.20000	02 32 56.08	+14 44 10.4		670
1993 WD	1993 11 24.10564	01 30 50.49	+25 49 08.4	14.2 V	670
1993 WD	1993 11 24.11259	01 30 41.32	+25 50 08.1		670
1993 WD	1993 11 24.12578	01 30 23.37	+25 52 02.2		670
1993 WD	1993 11 24.14175	01 30 01.63	+25 54 21.4		670
1993 WD	1993 11 24.23759	01 27 51.68	+26 08 00.1		670
1993 WD	1993 11 24.24731	01 27 38.66	+26 09 21.5		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), T. Gehrels (4, L), E. Helin (2, S), H. E. Holt (3, S), C. T. Kowal (6, L), K. Lawrence (2, S), D. H. Levy (3, S), C. M. Olmstead (3, S), J. E. Rogers (2, S), C. S. Shoemaker (3, S), E. M. Shoemaker (3, S), D. Williams (3, S)

Measurers J. Alu (2), J. B. Child (2), K. E. Daniels (6), H. E. Holt (9), K. Lawrence (2), J. E. Rogers (2), C. S. Shoemaker (3), B. A. Skiff (6), P. W. Tracadas (6), C. J. van Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4)

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

1950 FV	1950 03 21.22500	09 28 58.83	+17 46 46.7		6 675
1950 FV	* 1950 03 21.25174	09 28 58.27	+17 46 41.2	17.5	6 675
1952 RR	1952 09 15.26944	00 24 57.10	+03 55 28.3	17.5	6 675
1952 RR	* 1952 09 15.29444	00 24 55.99	+03 55 20.1		6 675
1952 RS	1952 09 15.26944	00 39 50.97	+01 04 01.1	18.0	6 675
1952 RS	* 1952 09 15.29444	00 39 49.63	+01 04 04.7		6 675
1952 RT	1952 09 15.26944	00 40 45.48	+03 20 19.6		6 675
1952 RT	* 1952 09 15.29444	00 40 44.83	+03 20 26.6		6 675
1952 RU	1952 09 15.26944	00 43 04.10	+03 47 48.5	17.2	6 675
1952 RU	* 1952 09 15.29444	00 43 02.61	+03 47 51.3		6 675
1952 RV	1952 09 15.26944	00 36 35.58	+02 37 57.8	17.0	6 675
1952 RV	* 1952 09 15.31180	00 36 33.10	+02 38 04.3		6 675
1953 RU ₁	* 1953 09 06.27868	22 59 37.68	-07 22 02.4	18.5	6 675
1953 RU ₁	1953 09 06.33194	22 59 36.68	-07 22 14.7		6 675
1953 RV ₁	* 1953 09 06.29306	22 50 52.50	-08 26 00.9	18.0	6 675
1953 RV ₁	1953 09 06.32431	22 50 51.10	-08 26 07.3		6 675
1953 RW ₁	* 1953 09 06.30868	22 43 59.31	-06 58 15.2	18.2	6 675
1953 RW ₁	1953 09 06.33194	22 43 57.62	-06 58 10.1		6 675
1953 RX ₁	* 1953 09 06.30868	22 46 53.61	-06 44 06.9		6 675
1953 RX ₁	1953 09 06.33194	22 46 52.16	-06 44 15.6		6 675
1953 RY ₁	* 1953 09 06.30868	22 50 05.03	-07 53 16.2	17.8	6 675
1953 RY ₁	1953 09 06.33194	22 50 03.63	-07 53 28.4		6 675
1953 RZ ₁	* 1953 09 06.30868	22 50 36.05	-08 04 50.4	17.8	6 675
1953 RZ ₁	1953 09 06.33194	22 50 34.89	-08 05 02.4		6 675
1953 RA ₂	* 1953 09 06.30868	22 50 57.03	-07 26 17.9	17.8	6 675
1953 RA ₂	1953 09 06.33194	22 50 55.72	-07 26 23.6		6 675
1953 RB ₂	* 1953 09 06.30868	22 51 02.14	-06 25 15.4	17.8	6 675
1953 RB ₂	1953 09 06.33194	22 51 00.87	-06 25 17.5		6 675
1953 RC ₂	* 1953 09 06.30868	22 51 12.76	-06 19 53.5	17.8	6 675
1953 RC ₂	1953 09 06.33194	22 51 11.52	-06 19 53.2		6 675
1953 RD ₂	* 1953 09 06.30868	22 51 32.79	-07 32 47.1	17.5	6 675
1953 RD ₂	1953 09 06.33194	22 51 31.54	-07 32 57.8		6 675
1953 RE ₂	* 1953 09 06.30868	22 52 50.24	-06 52 56.0	18.0	6 675
1953 RE ₂	1953 09 06.33194	22 52 48.75	-06 52 57.6		6 675
1953 RF ₂	* 1953 09 06.30868	22 54 44.34	-07 28 07.7	18.2	6 675

1953 RF ₂	1953 09 06.33194	22 54 42.79	-07 28 12.4		6 675	1978 SE ₁	1954 11 20.19583	01 14 06.60	-02 36 38.1		6 675
1953 RG ₂	* 1953 09 06.30868	22 57 19.81	-06 27 13.7	18.2	6 675	1978 SE ₁	1954 11 20.21910	01 14 06.25	-02 36 29.7		6 675
1953 RG ₂	1953 09 06.33194	22 57 18.63	-06 27 22.4		6 675	1978 VK ₅	1954 06 30.37326	19 53 29.72	-23 36 48.9		6 675
1953 RH ₂	* 1953 09 06.30868	22 57 35.12	-07 28 00.9	18.0	6 675	1978 VK ₅	1954 06 30.39792	19 53 28.46	-23 36 52.3		6 675
1953 RH ₂	1953 09 06.33194	22 57 33.66	-07 28 01.1		6 675	1978 VK ₅	1993 11 09.18507	00 42 12.63	+06 53 53.7	16.0	2 675
1953 RJ ₂	* 1953 09 06.30868	23 03 00.91	-08 09 58.9	18.2	6 675	1978 VK ₅	1993 11 09.21111	00 42 12.01	+06 53 49.2		2 675
1953 RJ ₂	1953 09 06.33194	23 02 59.46	-08 10 03.0		6 675	1978 VK ₅	1993 11 10.10642	00 41 49.27	+06 51 28.9		2 675
1953 RK ₂	* 1953 09 06.30868	23 03 29.27	-06 35 05.3	18.2	6 675	1978 VK ₅	1993 11 10.12292	00 41 48.90	+06 51 23.9		2 675
1953 RK ₂	1953 09 06.33194	23 03 28.31	-06 35 11.2		6 675	1979 MF	1993 10 13.28333	01 22 42.77	+02 02 25.0		9 675
1953 RL ₂	* 1953 09 06.30868	23 05 37.55	-05 15 31.2	17.5	6 675	1979 MF	1993 10 13.32257	01 22 40.51	+02 02 05.3		9 675
1953 RL ₂	1953 09 06.33194	23 05 35.79	-05 15 28.5		6 675	1979 XQ	1950 03 21.22500	09 25 43.38	+20 11 21.8		6 675
1953 RM ₂	* 1953 09 06.30868	23 06 42.89	-04 50 38.3		6 675	1979 XQ	1950 03 21.25174	09 25 42.80	+20 11 21.1		6 675
1953 RM ₂	1953 09 06.33194	23 06 41.56	-04 50 49.5		6 675	1980 GO	1991 02 13.46319	11 40 28.70	+02 56 55.9		9 675
1953 SP	1953 09 06.30868	23 02 21.76	-07 34 59.8	18.0	6 675	1980 GO	1991 02 13.50677	11 40 27.49	+02 57 04.4		9 675
1953 SP	1953 09 06.33194	23 02 20.76	-07 35 07.0		6 675	1980 RP	1950 03 21.22500	09 26 44.41	+18 30 13.1		6 675
1953 SQ	* 1953 09 17.30521	22 52 56.57	-10 21 07.2		6 675	1980 RP	1950 03 21.25174	09 26 43.70	+18 30 11.1		6 675
1953 SQ	1953 09 17.32847	22 52 55.45	-10 21 11.2		6 675	1980 RP	1955 02 13.26875	07 44 24.74	+34 54 26.8		6 675
1953 SR	* 1953 09 17.30521	23 03 14.16	-10 19 55.4	17.8	6 675	1980 RP	1955 02 13.29375	07 44 23.48	+34 54 21.6		6 675
1953 SR	1953 09 17.32847	23 03 12.68	-10 20 05.1		6 675	1981 EB ₉	1955 02 13.26875	07 38 04.49	+33 37 48.0		6 675
1954 MY	1954 06 30.37326	20 05 54.13	-21 24 42.7		6 675	1981 EB ₉	1955 02 13.29375	07 38 03.18	+33 37 44.8		6 675
1954 MY	* 1954 06 30.39792	20 05 53.04	-21 24 48.1		6 675	1981 EA ₁₂	1991 02 11.27274	12 00 21.43	-03 23 31.1		9 675
1954 WZ	1954 11 20.19166	01 32 20.37	-02 59 30.3		6 675	1981 EY ₁₇	1950 03 21.22500	09 23 34.12	+14 22 57.8		6 675
1954 WE ₁	1954 11 20.19583	01 16 15.51	-07 22 47.8		6 675	1981 EY ₁₇	1950 03 21.25174	09 23 33.67	+14 23 01.1		6 675
1954 WE ₁	* 1954 11 20.21911	01 16 14.83	-07 22 43.3		6 675	1981 EF ₁₈	1993 10 13.37135	01 50 48.50	+07 35 24.7	16.8	9 675
1955 UX ₁	* 1955 10 25.36146	03 24 40.02	+19 40 45.3		6 675	1981 EF ₁₈	1993 10 13.41493	01 50 46.07	+07 35 01.7		9 675
1955 UX ₁	1955 10 25.38333	03 24 39.17	+19 40 37.3		6 675	1981 EF ₁₈	1993 10 15.28611	01 49 10.57	+07 18 44.6		9 675
1964 UP	1954 06 30.37326	20 09 35.38	-21 33 43.0		6 675	1981 ED ₁₉	1952 09 15.26944	00 32 18.26	+02 31 04.0		6 675
1964 UP	1954 06 30.39792	20 09 34.23	-21 33 43.2		6 675	1981 ED ₁₉	1952 09 15.29444	00 32 17.06	+02 30 56.4		6 675
1971 UM	1952 09 15.26944	00 44 20.88	+01 59 42.4		6 675	1981 EH ₁₉	1991 02 11.27274	12 12 10.74	+00 41 04.3		9 675
1971 UM	1952 09 15.29444	00 44 19.74	+01 59 38.9		6 675	1981 EH ₁₉	1991 02 11.30382	12 12 10.26	+00 41 04.9		9 675
1972 TF	1991 02 13.46319	11 31 44.42	+00 53 06.2		9 675	1981 EU ₂₀	1953 09 06.30868	22 49 09.09	-06 27 10.9		6 675
1972 TF	1991 02 13.50677	11 31 42.54	+00 53 23.3		9 675	1981 EU ₂₀	1953 09 06.33194	22 49 07.78	-06 27 19.0		6 675
1973 EK	1991 02 11.27274	12 13 52.69	-02 46 14.3		9 675	1981 EW ₂₄	1993 10 13.37135	01 52 22.63	+08 47 47.0		9 675
1973 EK	1991 02 11.30382	12 13 52.14	-02 46 09.4		9 675	1981 EW ₂₄	1993 10 13.41493	01 52 20.38	+08 47 33.3		9 675
1974 RY ₁	1991 02 13.46319	11 29 39.30	+01 42 39.0		9 675	1981 EW ₂₄	1993 10 15.28611	01 50 51.92	+08 37 45.9		9 675
1974 RY ₁	1991 02 13.50677	11 29 37.48	+01 42 52.1		9 675	1981 QT ₃	1993 10 15.28611	01 47 02.68	+15 13 47.8		9 675
1975 SJ	1991 02 13.46319	11 43 08.93	+06 16 38.4		9 675	1981 SA ₅	1952 09 15.26944	00 31 38.50	+04 00 43.3		6 675
1975 SJ	1991 02 13.50677	11 43 07.39	+06 16 48.8		9 675	1981 SA ₅	1952 09 15.29444	00 31 37.32	+04 00 37.5		6 675
1975 VW ₂	1950 03 21.22500	09 17 52.92	+17 19 10.5		6 675	1982 BM	1953 09 06.30868	22 44 49.38	-04 54 15.5		6 675
1975 VW ₂	1950 03 21.25174	09 17 52.28	+17 19 14.7		6 675	1982 BM	1953 09 06.33194	22 44 48.13	-04 54 20.1		6 675
1976 QR	1991 02 13.46319	11 19 02.74	+04 11 31.5		9 675	1982 JE ₁	1993 10 19.34618	02 13 23.36	+05 11 28.9	15.5	2 675
1976 QR	1991 02 13.50677	11 19 01.04	+04 11 55.6		9 675	1982 JE ₁	1993 10 19.37274	02 13 21.53	+05 11 26.0		2 675
1976 QC ₁	1991 02 13.46319	11 38 43.22	+01 44 24.2		9 675	1982 JE ₁	1993 10 20.33785	02 12 24.26	+05 09 45.0		2 675
1976 QC ₁	1991 02 13.50677	11 38 41.37	+01 44 31.6		9 675	1982 MA	1971 06 28.45735	00 47 05.07	+05 04 29.2		6 675
1977 DS ₄	1954 06 30.37326	20 14 46.87	-25 38 06.9		6 675	1982 MA	1971 06 29.44653	00 48 21.90	+05 12 31.4		6 675
1977 DS ₄	1954 06 30.39792	20 14 45.86	-25 38 12.1		6 675	1982 RW	1991 02 13.50677	11 26 12.30	+02 45 53.5		9 675
1977 RF ₂	1954 12 30.23438	05 02 37.20	+30 33 18.9		6 675	1982 SX ₅	1950 03 21.22500	09 21 06.54	+14 50 39.3		6 675
1977 RF ₂	1954 12 30.25764	05 02 35.75	+30 33 15.3		6 675	1982 SX ₅	1950 03 21.25174	09 21 05.90	+14 50 41.5		6 675
1978 RZ	1993 10 13.28333	01 16 27.06	+03 02 00.8		9 675	1983 RB	1993 09 18.33715	01 27 52.93	-05 16 12.0	17	3 675
1978 RZ	1993 10 13.32257	01 16 25.14	+03 01 48.9		9 675	1983 RB	1993 09 18.37517	01 27 50.73	-05 17 33.1		3 675
1978 RD ₁₀	1991 02 11.27274	12 00 24.44	-00 01 30.8		9 675	1983 VN ₇	1991 02 11.27274	11 59 56.57	+00 56 28.6		9 675
1978 RD ₁₀	1991 02 11.30382	12 00 23.72	-00 01 24.8		9 675	1983 VN ₇	1991 02 11.30382	11 59 55.83	+00 56 35.0		9 675

1984 AR	1971 06 28.45735	00 59 28.50	+05 47 42.3	6 675	1987 QZ ₁	1953 09 06.33194	22 44 02.44	-03 50 59.7	6 675
1984 AR	1971 06 29.44653	01 00 13.57	+05 52 25.1	6 675	1987 QW ₂	1991 02 13.46319	11 29 20.05	+04 59 22.4	9 675
1984 CF	1954 11 20.19583	01 21 33.97	-05 12 40.6	6 675	1987 RJ	1956 03 10.36875	12 23 04.45	+02 26 26.2	6 675
1984 CF	1954 11 20.21910	01 21 33.36	-05 12 36.3	6 675	1987 RJ	1956 03 10.38211	12 23 03.81	+02 26 31.2	6 675
1984 DZ	1953 09 06.30868	23 02 04.88	-06 50 10.1	6 675	1987 RY	1991 02 11.27274	11 57 09.31	+00 50 19.5	9 675
1984 DZ	1953 09 06.33194	23 02 03.34	-06 50 13.8	6 675	1987 RC ₁	1991 02 11.30382	11 54 27.72	+01 57 28.0	9 675
1984 UX ₂	1955 02 13.26875	07 30 19.19	+38 09 00.8	6 675	1987 RQ ₂	1955 10 25.35972	03 22 40.99	+16 35 46.3	6 675
1984 UX ₂	1955 02 13.29375	07 30 18.18	+38 08 56.7	6 675	1987 RQ ₂	1955 10 25.38333	03 22 39.75	+16 35 46.0	6 675
1984 UX ₂	1956 03 10.36875	12 28 00.29	+02 01 56.9	6 675	1988 AE ₅	1954 11 20.19583	01 28 52.56	-04 12 58.7	6 675
1984 UX ₂	1956 03 10.38993	12 27 59.13	+02 01 58.9	6 675	1988 AE ₅	1954 11 20.21910	01 28 51.96	-04 13 00.4	6 675
1985 CH ₁	1950 03 21.22500	09 11 49.38	+20 37 09.2	6 675	1988 GD	1993 09 16.38941	01 02 07.19	-02 19 11.6	17.0 2 675
1985 CH ₁	1950 03 21.25174	09 11 49.22	+20 37 05.3	6 675	1988 GD	1993 09 16.41892	01 02 05.71	-02 19 25.2	2 675
1985 CS ₁	1993 10 13.28333	01 27 26.26	+05 01 16.8	9 675	1988 LB	1993 10 19.33299	01 40 29.77	+29 30 43.7	16.0 2 675
1985 CS ₁	1993 10 13.32257	01 27 23.93	+05 00 58.9	9 675	1988 LB	1993 10 19.36042	01 40 28.08	+29 30 32.8	2 675
1985 CS ₁	1993 10 15.25833	01 25 30.98	+04 46 29.2	9 675	1988 LB	1993 10 21.29045	01 38 35.59	+29 17 25.2	2 675
1985 QA ₁	1993 10 13.37135	01 44 17.42	+11 29 15.0	9 675	1988 LB	1993 10 21.31372	01 38 34.21	+29 17 15.7	2 675
1985 QA ₁	1993 10 13.41493	01 44 15.02	+11 28 54.4	9 675	1988 LB	1993 11 09.28698	01 22 10.91	+26 36 13.9	16.5 2 675
1985 QA ₁	1993 10 15.28611	01 42 36.34	+11 13 38.8	9 675	1988 LB	1993 11 09.30764	01 22 09.81	+26 36 01.7	2 675
1985 QA ₁	1993 10 19.30191	01 39 01.28	+10 40 22.3	16.0 2 675	1988 LH	1956 05 08.26771	13 36 31.33	-14 09 09.0	6 675
1985 QA ₁	1993 10 19.32639	01 38 59.79	+10 40 11.3	2 675	1988 LH	1956 05 08.28854	13 36 30.64	-14 08 59.3	6 675
1985 QA ₁	1993 10 21.30156	01 37 13.78	+10 23 37.3	2 675	1988 PG ₁	1991 02 10.47865	11 37 14.34	-07 08 55.8	9 675
1985 QA ₁	1993 10 21.32674	01 37 12.32	+10 23 24.9	2 675	1988 PG ₁	1991 02 10.53073	11 37 12.39	-07 08 59.9	9 675
1985 RU ₂	1950 03 21.22500	09 30 51.40	+17 36 56.5	6 675	1988 RS ₄	1991 02 13.46319	11 39 34.40	+02 36 54.1	9 675
1985 RU ₂	1950 03 21.25174	09 30 50.67	+17 36 55.2	6 675	1988 RS ₄	1991 02 13.50677	11 39 32.98	+02 37 03.1	9 675
1985 TA ₂	1954 12 30.23438	04 46 59.38	+31 41 32.6	6 675	1988 RD ₅	1954 06 30.37326	19 53 18.25	-23 20 23.3	6 675
1985 TA ₂	1954 12 30.25764	04 46 58.35	+31 41 25.6	6 675	1988 RD ₅	1954 06 30.39792	19 53 17.11	-23 20 26.9	6 675
1986 AA ₂	1993 10 13.28333	01 29 21.35	-00 18 12.2	9 675	1988 RU ₆	1991 02 13.46319	11 28 45.15	+01 26 25.6	9 675
1986 AA ₂	1993 10 13.32257	01 29 19.31	-00 18 25.1	9 675	1988 RU ₆	1991 02 13.50677	11 28 43.64	+01 26 34.8	9 675
1986 AA ₂	1993 10 15.25833	01 27 42.21	-00 28 21.6	9 675	1988 RF ₉	1950 03 21.22500	09 33 00.80	+18 17 19.5	6 675
1986 CP ₁	1954 12 30.23438	04 53 06.64	+27 20 17.2	6 675	1988 RF ₉	1950 03 21.25174	09 32 59.99	+18 17 22.8	6 675
1986 CP ₁	1954 12 30.25764	04 53 05.53	+27 20 15.1	6 675	1988 VD ₁	1953 09 17.30521	23 06 03.41	-10 07 16.8	6 675
1986 CD ₂	1954 12 30.23438	04 49 34.58	+33 28 33.2	6 675	1988 VD ₁	1953 09 17.32847	23 06 02.01	-10 07 16.5	6 675
1986 CD ₂	1954 12 30.25764	04 49 33.39	+33 28 29.3	6 675	1989 JF	1993 10 20.38247	02 56 18.80	+21 42 46.6	16.5 2 675
1986 PX ₄	1971 06 29.44653	00 47 32.19	+04 03 10.2	6 675	1989 JF	1993 10 20.40243	02 56 17.63	+21 42 47.1	2 675
1986 QQ	1950 03 21.22500	09 30 49.74	+17 36 27.8	6 675	1989 JF	1993 11 10.27517	02 32 05.78	+20 34 25.3	16.5 2 675
1986 QQ	1950 03 21.25174	09 30 49.15	+17 36 23.6	6 675	1989 JF	1993 11 10.29774	02 32 04.11	+20 34 19.0	2 675
1986 QR ₃	1955 10 25.35972	03 10 00.83	+19 40 48.9	6 675	1989 NO	1993 10 20.32049	02 25 05.38	+19 38 01.7	16.5 2 675
1986 QR ₃	1955 10 25.38333	03 09 59.31	+19 40 46.5	6 675	1989 NO	1993 10 20.35625	02 25 03.18	+19 37 55.2	2 675
1986 RV ₂	1993 10 13.37135	01 54 32.18	+09 11 00.2	9 675	1989 NO	1993 10 21.35451	02 23 57.91	+19 34 45.1	2 675
1986 RV ₂	1993 10 13.41493	01 54 29.47	+09 10 38.4	9 675	1989 NO	1993 11 10.27517	02 02 17.45	+18 12 54.5	16.5 2 675
1986 RV ₂	1993 10 15.28611	01 52 40.69	+08 55 40.5	9 675	1989 NO	1993 11 10.29774	02 02 16.03	+18 12 46.1	2 675
1986 UG	1991 02 13.46319	11 46 10.62	+03 41 39.3	9 675	1989 SP	1993 10 16.13299	22 45 57.41	+00 39 57.9	16.0 2 675
1986 UG	1991 02 13.50677	11 46 08.84	+03 41 54.9	9 675	1989 SP	1993 10 16.21111	22 45 57.65	+00 39 14.4	2 675
1986 UQ	1991 02 10.47865	11 33 06.52	-00 50 26.4	9 675	1989 SP	1993 10 19.13351	22 46 23.48	+00 13 06.3	2 675
1986 UQ	1991 02 10.53073	11 33 04.44	-00 50 15.9	9 675	1989 SP	1993 10 19.15538	22 46 23.72	+00 12 54.3	2 675
1986 UQ	1991 02 13.46319	11 31 06.83	-00 39 53.1	9 675	1989 SR ₄	1993 10 13.28333	01 27 02.80	+05 14 43.0	9 675
1986 UQ	1991 02 13.50677	11 31 04.94	-00 39 44.3	9 675	1989 SR ₄	1993 10 13.32257	01 27 00.51	+05 14 38.1	9 675
1987 BS ₂	1991 02 11.27274	12 12 51.13	+00 05 37.6	9 675	1989 UO ₁	1991 02 13.46319	11 30 16.71	-00 19 40.7	9 675
1987 BS ₂	1991 02 11.30382	12 12 50.63	+00 05 43.2	9 675	1989 UO ₁	1991 02 13.50677	11 30 14.68	-00 19 29.8	9 675
1987 QS ₁	1954 12 30.23438	04 40 21.32	+31 23 32.8	6 675	1989 XM	1953 09 17.30521	22 52 46.99	-11 47 26.1	6 675
1987 QS ₁	1954 12 30.25764	04 40 19.90	+31 23 27.7	6 675	1989 XM	1953 09 17.32847	22 52 45.89	-11 47 32.6	6 675
1987 QZ ₁	1953 09 06.30868	22 44 03.92	-03 50 55.4	6 675	1989 YO ₅	1955 10 25.35104	03 31 13.50	+16 25 22.3	6 675

1989 YO ₅	1955 10 25.38333	03 31 12.12	+16 25 16.5	6 675	1991 FU	1991 02 10.53073	11 30 27.44	-08 23 47.7	9 675
1989 YO ₅	1991 02 11.27274	12 08 46.68	+02 53 44.2	9 675	1991 FS ₁	1991 02 13.46319	11 36 58.56	+03 12 34.3	9 675
1989 YO ₅	1991 02 11.30382	12 08 46.18	+02 53 50.3	9 675	1991 FS ₁	1991 02 13.50677	11 36 57.14	+03 12 43.2	9 675
1990 BZ ₁	1956 05 08.26771	13 52 43.58	-12 10 39.6	6 675	1991 GC ₇	1955 10 25.34236	03 25 02.52	+21 10 28.7	6 675
1990 BZ ₁	1956 05 08.28854	13 52 42.56	-12 10 32.1	6 675	1991 GC ₇	1955 10 25.38333	03 25 00.26	+21 10 27.1	6 675
1990 QP ₂	1971 06 28.45735	00 57 09.89	+05 52 27.4	6 675	1991 NV ₃	1953 09 17.30521	22 56 58.63	-12 13 17.5	6 675
1990 QP ₂	1971 06 29.44653	00 58 06.54	+05 58 41.3	6 675	1991 NV ₃	1953 09 17.32847	22 56 57.48	-12 13 23.6	6 675
1990 QR ₂	1953 09 06.30868	22 46 07.99	-07 03 34.2	6 675	1991 PJ ₇	1953 09 06.30868	22 44 26.44	-07 13 47.3	6 675
1990 QR ₂	1953 09 06.33194	22 46 06.67	-07 03 38.3	6 675	1991 PJ ₇	1953 09 06.33194	22 44 24.92	-07 13 47.2	6 675
1990 QR ₂	1954 12 30.23438	04 57 15.97	+28 55 18.2	6 675	1991 RJ	1955 02 13.26875	07 38 56.67	+32 56 38.7	6 675
1990 QR ₂	1954 12 30.25764	04 57 14.65	+28 55 14.2	6 675	1991 RJ	1955 02 13.29375	07 38 55.33	+32 56 34.3	6 675
1990 RQ ₂	1950 03 21.22500	09 25 59.01	+16 30 57.9	6 675	1992 FS	1956 03 10.36875	12 22 23.49	+03 32 13.5	6 675
1990 RQ ₂	1950 03 21.25174	09 25 58.53	+16 30 55.4	6 675	1992 FS	1956 03 10.38993	12 22 22.46	+03 32 18.7	6 675
1990 RK ₇	1952 09 15.26944	00 38 50.57	+00 47 28.5	6 675	1992 FP ₁	1993 10 13.28333	01 28 18.81	+01 53 46.2	9 675
1990 RK ₇	1952 09 15.29444	00 38 49.50	+00 47 21.3	6 675	1992 FP ₁	1993 10 13.32257	01 28 16.74	+01 53 25.1	9 675
1990 TN ₁	1993 10 19.46458	03 35 38.99	+49 43 58.5	16.5	1992 FP ₁	1993 10 15.25833	01 26 38.38	+01 36 59.0	9 675
1990 TN ₁	1993 10 19.48299	03 35 38.01	+49 44 07.1	2 675	1992 MA	1991 02 11.27274	11 50 59.69	+00 39 24.8	9 675
1990 TN ₁	1993 10 20.42101	03 34 45.71	+49 51 31.2	2 675	1992 MA	1991 02 11.30382	11 50 58.90	+00 39 32.5	9 675
1990 TJ ₂	1956 05 08.26771	13 48 14.52	-12 17 47.0	6 675	1992 NJ	1993 10 13.37135	01 49 19.36	+10 41 08.2	9 675
1990 TJ ₂	1956 05 08.28854	13 48 13.72	-12 17 38.6	6 675	1992 NJ	1993 10 13.41493	01 49 16.66	+10 41 12.6	9 675
1990 VC ₁	1954 06 30.37326	20 14 42.87	-21 00 26.8	6 675	1992 NJ	1993 10 15.28611	01 47 24.48	+10 44 25.4	9 675
1990 VL ₂	1956 03 10.36875	12 21 33.16	+02 03 54.1	6 675	1992 QJ ₂	* 1992 08 24.40590	00 18 59.89	-21 48 12.6	17.2 3 675
1990 XM	1993 10 13.28333	01 28 09.70	+03 32 55.3	9 675	1992 QJ ₂	1992 08 24.44740	00 18 58.32	-21 48 28.0	3 675
1990 XM	1993 10 13.32257	01 28 07.46	+03 32 42.4	9 675	1992 RF ₇	1956 05 08.26771	13 52 10.50	-10 32 56.8	6 675
1990 XM	1993 10 15.25833	01 26 23.71	+03 22 22.2	9 675	1992 RF ₇	1956 05 08.28854	13 52 09.67	-10 32 54.4	6 675
1991 AA	1955 10 25.35972	03 23 04.84	+20 18 17.1	6 675	1992 TY	1991 02 13.46319	11 47 18.40	+05 40 13.4	9 675
1991 AA	1955 10 25.38333	03 23 03.73	+20 18 15.0	6 675	1992 TY	1991 02 13.50677	11 47 16.92	+05 40 31.0	9 675
1991 AU ₁	1991 02 13.46319	11 21 17.41	+03 01 21.0	9 675	1992 TT ₁	* 1992 10 02.30781	01 05 23.61	+16 14 07.2	16.8 9 675
1991 AU ₁	1991 02 13.50677	11 21 13.24	+03 00 47.4	9 675	1992 TT ₁	1992 10 02.34184	01 05 22.14	+16 13 52.2	9 675
1991 CC ₁	1991 02 11.27274	12 14 25.15	+01 48 22.5	9 675	1992 WW ₅	1953 09 06.30868	22 54 58.34	-06 03 10.3	6 675
1991 CC ₁	1991 02 11.30382	12 14 25.11	+01 48 32.1	9 675	1992 WW ₅	1953 09 06.33194	22 54 57.13	-06 03 19.2	6 675
1991 CU ₂	1991 02 13.46319	11 23 37.53	+06 20 34.9	9 675	1993 KP	1953 09 06.30087	22 45 10.75	-05 04 31.9	6 675
1991 CU ₂	1991 02 13.50677	11 23 35.89	+06 20 44.1	9 675	1993 KP	1953 09 06.33194	22 45 09.02	-05 04 43.9	6 675
1991 CD ₆	* 1991 02 10.47865	11 30 21.02	-02 35 06.5	17.5 9 675	1993 MF	1993 11 09.21788	00 44 02.00	+14 13 29.7	2 675
1991 CD ₆	1991 02 10.53073	11 30 19.11	-02 35 13.1	9 675	1993 MF	1993 11 10.15087	00 44 44.80	+14 02 00.4	2 675
1991 CE ₆	* 1991 02 10.47865	11 31 03.57	-00 22 43.3	17.8 9 675	1993 MA ₁	1954 12 30.21876	05 00 56.97	+29 04 02.1	6 675
1991 CE ₆	1991 02 10.53073	11 31 01.94	-00 22 37.0	9 675	1993 MA ₁	1954 12 30.25764	05 00 54.89	+29 04 03.1	6 675
1991 CF ₆	* 1991 02 10.47865	11 44 52.40	-03 52 52.4	17.5 9 675	1993 OC ₂	1993 09 18.22065	21 39 07.66	-11 30 01.6	17.6 3 675
1991 CF ₆	1991 02 10.53073	11 44 48.88	-03 53 28.3	9 675	1993 OC ₂	1993 09 19.18559	21 38 14.91	-11 23 23.0	3 675
1991 CG ₆	* 1991 02 10.47865	11 47 04.64	-05 14 59.7	17.5 9 675	1993 OC ₂	1993 09 21.19844	21 36 32.31	-11 09 23.9	3 675
1991 CG ₆	1991 02 10.53073	11 47 03.36	-05 14 54.6	9 675	1993 OA ₃	1993 09 21.32881	22 00 16.30	+38 06 08.2	15.5 3 675
1991 EA	1991 02 13.41493	11 35 56.33	+04 32 20.9	9 675	1993 OA ₃	1993 09 21.38333	22 00 13.52	+38 05 52.4	3 675
1991 EA	1991 02 13.50677	11 35 54.52	+04 32 24.3	9 675	1993 QB ₅	1993 10 16.13299	22 58 05.44	-00 21 06.8	16.0 2 675
1991 EB	1991 02 10.47865	11 41 30.58	-02 49 36.5	9 675	1993 QB ₅	1993 10 16.21111	22 58 04.92	-00 21 57.9	2 675
1991 EB	1991 02 10.53073	11 41 28.94	-02 49 31.2	9 675	1993 QB ₅	1993 10 19.13351	22 58 00.09	-00 53 21.1	2 675
1991 EA ₁	1993 10 13.37135	01 48 46.42	+07 13 47.7	9 675	1993 QB ₅	1993 10 19.15538	22 58 00.05	-00 53 33.4	2 675
1991 EA ₁	1993 10 13.41493	01 48 44.06	+07 13 40.9	9 675	1993 RM ₂	1993 10 16.26181	23 43 41.10	+02 35 53.3	16.5 2 675
1991 EQ ₁	1991 02 13.46319	11 48 15.32	+04 11 35.6	9 675	1993 RM ₂	1993 10 19.17396	23 42 57.31	+01 23 16.7	2 675
1991 EQ ₁	1991 02 13.50677	11 48 13.83	+04 11 42.1	9 675	1993 RM ₂	1993 10 19.19670	23 42 56.71	+01 22 45.6	2 675
1991 ES ₁	1991 02 13.46319	11 28 47.41	+01 43 35.5	9 675	1993 RR ₂	1993 10 19.23715	00 45 44.48	-15 22 04.1	16.0 2 675
1991 ES ₁	1991 02 13.50677	11 28 45.86	+01 43 59.3	9 675	1993 RR ₂	1993 10 19.27587	00 45 44.01	-15 22 08.3	2 675
1991 FU	1991 02 10.47865	11 30 29.57	-08 23 32.8	9 675	1993 RR ₂	1993 10 21.25521	00 45 33.45	-15 24 11.8	2 675

1993 RA ₃	1993 10 20.18715	22 31 31.12	-00 29 51.3	16.5	2 675	1993 TK ₁₁	1993 10 15.28611	01 45 07.97	+07 37 20.6		9 675
1993 RA ₃	1993 10 20.20990	22 31 31.33	-00 30 00.8		2 675	1993 TP ₁₁	* 1993 10 13.37135	01 36 41.61	+10 45 34.0	17.0	9 675
1993 RA ₃	1993 10 21.23142	22 31 44.20	-00 37 20.1		2 675	1993 TP ₁₁	1993 10 13.41493	01 36 39.33	+10 45 31.0		9 675
1993 RD ₃	1993 10 16.24514	23 44 26.85	-01 41 49.7	17.0	2 675	1993 TP ₁₁	1993 10 15.28611	01 35 04.00	+10 41 53.8		9 675
1993 RD ₃	1993 10 16.27778	23 44 26.71	-01 42 18.8		2 675	1993 TQ ₁₁	* 1993 10 13.37135	01 38 51.42	+11 19 37.1	17.8	9 675
1993 SR ₃	1993 10 13.28333	01 17 26.94	+02 29 10.6	15.5	9 675	1993 TQ ₁₁	1993 10 13.41493	01 38 48.95	+11 19 36.3		9 675
1993 SR ₃	1993 10 13.32257	01 17 25.28	+02 28 35.0		9 675	1993 TQ ₁₁	1993 10 15.28611	01 37 04.72	+11 17 53.1		9 675
1993 SR ₃	1993 10 15.25833	01 16 08.33	+01 59 32.5		9 675	1993 TR ₁₁	* 1993 10 13.37135	01 45 26.74	+08 43 05.6	17.5	9 675
1993 SD ₄	* 1993 09 19.14097	21 23 52.23	-07 48 37.9	18	3 675	1993 TR ₁₁	1993 10 13.41493	01 45 24.18	+08 42 59.3		9 675
1993 SD ₄	1993 09 19.18559	21 23 50.89	-07 48 51.8		3 675	1993 TR ₁₁	1993 10 15.28611	01 43 38.75	+08 38 14.4		9 675
1993 SD ₄	1993 09 21.19844	21 23 02.39	-07 59 00.2		3 675	1993 TS ₁₁	* 1993 10 13.37135	01 46 25.10	+14 45 12.2	16.8	9 675
1993 SD ₄	1993 09 21.24131	21 23 01.20	-07 59 12.9		3 675	1993 TS ₁₁	1993 10 13.41493	01 46 22.34	+14 45 08.3		9 675
1993 TF	1993 10 13.37135	01 43 19.54	+07 15 07.8	16.8	9 675	1993 TS ₁₁	1993 10 15.28611	01 44 23.55	+14 43 23.2		9 675
1993 TF	1993 10 13.41493	01 43 17.01	+07 14 57.1		9 675	1993 TT ₁₁	* 1993 10 13.37135	01 46 37.88	+11 30 50.6	17.2	9 675
1993 TT	1993 10 14.30191	01 35 16.49	+14 45 59.1	17.2	9 675	1993 TT ₁₁	1993 10 13.41493	01 46 35.32	+11 30 52.2		9 675
1993 TT	1993 10 14.33924	01 35 14.63	+14 45 48.6		9 675	1993 TT ₁₁	1993 10 15.28611	01 44 47.65	+11 31 49.7		9 675
1993 TT	1993 10 15.27917	01 34 30.66	+14 41 04.8		9 675	1993 TU ₁₁	* 1993 10 13.37135	01 47 43.84	+09 15 38.1	17.2	9 675
1993 TU	1993 10 14.30191	01 35 02.56	+16 38 16.4	16.8	9 675	1993 TU ₁₁	1993 10 13.41493	01 47 41.52	+09 15 19.6		9 675
1993 TU	1993 10 14.33924	01 35 00.00	+16 38 06.5		9 675	1993 TU ₁₁	1993 10 15.28611	01 46 07.99	+09 01 44.9		9 675
1993 TU	1993 10 15.27917	01 33 57.80	+16 34 07.5		9 675	1993 TV ₁₁	* 1993 10 13.37135	01 50 25.12	+08 11 42.1	17.2	9 675
1993 TW	1993 10 13.37135	01 42 02.83	+12 15 27.0	16.8	9 675	1993 TV ₁₁	1993 10 13.41493	01 50 22.00	+08 11 44.4		9 675
1993 TW	1993 10 13.41493	01 42 00.48	+12 15 12.6		9 675	1993 TV ₁₁	1993 10 15.28611	01 48 16.51	+08 13 41.2		9 675
1993 TW	1993 10 15.28611	01 40 23.89	+12 04 38.2		9 675	1993 TW ₁₁	* 1993 10 13.37135	01 52 18.94	+07 39 52.0	17.2	9 675
1993 TD ₁	1993 10 13.37135	01 38 43.90	+08 29 25.5	17.0	9 675	1993 TW ₁₁	1993 10 13.41493	01 52 15.82	+07 39 44.5		9 675
1993 TD ₁	1993 10 13.41493	01 38 40.33	+08 29 39.5		9 675	1993 TW ₁₁	1993 10 15.28611	01 50 34.43	+07 36 24.3		9 675
1993 TD ₁	1993 10 15.28611	01 36 14.40	+08 38 55.2		9 675	1993 TX ₁₁	* 1993 10 13.37135	01 52 47.66	+12 37 46.4	17.8	9 675
1993 TL ₁	1993 10 13.37135	01 57 46.95	+07 22 29.3	17.0	9 675	1993 TX ₁₁	1993 10 13.41493	01 52 45.22	+12 37 27.1		9 675
1993 TL ₁	1993 10 13.41493	01 57 45.39	+07 22 04.2		9 675	1993 TX ₁₁	1993 10 15.28611	01 51 04.00	+12 23 56.1		9 675
1993 TL ₁	1993 10 15.28611	01 56 49.18	+07 04 17.9		9 675	1993 TY ₁₁	* 1993 10 13.37135	01 54 09.85	+07 54 36.5	17.2	9 675
1993 TO ₁	1993 10 19.34618	02 21 35.44	+07 45 38.2	15.5	2 675	1993 TY ₁₁	1993 10 13.41493	01 54 07.75	+07 54 19.6		9 675
1993 TO ₁	1993 10 19.37274	02 21 33.03	+07 45 56.5		2 675	1993 TY ₁₁	1993 10 15.28611	01 52 47.00	+07 42 11.3		9 675
1993 TO ₁	1993 10 20.33785	02 20 01.83	+07 59 19.7		2 675	1993 TZ ₁₁	* 1993 10 13.37135	02 03 42.01	+11 56 57.2	17.5	9 675
1993 TR ₁	1993 10 13.37135	01 59 47.70	+09 47 11.0	17.0	9 675	1993 TZ ₁₁	1993 10 13.41493	02 03 39.48	+11 56 46.6		9 675
1993 TR ₁	1993 10 13.41493	01 59 45.28	+09 47 09.8		9 675	1993 TZ ₁₁	1993 10 15.28611	02 01 54.70	+11 49 30.2		9 675
1993 TR ₁	1993 10 15.28611	01 58 07.70	+09 46 22.5		9 675	1993 TA ₁₂	* 1993 10 14.30191	01 13 06.28	+16 18 52.4	17.5	9 675
1993 TJ ₂	1993 10 13.37135	01 50 17.46	+10 34 54.0	17.5	9 675	1993 TA ₁₂	1993 10 14.33924	01 13 04.57	+16 18 36.0		9 675
1993 TJ ₂	1993 10 13.41493	01 50 15.35	+10 34 45.7		9 675	1993 TA ₁₂	1993 10 15.27917	01 12 24.37	+16 11 53.0		9 675
1993 TJ ₂	1993 10 15.28611	01 48 48.75	+10 28 54.8		9 675	1993 TB ₁₂	* 1993 10 14.30191	01 17 07.20	+13 45 15.7	17.5	9 675
1993 TE ₃	1993 10 14.30191	01 27 15.72	+12 26 11.4	16.5	9 675	1993 TB ₁₂	1993 10 14.33924	01 17 04.65	+13 45 07.0		9 675
1993 TE ₃	1993 10 14.33924	01 27 13.06	+12 26 11.4		9 675	1993 TB ₁₂	1993 10 15.27917	01 16 04.08	+13 40 46.6		9 675
1993 TE ₃	1993 10 15.27917	01 26 09.61	+12 25 37.7		9 675	1993 TC ₁₂	* 1993 10 14.30191	01 19 59.36	+14 09 32.6	16.8	9 675
1993 TF ₃	1993 10 13.37135	01 45 30.31	+12 02 28.6	17.2	9 675	1993 TC ₁₂	1993 10 14.33924	01 19 57.24	+14 09 24.2		9 675
1993 TF ₃	1993 10 13.41493	01 45 27.88	+12 02 15.0		9 675	1993 TC ₁₂	1993 10 15.27917	01 19 05.95	+14 05 20.5		9 675
1993 TF ₃	1993 10 15.28611	01 43 48.37	+11 52 04.7		9 675	1993 TD ₁₂	* 1993 10 14.30191	01 20 04.73	+12 14 49.9	16.8	9 675
1993 TG ₃	1993 10 13.37135	01 47 13.26	+15 02 56.2	17.0	9 675	1993 TD ₁₂	1993 10 14.33924	01 20 02.44	+12 14 50.6		9 675
1993 TG ₃	1993 10 13.41493	01 47 10.44	+15 02 51.8		9 675	1993 TD ₁₂	1993 10 15.27917	01 19 07.84	+12 14 36.0		9 675
1993 TG ₃	1993 10 15.28611	01 45 09.02	+15 00 45.3		9 675	1993 TE ₁₂	* 1993 10 14.30191	01 23 20.93	+15 48 19.3	17.2	9 675
1993 TW ₈	1993 10 20.32049	02 14 52.72	+21 24 47.4	16.0	2 675	1993 TE ₁₂	1993 10 14.33924	01 23 18.44	+15 48 16.3		9 675
1993 TW ₈	1993 10 20.35625	02 14 50.06	+21 25 00.2		2 675	1993 TE ₁₂	1993 10 15.27917	01 22 19.83	+15 46 34.9		9 675
1993 TW ₈	1993 10 21.35451	02 13 38.82	+21 31 17.2		2 675	1993 TF ₁₂	* 1993 10 14.30191	01 26 26.59	+18 05 10.6	17.0	9 675
1993 TK ₁₁	1993 10 13.37135	01 46 45.27	+07 53 40.1	17.0	9 675	1993 TF ₁₂	1993 10 14.33924	01 26 24.65	+18 04 52.9		9 675
1993 TK ₁₁	1993 10 13.41493	01 46 42.83	+07 53 18.3		9 675	1993 TF ₁₂	1993 10 15.27917	01 25 38.08	+17 57 08.9		9 675

1993 TG ₁₂	* 1993 10 14.30191	01 31 27.05	+16 31 24.2	16.8	9 675	1993 UC	1993 11 09.17778	00 24 04.86	-32 02 02.4	17.0	2 675
1993 TG ₁₂	1993 10 14.33924	01 31 24.39	+16 31 35.5		9 675	1993 UC	1993 11 09.20460	00 24 02.86	-32 02 26.2		2 675
1993 TG ₁₂	1993 10 15.27917	01 30 21.89	+16 36 30.6		9 675	1993 UG	* 1993 10 20.28611	01 19 49.46	+03 40 39.2	16.5	2 675
1993 TH ₁₂	* 1993 10 14.30191	01 34 39.23	+18 23 33.7	17.0	9 675	1993 UG	1993 10 20.30903	01 19 46.92	+03 40 56.7		2 675
1993 TH ₁₂	1993 10 14.33924	01 34 36.72	+18 23 31.2		9 675	1993 UG	1993 10 21.27865	01 17 55.54	+03 55 45.4		2 675
1993 TH ₁₂	1993 10 15.27917	01 33 36.03	+18 22 20.2		9 675	1993 UG	1993 11 09.18507	00 46 08.10	+08 59 28.4	17.0	2 675
1993 TJ ₁₂	* 1993 10 14.30191	01 35 21.77	+13 55 42.4	17.8	9 675	1993 UG	1993 11 09.21111	00 46 06.14	+08 59 53.9		2 675
1993 TJ ₁₂	1993 10 14.33924	01 35 19.54	+13 55 38.8		9 675	1993 UG	1993 11 10.10642	00 44 57.25	+09 14 31.7		2 675
1993 TJ ₁₂	1993 10 15.27917	01 34 25.65	+13 53 57.5		9 675	1993 UG	1993 11 10.12292	00 44 56.10	+09 14 47.1		2 675
1993 TK ₁₂	* 1993 10 14.30191	01 37 31.39	+14 39 28.9	17.5	9 675	1993 UH	* 1993 10 19.33958	01 43 42.91	+20 34 06.4	16.5	2 675
1993 TK ₁₂	1993 10 14.33924	01 37 28.92	+14 39 28.8		9 675	1993 UH	1993 10 19.36649	01 43 41.64	+20 33 40.2		2 675
1993 TK ₁₂	1993 10 15.27917	01 36 30.85	+14 38 59.4		9 675	1993 UH	1993 10 21.33177	01 42 20.53	+20 01 05.6		2 675
1993 TL ₁₂	* 1993 10 14.30191	01 41 47.90	+15 10 29.0	17.0	9 675	1993 UH	1993 10 21.34896	01 42 19.88	+20 00 48.7		2 675
1993 TL ₁₂	1993 10 14.33924	01 41 46.38	+15 10 08.0		9 675	1993 UJ	* 1993 10 19.33958	01 46 12.79	+19 39 23.1	16.0	2 675
1993 TL ₁₂	1993 10 15.27917	01 41 13.67	+15 01 10.1		9 675	1993 UJ	1993 10 19.36649	01 46 11.34	+19 39 11.7		2 675
1993 TM ₁₂	* 1993 10 13.28333	01 07 19.39	+02 32 32.5	16.8	9 675	1993 UJ	1993 10 21.33177	01 44 20.51	+19 26 24.3		2 675
1993 TM ₁₂	1993 10 13.32257	01 07 17.07	+02 32 17.6		9 675	1993 UJ	1993 10 21.34896	01 44 19.28	+19 26 19.6		2 675
1993 TM ₁₂	1993 10 15.25833	01 05 27.66	+02 19 45.6		9 675	1993 UM	1993 10 13.37135	01 50 33.66	+07 35 55.6	16.5	9 675
1993 TN ₁₂	* 1993 10 13.28333	01 10 38.70	+00 47 14.1	17.0	9 675	1993 UM	1993 10 13.41493	01 50 30.69	+07 35 57.7		9 675
1993 TN ₁₂	1993 10 13.32257	01 10 34.93	+00 47 33.6		9 675	1993 UM	1993 10 15.28611	01 48 33.59	+07 37 21.6		9 675
1993 TN ₁₂	1993 10 15.25833	01 07 10.89	+01 11 22.9		9 675	1993 UO	1993 10 14.30191	01 28 37.47	+15 21 55.6	17.2	9 675
1993 TO ₁₂	* 1993 10 13.28333	01 12 02.93	+00 42 49.4	17.5	9 675	1993 UO	1993 10 14.33924	01 28 35.67	+15 21 28.9		9 675
1993 TO ₁₂	1993 10 13.32257	01 12 00.75	+00 42 37.3		9 675	1993 UO	1993 10 15.27917	01 27 53.38	+15 09 51.1		9 675
1993 TO ₁₂	1993 10 15.25833	01 10 20.66	+00 32 22.7		9 675	1993 UZ	* 1993 10 19.28958	01 38 44.33	+16 10 23.6	16.0	2 675
1993 TP ₁₂	* 1993 10 13.28333	01 17 56.52	+05 16 05.5	17.2	9 675	1993 UZ	1993 10 19.31441	01 38 43.03	+16 09 51.8		2 675
1993 TP ₁₂	1993 10 13.32257	01 17 54.58	+05 15 42.0		9 675	1993 UZ	1993 10 21.28438	01 36 58.66	+15 20 54.0		2 675
1993 TP ₁₂	1993 10 15.25833	01 16 20.73	+04 56 01.4		9 675	1993 UZ	1993 10 21.30790	01 36 57.44	+15 20 20.8		2 675
1993 TQ ₁₂	* 1993 10 13.28333	01 18 07.39	+01 54 51.4	17.2	9 675	1993 UZ	1993 11 09.23646	01 22 55.04	+07 34 29.4	16.5	2 675
1993 TQ ₁₂	1993 10 13.32257	01 18 05.27	+01 54 53.3		9 675	1993 UZ	1993 11 09.26198	01 22 54.18	+07 33 55.0		2 675
1993 TQ ₁₂	1993 10 15.25833	01 16 28.05	+01 57 10.0		9 675	1993 UA ₁	* 1993 10 19.33299	01 35 20.40	+30 48 05.4	16.5	2 675
1993 TR ₁₂	* 1993 10 13.28333	01 23 55.96	-01 51 31.4	17.5	9 675	1993 UA ₁	1993 10 19.36042	01 35 18.68	+30 47 57.6		2 675
1993 TR ₁₂	1993 10 13.32257	01 23 54.22	-01 51 49.4		9 675	1993 UA ₁	1993 10 21.29045	01 33 28.66	+30 40 42.5		2 675
1993 TR ₁₂	1993 10 15.25833	01 22 32.01	-02 05 49.1		9 675	1993 UA ₁	1993 10 21.31372	01 33 27.23	+30 40 35.4		2 675
1993 TS ₁₂	* 1993 10 13.28333	01 25 09.70	+02 06 58.0	17.5	9 675	1993 UB ₁	* 1993 10 19.33299	01 44 34.20	+30 05 16.5	15.5	2 675
1993 TS ₁₂	1993 10 13.32257	01 25 07.25	+02 06 47.3		9 675	1993 UB ₁	1993 10 19.36042	01 44 31.24	+30 05 30.8		2 675
1993 TS ₁₂	1993 10 15.25833	01 23 09.64	+01 58 35.0		9 675	1993 UB ₁	1993 10 21.29045	01 41 14.88	+30 22 42.1		2 675
1993 TT ₁₂	* 1993 10 13.28333	01 26 07.33	+02 51 24.8	17.2	9 675	1993 UB ₁	1993 10 21.31372	01 41 12.54	+30 22 54.7		2 675
1993 TT ₁₂	1993 10 13.32257	01 26 04.83	+02 51 14.5		9 675	1993 UB ₁	1993 11 09.23021	01 11 32.18	+31 59 22.7	16.0	2 675
1993 TT ₁₂	1993 10 15.25833	01 24 07.31	+02 43 53.7		9 675	1993 UB ₁	1993 11 09.35573	01 11 30.06	+31 59 24.9		2 675
1993 TU ₁₂	* 1993 10 13.28333	01 26 31.68	-00 12 37.7	17.5	9 675	1993 UB ₁	1993 11 10.17049	01 10 19.71	+32 01 15.4		2 675
1993 TU ₁₂	1993 10 13.32257	01 26 29.15	-00 12 41.7		9 675	1993 UC ₁	* 1993 10 19.33299	01 47 45.07	+30 03 21.8	15.5	2 675
1993 TU ₁₂	1993 10 15.25833	01 24 31.87	-00 15 09.9		9 675	1993 UC ₁	1993 10 19.36042	01 47 43.51	+30 03 06.5		2 675
1993 TV ₁₂	* 1993 10 13.28333	01 30 43.03	+03 06 02.5	17.8	9 675	1993 UC ₁	1993 10 21.29045	01 45 57.45	+29 44 53.3		2 675
1993 TV ₁₂	1993 10 13.32257	01 30 40.79	+03 05 57.6		9 675	1993 UC ₁	1993 10 21.31372	01 45 56.19	+29 44 41.5		2 675
1993 TV ₁₂	1993 10 15.25833	01 28 51.45	+03 02 34.1		9 675	1993 UC ₁	1993 11 09.28698	01 30 46.70	+26 05 15.9	15.5	2 675
1993 TW ₁₂	* 1993 10 13.28333	01 31 52.27	+03 17 53.3	16.8	9 675	1993 UC ₁	1993 11 09.30764	01 30 45.74	+26 04 58.4		2 675
1993 TW ₁₂	1993 10 13.32257	01 31 49.73	+03 17 48.8		9 675	1993 UF ₁	* 1993 10 20.37552	02 56 11.14	+16 33 29.2	15.0	2 675
1993 TW ₁₂	1993 10 15.25833	01 29 47.83	+03 13 53.1		9 675	1993 UF ₁	1993 10 20.39618	02 56 09.14	+16 33 49.2		2 675
1993 UB	1993 11 09.17118	00 07 42.60	+14 18 44.0	16.5	2 675	1993 UF ₁	1993 10 21.37813	02 54 32.85	+16 47 13.4		2 675
1993 UB	1993 11 09.19809	00 07 39.15	+14 20 48.1		2 675	1993 UF ₁	1993 11 10.27517	02 18 28.71	+20 50 59.6	15.5	2 675
1993 UB	1993 11 10.10069	00 05 50.40	+15 29 25.2		2 675	1993 UF ₁	1993 11 10.29774	02 18 26.30	+20 51 12.8		2 675
1993 UB	1993 11 10.11753	00 05 48.36	+15 30 42.5		2 675	1993 UG ₁	* 1993 10 19.29566	01 35 06.07	+03 43 17.1	16.0	2 675

1993 UG ₁	1993 10 19.32031	01 35 04.92	+03 42 53.1		2 675	1993 UH ₃	1993 10 19.50937	03 47 06.67	+25 28 12.5		2 675
1993 UG ₁	1993 10 21.29601	01 33 43.35	+03 14 50.0		2 675	1993 UH ₃	1993 10 20.43264	03 46 37.18	+25 25 51.9		2 675
1993 UG ₁	1993 10 21.31962	01 33 42.36	+03 14 29.5		2 675	1993 UJ ₃	* 1993 10 19.48993	04 04 43.71	+29 17 23.1	16.0	2 675
1993 UH ₁	* 1993 10 19.29566	01 45 45.48	+02 24 46.1	16.0	2 675	1993 UJ ₃	1993 10 19.50937	04 04 43.50	+29 17 28.1		2 675
1993 UH ₁	1993 10 19.32031	01 45 44.28	+02 24 20.1		2 675	1993 UJ ₃	1993 10 20.43264	04 04 29.58	+29 21 11.9		2 675
1993 UH ₁	1993 10 21.29601	01 44 02.62	+01 48 23.5		2 675	1993 VU	* 1993 11 09.34010	02 58 19.84	+07 01 08.7	16.0	2 675
1993 UH ₁	1993 10 21.31962	01 44 01.41	+01 47 57.0		2 675	1993 VU	1993 11 09.36632	02 58 18.52	+07 00 32.6		2 675
1993 UJ ₁	* 1993 10 20.42691	03 26 04.09	+09 53 22.5	16.5	2 675	1993 VU	1993 11 10.28715	02 57 29.34	+06 39 10.2		2 675
1993 UJ ₁	1993 10 20.45590	03 26 02.91	+09 52 39.2		2 675	1993 VU	1993 11 10.30816	02 57 28.17	+06 38 42.1		2 675
1993 UJ ₁	1993 10 21.40313	03 25 29.37	+09 28 23.1		2 675	1993 VW	1993 10 20.40903	03 17 59.70	+23 25 33.9	17.0	2 675
1993 UJ ₁	1993 11 09.34010	03 09 22.16	+01 08 21.3	16.0	2 675	1993 VW	1993 10 20.43837	03 17 58.25	+23 25 19.2		2 675
1993 UJ ₁	1993 11 09.36632	03 09 20.37	+01 07 41.8		2 675	1993 VW	* 1993 11 09.33316	02 52 03.40	+18 39 52.8	16.0	2 675
1993 UJ ₁	1993 11 10.28715	03 08 26.04	+00 44 40.5		2 675	1993 VW	1993 11 09.36007	02 52 00.30	+18 39 22.8		2 675
1993 UJ ₁	1993 11 10.30816	03 08 24.67	+00 44 08.8		2 675	1993 VW	1993 11 10.28073	02 50 20.20	+18 19 52.1		2 675
1993 UQ ₂	* 1993 10 19.34618	02 11 42.11	+05 15 48.3	16.0	2 675	1993 VW	1993 11 10.30278	02 50 17.65	+18 19 25.5		2 675
1993 UQ ₂	1993 10 19.37274	02 11 40.81	+05 15 37.2		2 675	1993 VW	1993 11 15.42483	02 40 28.45	+16 20 54.0	17.2	3 675
1993 UQ ₂	1993 10 20.33785	02 10 58.87	+05 08 38.3		2 675	1993 VW	1993 11 15.44791	02 40 25.89	+16 20 21.3		3 675
1993 UR ₂	* 1993 10 19.34618	02 14 26.16	+05 03 37.5	16.0	2 675	1993 VW	1993 11 16.32916	02 38 41.51	+15 58 28.6		3 675
1993 UR ₂	1993 10 19.37274	02 14 24.56	+05 03 23.9		2 675	1993 VW	1993 11 16.35734	02 38 37.31	+15 57 47.2		3 675
1993 UR ₂	1993 10 20.33785	02 13 30.93	+04 55 33.2		2 675	1993 VY	1993 10 13.28333	01 13 51.91	-00 25 34.0	17.2	9 675
1993 US ₂	* 1993 10 19.34618	02 21 29.02	+07 00 49.7	16.0	2 675	1993 VY	1993 10 13.32257	01 13 47.69	-00 25 04.7		9 675
1993 US ₂	1993 10 19.37274	02 21 27.96	+07 00 26.7		2 675	1993 VY	1993 10 15.25833	01 10 27.10	-00 00 54.1		9 675
1993 US ₂	1993 10 20.33785	02 20 51.77	+06 48 19.4		2 675	1993 VY	* 1993 11 09.18507	00 33 41.49	+05 46 09.7	15.5	2 675
1993 UT ₂	* 1993 10 19.38958	01 46 22.29	+27 47 09.4	17.0	2 675	1993 VY	1993 11 09.21111	00 33 39.95	+05 46 29.7		2 675
1993 UT ₂	1993 10 19.41840	01 46 20.71	+27 46 50.9		2 675	1993 VY	1993 11 10.10642	00 32 45.68	+05 59 34.3		2 675
1993 UT ₂	1993 10 20.33212	01 45 31.21	+27 37 17.8		2 675	1993 VY	1993 11 10.12292	00 32 44.48	+05 59 48.0		2 675
1993 UU ₂	* 1993 10 19.38958	02 21 00.48	+26 39 38.4	16.0	2 675	1993 VZ	* 1993 11 09.37917	03 18 28.97	+26 02 55.1	16.0	2 675
1993 UU ₂	1993 10 19.41840	02 20 58.64	+26 39 46.2		2 675	1993 VZ	1993 11 09.40330	03 18 27.49	+26 02 44.7		2 675
1993 UU ₂	1993 10 20.33212	02 20 03.37	+26 43 08.5		2 675	1993 VZ	1993 11 10.38750	03 17 28.31	+25 54 24.6		2 675
1993 UA ₃	* 1993 10 16.13299	22 36 46.45	+01 01 32.0	16.0	2 675	1993 VA ₁	* 1993 11 09.37917	03 19 20.79	+23 12 07.5	16.5	2 675
1993 UA ₃	1993 10 16.21111	22 36 47.01	+01 00 47.4		2 675	1993 VA ₁	1993 11 09.40330	03 19 19.12	+23 11 54.4		2 675
1993 UA ₃	1993 10 19.13351	22 37 19.03	+00 34 21.4		2 675	1993 VA ₁	1993 11 10.38750	03 18 18.61	+23 03 35.4		2 675
1993 UA ₃	1993 10 19.15538	22 37 19.09	+00 34 09.9		2 675	1993 VB ₁	* 1993 11 09.37917	03 22 11.24	+25 19 53.1	16.5	2 675
1993 UA ₃	1993 11 09.16458	22 47 51.79	-01 36 18.2	16.0	2 675	1993 VB ₁	1993 11 09.40330	03 22 09.57	+25 19 58.5		2 675
1993 UA ₃	1993 11 09.19149	22 47 53.00	-01 36 22.7		2 675	1993 VB ₁	1993 11 10.38750	03 21 06.18	+25 23 18.0		2 675
1993 UA ₃	1993 11 10.09514	22 48 34.86	-01 39 39.6		2 675	1993 VC ₁	* 1993 11 09.37917	03 27 48.35	+23 12 03.1	15.5	2 675
1993 UA ₃	1993 11 10.11215	22 48 35.64	-01 39 41.0		2 675	1993 VC ₁	1993 11 09.40330	03 27 47.01	+23 11 23.3		2 675
1993 UB ₃	* 1993 10 16.13299	22 45 15.39	+00 41 12.3	16.5	2 675	1993 VC ₁	1993 11 10.38750	03 26 48.66	+22 45 06.9		2 675
1993 UB ₃	1993 10 16.21111	22 45 14.27	+00 40 45.2		2 675	1993 VD ₁	* 1993 11 09.23021	01 11 03.95	+31 00 38.7	15.5	2 675
1993 UB ₃	1993 10 19.13351	22 44 47.85	+00 25 03.2		2 675	1993 VD ₁	1993 11 09.25573	01 11 03.47	+31 00 10.8		2 675
1993 UB ₃	1993 10 19.15538	22 44 47.60	+00 24 55.2		2 675	1993 VD ₁	1993 11 10.17049	01 10 45.72	+30 44 45.9		2 675
1993 UB ₃	1993 11 09.16458	22 49 16.80	-00 42 22.9	16.5	2 675	1993 VJ ₁	* 1993 11 09.31736	02 22 26.19	+14 39 27.9	17.0	2 675
1993 UB ₃	1993 11 09.19149	22 49 17.64	-00 42 23.0		2 675	1993 VJ ₁	1993 11 09.34722	02 22 22.98	+14 39 53.7		2 675
1993 UB ₃	1993 11 10.09514	22 49 46.49	-00 43 25.7		2 675	1993 VJ ₁	1993 11 10.26962	02 20 42.55	+14 52 55.3		2 675
1993 UB ₃	1993 11 10.11215	22 49 47.14	-00 43 24.8		2 675	1993 VJ ₁	1993 11 10.29253	02 20 39.86	+14 53 12.9		2 675
1993 UF ₃	* 1993 10 20.18142	21 44 20.39	-03 27 35.0	16.5	2 675	1993 VK ₁	* 1993 11 09.37309	03 20 49.85	+19 55 33.9	16.0	2 675
1993 UF ₃	1993 10 20.20434	21 44 20.96	-03 27 32.5		2 675	1993 VK ₁	1993 11 09.39722	03 20 47.90	+19 55 44.2		2 675
1993 UF ₃	1993 10 21.22604	21 44 47.61	-03 27 15.2		2 675	1993 VK ₁	1993 11 10.32656	03 19 37.28	+20 02 39.8		2 675
1993 UG ₃	* 1993 10 19.50191	04 43 40.72	+16 22 54.8	16.0	2 675	1993 VP ₁	* 1993 11 09.33316	02 52 45.07	+18 14 20.5	17.0	2 675
1993 UG ₃	1993 10 19.52049	04 43 40.52	+16 22 48.1		2 675	1993 VP ₁	1993 11 09.36007	02 52 43.29	+18 13 36.8		2 675
1993 UG ₃	1993 10 20.45017	04 43 31.99	+16 17 17.3		2 675	1993 VP ₁	1993 11 10.28073	02 51 42.55	+17 50 32.4		2 675
1993 UH ₃	* 1993 10 19.48993	03 47 07.32	+25 28 17.0	16.0	2 675	1993 VP ₁	1993 11 10.30278	02 51 41.07	+17 49 57.5		2 675

1993 VQ ₁	1993 10 20.40903	03 19 58.95	+24 37 01.6	16.0	2 675	4524 P-L	* 1960 09 24.41183	00 20 45.03	+03 01 51.4	17.4	4 675
1993 VQ ₁	1993 10 20.43837	03 19 57.46	+24 36 25.7		2 675	4524 P-L	1960 09 26.31530	00 19 00.43	+02 50 02.4		4 675
1993 VQ ₁	1993 11 09.37309	03 02 48.34	+17 03 04.4	15.5	2 675	4524 P-L	1960 09 27.40836	00 17 59.79	+02 43 13.5		4 675
1993 VQ ₁	* 1993 11 09.39722	03 02 46.92	+17 02 29.8		2 675	4524 P-L	1960 09 28.32780	00 17 09.17	+02 37 27.3		4 675
1993 VQ ₁	1993 11 10.28073	03 01 58.49	+16 41 32.5		2 675	4524 P-L	1960 09 28.39725	00 17 05.15	+02 37 00.7		4 675
1993 VQ ₁	1993 11 10.30278	03 01 57.20	+16 41 00.0		2 675	4524 P-L	1960 10 17.27085	00 01 35.37	+00 48 48.1		4 675
1993 VW ₄	* 1993 11 09.39167	03 38 28.22	+17 52 37.0	17.0	2 675	4524 P-L	1960 10 22.22293	23 58 42.32	+00 27 40.0		4 675
1993 VW ₄	1993 11 09.41632	03 38 26.68	+17 51 58.8		2 675	4524 P-L	1960 10 24.35836	23 57 40.25	+00 19 55.1		4 675
1993 VW ₄	1993 11 10.32066	03 37 24.85	+17 29 18.8		2 675	4524 P-L	1960 10 26.31531	23 56 51.18	+00 13 36.0		4 675
1993 VW ₄	1993 11 10.40139	03 37 19.09	+17 27 15.1		2 675	4600 P-L	1991 02 13.46319	11 41 43.58	+03 22 25.3		9 675
1993 WD	* 1993 11 19.33142	03 17 39.68	+11 05 01.9	13	3 675	4600 P-L	1991 02 13.50677	11 41 42.29	+03 22 35.7		9 675
1993 WD	1993 11 19.33697	03 17 33.06	+11 06 06.8		3 675	4604 P-L	* 1960 09 24.41183	00 35 05.48	+01 52 04.4	18.1	4 675
1993 WD	1993 11 19.36822	03 16 53.19	+11 12 32.6		3 675	4604 P-L	1960 09 26.31530	00 33 16.22	+01 43 27.9		4 675
1993 WD	1993 11 19.37378	03 16 46.32	+11 13 39.6		3 675	4604 P-L	1960 09 27.40836	00 32 12.67	+01 38 29.8		4 675
1993 WD	1993 11 19.49444	03 14 13.51	+11 38 18.0		3 675	4604 P-L	1960 09 28.39725	00 31 15.17	+01 34 01.4		4 675
1993 WD	1993 11 19.49791	03 14 09.36	+11 39 02.2		3 675	4604 P-L	1960 10 17.31529	00 14 24.98	+00 20 44.9		4 675
1993 WD	1993 11 20.22743	02 58 37.17	+14 08 43.6	12.5	3 675	4604 P-L	1960 10 22.23406	00 11 08.11	+00 09 01.5		4 675
1993 WD	1993 11 20.23368	02 58 29.29	+14 09 57.4		3 675	4604 P-L	1960 10 25.25350	00 09 27.20	+00 03 56.0		4 675
1993 WD	1993 11 20.37260	02 55 24.16	+14 38 17.2		3 675	4604 P-L	1960 10 26.31531	00 08 55.51	+00 02 33.8		4 675
1993 WD	1993 11 20.37747	02 55 17.95	+14 39 15.6		3 675	4837 P-L	1955 10 25.35972	03 08 31.89	+17 56 56.8		6 675
1993 WD	1993 11 20.44566	02 53 46.91	+14 53 06.4		3 675	6038 P-L	* 1960 09 24.33613	00 11 05.08	+02 03 26.0	16.7	4 675
1993 WD	1993 11 20.44913	02 53 42.57	+14 53 48.0		3 675	6038 P-L	1960 09 25.32502	00 10 06.43	+02 01 52.7		4 675
2020 P-L	* 1960 09 24.45000	00 47 36.63	+09 40 52.9	17.4	4 675	6038 P-L	1960 09 26.27573	00 09 09.89	+02 00 21.3		4 675
2020 P-L	1960 09 26.37010	00 45 58.62	+09 39 32.5		4 675	6038 P-L	1960 09 28.32780	00 07 07.44	+01 57 05.2		4 675
2020 P-L	1960 09 28.45140	00 44 08.62	+09 37 33.6		4 675	6038 P-L	1960 10 17.21390	23 50 17.60	+01 33 49.4		4 675
2020 P-L	1960 09 29.44510	00 43 15.28	+09 36 26.0		4 675	6038 P-L	1960 10 22.15559	23 47 05.59	+01 32 42.1		4 675
2020 P-L	1960 10 17.30420	00 27 18.12	+09 02 15.4		4 675	6038 P-L	1960 10 24.18787	23 45 58.87	+01 33 08.3		4 675
2020 P-L	1960 10 22.27920	00 23 33.98	+08 51 27.9		4 675	6038 P-L	1960 10 26.26113	23 44 58.65	+01 34 10.5		4 675
2020 P-L	1960 10 25.37570	00 21 32.89	+08 45 20.5		4 675	6583 P-L	1953 09 06.30868	23 06 53.33	-04 30 04.8		6 675
2020 P-L	1960 10 26.36840	00 20 57.64	+08 43 32.7		4 675	6583 P-L	1953 09 06.33194	23 06 52.00	-04 30 15.6		6 675
2604 P-L	1991 02 13.46319	11 47 29.52	+03 55 52.7		9 675	6615 P-L	1954 12 30.25001	05 00 55.33	+30 07 40.7		6 675
2604 P-L	1991 02 13.50677	11 47 28.24	+03 55 57.8		9 675	6615 P-L	1954 12 30.25764	05 00 54.74	+30 07 39.5		6 675
3081 P-L	* 1960 09 24.27708	00 29 38.06	+14 41 14.1	17.2	4 675	7081 P-L	1960 09 24.45000	00 40 21.56	+07 28 19.8		4 675
3081 P-L	1960 09 25.22986	00 28 58.57	+14 34 33.1		4 675	7081 P-L	1960 09 25.39444	00 39 23.54	+07 25 25.7		4 675
3081 P-L	1960 09 25.46250	00 28 48.45	+14 32 54.6		4 675	7081 P-L	1960 09 25.42780	00 39 21.43	+07 25 19.5		4 675
3081 P-L	1960 09 26.24514	00 28 16.12	+14 27 17.2		4 675	7081 P-L	1960 09 26.30558	00 38 26.85	+07 22 31.3		4 675
3081 P-L	1960 09 27.27569	00 27 32.73	+14 19 44.9		4 675	7081 P-L	1960 09 26.32569	00 38 25.64	+07 22 27.9		4 675
3081 P-L	1960 09 28.34722	00 26 47.46	+14 11 44.6		4 675	7081 P-L	1960 09 28.36808	00 36 16.63	+07 15 39.3		4 675
3081 P-L	1960 09 28.46181	00 26 42.54	+14 10 53.2		4 675	7081 P-L	1960 09 28.38750	00 36 15.35	+07 15 36.1		4 675
3081 P-L	1960 09 29.47153	00 25 59.89	+14 03 11.4		4 675	7081 P-L	* 1960 10 17.27085	00 16 43.69	+06 03 42.5	19.9	4 675
3081 P-L	1960 10 22.12083	00 11 56.90	+10 52 04.1		4 675	7081 P-L	1960 10 22.22293	00 12 26.83	+05 46 14.5		4 675
4014 P-L	* 1960 09 24.37573	00 20 12.61	+06 37 37.7	17.4	4 675	7081 P-L	1960 10 26.32573	00 09 22.57	+05 33 31.0		4 675
4014 P-L	1960 09 25.42780	00 19 05.20	+06 35 45.5		4 675	9058 P-L	* 1960 10 17.21390	23 32 15.43	+02 17 38.6	17.8	4 675
4014 P-L	1960 09 26.30558	00 18 09.30	+06 34 08.3		4 675	9058 P-L	1960 10 22.15559	23 30 32.33	+01 58 59.7		4 675
4014 P-L	1960 09 28.32780	00 15 58.93	+06 30 06.9		4 675	9058 P-L	1960 10 24.18787	23 29 59.78	+01 52 12.3		4 675
4014 P-L	1960 09 28.36808	00 15 56.18	+06 30 02.1		4 675	9058 P-L	1960 10 26.26113	23 29 32.52	+01 45 49.9		4 675
4014 P-L	1960 10 17.27085	23 57 27.02	+05 46 01.9		4 675	9512 P-L	1991 02 11.27274	12 02 23.40	+01 38 09.0		9 675
4014 P-L	1960 10 22.22293	23 53 54.84	+05 36 39.0		4 675	9512 P-L	1991 02 11.30382	12 02 23.02	+01 38 15.2		9 675
4014 P-L	1960 10 24.35836	23 52 37.81	+05 33 22.9		4 675	1295 T-1	1953 09 06.30868	22 53 10.26	-02 28 23.7		6 675
4018 P-L	1993 10 14.30191	01 23 15.41	+13 52 28.1		9 675	1295 T-1	1953 09 06.33194	22 53 09.23	-02 28 31.6		6 675
4018 P-L	1993 10 14.33924	01 23 13.17	+13 52 24.2		9 675	2258 T-1	1956 05 08.26771	13 51 54.40	-13 35 10.8		6 675
4018 P-L	1993 10 15.27917	01 22 18.73	+13 50 40.5		9 675	2258 T-1	1956 05 08.28854	13 51 53.12	-13 35 07.4		6 675

3057 T-1	1991 02 11.27274	12 01 45.13	-03 44 52.7	9 675	(57)	1993 09 14.16563	21 15 16.12	+01 07 10.7	13.0	2 675
3057 T-1	1991 02 11.30382	12 01 44.53	-03 44 49.3	9 675	(57)	1993 09 14.20017	21 15 15.19	+01 06 53.3	13.2	2 675
3196 T-1	1955 10 25.35972	03 07 40.22	+18 29 46.7	6 675	(70)	1993 10 13.28333	01 29 03.61	-00 38 47.2		9 675
3196 T-1	1955 10 25.38333	03 07 38.98	+18 29 40.8	6 675	(70)	1993 10 13.32257	01 29 01.07	-00 38 49.0		9 675
3271 T-1	1954 06 30.37326	20 13 20.83	-22 38 44.0	6 675	(70)	1993 10 15.25833	01 27 00.31	-00 39 54.9		9 675
3271 T-1	1954 06 30.39792	20 13 19.56	-22 38 48.1	6 675	(79)	1991 02 10.47865	11 29 32.75	-02 10 55.2		9 675
3271 T-1	1971 05 16.27535	12 08 56.07	-02 37 46.6	19.0	4 675	1991 02 10.53073	11 29 30.72	-02 10 42.3		9 675
1063 T-2	1955 10 25.35278	03 17 22.04	+16 49 45.2	6 675	(79)	1993 10 13.37135	01 49 02.92	+11 36 39.1		9 675
1063 T-2	1955 10 25.38333	03 17 20.53	+16 49 37.3	6 675	(79)	1993 10 13.41493	01 49 00.81	+11 36 17.7		9 675
1269 T-2	1991 02 11.27274	11 50 32.84	-00 06 36.3	9 675	(79)	1993 10 15.28611	01 47 35.27	+11 21 04.2		9 675
1269 T-2	1991 02 11.30382	11 50 32.01	-00 06 30.7	9 675	(102)	1955 10 25.35972	03 26 05.98	+16 48 47.4		6 675
2155 T-2	1952 09 15.26944	00 23 50.45	+03 06 26.1	6 675	(102)	1955 10 25.38333	03 26 04.78	+16 48 38.9		6 675
2155 T-2	1952 09 15.27708	00 23 49.87	+03 06 21.5	6 675	(122)	1953 09 06.30868	22 44 57.35	-07 08 59.7		6 675
2114 T-3	1977 10 07.25868	01 01 04.78	+11 34 40.5	4 675	(122)	1953 09 06.33194	22 44 56.30	-07 09 05.4		6 675
2114 T-3	1977 10 11.27743	00 58 08.28	+11 03 51.2	4 675	(130)	1950 03 21.22500	09 25 23.69	+17 04 27.3		6 675
2114 T-3	1977 10 11.34375	00 58 05.33	+11 03 20.7	4 675	(130)	1950 03 21.25174	09 25 23.20	+17 04 34.8		6 675
2114 T-3	1977 10 12.27587	00 57 24.81	+10 56 06.9	4 675	(131)	1956 03 10.36875	12 22 34.13	+06 18 55.3		6 675
2114 T-3	1977 10 12.34271	00 57 21.77	+10 55 35.9	4 675	(131)	1956 03 10.38993	12 22 33.03	+06 19 02.8		6 675
2114 T-3	* 1977 10 16.26233	00 54 33.85	+10 24 51.3	17.3	4 675	1991 02 10.47865	11 50 11.63	-02 42 19.2		9 675
2114 T-3	1977 10 16.32795	00 54 31.05	+10 24 20.1	4 675	(172)	1991 02 10.53073	11 50 09.66	-02 42 22.0		9 675
2114 T-3	1977 10 21.40868	00 51 03.95	+09 44 43.1	4 675	(172)	1991 02 11.27274	11 49 43.42	-02 42 53.0		9 675
2114 T-3	1977 10 21.46910	00 51 01.52	+09 44 15.1	4 675	(172)	1991 02 11.30382	11 49 42.27	-02 42 54.2		9 675
2114 T-3	1977 10 22.41528	00 50 24.75	+09 36 57.6	4 675	(178)	1991 02 13.46319	11 47 49.72	+04 20 02.3		9 675
2114 T-3	1977 10 22.46962	00 50 22.67	+09 36 32.5	4 675	(178)	1991 02 13.50677	11 47 48.23	+04 20 12.3		9 675
2326 T-3	1977 10 07.25868	01 20 18.99	+12 37 11.0	4 675	(180)	1993 10 13.37135	01 33 26.56	+11 08 25.8		9 675
2326 T-3	1977 10 11.27743	01 16 42.34	+12 15 51.5	4 675	(180)	1993 10 13.41493	01 33 24.25	+11 08 13.5		9 675
2326 T-3	1977 10 11.34375	01 16 38.53	+12 15 29.4	4 675	(190)	1991 02 13.46319	11 38 02.37	+00 57 46.7		9 675
2326 T-3	1977 10 12.27587	01 15 48.08	+12 10 19.8	4 675	(190)	1991 02 13.50677	11 38 01.21	+00 57 57.1		9 675
2326 T-3	1977 10 12.34271	01 15 44.32	+12 09 57.6	4 675	(208)	1950 03 21.22500	09 08 14.95	+17 59 00.2		6 675
2326 T-3	* 1977 10 16.26233	01 12 11.79	+11 47 41.4	18.6	4 675	1950 03 21.25174	09 08 14.55	+17 59 00.4		6 675
2326 T-3	1977 10 16.32795	01 12 07.98	+11 47 18.9	4 675	(212)	1993 10 14.30191	01 15 56.75	+14 42 24.1		9 675
2326 T-3	1977 10 17.26458	01 11 17.65	+11 41 56.2	4 675	(212)	1993 10 14.33924	01 15 54.86	+14 42 15.1		9 675
2326 T-3	1977 10 17.33177	01 11 13.90	+11 41 33.7	4 675	(212)	1993 10 15.27917	01 15 09.57	+14 38 23.7		9 675
2326 T-3	1977 10 21.40868	01 07 39.23	+11 17 47.1	4 675	(220)	1993 09 12.18819	21 18 58.05	+01 33 37.5	13.8	2 675
2326 T-3	1977 10 21.46910	01 07 35.97	+11 17 24.4	4 675	(220)	1993 09 12.21545	21 18 57.64	+01 33 30.5	15.1	2 675
2326 T-3	1977 10 22.41528	01 06 47.65	+11 11 54.8	4 675	(220)	1993 09 14.16563	21 18 37.65	+01 24 03.6	13.9	2 675
2326 T-3	1977 10 22.46962	01 06 44.71	+11 11 34.8	4 675	(220)	1993 09 14.20017	21 18 37.19	+01 23 53.3	13.9	2 675
3398 T-3	1953 09 06.30868	22 57 09.02	-07 35 18.0	6 675	(231)	1950 03 21.22500	09 17 54.56	+18 36 33.8		6 675
3398 T-3	1953 09 06.33194	22 57 07.60	-07 35 28.7	6 675	(231)	1950 03 21.25174	09 17 53.81	+18 36 33.2		6 675
(2)	1993 09 12.18819	21 34 45.73	+04 29 53.3	11.9	2 675	1954 11 20.19583	01 14 16.82	-04 25 47.2		6 675
(2)	1993 09 12.21545	21 34 44.78	+04 29 32.7	11.8	2 675	1954 11 20.21910	01 14 16.17	-04 25 43.2		6 675
(2)	1993 09 14.16563	21 33 37.26	+04 04 49.0	12.0	2 675	1991 02 10.47865	11 28 42.87	-03 15 37.3		9 675
(2)	1993 09 14.20017	21 33 36.09	+04 04 23.1	12.0	2 675	1991 02 10.53073	11 28 41.31	-03 15 21.3		9 675
(26)	1993 10 13.37135	01 56 59.97	+10 03 40.1	9 675	(243)	1971 06 28.45735	01 00 25.81	+07 04 49.4		6 675
(26)	1993 10 13.41493	01 56 57.61	+10 03 30.2	9 675	(243)	1971 06 29.44653	01 01 21.99	+07 11 01.5		6 675
(26)	1993 10 15.28611	01 55 18.80	+09 56 23.4	9 675	(244)	1993 10 13.37135	01 48 36.59	+11 43 15.3		9 675
(30)	1991 02 11.27274	11 52 33.01	-01 17 14.1	9 675	(244)	1993 10 13.41493	01 48 34.17	+11 42 55.2		9 675
(30)	1991 02 11.30382	11 52 31.95	-01 17 09.7	9 675	(244)	1993 10 15.28611	01 46 55.52	+11 28 39.2		9 675
(45)	1991 02 13.46319	11 46 09.82	+04 30 52.5	9 675	(253)	1991 02 11.27274	11 59 03.43	-01 37 09.6		9 675
(45)	1991 02 13.50677	11 46 08.58	+04 31 08.0	9 675	(253)	1991 02 11.30382	11 59 02.60	-01 37 02.8		9 675
(57)	1993 09 12.18819	21 16 06.41	+01 22 59.5	13.5	2 675	1993 10 13.28333	01 30 01.43	+02 47 59.2		9 675
(57)	1993 09 12.21545	21 16 05.62	+01 22 47.0	13.3	2 675	1993 10 13.32257	01 29 59.31	+02 47 43.6		9 675

(269)	1993 10 15.25833	01 28 17.83	+02 35 02.3	9 675	(732)	1971 06 28.45735	00 46 59.78	+06 00 43.4	6 675
(300)	1991 02 11.27274	11 53 58.50	+01 32 56.0	9 675	(732)	1971 06 29.44653	00 48 04.16	+06 04 36.2	6 675
(300)	1991 02 11.30382	11 53 57.73	+01 33 01.3	9 675	(818)	1954 12 30.23438	04 59 41.94	+27 20 34.1	6 675
(343)	1993 10 13.37135	02 03 21.21	+10 52 43.3	9 675	(818)	1954 12 30.25764	04 59 40.72	+27 20 36.9	6 675
(343)	1993 10 13.41493	02 03 18.92	+10 52 38.8	9 675	(822)	1955 10 25.35972	03 18 41.06	+18 01 16.0	6 675
(343)	1993 10 15.28611	02 01 45.34	+10 49 46.1	9 675	(822)	1955 10 25.38333	03 18 39.83	+18 01 14.0	6 675
(370)	1954 12 30.23438	04 45 50.75	+28 32 58.7	6 675	(852)	1993 10 13.37135	02 03 01.14	+11 39 40.3	9 675
(370)	1954 12 30.25764	04 45 49.48	+28 32 50.5	6 675	(852)	1993 10 13.41493	02 02 56.95	+11 40 01.3	9 675
(377)	1955 10 25.35972	03 13 07.70	+15 35 49.6	6 675	(852)	1993 10 15.28611	01 59 59.76	+11 54 51.6	9 675
(377)	1955 10 25.38333	03 13 06.59	+15 35 42.2	6 675	(873)	1952 09 15.26944	00 41 00.83	-00 21 41.2	6 675
(401)	1956 03 10.38993	12 21 22.09	+03 18 26.3	6 675	(873)	1952 09 15.29444	00 40 59.68	-00 21 51.4	6 675
(416)	1954 12 30.25001	04 41 36.44	+28 39 35.0	6 675	(885)	1991 02 11.27274	12 13 32.91	+00 22 53.2	9 675
(416)	1954 12 30.25764	04 41 35.93	+28 39 35.2	6 675	(885)	1991 02 11.30382	12 13 32.22	+00 22 57.4	9 675
(421)	1991 02 10.47865	11 32 57.76	-02 08 55.4	9 675	(917)	1991 02 11.27274	12 15 36.94	-02 41 39.8	9 675
(421)	1991 02 10.53073	11 32 55.82	-02 08 39.4	9 675	(917)	1991 02 11.30382	12 15 36.06	-02 41 38.1	9 675
(435)	1971 06 28.45735	00 57 38.93	+04 53 52.4	6 675	(925)	1993 09 12.18819	21 19 22.86	+02 14 31.0	13.6 2 675
(435)	1971 06 29.44653	00 59 07.44	+05 03 16.6	6 675	(925)	1993 09 12.21545	21 19 21.63	+02 14 28.3	13.9 2 675
(468)	1991 02 11.27274	12 07 34.59	-00 31 03.8	9 675	(925)	1993 09 14.16563	21 18 00.68	+02 11 13.6	13.6 2 675
(468)	1991 02 11.30382	12 07 33.85	-00 30 59.0	9 675	(925)	1993 09 14.20017	21 17 59.26	+02 11 09.3	13.7 2 675
(497)	1991 02 13.46319	11 46 30.32	+03 48 40.1	9 675	(930)	1950 03 21.22500	09 20 53.86	+19 44 28.5	6 675
(497)	1991 02 13.50677	11 46 28.74	+03 48 48.7	9 675	(930)	1950 03 21.25174	09 20 52.91	+19 44 24.0	6 675
(533)	1952 09 15.26944	00 19 24.64	+02 10 10.7	6 675	(934)	1991 02 10.47865	11 39 25.56	-05 23 26.6	9 675
(533)	1952 09 15.29444	00 19 23.51	+02 10 02.3	6 675	(934)	1991 02 10.53073	11 39 23.47	-05 23 29.2	9 675
(533)	1991 02 13.46319	11 22 57.21	+00 42 14.1	9 675	(938)	1991 02 13.46319	11 44 48.10	+04 27 44.7	9 675
(533)	1991 02 13.50677	11 22 55.71	+00 42 26.5	9 675	(938)	1991 02 13.50677	11 44 46.72	+04 27 54.8	9 675
(534)	1954 06 30.37326	19 55 07.76	-22 08 54.5	6 675	(953)	1955 10 25.35972	03 32 38.24	+21 33 35.0	6 675
(534)	1954 06 30.39792	19 55 06.63	-22 08 59.0	6 675	(953)	1955 10 25.38333	03 32 37.01	+21 33 35.0	6 675
(542)	1991 02 13.46319	11 35 38.12	+06 01 58.6	9 675	(978)	1956 05 08.26771	13 47 11.90	-12 33 07.8	6 675
(542)	1991 02 13.50677	11 35 36.64	+06 02 16.5	9 675	(978)	1956 05 08.28854	13 47 11.09	-12 32 57.5	6 675
(555)	1993 10 13.28333	01 12 31.34	+03 50 27.5	9 675	(994)	1993 10 14.30191	01 24 58.41	+19 58 09.6	9 675
(555)	1993 10 13.32257	01 12 29.52	+03 50 16.1	9 675	(994)	1993 10 14.33924	01 24 55.57	+19 58 13.1	9 675
(555)	1993 10 15.25833	01 11 02.71	+03 40 58.0	9 675	(994)	1993 10 15.27917	01 23 47.86	+19 59 41.8	9 675
(576)	1991 02 10.47865	11 29 28.06	-07 26 14.1	9 675	(1000)	1955 02 13.26875	07 25 42.77	+35 40 50.5	6 675
(576)	1991 02 10.53073	11 29 26.20	-07 26 13.7	9 675	(1000)	1955 02 13.29375	07 25 41.52	+35 40 44.7	6 675
(577)	1971 06 28.45735	00 46 53.65	+07 16 58.5	6 675	(1050)	1991 02 11.27274	11 54 16.16	-00 47 50.8	9 675
(577)	1971 06 29.44653	00 47 43.08	+07 23 58.9	6 675	(1050)	1991 02 11.30382	11 54 14.94	-00 47 51.2	9 675
(577)	1991 02 13.46319	11 34 05.06	+00 34 19.1	9 675	(1077)	1950 03 21.22500	09 08 47.29	+18 50 02.6	6 675
(577)	1991 02 13.50677	11 34 03.56	+00 34 24.6	9 675	(1077)	1950 03 21.25174	09 08 46.66	+18 50 00.7	6 675
(608)	1954 12 30.23438	04 59 36.88	+29 58 15.8	6 675	(1077)	1991 02 13.46319	11 30 27.94	+03 48 15.4	9 675
(608)	1954 12 30.25764	04 59 35.75	+29 58 09.0	6 675	(1077)	1991 02 13.50677	11 30 25.95	+03 48 24.0	9 675
(655)	1956 03 10.36875	12 20 34.26	+05 23 23.0	6 675	(1082)	1991 02 11.27274	11 55 08.64	+01 27 57.2	9 675
(655)	1956 03 10.38993	12 20 33.37	+05 23 31.7	6 675	(1082)	1991 02 11.30382	11 55 07.82	+01 28 03.9	9 675
(658)	1993 10 13.37135	01 56 08.61	+13 22 45.5	9 675	(1100)	1956 05 08.26771	13 45 20.49	-12 33 00.9	6 675
(658)	1993 10 13.41493	01 56 06.40	+13 22 35.4	9 675	(1100)	1956 05 08.28854	13 45 19.49	-12 32 55.4	6 675
(658)	1993 10 15.28611	01 54 34.20	+13 15 23.9	9 675	(1120)	1971 06 28.45735	00 59 57.82	+05 57 00.3	6 675
(659)	1991 02 11.27274	11 53 09.06	+00 36 41.0	9 675	(1120)	1971 06 29.44653	01 01 42.89	+06 05 48.4	6 675
(673)	1991 02 10.47865	11 27 20.97	-00 38 01.7	9 675	(1126)	1991 02 11.27274	12 14 33.43	+02 18 32.7	9 675
(673)	1991 02 10.53073	11 27 19.25	-00 37 52.9	9 675	(1126)	1991 02 11.30382	12 14 32.86	+02 18 30.6	9 675
(673)	1991 02 13.46319	11 25 41.32	-00 28 45.4	9 675	(1131)	1991 02 13.46319	11 42 29.93	+06 28 09.5	9 675
(673)	1991 02 13.50677	11 25 39.69	-00 28 37.0	9 675	(1131)	1991 02 13.50677	11 42 28.07	+06 28 24.4	9 675
(684)	1993 10 14.30191	01 38 53.80	+17 45 08.5	9 675	(1154)	1993 10 13.28333	01 17 16.03	+01 57 24.3	9 675
(684)	1993 10 15.27917	01 37 54.79	+17 41 40.5	9 675	(1154)	1993 10 13.32257	01 17 14.31	+01 57 15.6	9 675

(1218)	1956 03 10.36875	12 19 18.20	+03 56 46.1	6 675	(1659)	1955 02 13.29375	07 31 12.03	+37 04 55.4	6 675
(1218)	1956 03 10.38993	12 19 16.98	+03 56 52.0	6 675	(1673)	1953 09 06.30868	22 56 01.91	-02 31 25.2	6 675
(1269)	1993 10 13.37135	01 48 33.04	+07 31 26.7	9 675	(1673)	1953 09 06.33194	22 56 00.71	-02 31 32.1	6 675
(1269)	1993 10 13.41493	01 48 31.41	+07 31 17.2	9 675	(1686)	1956 05 08.26771	13 33 00.49	-10 07 19.1	6 675
(1269)	1993 10 15.28611	01 47 23.05	+07 24 21.4	9 675	(1686)	1956 05 08.28854	13 32 59.64	-10 07 14.2	6 675
(1273)	1954 06 30.37326	20 09 08.86	-21 28 55.6	6 675	(1740)	1954 06 30.37326	19 53 31.94	-21 23 45.5	6 675
(1273)	1954 06 30.39792	20 09 07.65	-21 28 54.8	6 675	(1740)	1954 06 30.39792	19 53 30.73	-21 23 47.7	6 675
(1275)	1991 02 10.47865	11 31 01.85	-05 03 40.6	9 675	(1744)	1954 12 30.23438	04 43 08.97	+28 34 38.5	6 675
(1275)	1991 02 10.53073	11 31 00.13	-05 03 24.9	9 675	(1744)	1954 12 30.25764	04 43 07.36	+28 34 36.1	6 675
(1289)	1956 05 08.26771	13 51 43.02	-10 31 04.4	6 675	(1754)	1954 11 20.21910	01 17 55.78	-02 41 00.0	6 675
(1289)	1956 05 08.28854	13 51 42.05	-10 30 58.0	6 675	(1761)	1991 02 11.27274	12 04 53.39	+03 34 13.6	9 675
(1335)	1971 06 28.45735	00 48 43.77	+05 48 19.6	6 675	(1761)	1991 02 11.30382	12 04 52.81	+03 34 19.1	9 675
(1335)	1971 06 29.44653	00 50 23.16	+05 57 43.4	6 675	(1774)	1956 05 08.25347	13 54 41.67	-09 53 51.3	6 675
(1354)	1954 12 30.23438	04 41 17.92	+28 10 02.6	6 675	(1774)	1956 05 08.28854	13 54 40.24	-09 53 42.2	6 675
(1354)	1954 12 30.25764	04 41 16.76	+28 10 01.1	6 675	(1776)	1971 06 28.45735	00 59 00.34	+06 21 10.0	6 675
(1371)	1993 10 13.28333	01 12 29.36	+01 51 50.5	9 675	(1776)	1971 06 29.44653	00 59 50.57	+06 24 30.6	6 675
(1371)	1993 10 13.32257	01 12 27.74	+01 51 30.5	9 675	(1882)	1993 10 13.37135	01 34 29.21	+09 20 15.3	9 675
(1374)	1991 02 10.47865	11 46 20.41	-04 12 07.4	9 675	(1882)	1993 10 13.41493	01 34 27.31	+09 19 55.0	9 675
(1389)	1991 02 11.27274	11 56 47.02	-00 04 37.3	9 675	(1885)	1991 02 11.27274	12 04 05.16	-03 49 04.0	9 675
(1389)	1991 02 11.30382	11 56 46.26	-00 04 31.9	9 675	(1885)	1991 02 11.30382	12 04 04.09	-03 49 02.5	9 675
(1394)	1971 06 28.45735	00 54 11.23	+06 18 52.5	6 675	(1896)	1971 06 28.45735	00 59 52.09	+07 12 02.8	6 675
(1394)	1971 06 29.44653	00 55 22.63	+06 25 36.1	6 675	(1896)	1971 06 29.44653	01 01 42.28	+07 22 35.6	6 675
(1396)	1953 09 17.30521	22 49 08.17	-09 37 47.7	6 675	(1932)	1991 02 11.27274	12 00 45.53	-01 39 28.4	9 675
(1396)	1953 09 17.32847	22 49 06.79	-09 37 50.4	6 675	(1932)	1991 02 11.30382	12 00 45.04	-01 39 24.0	9 675
(1414)	1953 09 17.30521	22 43 07.93	-12 27 42.1	6 675	(1941)	1950 03 21.22500	09 30 55.88	+19 41 47.4	6 675
(1414)	1953 09 17.32847	22 43 06.87	-12 27 50.7	6 675	(1941)	1950 03 21.25174	09 30 55.30	+19 41 49.5	6 675
(1440)	1993 10 13.37135	02 06 35.25	+11 31 14.0	9 675	(1944)	1991 02 10.47865	11 46 18.19	-04 47 16.4	9 675
(1440)	1993 10 13.41493	02 06 33.24	+11 31 06.3	9 675	(1944)	1991 02 10.53073	11 46 16.51	-04 47 08.5	9 675
(1440)	1993 10 15.28611	02 05 09.48	+11 25 28.3	9 675	(1948)	1993 10 13.37135	02 03 37.20	+13 25 12.7	17.8 9 675
(1469)	1991 02 10.47865	11 20 33.94	-04 37 49.1	9 675	(1948)	1993 10 13.41493	02 03 34.74	+13 25 05.6	9 675
(1469)	1991 02 10.53073	11 20 32.29	-04 37 34.8	9 675	(1948)	1993 10 15.28611	02 01 51.75	+13 19 18.8	9 675
(1514)	1953 09 17.30521	23 06 39.62	-10 01 23.4	6 675	(1955)	1953 09 06.30868	22 53 12.12	-05 26 03.8	6 675
(1514)	1953 09 17.32847	23 06 38.54	-10 01 34.9	6 675	(1955)	1953 09 06.33194	22 53 10.96	-05 26 12.0	6 675
(1552)	1993 10 14.30191	01 33 29.73	+13 52 09.9	9 675	(1965)	1991 02 11.27274	12 14 51.03	+01 54 57.6	9 675
(1552)	1993 10 14.33924	01 33 27.65	+13 52 07.4	9 675	(1965)	1991 02 11.30382	12 14 50.38	+01 55 03.9	9 675
(1552)	1993 10 15.27917	01 32 36.14	+13 50 59.5	9 675	(1965)	1993 10 13.28333	01 20 40.18	+04 39 38.2	9 675
(1553)	1950 03 21.22500	09 24 48.47	+18 26 37.8	6 675	(1965)	1993 10 13.32257	01 20 38.02	+04 39 26.5	9 675
(1553)	1950 03 21.25174	09 24 48.00	+18 26 40.5	6 675	(1965)	1993 10 15.25833	01 18 54.29	+04 29 53.9	9 675
(1563)	1956 03 10.36875	12 26 51.27	+07 50 23.3	6 675	(1968)	1993 10 13.28333	01 31 18.65	+03 51 07.7	9 675
(1563)	1956 03 10.38993	12 26 50.04	+07 50 29.2	6 675	(1968)	1993 10 13.32257	01 31 16.54	+03 50 58.6	9 675
(1563)	1993 10 13.28333	01 31 04.71	+03 30 18.4	9 675	(1968)	1993 10 15.25833	01 29 37.13	+03 42 56.7	9 675
(1563)	1993 10 13.32257	01 31 02.07	+03 30 09.5	9 675	(1979)	1993 10 13.37135	01 35 57.36	+09 55 46.1	9 675
(1563)	1993 10 15.25833	01 28 56.60	+03 22 41.0	9 675	(1979)	1993 10 13.41493	01 35 55.04	+09 55 25.1	9 675
(1590)	1956 05 08.26771	13 51 15.89	-12 42 23.1	6 675	(1979)	1993 10 15.28611	01 34 19.33	+09 38 44.4	9 675
(1590)	1956 05 08.28854	13 51 14.76	-12 42 12.6	6 675	(1994)	1949 11 30.48889	09 29 05.99	+04 11 22.1	6 675
(1602)	1954 06 30.37326	20 08 20.02	-24 16 57.9	6 675	(1994)	1949 11 30.51215	09 29 06.17	+04 11 16.2	6 675
(1602)	1954 06 30.39792	20 08 18.51	-24 17 05.8	6 675	(1995)	1955 10 25.35625	03 21 39.81	+17 33 30.2	6 675
(1641)	1991 02 10.47865	11 36 06.46	-00 38 13.6	9 675	(1995)	1955 10 25.38333	03 21 38.22	+17 33 31.1	6 675
(1641)	1991 02 10.53073	11 36 04.63	-00 38 11.2	9 675	(2007)	1991 02 11.27274	12 09 23.83	+01 59 09.1	9 675
(1641)	1991 02 13.46319	11 34 22.32	-00 35 23.2	9 675	(2007)	1991 02 11.30382	12 09 23.34	+01 59 11.8	9 675
(1641)	1991 02 13.50677	11 34 20.66	-00 35 20.2	9 675	(2016)	1955 10 25.35972	03 20 19.26	+19 05 32.9	6 675
(1659)	1955 02 13.26875	07 31 13.11	+37 05 05.5	6 675	(2016)	1955 10 25.38333	03 20 18.18	+19 05 30.2	6 675

(2067)	1991 02 13.46319	11 28 51.66	+04 23 36.7	9 675	(2588)	1991 02 10.47865	11 38 04.27	-01 02 31.2	9 675
(2067)	1991 02 13.50677	11 28 50.37	+04 23 47.0	9 675	(2588)	1991 02 10.53073	11 38 02.27	-01 02 22.6	9 675
(2088)	1971 06 28.45735	00 54 45.81	+04 28 30.2	6 675	(2588)	1991 02 13.46319	11 36 15.90	-00 52 46.0	9 675
(2088)	1971 06 29.44653	00 55 59.37	+04 37 36.9	6 675	(2588)	1991 02 13.50677	11 36 14.16	-00 52 36.8	9 675
(2090)	1953 09 06.30868	22 57 04.11	-05 52 57.4	6 675	(2592)	1952 09 15.26944	00 23 37.32	+03 20 39.3	6 675
(2090)	1953 09 06.33194	22 57 02.84	-05 52 58.2	6 675	(2592)	1952 09 15.29444	00 23 36.36	+03 20 32.7	6 675
(2096)	1991 02 13.46319	11 28 49.16	+02 25 03.8	9 675	(2594)	1953 09 17.32847	22 49 48.30	-09 12 49.9	6 675
(2096)	1991 02 13.50677	11 28 47.24	+02 25 14.7	9 675	(2626)	1993 10 13.37135	01 54 22.01	+12 58 48.8	9 675
(2114)	1954 06 30.37326	20 13 37.80	-20 42 45.6	6 675	(2626)	1993 10 13.41493	01 54 19.87	+12 58 37.7	9 675
(2114)	1954 06 30.39792	20 13 36.77	-20 42 49.2	6 675	(2626)	1993 10 15.28611	01 52 47.54	+12 51 13.3	9 675
(2163)	1971 06 29.44653	00 56 21.25	+03 38 35.3	6 675	(2628)	1955 10 25.35972	03 12 16.05	+17 18 50.1	6 675
(2172)	1993 10 13.37135	01 55 55.61	+06 52 10.5	9 675	(2628)	1955 10 25.38333	03 12 14.78	+17 18 45.2	6 675
(2172)	1993 10 13.41493	01 55 53.29	+06 51 59.5	9 675	(2630)	1950 03 21.22500	09 18 03.72	+17 17 45.9	6 675
(2172)	1993 10 15.28611	01 54 23.34	+06 44 30.1	9 675	(2630)	1950 03 21.25174	09 18 03.05	+17 17 45.1	6 675
(2216)	1991 02 11.27274	12 10 18.44	+02 42 01.8	9 675	(2634)	1950 03 21.22500	09 32 07.84	+16 58 19.9	6 675
(2216)	1991 02 11.30382	12 10 17.79	+02 42 12.1	9 675	(2634)	1950 03 21.25174	09 32 07.26	+16 58 23.5	6 675
(2256)	1955 10 25.35972	03 16 13.49	+17 29 58.7	6 675	(2691)	1950 03 21.22500	09 17 11.72	+14 12 58.3	6 675
(2256)	1955 10 25.38333	03 16 12.32	+17 29 55.8	6 675	(2691)	1950 03 21.25174	09 17 11.08	+14 12 58.5	6 675
(2256)	1971 06 28.45735	00 51 26.54	+05 05 03.8	6 675	(2703)	1993 10 13.28333	01 08 28.42	+01 12 55.0	9 675
(2256)	1971 06 29.44653	00 52 23.56	+05 10 50.4	6 675	(2703)	1993 10 13.32257	01 08 25.86	+01 12 44.5	9 675
(2256)	1993 10 13.37135	01 45 09.38	+10 06 36.4	9 675	(2703)	1993 10 15.25833	01 06 21.69	+01 06 06.3	9 675
(2256)	1993 10 13.41493	01 45 07.24	+10 06 25.1	9 675	(2709)	1993 10 14.30191	01 27 34.18	+12 20 28.3	9 675
(2256)	1993 10 15.28611	01 43 38.44	+09 58 00.8	9 675	(2709)	1993 10 14.33924	01 27 31.86	+12 20 13.3	9 675
(2296)	1954 06 30.37326	20 00 08.62	-22 14 46.5	6 675	(2709)	1993 10 15.27917	01 26 35.02	+12 13 41.2	9 675
(2296)	1954 06 30.39792	20 00 07.54	-22 14 50.1	6 675	(2713)	1954 06 30.37326	20 12 41.41	-21 33 23.4	6 675
(2338)	1953 09 17.30521	23 02 24.84	-10 35 24.3	6 675	(2713)	1954 06 30.39792	20 12 40.30	-21 33 26.9	6 675
(2338)	1953 09 17.32847	23 02 23.71	-10 35 30.9	6 675	(2716)	1956 05 08.26771	13 54 17.77	-12 00 43.5	6 675
(2339)	1950 03 21.22500	09 31 30.20	+19 20 16.3	6 675	(2716)	1956 05 08.28854	13 54 16.56	-12 00 33.2	6 675
(2339)	1950 03 21.25174	09 31 29.39	+19 20 16.4	6 675	(2724)	1991 02 13.46319	11 33 01.21	+03 57 48.3	9 675
(2362)	1991 02 13.46319	11 34 46.10	+05 48 37.9	9 675	(2724)	1991 02 13.50677	11 32 59.77	+03 58 00.8	9 675
(2362)	1991 02 13.50677	11 34 43.96	+05 48 48.8	9 675	(2724)	1993 10 13.28333	01 20 16.58	+03 41 20.6	9 675
(2367)	1953 09 06.30868	22 58 17.67	-04 57 33.7	6 675	(2724)	1993 10 13.32257	01 20 14.68	+03 41 07.4	9 675
(2367)	1953 09 06.33194	22 58 16.39	-04 57 42.0	6 675	(2724)	1993 10 15.25833	01 18 43.66	+03 30 18.4	9 675
(2410)	1991 02 11.27274	12 18 39.38	+00 43 38.0	9 675	(2726)	1954 06 30.37326	20 03 10.25	-22 38 44.1	6 675
(2410)	1991 02 11.30382	12 18 39.10	+00 43 43.7	9 675	(2726)	1954 06 30.39792	20 03 09.08	-22 38 47.1	6 675
(2475)	1993 10 13.37135	01 32 55.06	+11 33 29.7	9 675	(2746)	1991 02 11.27274	11 45 17.39	-00 32 48.1	9 675
(2475)	1993 10 13.41493	01 32 53.02	+11 33 11.5	9 675	(2746)	1991 02 11.30382	11 45 16.70	-00 32 38.9	9 675
(2505)	1950 03 21.22500	09 09 43.39	+19 14 58.0	6 675	(2746)	1991 02 13.46319	11 44 22.24	-00 22 33.8	9 675
(2505)	1950 03 21.25174	09 09 42.81	+19 14 59.2	6 675	(2746)	1991 02 13.50677	11 44 20.93	-00 22 20.5	9 675
(2527)	1991 02 13.46319	11 26 01.37	+01 57 06.9	9 675	(2749)	1971 06 28.45735	00 53 43.23	+05 44 39.5	6 675
(2527)	1991 02 13.50677	11 25 59.58	+01 57 18.7	9 675	(2749)	1971 06 29.44653	00 54 35.66	+05 50 11.7	6 675
(2528)	1950 03 21.22500	09 08 15.92	+16 16 10.6	6 675	(2785)	1993 10 13.37135	01 50 31.93	+13 15 04.8	9 675
(2528)	1950 03 21.25174	09 08 15.40	+16 16 13.2	6 675	(2785)	1993 10 13.41493	01 50 29.79	+13 14 54.0	9 675
(2534)	1953 09 06.30868	22 57 39.39	-06 31 18.1	6 675	(2785)	1993 10 15.28611	01 48 57.64	+13 07 17.2	9 675
(2534)	1953 09 06.33194	22 57 38.35	-06 31 24.7	6 675	(2824)	1954 12 30.23438	04 54 58.13	+27 14 44.3	6 675
(2540)	1950 03 21.22500	09 24 46.00	+14 12 46.9	6 675	(2824)	1954 12 30.25764	04 54 57.14	+27 14 37.1	6 675
(2540)	1950 03 21.25174	09 24 45.60	+14 12 50.9	6 675	(2833)	1991 02 11.27274	11 55 32.97	+00 06 47.9	9 675
(2549)	1993 10 13.37135	01 55 49.03	+11 50 15.7	9 675	(2833)	1991 02 11.30382	11 55 32.18	+00 06 52.7	9 675
(2549)	1993 10 13.41493	01 55 47.08	+11 50 04.7	9 675	(2836)	1993 10 14.30191	01 10 00.15	+16 17 50.9	9 675
(2549)	1993 10 15.28611	01 54 24.06	+11 42 27.8	9 675	(2836)	1993 10 14.33924	01 09 58.07	+16 17 44.4	9 675
(2580)	1950 03 21.22500	09 22 26.50	+16 44 30.9	6 675	(2836)	1993 10 15.27917	01 09 07.94	+16 15 18.2	9 675
(2580)	1950 03 21.25174	09 22 25.80	+16 44 34.4	6 675	(2869)	1993 10 14.30191	01 19 58.32	+18 37 27.9	9 675

(2869)	1993 10 14.33924	01 19 55.76	+18 37 24.5	9 675	(3105)	1950 03 21.25174	09 33 07.85	+16 46 32.5	6 675	
(2869)	1993 10 15.27917	01 18 54.61	+18 36 14.0	9 675	(3110)	1971 06 28.45735	00 55 17.00	+05 59 47.1	6 675	
(2882)	1993 10 13.37135	02 02 16.12	+12 53 19.4	9 675	(3110)	1971 06 29.44653	00 56 26.71	+06 07 44.9	6 675	
(2882)	1993 10 13.41493	02 02 14.07	+12 53 07.7	9 675	(3114)	1991 02 13.46319	11 17 35.65	+03 27 10.4	9 675	
(2882)	1993 10 15.28611	02 00 47.06	+12 45 29.4	9 675	(3114)	1991 02 13.50677	11 17 33.61	+03 27 22.4	9 675	
(2885)	1991 02 11.27274	11 51 41.95	+01 21 06.1	9 675	(3130)	1956 03 10.36875	12 28 46.39	+03 18 45.5	6 675	
(2885)	1991 02 11.30382	11 51 40.89	+01 21 14.0	9 675	(3130)	1956 03 10.38993	12 28 45.34	+03 18 54.2	6 675	
(2885)	1991 02 13.46319	11 50 15.32	+01 28 08.0	9 675	(3140)	1954 06 30.37326	20 04 26.53	-23 02 02.2	6 675	
(2885)	1991 02 13.50677	11 50 13.47	+01 28 17.2	9 675	(3140)	1954 06 30.39792	20 04 25.50	-23 02 11.3	6 675	
(2910)	1993 10 13.37135	01 55 19.66	+09 33 32.4	9 675	(3247)	1955 10 25.35972	03 21 09.54	+18 17 35.9	6 675	
(2910)	1993 10 13.41493	01 55 16.94	+09 33 24.3	9 675	(3247)	1955 10 25.38333	03 21 08.19	+18 17 31.4	6 675	
(2910)	1993 10 15.28611	01 53 28.11	+09 28 13.4	9 675	(3274)	1993 10 15.28611	02 06 26.03	+12 52 18.4	9 675	
(2912)	1954 11 20.19583	01 21 01.58	-03 03 45.0	6 675	(3350)	1952 09 15.26944	00 20 04.13	+02 46 59.4	6 675	
(2912)	1954 11 20.21910	01 21 00.74	-03 03 41.3	6 675	(3350)	1952 09 15.29444	00 20 02.64	+02 46 56.6	6 675	
(2917)	1971 06 28.45735	00 51 40.38	+05 52 09.3	6 675	(3382)	1950 03 21.22500	09 27 37.63	+18 55 54.3	6 675	
(2917)	1971 06 29.44653	00 52 39.20	+06 02 10.3	6 675	(3382)	1950 03 21.25174	09 27 36.80	+18 55 53.2	6 675	
(2924)	1954 06 30.37326	19 56 34.78	-20 38 54.4	6 675	(3408)	1950 03 21.22500	09 10 49.66	+17 23 23.8	6 675	
(2924)	1954 06 30.40660	19 56 33.19	-20 38 58.7	6 675	(3408)	1950 03 21.25174	09 10 48.98	+17 23 26.5	6 675	
(2931)	1991 02 13.46319	11 43 29.17	+04 01 11.7	9 675	(3409)	1956 05 08.26771	13 51 40.39	-11 21 20.8	6 675	
(2931)	1991 02 13.50677	11 43 27.68	+04 01 20.4	9 675	(3409)	1956 05 08.28854	13 51 39.41	-11 21 14.0	6 675	
(2953)	1991 02 13.46319	11 34 51.75	+01 00 34.4	9 675	(3427)	1956 05 08.28854	13 40 43.35	-14 55 10.6	6 675	
(2953)	1991 02 13.50677	11 34 50.25	+01 00 43.1	9 675	(3440)	1971 06 29.44653	00 47 02.08	+05 14 28.0	6 675	
(2984)	1953 09 17.30521	23 05 22.16	-11 03 56.1	6 675	(3519)	1953 09 06.30868	22 55 55.75	-08 03 17.7	6 675	
(2984)	1953 09 17.32847	23 05 20.78	-11 04 03.7	6 675	(3519)	1953 09 06.33194	22 55 54.35	-08 03 24.6	6 675	
(3016)	1993 10 13.28333	01 29 01.60	+04 42 05.9	9 675	(3519)	1953 09 17.30521	22 46 24.36	-08 56 27.4	6 675	
(3016)	1993 10 13.32257	01 28 59.63	+04 41 53.8	9 675	(3519)	1953 09 17.32847	22 46 23.20	-08 56 32.5	6 675	
(3016)	1993 10 15.25833	01 27 25.45	+04 31 53.7	9 675	(3523)	1955 02 13.26875	07 34 06.44	+36 11 36.6	6 675	
(3017)	1993 09 12.18819	21 33 42.71	+03 48 15.4	15.0	2 675	(3523)	1955 02 13.29375	07 34 05.21	+36 11 35.0	6 675
(3017)	1993 09 12.21545	21 33 41.55	+03 48 06.3	15.4	2 675	(3525)	1953 09 06.30868	23 03 46.26	-02 25 35.4	6 675
(3017)	1993 09 14.16563	21 32 26.05	+03 37 07.5	15.1	2 675	(3525)	1953 09 06.33194	23 03 45.16	-02 25 40.1	6 675
(3017)	1993 09 14.20017	21 32 24.74	+03 36 55.8	15.2	2 675	(3541)	1993 10 13.28333	01 30 24.09	+03 06 22.7	9 675
(3028)	1991 02 10.47865	11 48 00.40	-04 22 24.9	9 675	(3541)	1993 10 13.32257	01 30 21.85	+03 06 10.8	9 675	
(3028)	1991 02 10.53073	11 47 59.20	-04 22 13.6	9 675	(3561)	1954 11 20.19583	01 28 46.95	-03 53 27.6	6 675	
(3029)	1991 02 13.46319	11 16 58.79	+01 54 26.8	9 675	(3561)	1954 11 20.21910	01 28 46.37	-03 53 28.1	6 675	
(3029)	1991 02 13.50677	11 16 56.79	+01 54 31.5	9 675	(3577)	1993 10 14.30191	01 25 24.82	+14 20 44.1	9 675	
(3050)	1991 02 11.27274	11 57 28.23	-01 45 06.4	9 675	(3577)	1993 10 14.33924	01 25 23.31	+14 20 35.1	9 675	
(3050)	1991 02 11.30382	11 57 27.16	-01 44 59.9	9 675	(3577)	1993 10 15.27917	01 24 46.25	+14 16 55.8	9 675	
(3058)	1991 02 10.47865	11 25 50.20	-01 07 55.5	9 675	(3585)	1952 09 15.26944	00 40 11.94	+02 43 07.2	6 675	
(3058)	1991 02 10.53073	11 25 47.96	-01 07 42.9	9 675	(3585)	1952 09 15.29444	00 40 10.95	+02 43 02.6	6 675	
(3070)	1971 06 28.45735	00 55 36.01	+05 54 26.7	6 675	(3605)	1991 02 10.47865	11 32 51.01	-03 17 06.2	9 675	
(3070)	1971 06 29.44653	00 56 33.28	+05 59 46.8	6 675	(3605)	1991 02 10.53073	11 32 49.14	-03 17 05.6	9 675	
(3071)	1993 10 13.37135	01 47 00.05	+07 54 07.8	9 675	(3615)	1991 02 13.46319	11 36 26.48	+04 05 05.6	9 675	
(3071)	1993 10 13.41493	01 46 58.01	+07 53 57.2	9 675	(3615)	1991 02 13.50677	11 36 25.14	+04 05 16.0	9 675	
(3071)	1993 10 15.28611	01 45 36.97	+07 45 45.2	9 675	(3624)	1971 06 28.45735	00 52 34.44	+04 00 46.3	6 675	
(3074)	1991 02 11.27274	12 11 16.67	-00 54 43.4	9 675	(3624)	1971 06 29.44653	00 53 51.20	+04 09 43.4	6 675	
(3074)	1991 02 11.30382	12 11 16.18	-00 54 42.2	9 675	(3624)	1991 02 13.46319	11 50 52.58	+03 45 01.5	9 675	
(3085)	1993 10 14.30191	01 31 08.79	+16 23 55.4	9 675	(3624)	1991 02 13.50677	11 50 50.82	+03 45 08.6	9 675	
(3085)	1993 10 14.33924	01 31 06.60	+16 23 41.7	9 675	(3656)	1952 09 15.26944	00 20 27.04	+03 18 55.2	6 675	
(3085)	1993 10 15.27917	01 30 13.89	+16 18 08.5	9 675	(3656)	1952 09 15.29444	00 20 25.53	+03 18 47.0	6 675	
(3100)	1954 06 30.37326	20 05 41.90	-25 05 06.2	6 675	(3657)	1956 05 08.26771	13 55 56.34	-15 16 51.4	6 675	
(3100)	1954 06 30.39792	20 05 40.44	-25 05 13.1	6 675	(3657)	1956 05 08.28854	13 55 55.15	-15 16 42.3	6 675	
(3105)	1950 03 21.22500	09 33 08.64	+16 46 26.5	6 675	(3798)	1993 10 13.37135	01 43 03.78	+14 56 17.6	9 675	

(3798)	1993 10 13.41493	01 43 01.05	+14 56 02.4		9 675	(4148)	1953 09 06.33194	23 08 06.59	-02 21 53.4		6 675
(3798)	1993 10 14.30191	01 42 05.12	+14 51 31.9		9 675	(4152)	1993 10 13.37135	01 57 21.89	+09 30 43.0		9 675
(3798)	1993 10 14.33924	01 42 02.70	+14 51 20.6		9 675	(4152)	1993 10 13.41493	01 57 19.99	+09 30 21.1		9 675
(3798)	1993 10 15.27917	01 41 03.09	+14 46 23.1		9 675	(4152)	1993 10 15.28611	01 56 04.78	+09 15 22.8		9 675
(3860)	1954 12 30.23438	05 08 41.61	+28 09 30.9		6 675	(4189)	1993 10 13.37135	01 48 08.50	+09 15 18.3		9 675
(3860)	1954 12 30.25764	05 08 40.33	+28 09 25.4		6 675	(4189)	1993 10 13.41493	01 48 05.99	+09 14 55.4		9 675
(3864)	1952 09 15.26944	00 33 18.14	+01 07 24.2		6 675	(4189)	1993 10 15.28611	01 46 24.74	+08 58 36.0		9 675
(3864)	1952 09 15.29444	00 33 16.97	+01 07 18.5		6 675	(4204)	1993 10 13.37135	01 51 07.99	+13 23 10.1		9 675
(3883)	1993 10 16.12708	22 17 01.76	-11 32 07.4	15.5	2 675	(4204)	1993 10 13.41493	01 51 05.49	+13 22 51.9		9 675
(3883)	1993 10 16.20451	22 17 02.49	-11 32 31.1		2 675	(4204)	1993 10 15.28611	01 49 18.51	+13 10 10.5		9 675
(3883)	1993 10 19.12500	22 17 44.61	-11 46 09.2		2 675	(4240)	1991 02 11.27274	11 47 46.86	+00 35 39.7		9 675
(3883)	1993 10 19.14965	22 17 44.95	-11 46 16.4		2 675	(4240)	1991 02 11.30382	11 47 45.93	+00 35 43.5		9 675
(3909)	1993 09 12.18819	21 31 12.39	+04 55 33.8	14.6	2 675	(4240)	1991 02 13.46319	11 46 41.28	+00 41 51.1		9 675
(3909)	1993 09 12.21545	21 31 11.67	+04 55 19.6	15.0	2 675	(4240)	1991 02 13.50677	11 46 39.87	+00 42 01.1		9 675
(3909)	1993 09 14.16563	21 30 14.28	+04 37 33.2	15.2	2 675	(4254)	1993 09 12.18819	21 18 50.96	+00 36 21.2	15.4	2 675
(3909)	1993 09 14.20017	21 30 13.32	+04 37 13.8	14.8	2 675	(4254)	1993 09 12.21545	21 18 50.11	+00 36 06.2	15.8	2 675
(3910)	1993 10 14.30191	01 23 18.96	+13 43 08.5		9 675	(4254)	1993 09 14.16563	21 17 51.27	+00 18 23.2	15.3	2 675
(3910)	1993 10 14.33924	01 23 16.79	+13 43 02.4		9 675	(4254)	1993 09 14.20017	21 17 50.23	+00 18 04.0	15.5	2 675
(3910)	1993 10 15.27917	01 22 24.19	+13 40 30.7		9 675	(4264)	1991 02 11.27274	12 11 39.28	-02 34 08.7		9 675
(3911)	1991 02 10.47865	11 39 46.73	-08 23 50.8		9 675	(4264)	1991 02 11.30382	12 11 38.42	-02 34 00.7		9 675
(3911)	1991 02 10.53073	11 39 45.33	-08 23 43.8		9 675	(4273)	1950 03 21.22500	09 12 05.22	+17 50 56.2		6 675
(3933)	1953 09 06.30868	23 05 52.64	-08 14 19.2		6 675	(4273)	1950 03 21.25174	09 12 04.66	+17 50 58.2		6 675
(3933)	1953 09 06.33194	23 05 51.61	-08 14 26.4		6 675	(4286)	1991 02 11.27274	11 56 26.41	+02 43 27.2		9 675
(3933)	1953 09 17.30521	22 57 53.17	-08 59 10.6		6 675	(4286)	1991 02 11.30382	11 56 25.58	+02 43 35.5		9 675
(3933)	1953 09 17.32847	22 57 52.13	-08 59 15.7		6 675	(4292)	1991 02 13.46319	11 36 47.41	+00 20 33.9		9 675
(3938)	1991 02 13.46319	11 39 34.93	+02 29 27.5		9 675	(4292)	1991 02 13.50677	11 36 45.80	+00 20 38.9		9 675
(3938)	1991 02 13.50677	11 39 33.45	+02 29 38.9		9 675	(4294)	1993 10 14.30191	01 14 56.47	+13 26 36.5		9 675
(3942)	1955 10 25.35972	03 09 24.99	+20 57 59.1		6 675	(4294)	1993 10 14.33924	01 14 54.43	+13 26 27.5		9 675
(3942)	1955 10 25.38333	03 09 23.55	+20 57 57.1		6 675	(4294)	1993 10 15.27917	01 14 04.66	+13 22 50.2		9 675
(3945)	1991 02 13.46319	11 38 04.79	+03 22 56.8		9 675	(4298)	1991 02 11.27274	12 12 02.85	+03 22 55.9		9 675
(3945)	1991 02 13.50677	11 38 03.46	+03 23 05.8		9 675	(4298)	1991 02 11.30382	12 12 02.27	+03 23 03.0		9 675
(3947)	1991 02 10.47865	11 47 29.54	-06 15 03.6		9 675	(4309)	1991 02 11.30382	11 53 12.29	-00 09 55.5		9 675
(3947)	1991 02 10.53073	11 47 28.09	-06 14 58.4		9 675	(4314)	1955 10 25.35972	03 32 16.87	+19 02 31.9		6 675
(3957)	1991 02 13.46319	11 22 03.17	+01 26 53.9		9 675	(4314)	1955 10 25.38333	03 32 15.59	+19 02 27.0		6 675
(3957)	1991 02 13.50677	11 22 01.58	+01 27 03.2		9 675	(4350)	1993 10 13.28333	01 03 46.54	+00 15 44.4		9 675
(3983)	1956 05 08.26771	13 35 34.92	-14 37 07.1		6 675	(4350)	1993 10 13.32257	01 03 44.14	+00 15 41.0		9 675
(3983)	1956 05 08.28854	13 35 33.94	-14 37 00.5		6 675	(4350)	1993 10 15.25833	01 01 47.89	+00 12 34.2		9 675
(4003)	1993 10 13.37135	01 38 56.35	+08 35 57.5		9 675	(4365)	1953 09 06.30868	23 01 47.41	-04 29 01.2		6 675
(4003)	1993 10 13.41493	01 38 54.44	+08 35 45.9		9 675	(4365)	1953 09 06.33194	23 01 46.27	-04 29 08.1		6 675
(4003)	1993 10 15.28611	01 37 37.93	+08 26 05.0		9 675	(4366)	1954 06 30.37326	19 52 18.68	-23 16 40.3		6 675
(4014)	1950 03 21.22500	09 07 12.18	+15 25 25.6		6 675	(4366)	1954 06 30.39792	19 52 17.46	-23 16 43.9		6 675
(4014)	1950 03 21.25174	09 07 11.72	+15 25 28.0		6 675	(4380)	1991 02 11.27274	12 06 34.55	-01 51 17.4		9 675
(4036)	1952 09 15.26944	00 43 11.09	+01 24 44.0		6 675	(4380)	1991 02 11.30382	12 06 33.72	-01 51 17.6		9 675
(4036)	1952 09 15.29444	00 43 09.99	+01 24 35.2		6 675	(4412)	1991 02 13.46319	11 37 54.47	+03 53 55.2		9 675
(4065)	1953 09 17.29740	23 03 51.92	-11 36 52.6		6 675	(4412)	1991 02 13.50677	11 37 52.95	+03 54 06.2		9 675
(4065)	1953 09 17.32847	23 03 50.05	-11 36 57.4		6 675	(4413)	1971 06 28.45735	00 50 51.01	+07 15 50.5		6 675
(4080)	1993 10 13.37135	02 00 06.62	+14 29 26.6		9 675	(4413)	1971 06 29.44653	00 52 07.92	+07 23 52.2		6 675
(4080)	1993 10 13.41493	02 00 04.07	+14 29 03.5		9 675	(4425)	1952 09 15.26944	00 43 06.11	-00 48 15.6		6 675
(4080)	1993 10 15.28611	01 58 15.21	+14 13 42.5		9 675	(4425)	1952 09 15.29444	00 43 04.94	-00 48 23.1		6 675
(4087)	1955 10 25.35972	03 25 37.53	+21 24 39.8		6 675	(4429)	1991 02 11.27274	12 01 33.80	-00 57 12.9		9 675
(4087)	1955 10 25.38333	03 25 36.00	+21 24 38.6		6 675	(4429)	1991 02 11.30382	12 01 32.73	-00 57 06.6		9 675
(4148)	1953 09 06.30868	23 08 07.99	-02 21 48.6		6 675	(4431)	1993 09 12.18819	21 20 18.65	-00 03 40.9	16.0	2 675

(4431)	1993 09 12.21545	21 20 17.88	-00 03 49.7	15.4	2 675	(4852)	1954 12 30.23438	05 04 01.49	+30 05 37.4	6 675
(4431)	1993 09 14.16563	21 19 21.40	-00 15 27.8	15.8	2 675	(4852)	1954 12 30.25764	05 03 59.89	+30 05 37.3	6 675
(4431)	1993 09 14.20017	21 19 20.40	-00 15 39.9	16.1	2 675	(4854)	1952 09 15.26944	00 23 05.35	+00 48 23.3	6 675
(4446)	1993 10 13.37135	01 45 05.41	+07 53 56.1		9 675	(4854)	1952 09 15.29444	00 23 04.37	+00 48 11.6	6 675
(4446)	1993 10 13.41493	01 45 03.56	+07 53 42.9		9 675	(4861)	1956 03 10.36875	12 22 48.64	+02 53 56.2	6 675
(4446)	1993 10 15.28611	01 43 51.30	+07 43 33.6		9 675	(4861)	1956 03 10.38993	12 22 47.73	+02 54 02.7	6 675
(4453)	1993 10 14.30191	01 19 01.94	+20 16 03.7		9 675	(4882)	1991 02 10.47865	11 51 10.22	-03 32 42.8	9 675
(4453)	1993 10 14.33924	01 18 59.83	+20 15 56.5		9 675	(4882)	1991 02 10.53073	11 51 08.73	-03 32 32.9	9 675
(4453)	1993 10 15.27917	01 18 08.78	+20 13 49.0		9 675	(4888)	1993 10 13.37135	01 57 22.83	+11 06 03.1	9 675
(4474)	1993 10 13.28333	01 23 37.31	+05 45 46.4		9 675	(4888)	1993 10 13.41493	01 57 20.18	+11 05 53.6	9 675
(4474)	1993 10 13.32257	01 23 35.48	+05 45 36.2		9 675	(4888)	1993 10 15.28611	01 55 28.93	+10 59 29.2	9 675
(4474)	1993 10 15.25833	01 22 08.14	+05 36 34.4		9 675	(4910)	1953 09 06.30868	22 44 15.70	-03 45 53.5	6 675
(4500)	1950 03 21.22500	09 31 46.01	+15 47 32.8		6 675	(4910)	1953 09 06.33194	22 44 15.03	-03 46 07.6	6 675
(4500)	1950 03 21.25174	09 31 45.57	+15 47 35.7		6 675	(4922)	1956 05 08.28854	13 31 46.72	-13 23 50.2	6 675
(4580)	1952 09 15.26944	00 42 34.50	-00 46 12.8		6 675	(4981)	1991 02 13.46319	11 31 43.65	+06 55 32.2	9 675
(4580)	1952 09 15.29444	00 42 33.47	-00 46 26.4		6 675	(4981)	1991 02 13.50677	11 31 41.93	+06 55 41.8	9 675
(4599)	1950 03 21.22500	09 14 20.82	+18 47 04.5		6 675	(5008)	1991 02 13.46319	11 44 28.35	+04 51 37.4	9 675
(4599)	1950 03 21.25174	09 14 20.23	+18 47 06.5		6 675	(5008)	1991 02 13.50677	11 44 27.10	+04 51 56.2	9 675
(4605)	1956 05 08.26771	13 35 51.38	-13 27 28.5		6 675	(5031)	1953 09 17.30521	22 51 47.85	-11 19 30.4	6 675
(4605)	1956 05 08.28854	13 35 50.31	-13 27 21.1		6 675	(5031)	1953 09 17.32847	22 51 46.51	-11 19 38.5	6 675
(4639)	1954 12 30.23438	05 06 54.94	+31 54 12.3		6 675	(5099)	1971 06 28.45735	00 56 30.54	+04 42 46.9	6 675
(4639)	1954 12 30.25764	05 06 53.51	+31 54 09.9		6 675	(5099)	1971 06 29.44653	00 57 42.00	+04 49 48.3	6 675
(4685)	1954 06 30.37326	19 59 17.48	-22 42 41.1		6 675	(5117)	1955 02 13.26875	07 49 09.00	+35 12 53.6	6 675
(4685)	1954 06 30.39792	19 59 16.38	-22 42 46.2		6 675	(5117)	1956 05 08.26771	13 54 19.05	-15 25 09.9	6 675
(4698)	1993 10 13.37135	01 42 01.63	+14 26 38.3		9 675	(5117)	1956 05 08.28854	13 54 18.06	-15 25 08.4	6 675
(4698)	1993 10 13.41493	01 41 58.95	+14 26 24.9		9 675	(5149)	1955 10 25.36220	03 09 35.59	+18 19 02.8	6 675
(4698)	1993 10 14.30191	01 41 04.82	+14 21 30.9		9 675	(5149)	1955 10 25.38333	03 09 34.58	+18 18 59.2	6 675
(4698)	1993 10 14.33924	01 41 02.46	+14 21 19.1		9 675	(5214)	1993 10 15.28611	01 51 28.13	+15 16 45.2	9 675
(4698)	1993 10 15.27917	01 40 04.83	+14 16 00.1		9 675	(5219)	1954 06 30.37326	19 51 57.61	-23 28 43.9	6 675
(4698)	1993 10 15.28611	01 40 04.45	+14 15 57.1		9 675	(5219)	1954 06 30.39792	19 51 56.47	-23 28 47.1	6 675
(4701)	1954 06 30.37326	20 00 42.83	-21 06 27.4		6 675	(5225)	1991 02 13.46319	11 50 22.18	+04 11 42.9	9 675
(4725)	1991 02 10.47865	11 46 35.58	-06 19 22.4		9 675	(5225)	1991 02 13.50677	11 50 20.81	+04 11 54.0	9 675
(4725)	1991 02 10.53073	11 46 34.29	-06 19 05.5		9 675	(5237)	1993 10 13.28333	01 03 43.86	+03 27 13.1	9 675
(4751)	1971 06 28.45735	00 51 36.92	+03 53 46.7		6 675	(5237)	1993 10 13.32257	01 03 41.32	+03 27 04.1	9 675
(4751)	1971 06 29.44653	00 52 20.65	+03 57 31.3		6 675	(5237)	1993 10 15.25833	01 01 40.61	+03 19 17.0	9 675
(4762)	1993 10 13.37135	01 36 24.55	+12 56 03.4		9 675	(5291)	1993 10 13.37135	01 41 41.88	+10 49 55.8	9 675
(4762)	1993 10 13.41493	01 36 21.67	+12 56 03.8		9 675	(5291)	1993 10 13.41493	01 41 39.47	+10 49 41.3	9 675
(4762)	1993 10 14.30191	01 35 24.69	+12 55 21.8		9 675	(5291)	1993 10 15.28611	01 39 56.53	+10 38 38.5	9 675
(4762)	1993 10 14.33924	01 35 22.14	+12 55 19.4		9 675	(5309)	1991 02 10.47865	11 29 37.03	-00 53 58.2	9 675
(4762)	1993 10 15.27917	01 34 21.08	+12 54 27.4		9 675	(5362)	1991 02 13.46319	11 41 05.69	+06 25 35.0	9 675
(4762)	1993 10 15.28611	01 34 20.57	+12 54 25.2		9 675	(5362)	1991 02 13.50677	11 41 04.45	+06 25 47.7	9 675
(4794)	1971 06 28.45735	00 48 12.27	+05 39 59.4		6 675	(5365)	1991 02 11.27274	11 57 07.55	+03 10 08.3	9 675
(4794)	1971 06 29.44653	00 49 11.97	+05 44 57.4		6 675	(5365)	1991 02 11.30382	11 57 06.69	+03 10 13.2	9 675
(4807)	1991 02 13.46319	11 36 13.44	+02 24 32.9		9 675	(5366)	1991 02 11.27274	11 59 16.36	+00 58 28.4	9 675
(4807)	1991 02 13.50677	11 36 11.50	+02 24 44.9		9 675	(5366)	1991 02 11.30382	11 59 15.50	+00 58 36.8	9 675
(4823)	1991 02 13.46319	11 41 26.97	+01 43 25.7		9 675	(5373)	1953 09 17.30521	22 50 01.65	-10 34 55.1	6 675
(4823)	1991 02 13.50677	11 41 25.19	+01 43 35.6		9 675	(5373)	1953 09 17.32847	22 50 00.47	-10 35 00.3	6 675
(4839)	1993 10 13.28333	01 21 36.07	+02 59 11.9		9 675	(5394)	1954 06 30.37326	19 51 05.66	-21 16 26.5	6 675
(4839)	1993 10 13.32257	01 21 34.02	+02 58 50.3		9 675	(5451)	1991 02 11.27274	12 11 01.16	-00 03 26.4	9 675
(4839)	1993 10 15.25833	01 19 57.51	+02 41 26.8		9 675	(5451)	1991 02 11.30382	12 11 00.60	-00 03 23.5	9 675
(4842)	1991 02 10.47865	11 45 36.94	-02 04 15.1		9 675	(5455)	1954 06 30.37326	20 10 47.78	-26 11 36.6	6 675
(4842)	1991 02 10.53073	11 45 35.27	-02 04 07.4		9 675	(5455)	1954 06 30.39792	20 10 46.48	-26 11 42.1	6 675

(5472)	1971 06 28.45735	00 55 33.04	+04 55 10.2	6 675	1981 EY ₁₄	1993 10 20.30291	01 49 23.65	+17 39 55.9		691
(5472)	1971 06 29.44653	00 57 01.16	+05 04 33.1	6 675	1981 EY ₁₄	1993 10 20.33600	01 49 21.40	+17 39 45.9	17.6 V	691
(5487)	1953 09 06.30868	23 04 58.86	-06 48 44.1	6 675	1981 EC ₁₆	1993 10 08.36749	02 18 50.71	+19 13 32.3	18.0 V	691
(5487)	1953 09 06.33194	23 04 57.52	-06 48 51.1	6 675	1981 EC ₁₆	1993 10 08.38771	02 18 49.60	+19 13 27.3		691
(5487)	1956 05 08.26771	13 37 28.80	-13 15 35.3	6 675	1981 EC ₁₆	1993 10 08.40903	02 18 48.43	+19 13 22.1		691
(5487)	1956 05 08.28854	13 37 27.78	-13 15 30.5	6 675	1981 QT ₃	1993 10 09.33417	01 51 40.58	+15 29 50.3	17.2 V	691
(5606)	1971 06 29.44653	00 47 11.50	+06 22 14.7	6 675	1981 QT ₃	1993 10 09.37795	01 51 38.53	+15 29 43.8		691
(5629)	1956 03 10.36875	12 25 17.24	+05 54 22.8	6 675	1981 QT ₃	1993 10 09.42225	01 51 36.46	+15 29 37.1		691
(5629)	1956 03 10.38993	12 25 16.38	+05 54 32.3	6 675	1981 QT ₃	1993 10 16.27696	01 46 15.16	+15 10 56.8	16.9 V	691
(5682)	1949 11 30.48889	09 27 37.59	+04 54 20.3	6 675	1981 QT ₃	1993 10 16.28553	01 46 14.80	+15 10 54.7		691
(5682)	1949 11 30.51215	09 27 37.89	+04 54 14.6	6 675	1981 QT ₃	1993 10 16.29408	01 46 14.33	+15 10 53.1		691
(5704)	1956 03 10.36875	12 21 40.16	+05 51 29.2	6 675	1981 SA ₅	1992 01 10.09378	02 12 03.91	+12 07 01.7	18.4 V	691
(5704)	1956 03 10.38993	12 21 39.35	+05 51 41.3	6 675	1981 SA ₅	1992 01 10.11487	02 12 04.52	+12 07 05.1		691
(5706)	1971 06 28.45735	00 54 55.03	+04 11 06.2	6 675	1981 SA ₅	1992 01 10.13613	02 12 05.16	+12 07 08.5		691
(5706)	1971 06 29.44653	00 55 53.08	+04 16 46.1	6 675	1986 RN ₅	1993 09 20.17328	23 55 06.92	-01 01 49.5	15.4 V	691
(5716)	1993 10 14.30191	01 18 35.74	+12 28 10.0	9 675	1986 RN ₅	1993 09 20.20631	23 55 04.83	-01 01 47.4		691
(5716)	1993 10 14.33924	01 18 33.66	+12 27 55.4	9 675	1986 RN ₅	1993 09 20.23859	23 55 02.78	-01 01 45.0		691
(5716)	1993 10 15.27917	01 17 45.50	+12 22 07.6	9 675	1986 SF	1993 10 10.32349	02 00 32.92	+16 44 54.4		691
(5744)	1993 10 13.37135	01 58 05.57	+09 05 19.1	9 675	1986 SF	1993 10 10.35355	02 00 30.96	+16 44 48.4	16.9 V	691
(5744)	1993 10 13.41493	01 58 03.25	+09 04 54.6	9 675	1986 SF	1993 10 10.37358	02 00 29.67	+16 44 44.0		691
(5744)	1993 10 15.28611	01 56 32.20	+08 48 08.6	9 675	1989 NO	1993 10 12.34619	02 33 18.09	+19 58 24.2	17.0 V	691
(5745)	1956 05 08.28854	13 35 46.26	-11 38 20.0	6 675	1989 NO	1993 10 12.37798	02 33 16.18	+19 58 20.8		691
					1989 NO	1993 10 12.40959	02 33 14.28	+19 58 17.0		691
					1991 RL ₄₁	* 1991 09 09.46906	01 14 47.75	+06 03 34.1		691
					1991 RL ₄₁	1991 09 09.48467	01 14 47.26	+06 03 32.3	18.6 V	691
					1991 RL ₄₁	1991 09 09.49958	01 14 46.78	+06 03 30.3		691
					1991 RL ₄₁	1991 10 07.29894	00 52 01.30	+04 22 02.3	17.7 V	691
					1991 RL ₄₁	1991 10 07.31922	00 52 00.05	+04 21 56.6		691
					1991 RL ₄₁	1991 10 07.33972	00 51 58.78	+04 21 51.3		691
					1992 FJ ₃	* 1992 03 25.24999	12 23 11.90	-04 29 54.9	19.7 V	691
					1992 FJ ₃	1992 03 25.26952	12 23 10.97	-04 29 49.6		691
					1993 RR	1993 10 10.31427	01 47 08.90	+17 14 27.5	16.7 V	691
					1993 RR	1993 10 10.34434	01 47 07.38	+17 14 39.4		691
					1993 RR	1993 10 10.36438	01 47 06.36	+17 14 47.7		691
					1993 SD ₄	1993 09 16.12713	21 25 20.18	-07 32 38.5	16.8 V	691
					1993 SD ₄	1993 09 16.14716	21 25 19.49	-07 32 44.8		691
					1993 SD ₄	1993 09 16.16801	21 25 18.79	-07 32 51.8		691
					1993 TE	1992 04 28.28174	14 13 09.59	-07 56 14.4	19.3 V	691
					1993 TE	1992 04 28.30982	14 13 08.08	-07 56 03.0		691
					1993 TE	1992 04 28.33435	14 13 06.80	-07 55 53.0		691
1980 RG ₁	1993 10 09.45591	02 47 50.19	+22 49 35.7	16.9 V 691	1993 TS	1993 10 10.16796	01 35 01.98	+14 06 17.0		691
1980 RG ₁	1993 10 09.47599	02 47 49.87	+22 49 26.6	691	1993 TS	1993 10 10.18677	01 35 00.77	+14 06 20.6	16.9 V	691
1980 RG ₁	1993 10 09.49573	02 47 49.55	+22 49 17.5	691	1993 TS	1993 10 10.20568	01 34 59.52	+14 06 24.3		691
1981 EY ₉	1993 10 08.43663	02 53 10.91	+23 09 30.4	691	1993 TS	1993 10 15.25017	01 29 37.12	+14 20 47.1	16.7 V	691
1981 EY ₉	1993 10 08.46370	02 53 09.91	+23 09 28.9	17.7 V 691	1993 TS	1993 10 15.29018	01 29 34.40	+14 20 53.3		691
1981 EY ₉	1993 10 08.49102	02 53 08.90	+23 09 28.0	691	1993 TS	1993 10 15.33016	01 29 31.67	+14 20 59.1		691
1981 EY ₉	1993 10 12.45040	02 50 35.99	+23 05 53.9	17.3 V 691	1993 TT	1993 10 15.22845	01 34 33.05	+14 41 21.4	16.5 V	691
1981 EY ₉	1993 10 12.47480	02 50 34.89	+23 05 52.0	691	1993 TT	1993 10 15.25357	01 34 31.80	+14 41 13.8		691
1981 EY ₉	1993 10 12.49882	02 50 33.84	+23 05 49.8	691	1993 TT	1993 10 15.27099	01 34 30.99	+14 41 08.6		691
1981 EY ₁₄	1993 10 12.25895	01 57 20.64	+18 22 36.0	17.7 V 691	1993 TT	1993 10 15.29359	01 34 29.85	+14 41 01.7	16.3 V	691
1981 EY ₁₄	1993 10 12.27798	01 57 19.51	+18 22 30.7	691	1993 TT	1993 10 15.31089	01 34 29.00	+14 40 56.4		691
1981 EY ₁₄	1993 10 12.29710	01 57 18.41	+18 22 25.8	691	1993 TT	1993 10 15.33358	01 34 27.91	+14 40 49.3		691
1981 EY ₁₄	1993 10 20.27054	01 49 25.58	+17 40 08.5	691						

690 Lowell Observatory

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

Observer T. Gill

Measurer B. A. Skiff

0.225-m Brashear astrograph

(39)	1915 04 07.16736	06 05 50.84	+16 06 30.0	690
(125)	1915 03 19.26389	06 16 25.95	+19 07 40.6	690
(419)	1915 03 19.26389	06 03 26.38	+19 53 49.3	I 690
(419)	1915 04 07.16736	06 16 47.85	+20 02 25.7	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

1980 RG ₁	1993 10 09.45591	02 47 50.19	+22 49 35.7	16.9 V 691	1993 TE	1992 04 28.33435	14 13 06.80	-07 55 53.0		691
1980 RG ₁	1993 10 09.47599	02 47 49.87	+22 49 26.6	691	1993 TS	1993 10 10.16796	01 35 01.98	+14 06 17.0		691
1980 RG ₁	1993 10 09.49573	02 47 49.55	+22 49 17.5	691	1993 TS	1993 10 10.18677	01 35 00.77	+14 06 20.6	16.9 V	691
1981 EY ₉	1993 10 08.43663	02 53 10.91	+23 09 30.4	691	1993 TS	1993 10 10.20568	01 34 59.52	+14 06 24.3		691
1981 EY ₉	1993 10 08.46370	02 53 09.91	+23 09 28.9	17.7 V 691	1993 TS	1993 10 15.25017	01 29 37.12	+14 20 47.1	16.7 V	691
1981 EY ₉	1993 10 08.49102	02 53 08.90	+23 09 28.0	691	1993 TS	1993 10 15.29018	01 29 34.40	+14 20 53.3		691
1981 EY ₉	1993 10 12.45040	02 50 35.99	+23 05 53.9	17.3 V 691	1993 TS	1993 10 15.33016	01 29 31.67	+14 20 59.1		691
1981 EY ₉	1993 10 12.47480	02 50 34.89	+23 05 52.0	691	1993 TT	1993 10 15.22845	01 34 33.05	+14 41 21.4	16.5 V	691
1981 EY ₉	1993 10 12.49882	02 50 33.84	+23 05 49.8	691	1993 TT	1993 10 15.25357	01 34 31.80	+14 41 13.8		691
1981 EY ₁₄	1993 10 12.25895	01 57 20.64	+18 22 36.0	17.7 V 691	1993 TT	1993 10 15.27099	01 34 30.99	+14 41 08.6		691
1981 EY ₁₄	1993 10 12.27798	01 57 19.51	+18 22 30.7	691	1993 TT	1993 10 15.29359	01 34 29.85	+14 41 01.7	16.3 V	691
1981 EY ₁₄	1993 10 12.29710	01 57 18.41	+18 22 25.8	691	1993 TT	1993 10 15.31089	01 34 29.00	+14 40 56.4		691
1981 EY ₁₄	1993 10 20.27054	01 49 25.58	+17 40 08.5	691	1993 TT	1993 10 15.33358	01 34 27.91	+14 40 49.3		691

1993 TQ ₂	1993 11 06.13943	02 40 51.07	+30 21 12.9	18.5 V	691	1993 TT ₃	* 1993 10 08.18492	01 27 32.14	+13 03 21.9		691
1993 TQ ₂	1993 11 06.14970	02 40 50.67	+30 21 30.2	18.5 V	691	1993 TT ₃	1993 10 08.22808	01 27 29.74	+13 03 13.9	18.8 V	691
1993 TG ₃	1993 10 15.23583	01 45 12.30	+15 00 50.5		691	1993 TT ₃	1993 10 08.28015	01 27 26.82	+13 03 02.6		691
1993 TG ₃	1993 10 15.27836	01 45 09.42	+15 00 47.4	16.5 V	691	1993 TT ₃	1993 10 13.16824	01 22 58.87	+12 46 21.0		691
1993 TG ₃	1993 10 15.31825	01 45 06.66	+15 00 44.5		691	1993 TT ₃	1993 10 13.24945	01 22 54.22	+12 46 04.0		691
1993 TL ₃	* 1993 10 08.17771	01 16 40.72	+13 08 33.2		691	1993 TT ₃	1993 10 13.30043	01 22 51.28	+12 45 53.0	18.2 V	691
1993 TL ₃	1993 10 08.22089	01 16 38.76	+13 08 20.5		691	1993 TU ₃	* 1993 10 08.18498	01 27 37.30	+13 24 02.0	19.5 V	691
1993 TL ₃	1993 10 08.27298	01 16 36.38	+13 08 05.2	20.3 V	691	1993 TU ₃	1993 10 08.22814	01 27 34.73	+13 23 41.8		691
1993 TL ₃	1993 10 13.16132	01 12 59.01	+12 43 32.6	19.6 V	691	1993 TU ₃	1993 10 08.28020	01 27 31.61	+13 23 16.7		691
1993 TL ₃	1993 10 13.24254	01 12 55.32	+12 43 07.8		691	1993 TU ₃	1993 10 13.16816	01 22 52.06	+12 41 57.7	18.8 V	691
1993 TL ₃	1993 10 13.29353	01 12 52.97	+12 42 51.9		691	1993 TU ₃	1993 10 13.24937	01 22 47.23	+12 41 15.1		691
1993 TM ₃	* 1993 10 08.17809	01 17 40.62	+13 15 43.2		691	1993 TU ₃	1993 10 13.30035	01 22 44.13	+12 40 50.0		691
1993 TM ₃	1993 10 08.22126	01 17 38.77	+13 15 15.6	19.0 V	691	1993 TV ₃	* 1993 10 08.18525	01 28 01.07	+12 58 06.3	17.9 V	691
1993 TM ₃	1993 10 08.27334	01 17 36.56	+13 14 41.9		691	1993 TV ₃	1993 10 08.22842	01 27 58.94	+12 58 00.4		691
1993 TM ₃	1993 10 13.16218	01 14 14.01	+12 20 06.2	18.6 V	691	1993 TV ₃	1993 10 08.28049	01 27 56.33	+12 57 52.8		691
1993 TM ₃	1993 10 13.24340	01 14 10.39	+12 19 11.0		691	1993 TV ₃	1993 10 13.16891	01 23 56.98	+12 45 21.9	17.6 V	691
1993 TM ₃	1993 10 13.29439	01 14 08.09	+12 18 36.0		691	1993 TV ₃	1993 10 13.25013	01 23 52.85	+12 45 08.9		691
1993 TN ₃	* 1993 10 08.17970	01 20 00.42	+13 05 58.7		691	1993 TW ₃	* 1993 10 08.18574	01 28 43.41	+12 55 37.5		691
1993 TN ₃	1993 10 08.22287	01 19 58.14	+13 05 45.8	19.0 V	691	1993 TW ₃	1993 10 08.22890	01 28 40.69	+12 55 30.1	20.4 V	691
1993 TN ₃	1993 10 08.27494	01 19 55.42	+13 05 30.3		691	1993 TW ₃	1993 10 08.28096	01 28 37.33	+12 55 20.2		691
1993 TN ₃	1993 10 13.16323	01 15 44.51	+12 40 15.9		691	1993 TW ₃	1993 10 13.16864	01 23 33.31	+12 39 29.6		691
1993 TN ₃	1993 10 13.24444	01 15 40.22	+12 39 50.4	18.6 V	691	1993 TW ₃	1993 10 13.24984	01 23 28.07	+12 39 13.5	19.8 V	691
1993 TN ₃	1993 10 13.29542	01 15 37.53	+12 39 34.0		691	1993 TW ₃	1993 10 13.30082	01 23 24.75	+12 39 03.1		691
1993 TO ₃	* 1993 10 08.18023	01 20 46.29	+13 09 10.3		691	1993 TX ₃	* 1993 10 08.18576	01 28 45.59	+13 04 34.2		691
1993 TO ₃	1993 10 08.22340	01 20 43.95	+13 08 54.1		691	1993 TX ₃	1993 10 08.22894	01 28 43.71	+13 04 18.5	20.3 V	691
1993 TO ₃	1993 10 08.27547	01 20 41.25	+13 08 37.1	18.2 V	691	1993 TX ₃	1993 10 08.28101	01 28 41.44	+13 04 00.1		691
1993 TO ₃	1993 10 13.16373	01 16 28.22	+12 39 09.9		691	1993 TX ₃	1993 10 13.16980	01 25 13.59	+12 33 54.2		691
1993 TO ₃	1993 10 13.24494	01 16 23.88	+12 38 40.0	17.8 V	691	1993 TX ₃	1993 10 13.25102	01 25 10.05	+12 33 24.1	19.5 V	691
1993 TO ₃	1993 10 13.29593	01 16 21.16	+12 38 21.1		691	1993 TX ₃	1993 10 13.30201	01 25 07.83	+12 33 04.2		691
1993 TP ₃	* 1993 10 08.18240	01 23 54.09	+12 59 21.3		691	1993 TY ₃	* 1993 10 08.18632	01 29 33.60	+13 01 11.5		691
1993 TP ₃	1993 10 08.22556	01 23 51.43	+12 59 06.7	19.2 V	691	1993 TY ₃	1993 10 08.22948	01 29 31.18	+13 01 08.3		691
1993 TP ₃	1993 10 08.27763	01 23 48.28	+12 58 49.5		691	1993 TY ₃	1993 10 08.28155	01 29 28.48	+13 01 05.7	18.8 V	691
1993 TP ₃	1993 10 13.16545	01 18 56.98	+12 30 31.7	19.1 V	691	1993 TY ₃	1993 10 24.26994	01 15 09.77	+12 36 13.2	18.5 V	691
1993 TP ₃	1993 10 13.29763	01 18 48.83	+12 29 44.7		691	1993 TY ₃	1993 10 24.27791	01 15 09.33	+12 36 12.6		691
1993 TQ ₃	* 1993 10 08.18290	01 24 36.97	+13 01 20.0	17.8 V	691	1993 TY ₃	1993 10 24.28582	01 15 08.91	+12 36 11.5		691
1993 TQ ₃	1993 10 08.22606	01 24 34.62	+13 01 06.7		691	1993 TZ ₃	* 1993 10 08.18668	01 30 04.70	+13 16 09.9		691
1993 TQ ₃	1993 10 08.27813	01 24 31.73	+13 00 51.1		691	1993 TZ ₃	1993 10 08.22984	01 30 02.07	+13 16 04.7	18.0 V	691
1993 TQ ₃	1993 10 13.16627	01 20 07.85	+12 34 49.4	17.2 V	691	1993 TZ ₃	1993 10 08.28190	01 29 58.87	+13 15 58.1		691
1993 TQ ₃	1993 10 13.24748	01 20 03.29	+12 34 22.7		691	1993 TZ ₃	1993 10 24.26954	01 14 12.67	+12 30 07.6		691
1993 TQ ₃	1993 10 13.29846	01 20 00.43	+12 34 05.8		691	1993 TZ ₃	1993 10 24.27752	01 14 12.18	+12 30 06.3	18.1 V	691
1993 TR ₃	* 1993 10 08.18348	01 25 27.72	+13 05 58.9	20.3 V	691	1993 TZ ₃	1993 10 24.28543	01 14 11.72	+12 30 04.7		691
1993 TR ₃	1993 10 08.22665	01 25 25.63	+13 05 48.3		691	1993 TA ₄	* 1993 10 08.18729	01 30 57.70	+12 57 38.7	17.2 V	691
1993 TR ₃	1993 10 08.27872	01 25 23.21	+13 05 35.0		691	1993 TA ₄	1993 10 08.23045	01 30 55.19	+12 57 47.4		691
1993 TR ₃	1993 10 13.16720	01 21 28.23	+12 43 40.9		691	1993 TA ₄	1993 10 08.28252	01 30 52.11	+12 57 57.9		691
1993 TR ₃	1993 10 13.24841	01 21 24.18	+12 43 18.7		691	1993 TA ₄	1993 10 20.22762	01 19 24.68	+13 30 24.1		691
1993 TR ₃	1993 10 13.29940	01 21 21.62	+12 43 04.5	20.0 V	691	1993 TA ₄	1993 10 20.23576	01 19 24.22	+13 30 25.1	17.0 V	691
1993 TS ₃	* 1993 10 08.18478	01 27 20.42	+13 10 01.6	18.6 V	691	1993 TA ₄	1993 10 20.24385	01 19 23.75	+13 30 25.8		691
1993 TS ₃	1993 10 08.22795	01 27 18.15	+13 09 44.9		691	1993 TB ₄	* 1993 10 08.18816	01 32 13.32	+12 59 50.7		691
1993 TS ₃	1993 10 08.28002	01 27 15.41	+13 09 24.6		691	1993 TB ₄	1993 10 08.23133	01 32 11.54	+12 59 26.9	19.8 V	691
1993 TS ₃	1993 10 13.16829	01 23 02.76	+12 36 01.0		691	1993 TB ₄	1993 10 08.28341	01 32 09.32	+12 58 58.1		691
1993 TS ₃	1993 10 13.24950	01 22 58.35	+12 35 26.8	18.0 V	691	1993 TB ₄	1993 10 13.15201	01 28 47.29	+12 12 51.5		691
1993 TS ₃	1993 10 13.30048	01 22 55.56	+12 35 05.4		691	1993 TB ₄	1993 10 13.19574	01 28 45.35	+12 12 26.4	19.3 V	691

1993 TB ₄	1993 10 13.23579	01 28 43.65	+12 12 03.4	691	1993 TL ₄	1993 10 20.23940	01 24 46.71	+13 32 33.9	691		
1993 TC ₄	* 1993 10 08.18877	01 33 06.00	+13 00 56.3	691	1993 TL ₄	1993 10 20.24749	01 24 46.14	+13 32 34.6	691		
1993 TC ₄	1993 10 08.23193	01 33 03.51	+13 00 39.7	20.2 V	691	1993 TM ₄	* 1993 10 08.36271	02 11 56.11	+19 07 40.4	691	
1993 TC ₄	1993 10 08.28400	01 33 00.50	+13 00 19.2	691	1993 TM ₄	1993 10 08.38293	02 11 55.29	+19 07 33.3	18.6 V	691	
1993 TC ₄	1993 10 13.25321	01 28 19.71	+12 26 19.8	691	1993 TM ₄	1993 10 08.40425	02 11 54.48	+19 07 26.9	691	691	
1993 TC ₄	1993 10 13.30419	01 28 16.71	+12 25 58.3	20.0 V	691	1993 TM ₄	1993 10 20.28039	02 03 52.56	+17 56 32.8	18.3 V	691
1993 TD ₄	* 1993 10 08.18885	01 33 13.09	+13 03 24.8	691	1993 TM ₄	1993 10 20.31274	02 03 51.13	+17 56 20.6	691	691	
1993 TD ₄	1993 10 08.23202	01 33 11.14	+13 03 10.4	691	1993 TM ₄	1993 10 20.34583	02 03 49.63	+17 56 08.2	691	691	
1993 TD ₄	1993 10 08.28409	01 33 08.60	+13 02 55.3	19.6 V	691	1993 TN ₄	* 1993 10 08.36295	02 12 16.71	+19 07 11.0	19.1 V	691
1993 TD ₄	1993 10 13.17267	01 29 22.13	+12 36 47.9	19.1 V	691	1993 TN ₄	1993 10 08.38317	02 12 15.68	+19 07 05.1	691	691
1993 TD ₄	1993 10 13.25388	01 29 18.21	+12 36 21.2	691	1993 TN ₄	1993 10 08.40448	02 12 14.47	+19 06 54.0	691	691	
1993 TD ₄	1993 10 13.30487	01 29 15.75	+12 36 04.4	691	1993 TN ₄	1993 10 20.31085	02 01 06.84	+17 33 33.8	19.1 V	691	
1993 TE ₄	* 1993 10 08.18898	01 33 24.15	+13 23 50.1	19.1 V	691	1993 TN ₄	1993 10 20.34393	02 01 04.87	+17 33 16.5	691	691
1993 TE ₄	1993 10 08.23215	01 33 22.16	+13 23 25.7	691	1993 TO ₄	* 1993 10 08.36856	02 20 22.93	+19 07 54.2	691	691	
1993 TE ₄	1993 10 08.28422	01 33 19.72	+13 22 57.2	691	1993 TO ₄	1993 10 08.38878	02 20 22.16	+19 07 47.6	19.6 V	691	
1993 TE ₄	1993 10 13.17279	01 29 33.18	+12 35 50.4	18.6 V	691	1993 TO ₄	1993 10 08.41010	02 20 21.31	+19 07 41.0	691	691
1993 TE ₄	1993 10 13.25401	01 29 29.20	+12 35 02.0	691	1993 TO ₄	1993 10 20.28593	02 11 52.44	+17 55 16.1	691	691	
1993 TE ₄	1993 10 13.30500	01 29 26.69	+12 34 31.9	691	1993 TO ₄	1993 10 20.31828	02 11 50.84	+17 55 02.3	19.4 V	691	
1993 TF ₄	* 1993 10 08.18917	01 33 40.38	+12 54 40.0	18.1 V	691	1993 TO ₄	1993 10 20.35137	02 11 49.19	+17 54 48.9	691	691
1993 TF ₄	1993 10 08.23233	01 33 37.59	+12 54 44.4	691	1993 TP ₄	* 1993 10 08.36980	02 22 10.55	+19 21 48.7	691	691	
1993 TF ₄	1993 10 08.28439	01 33 34.28	+12 54 51.3	691	1993 TP ₄	1993 10 08.39002	02 22 09.67	+19 21 38.6	20.4 V	691	
1993 TF ₄	1993 10 20.22847	01 20 44.67	+13 09 53.7	691	1993 TP ₄	1993 10 08.41134	02 22 08.69	+19 21 28.4	691	691	
1993 TF ₄	1993 10 20.23660	01 20 44.10	+13 09 53.9	17.8 V	691	1993 TP ₄	1993 10 20.28626	02 12 21.71	+17 30 52.4	20.3 V	691
1993 TF ₄	1993 10 20.24469	01 20 43.58	+13 09 54.2	691	1993 TP ₄	1993 10 20.31862	02 12 19.91	+17 30 33.4	691	691	
1993 TG ₄	* 1993 10 08.18926	01 33 48.59	+12 54 41.1	691	1993 TP ₄	1993 10 20.35170	02 12 18.01	+17 30 13.4	691	691	
1993 TG ₄	1993 10 08.23243	01 33 46.42	+12 54 23.9	18.3 V	691	1993 TQ ₄	* 1993 10 08.37385	02 28 01.13	+19 28 49.6	19.7 V	691
1993 TG ₄	1993 10 08.28450	01 33 43.77	+12 54 03.6	691	1993 TQ ₄	1993 10 08.39406	02 27 59.77	+19 28 59.5	691	691	
1993 TG ₄	1993 10 13.17286	01 29 38.56	+12 20 35.6	691	1993 TQ ₄	1993 10 08.41537	02 27 58.29	+19 29 09.9	691	691	
1993 TG ₄	1993 10 13.25407	01 29 34.31	+12 20 01.5	17.7 V	691	1993 TQ ₄	1993 10 12.33940	02 23 28.97	+19 59 02.0	19.8 V	691
1993 TG ₄	1993 10 13.30505	01 29 31.61	+12 19 40.0	691	1993 TQ ₄	1993 10 12.37118	02 23 26.55	+19 59 15.6	691	691	
1993 TH ₄	* 1993 10 08.18959	01 34 17.35	+12 55 41.2	17.7 V	691	1993 TQ ₄	1993 10 12.40278	02 23 24.17	+19 59 29.0	691	691
1993 TH ₄	1993 10 08.23276	01 34 15.13	+12 55 33.0	691	1993 TR ₄	* 1993 10 08.43071	02 44 38.62	+22 48 51.8	19.7 V	691	
1993 TH ₄	1993 10 08.28483	01 34 12.38	+12 55 23.6	691	1993 TR ₄	1993 10 08.45779	02 44 37.60	+22 48 49.4	691	691	
1993 TH ₄	1993 10 13.17310	01 29 59.49	+12 39 00.6	691	1993 TR ₄	1993 10 08.48511	02 44 36.53	+22 48 47.7	691	691	
1993 TH ₄	1993 10 13.25431	01 29 55.08	+12 38 43.3	17.1 V	691	1993 TR ₄	1993 10 09.45326	02 44 01.09	+22 47 43.5	691	691
1993 TH ₄	1993 10 13.30529	01 29 52.29	+12 38 32.4	691	1993 TR ₄	1993 10 09.47335	02 44 00.35	+22 47 40.8	691	691	
1993 TJ ₄	* 1993 10 08.18966	01 34 22.68	+13 07 11.5	17.9 V	691	1993 TR ₄	1993 10 09.49307	02 43 59.59	+22 47 39.5	20.0 V	691
1993 TJ ₄	1993 10 08.23282	01 34 20.53	+13 07 06.8	691	1993 TS ₄	* 1993 10 08.43076	02 44 42.25	+22 52 00.5	20.8 V	691	
1993 TJ ₄	1993 10 08.28490	01 34 17.94	+13 07 01.4	691	1993 TS ₄	1993 10 08.45783	02 44 40.92	+22 51 55.2	691	691	
1993 TJ ₄	1993 10 24.27391	01 20 53.42	+12 28 04.4	691	1993 TS ₄	1993 10 08.48514	02 44 39.66	+22 51 49.3	691	691	
1993 TJ ₄	1993 10 24.28187	01 20 53.00	+12 28 02.9	17.4 V	691	1993 TS ₄	1993 10 21.37417	02 33 10.94	+21 58 54.8	691	691
1993 TJ ₄	1993 10 24.28978	01 20 52.58	+12 28 01.7	691	1993 TS ₄	1993 10 21.41013	02 33 08.75	+21 58 43.1	691	691	
1993 TK ₄	* 1993 10 08.19024	01 35 13.42	+13 09 04.1	691	1993 TS ₄	1993 10 21.42955	02 33 07.57	+21 58 37.6	20.1 V	691	
1993 TK ₄	1993 10 08.23340	01 35 10.20	+13 09 32.0	20.1 V	691	1993 TT ₄	* 1993 10 08.43140	02 45 38.15	+23 04 40.4	691	691
1993 TK ₄	1993 10 08.28545	01 35 06.31	+13 10 04.4	691	1993 TT ₄	1993 10 08.45847	02 45 36.98	+23 04 34.8	691	691	
1993 TK ₄	1993 10 15.24789	01 26 20.09	+14 21 01.6	691	1993 TT ₄	1993 10 08.48579	02 45 35.82	+23 04 30.3	19.9 V	691	
1993 TK ₄	1993 10 15.28790	01 26 16.80	+14 21 25.3	691	1993 TT ₄	1993 10 21.37563	02 35 17.18	+22 03 08.1	20.7 V	691	
1993 TK ₄	1993 10 15.32787	01 26 13.51	+14 21 48.5	19.8 V	691	1993 TT ₄	1993 10 21.41159	02 35 15.15	+22 02 55.7	691	691
1993 TL ₄	* 1993 10 08.19229	01 38 11.29	+13 15 36.6	18.4 V	691	1993 TT ₄	1993 10 21.43100	02 35 14.03	+22 02 48.7	691	691
1993 TL ₄	1993 10 08.23545	01 38 08.44	+13 15 41.8	691	1993 TU ₄	* 1993 10 08.43157	02 45 52.88	+23 08 52.6	691	691	
1993 TL ₄	1993 10 08.28752	01 38 05.00	+13 15 48.0	691	1993 TU ₄	1993 10 08.45865	02 45 51.79	+23 08 47.3	691	691	
1993 TL ₄	1993 10 20.23127	01 24 47.25	+13 32 33.4	18.6 V	691	1993 TU ₄	1993 10 08.48596	02 45 50.68	+23 08 41.5	20.5 V	691

1993 TU ₄	1993 10 21.37590	02 35 40.59	+22 07 13.7		691	1993 TD ₅	1993 10 08.47194	03 05 03.99	+23 02 18.3		691
1993 TU ₄	1993 10 21.41186	02 35 38.55	+22 07 00.8	19.6 V	691	1993 TD ₅	1993 10 08.49926	03 05 02.90	+23 02 15.5		691
1993 TU ₄	1993 10 21.43128	02 35 37.46	+22 06 52.9		691	1993 TD ₅	1993 10 16.31638	02 59 05.48	+22 45 17.2		691
1993 TV ₄	* 1993 10 08.43445	02 50 02.56	+22 43 47.8	20.3 V	691	1993 TD ₅	1993 10 16.35483	02 59 03.40	+22 45 10.8	19.4 V	691
1993 TV ₄	1993 10 08.46153	02 50 01.47	+22 43 42.4		691	1993 TD ₅	1993 10 16.39210	02 59 01.40	+22 45 04.5		691
1993 TV ₄	1993 10 08.48884	02 50 00.31	+22 43 36.6		691	1993 TD ₅	1993 10 21.31893	02 54 32.71	+22 29 07.0	19.8 V	691
1993 TV ₄	1993 10 09.45697	02 49 22.58	+22 40 22.2		691	1993 TD ₅	1993 10 21.33968	02 54 31.51	+22 29 02.2		691
1993 TV ₄	1993 10 09.47705	02 49 21.72	+22 40 17.2		691	1993 TD ₅	1993 10 21.35777	02 54 30.44	+22 28 58.2		691
1993 TV ₄	1993 10 09.49678	02 49 20.92	+22 40 12.8	20.0 V	691	1993 TE ₅	* 1993 10 08.44526	03 05 39.18	+22 52 35.4	16.5 V	691
1993 TW ₄	* 1993 10 08.43488	02 50 39.78	+22 54 27.2		691	1993 TE ₅	1993 10 08.47234	03 05 38.07	+22 52 32.2		691
1993 TW ₄	1993 10 08.46196	02 50 38.86	+22 54 21.0	19.6 V	691	1993 TE ₅	1993 10 08.49965	03 05 36.98	+22 52 28.9		691
1993 TW ₄	1993 10 08.48928	02 50 37.99	+22 54 15.0		691	1993 TE ₅	1993 10 09.46779	03 04 59.60	+22 50 35.0	16.3 V	691
1993 TW ₄	1993 10 09.45749	02 50 06.88	+22 50 49.9	19.9 V	691	1993 TE ₅	1993 10 09.48787	03 04 58.76	+22 50 32.3		691
1993 TW ₄	1993 10 09.47757	02 50 06.18	+22 50 44.8		691	1993 TE ₅	1993 10 09.50760	03 04 57.92	+22 50 29.0		691
1993 TW ₄	1993 10 09.49730	02 50 05.53	+22 50 39.9		691	1993 TE ₅	1993 10 12.35927	03 02 55.80	+22 43 39.3	16.4 V	691
1993 TX ₄	* 1993 10 08.43608	02 52 23.94	+23 09 55.6		691	1993 TE ₅	1993 10 12.39026	03 02 54.29	+22 43 34.3		691
1993 TX ₄	1993 10 08.46315	02 52 22.48	+23 09 55.7	17.1 V	691	1993 TE ₅	1993 10 12.42119	03 02 52.71	+22 43 30.1		691
1993 TX ₄	1993 10 08.49047	02 52 21.02	+23 09 55.8		691	1993 TE ₅	1993 10 13.32676	03 02 10.48	+22 40 55.1	16.2 V	691
1993 TX ₄	1993 10 12.44911	02 48 43.54	+23 09 10.6		691	1993 TE ₅	1993 10 13.33614	03 02 09.99	+22 40 53.5		691
1993 TX ₄	1993 10 12.47349	02 48 42.05	+23 09 09.9	16.6 V	691	1993 TE ₅	1993 10 13.34542	03 02 09.34	+22 40 50.4		691
1993 TX ₄	1993 10 12.49751	02 48 40.56	+23 09 08.5		691	1993 TE ₅	1993 10 16.31677	02 59 38.84	+22 31 09.9	15.8 V	691
1993 TY ₄	* 1993 10 08.43623	02 52 36.67	+23 07 38.1		691	1993 TE ₅	1993 10 16.35521	02 59 36.64	+22 31 01.6		691
1993 TY ₄	1993 10 08.46331	02 52 35.61	+23 07 39.0		691	1993 TE ₅	1993 10 16.39248	02 59 34.54	+22 30 53.5		691
1993 TY ₄	1993 10 08.49062	02 52 34.49	+23 07 38.3	20.4 V	691	1993 TF ₅	* 1993 10 08.44559	03 06 07.22	+23 09 21.9		691
1993 TY ₄	1993 10 12.44992	02 49 53.93	+23 07 13.0	20.3 V	691	1993 TF ₅	1993 10 08.47266	03 06 06.06	+23 09 27.5	17.9 V	691
1993 TY ₄	1993 10 12.47431	02 49 52.80	+23 07 13.7		691	1993 TF ₅	1993 10 08.49998	03 06 04.92	+23 09 32.8		691
1993 TY ₄	1993 10 12.49833	02 49 51.72	+23 07 12.7		691	1993 TF ₅	1993 10 12.45911	03 03 09.98	+23 21 44.6	17.4 V	691
1993 TZ ₄	* 1993 10 08.43990	02 57 54.49	+23 13 22.7	19.4 V	691	1993 TF ₅	1993 10 12.48350	03 03 08.78	+23 21 48.4		691
1993 TZ ₄	1993 10 08.46698	02 57 53.69	+23 13 17.2		691	1993 TF ₅	1993 10 12.50751	03 03 07.62	+23 21 52.6		691
1993 TZ ₄	1993 10 08.49430	02 57 52.82	+23 13 12.1		691	1993 TG ₅	* 1993 10 08.44585	03 06 30.26	+22 57 00.1	19.2 V	691
1993 TZ ₄	1993 10 21.38525	02 49 10.45	+22 17 38.5	18.4 V	691	1993 TG ₅	1993 10 08.47293	03 06 29.33	+22 56 55.6		691
1993 TZ ₄	1993 10 21.42121	02 49 08.55	+22 17 25.1		691	1993 TG ₅	1993 10 08.50025	03 06 28.39	+22 56 50.9		691
1993 TZ ₄	1993 10 21.44063	02 49 07.51	+22 17 18.7		691	1993 TG ₅	1993 10 13.32775	03 03 36.24	+22 41 28.6	19.4 V	691
1993 TA ₅	* 1993 10 08.44032	02 58 30.81	+22 59 13.8	20.4 V	691	1993 TG ₅	1993 10 13.33713	03 03 35.83	+22 41 26.5		691
1993 TA ₅	1993 10 08.46739	02 58 29.80	+22 59 17.2		691	1993 TG ₅	1993 10 13.34641	03 03 35.45	+22 41 24.7		691
1993 TA ₅	1993 10 08.49471	02 58 28.65	+22 59 20.1		691	1993 TH ₅	* 1993 10 08.44610	03 06 51.59	+23 10 39.7		691
1993 TA ₅	1993 10 12.45406	02 55 52.39	+23 06 52.0		691	1993 TH ₅	1993 10 08.47318	03 06 50.71	+23 10 37.4	19.5 V	691
1993 TA ₅	1993 10 12.47845	02 55 51.25	+23 06 54.5		691	1993 TH ₅	1993 10 08.50050	03 06 49.88	+23 10 35.4		691
1993 TA ₅	1993 10 12.50247	02 55 50.21	+23 06 57.2	20.4 V	691	1993 TH ₅	1993 10 12.46013	03 04 38.94	+23 05 05.7		691
1993 TB ₅	* 1993 10 08.44214	03 01 08.22	+22 52 14.9	19.4 V	691	1993 TH ₅	1993 10 12.48453	03 04 38.02	+23 05 02.8	19.7 V	691
1993 TB ₅	1993 10 08.46921	03 01 07.17	+22 51 39.1		691	1993 TH ₅	1993 10 12.50855	03 04 37.07	+23 05 00.1		691
1993 TB ₅	1993 10 08.49653	03 01 06.13	+22 51 02.9		691	1993 TH ₅	1993 10 21.32135	02 58 20.23	+22 43 32.8		691
1993 TB ₅	1993 10 09.46469	03 00 30.99	+22 29 56.2	19.7 V	691	1993 TH ₅	1993 10 21.34209	02 58 19.17	+22 43 28.6	19.1 V	691
1993 TB ₅	1993 10 09.48477	03 00 30.16	+22 29 29.3		691	1993 TH ₅	1993 10 21.36018	02 58 17.87	+22 43 25.4		691
1993 TB ₅	1993 10 09.50450	03 00 29.37	+22 29 03.4		691	1993 TH ₅	1993 10 24.43400	02 55 43.79	+22 33 02.3		691
1993 TC ₅	* 1993 10 08.44228	03 01 20.39	+22 54 44.1		691	1993 TH ₅	1993 10 24.44224	02 55 43.30	+22 33 00.6		691
1993 TC ₅	1993 10 08.46936	03 01 19.71	+22 54 33.7	20.0 V	691	1993 TH ₅	1993 10 24.45006	02 55 42.93	+22 32 58.6	19.4 V	691
1993 TC ₅	1993 10 08.49668	03 01 19.01	+22 54 23.4		691	1993 TJ ₅	* 1993 10 08.44615	03 06 55.98	+22 54 28.6		691
1993 TC ₅	1993 10 09.46497	03 00 55.40	+22 48 20.5		691	1993 TJ ₅	1993 10 08.47323	03 06 54.96	+22 54 26.6	20.7 V	691
1993 TC ₅	1993 10 09.48505	03 00 54.67	+22 48 14.0		691	1993 TJ ₅	1993 10 08.50054	03 06 53.92	+22 54 24.0		691
1993 TC ₅	1993 10 09.50479	03 00 54.30	+22 48 04.0	20.6 V	691	1993 TJ ₅	1993 10 13.32782	03 03 42.45	+22 44 47.8		691
1993 TD ₅	* 1993 10 08.44487	03 05 05.11	+23 02 20.6	19.8 V	691	1993 TJ ₅	1993 10 13.33720	03 03 41.97	+22 44 46.5	20.5 V	691

1993 TJ ₅	1993 10 13.34648	03 03 41.51	+22 44 46.6	691	1993 TS ₅	1993 10 15.31425	01 39 20.73	+15 04 48.6	691		
1993 TK ₅	* 1993 10 09.32493	01 38 19.79	+15 19 42.3	691	1993 TT ₅	* 1993 10 09.32937	01 44 44.89	+15 43 32.0	691		
1993 TK ₅	1993 10 09.36870	01 38 17.52	+15 19 15.6	19.2 V	691	1993 TT ₅	1993 10 09.37316	01 44 43.54	+15 42 59.5	18.7 V	691
1993 TK ₅	1993 10 09.41300	01 38 15.22	+15 18 49.0	691	1993 TT ₅	1993 10 09.41747	01 44 42.15	+15 42 26.7	691		
1993 TK ₅	1993 10 15.25276	01 33 21.73	+14 18 31.4	691	1993 TT ₅	1993 10 15.25857	01 41 45.48	+14 28 01.7	18.4 V	691	
1993 TK ₅	1993 10 15.29278	01 33 19.61	+14 18 06.0	691	1993 TT ₅	1993 10 15.29860	01 41 44.09	+14 27 30.1	691		
1993 TK ₅	1993 10 15.33276	01 33 17.49	+14 17 40.6	18.7 V	691	1993 TT ₅	1993 10 15.33859	01 41 42.73	+14 26 58.6	691	
1993 TL ₅	* 1993 10 09.32574	01 39 30.60	+15 29 00.0	691	1993 TU ₅	* 1993 10 09.32976	01 45 18.30	+15 23 12.7	20.5 V	691	
1993 TL ₅	1993 10 09.36952	01 39 27.89	+15 28 48.5	19.0 V	691	1993 TU ₅	1993 10 09.37353	01 45 15.98	+15 23 00.4	691	
1993 TL ₅	1993 10 09.41381	01 39 25.14	+15 28 36.4	691	1993 TU ₅	1993 10 09.41783	01 45 13.73	+15 22 50.0	691		
1993 TL ₅	1993 10 15.22771	01 33 28.88	+15 00 45.5	691	1993 TU ₅	1993 10 15.23245	01 40 19.94	+14 56 29.2	20.4 V	691	
1993 TL ₅	1993 10 15.27024	01 33 26.18	+15 00 32.6	18.9 V	691	1993 TU ₅	1993 10 15.27499	01 40 17.63	+14 56 17.2	691	
1993 TL ₅	1993 10 15.31013	01 33 23.59	+15 00 20.3	691	1993 TU ₅	1993 10 15.31489	01 40 15.52	+14 56 05.9	691		
1993 TM ₅	* 1993 10 09.32612	01 40 03.33	+15 28 07.4	19.8 V	691	1993 TV ₅	* 1993 10 09.33063	01 46 34.32	+15 39 38.8	20.4 V	691
1993 TM ₅	1993 10 09.41420	01 39 58.50	+15 27 44.8	691	1993 TV ₅	1993 10 09.37440	01 46 31.52	+15 39 27.1	691		
1993 TM ₅	1993 10 15.22863	01 34 48.71	+15 00 44.8	19.4 V	691	1993 TV ₅	1993 10 15.23251	01 40 25.19	+15 10 18.5	691	
1993 TM ₅	1993 10 15.31106	01 34 43.99	+15 00 20.3	691	1993 TV ₅	1993 10 15.27505	01 40 22.36	+15 10 04.2	691		
1993 TN ₅	* 1993 10 09.32711	01 41 28.89	+15 26 26.4	18.9 V	691	1993 TV ₅	1993 10 15.31494	01 40 19.77	+15 09 51.6	20.0 V	691
1993 TN ₅	1993 10 09.37088	01 41 26.21	+15 26 18.9	691	1993 TW ₅	* 1993 10 09.33122	01 47 25.05	+15 22 25.6	691		
1993 TN ₅	1993 10 09.41518	01 41 23.49	+15 26 11.4	691	1993 TW ₅	1993 10 09.37499	01 47 22.56	+15 22 15.5	691		
1993 TN ₅	1993 10 15.22918	01 35 36.75	+15 07 58.5	691	1993 TW ₅	1993 10 09.41929	01 47 20.08	+15 22 05.8	20.5 V	691	
1993 TN ₅	1993 10 15.27172	01 35 34.08	+15 07 49.8	18.6 V	691	1993 TW ₅	1993 10 15.23358	01 41 58.02	+14 58 59.6	691	
1993 TN ₅	1993 10 15.31161	01 35 31.52	+15 07 41.5	691	1993 TW ₅	1993 10 15.27612	01 41 55.50	+14 58 48.7	20.5 V	691	
1993 TO ₅	* 1993 10 09.32838	01 43 18.72	+15 33 19.1	691	1993 TW ₅	1993 10 15.31601	01 41 53.18	+14 58 38.7	691		
1993 TO ₅	1993 10 09.37215	01 43 16.16	+15 33 10.7	691	1993 TX ₅	* 1993 10 09.33221	01 48 50.94	+15 47 32.7	691		
1993 TO ₅	1993 10 09.41645	01 43 13.57	+15 33 02.3	20.4 V	691	1993 TX ₅	1993 10 09.37599	01 48 48.83	+15 47 16.9	691	
1993 TO ₅	1993 10 15.23064	01 37 43.36	+15 12 54.4	19.9 V	691	1993 TX ₅	1993 10 09.42029	01 48 46.68	+15 47 00.2	19.7 V	691
1993 TO ₅	1993 10 15.27318	01 37 40.77	+15 12 45.4	691	1993 TX ₅	1993 10 15.23505	01 44 05.07	+15 09 24.5	691		
1993 TO ₅	1993 10 15.31307	01 37 38.41	+15 12 36.1	691	1993 TX ₅	1993 10 15.27759	01 44 02.81	+15 09 07.6	691		
1993 TP ₅	* 1993 10 09.32841	01 43 21.37	+15 26 57.8	691	1993 TX ₅	1993 10 15.31749	01 44 00.75	+15 08 51.5	19.5 V	691	
1993 TP ₅	1993 10 09.37219	01 43 19.30	+15 26 45.5	19.3 V	691	1993 TY ₅	* 1993 10 09.33243	01 49 09.91	+15 21 44.7	691	
1993 TP ₅	1993 10 09.41649	01 43 17.25	+15 26 32.8	691	1993 TY ₅	1993 10 09.37621	01 49 07.95	+15 21 25.5	17.4 V	691	
1993 TP ₅	1993 10 15.23142	01 38 50.20	+14 57 00.9	691	1993 TY ₅	1993 10 09.42052	01 49 05.98	+15 21 05.6	691		
1993 TP ₅	1993 10 15.27396	01 38 48.03	+14 56 47.0	691	1993 TY ₅	1993 10 15.26070	01 44 50.01	+14 36 35.1	691		
1993 TP ₅	1993 10 15.31385	01 38 46.05	+14 56 33.8	19.3 V	691	1993 TY ₅	1993 10 15.30072	01 44 48.16	+14 36 16.1	16.8 V	691
1993 TQ ₅	* 1993 10 09.32877	01 43 52.85	+15 46 22.0	691	1993 TY ₅	1993 10 15.34071	01 44 46.30	+14 35 57.5	691		
1993 TQ ₅	1993 10 09.37255	01 43 50.50	+15 46 00.1	691	1993 TZ ₅	* 1993 10 09.33304	01 50 02.59	+15 29 23.9	691		
1993 TQ ₅	1993 10 09.41685	01 43 48.14	+15 45 37.9	17.4 V	691	1993 TZ ₅	1993 10 09.37682	01 50 00.38	+15 29 10.3	21.3 V	691
1993 TQ ₅	1993 10 15.23134	01 38 43.80	+14 55 22.4	17.3 V	691	1993 TZ ₅	1993 10 09.42112	01 49 58.14	+15 28 55.6	691	
1993 TQ ₅	1993 10 15.27388	01 38 41.39	+14 54 59.5	691	1993 TZ ₅	1993 10 15.23579	01 45 09.36	+14 56 57.3	691		
1993 TQ ₅	1993 10 15.31377	01 38 39.18	+14 54 38.2	691	1993 TZ ₅	1993 10 15.27833	01 45 07.07	+14 56 42.6	20.7 V	691	
1993 TR ₅	* 1993 10 09.32891	01 44 05.40	+15 26 47.8	691	1993 TZ ₅	1993 10 15.31823	01 45 05.06	+14 56 30.2	691		
1993 TR ₅	1993 10 09.37269	01 44 02.66	+15 26 33.8	691	1993 TA ₆	* 1993 10 09.33331	01 50 26.40	+15 26 45.0	691		
1993 TR ₅	1993 10 09.41698	01 43 59.91	+15 26 20.1	20.5 V	691	1993 TA ₆	1993 10 09.37708	01 50 23.53	+15 26 39.1	19.9 V	691
1993 TR ₅	1993 10 15.23090	01 38 05.89	+14 54 04.9	691	1993 TA ₆	1993 10 09.42138	01 50 20.65	+15 26 33.5	691		
1993 TR ₅	1993 10 15.27344	01 38 03.06	+14 53 49.8	20.9 V	691	1993 TA ₆	1993 10 15.23505	01 44 05.23	+15 12 44.9	691	
1993 TR ₅	1993 10 15.31333	01 38 00.46	+14 53 35.7	691	1993 TA ₆	1993 10 15.27759	01 44 02.34	+15 12 38.1	691		
1993 TS ₅	* 1993 10 09.32903	01 44 15.34	+15 41 47.4	20.0 V	691	1993 TA ₆	1993 10 15.31747	01 43 59.61	+15 12 31.8	20.1 V	691
1993 TS ₅	1993 10 09.37281	01 44 13.15	+15 41 32.4	691	1993 TB ₆	* 1993 10 09.33396	01 51 22.34	+15 25 50.0	691		
1993 TS ₅	1993 10 09.41711	01 44 10.97	+15 41 16.9	691	1993 TB ₆	1993 10 09.37774	01 51 20.29	+15 25 43.8	18.5 V	691	
1993 TS ₅	1993 10 15.23182	01 39 25.05	+15 05 20.7	19.8 V	691	1993 TB ₆	1993 10 09.42204	01 51 18.18	+15 25 37.7	691	
1993 TS ₅	1993 10 15.27436	01 39 22.75	+15 05 04.0	691	1993 TB ₆	1993 10 15.23689	01 46 44.46	+15 10 38.2	691		

1993 TB ₆	1993 10 15.27943	01 46 42.34	+15 10 31.0	18.2 V	691	1993 TF ₆	1993 10 24.42574	01 42 46.94	+13 37 23.0	19.2 V	691
1993 TB ₆	1993 10 15.31933	01 46 40.36	+15 10 24.3		691	1993 TG ₆	* 1993 10 09.33579	01 54 01.00	+15 43 15.1		691
1993 TB ₆	1993 10 16.27672	01 45 53.85	+15 07 39.6	18.2 V	691	1993 TG ₆	1993 10 09.37957	01 53 59.32	+15 42 53.3	20.1 V	691
1993 TB ₆	1993 10 16.28529	01 45 53.46	+15 07 37.9		691	1993 TG ₆	1993 10 09.42388	01 53 57.64	+15 42 32.3		691
1993 TB ₆	1993 10 16.29383	01 45 52.99	+15 07 36.5		691	1993 TG ₆	1993 10 15.23938	01 50 19.92	+14 53 37.1		691
1993 TC ₆	* 1993 10 09.33467	01 52 24.24	+15 41 51.8	20.7 V	691	1993 TG ₆	1993 10 15.28192	01 50 18.03	+14 53 13.4	19.8 V	691
1993 TC ₆	1993 10 09.37845	01 52 22.30	+15 41 29.0		691	1993 TG ₆	1993 10 15.32182	01 50 16.35	+14 52 52.1		691
1993 TC ₆	1993 10 09.42276	01 52 20.33	+15 41 05.5		691	1993 TG ₆	1993 10 15.35700	01 50 14.73	+14 52 33.6		691
1993 TC ₆	1993 10 15.23780	01 48 03.31	+14 49 10.7		691	1993 TG ₆	1993 10 15.36720	01 50 14.37	+14 52 27.8	20.0 V	691
1993 TC ₆	1993 10 15.28035	01 48 01.39	+14 48 48.3		691	1993 TG ₆	1993 10 15.37759	01 50 13.94	+14 52 22.4		691
1993 TC ₆	1993 10 15.32024	01 47 59.47	+14 48 25.7	20.7 V	691	1993 TG ₆	1993 10 16.27931	01 49 38.24	+14 44 19.3	19.9 V	691
1993 TC ₆	1993 10 15.35542	01 47 57.79	+14 48 06.4		691	1993 TG ₆	1993 10 16.28788	01 49 37.84	+14 44 14.7		691
1993 TC ₆	1993 10 15.36562	01 47 57.35	+14 48 00.5	20.5 V	691	1993 TG ₆	1993 10 16.29642	01 49 37.46	+14 44 10.1		691
1993 TC ₆	1993 10 15.37601	01 47 56.87	+14 47 54.5		691	1993 TG ₆	1993 10 20.25829	01 46 56.15	+14 07 43.7		691
1993 TD ₆	* 1993 10 09.33484	01 52 38.46	+15 28 54.6		691	1993 TG ₆	1993 10 20.29190	01 46 54.62	+14 07 25.3		691
1993 TD ₆	1993 10 09.37861	01 52 36.25	+15 28 36.0	18.8 V	691	1993 TG ₆	1993 10 20.32436	01 46 53.11	+14 07 06.6	19.3 V	691
1993 TD ₆	1993 10 09.42292	01 52 34.02	+15 28 16.9		691	1993 TH ₆	* 1993 10 09.33579	01 54 01.14	+15 25 41.2	20.5 V	691
1993 TD ₆	1993 10 15.23761	01 47 47.12	+14 45 06.3		691	1993 TH ₆	1993 10 09.37957	01 53 59.31	+15 25 24.7		691
1993 TD ₆	1993 10 15.28015	01 47 44.88	+14 44 46.7	18.7 V	691	1993 TH ₆	1993 10 09.42388	01 53 57.51	+15 25 08.3		691
1993 TD ₆	1993 10 15.32005	01 47 42.77	+14 44 28.2		691	1993 TH ₆	1993 10 15.23913	01 49 58.73	+14 47 17.7	20.1 V	691
1993 TD ₆	1993 10 15.35523	01 47 40.88	+14 44 12.0		691	1993 TH ₆	1993 10 15.28168	01 49 56.89	+14 47 00.7		691
1993 TD ₆	1993 10 15.36542	01 47 40.33	+14 44 07.3	18.7 V	691	1993 TH ₆	1993 10 15.32158	01 49 55.12	+14 46 44.3		691
1993 TD ₆	1993 10 15.37581	01 47 39.80	+14 44 02.5		691	1993 TH ₆	1993 10 15.35676	01 49 53.56	+14 46 29.7		691
1993 TD ₆	1993 10 24.40618	01 40 03.53	+13 32 08.8	18.6 V	691	1993 TH ₆	1993 10 15.36695	01 49 53.12	+14 46 25.8	20.5 V	691
1993 TD ₆	1993 10 24.41592	01 40 03.08	+13 32 04.1		691	1993 TH ₆	1993 10 15.37734	01 49 52.68	+14 46 21.8		691
1993 TD ₆	1993 10 24.42384	01 40 02.69	+13 32 00.0		691	1993 TH ₆	1993 10 20.25792	01 46 24.13	+14 12 37.3	19.7 V	691
1993 TE ₆	* 1993 10 09.33524	01 53 13.46	+15 31 53.7	18.8 V	691	1993 TH ₆	1993 10 20.29153	01 46 22.61	+14 12 23.7		691
1993 TE ₆	1993 10 09.37902	01 53 10.96	+15 31 46.9		691	1993 TH ₆	1993 10 20.32400	01 46 21.15	+14 12 09.7		691
1993 TE ₆	1993 10 09.42331	01 53 08.43	+15 31 39.7		691	1993 TH ₆	1993 10 21.20591	01 45 43.33	+14 05 55.9		691
1993 TE ₆	1993 10 16.27727	01 46 41.76	+15 10 13.2		691	1993 TH ₆	1993 10 21.24077	01 45 41.85	+14 05 42.1	20.1 V	691
1993 TE ₆	1993 10 16.28584	01 46 41.20	+15 10 11.1		691	1993 TH ₆	1993 10 21.27522	01 45 40.26	+14 05 27.0		691
1993 TE ₆	1993 10 16.29438	01 46 40.71	+15 10 09.8	18.6 V	691	1993 TH ₆	1993 10 24.30472	01 43 33.08	+13 38 21.5	20.6 V	691
1993 TF ₆	* 1993 10 09.33575	01 53 57.92	+15 50 44.4	19.6 V	691	1993 TH ₆	1993 10 24.31279	01 43 32.56	+13 38 18.5		691
1993 TF ₆	1993 10 09.35566	01 53 57.03	+15 50 35.3	19.7 V	691	1993 TJ ₆	* 1993 10 09.33590	01 54 10.65	+15 24 03.5		691
1993 TF ₆	1993 10 09.37954	01 53 56.04	+15 50 22.3		691	1993 TJ ₆	1993 10 09.37968	01 54 08.41	+15 23 57.8	21.2 V	691
1993 TF ₆	1993 10 09.40114	01 53 54.96	+15 50 12.7		691	1993 TJ ₆	1993 10 09.42398	01 54 06.14	+15 23 51.7		691
1993 TF ₆	1993 10 09.42384	01 53 54.09	+15 50 00.8		691	1993 TJ ₆	1993 10 15.28113	01 49 09.35	+15 09 01.3		691
1993 TF ₆	1993 10 09.44089	01 53 53.30	+15 49 53.3		691	1993 TJ ₆	1993 10 15.32102	01 49 07.19	+15 08 54.9	20.7 V	691
1993 TF ₆	1993 10 15.23893	01 49 41.37	+15 00 33.7		691	1993 TK ₆	* 1993 10 09.33596	01 54 15.52	+15 23 33.8		691
1993 TF ₆	1993 10 15.28148	01 49 39.40	+15 00 11.1	19.3 V	691	1993 TK ₆	1993 10 09.37973	01 54 12.78	+15 23 27.8		691
1993 TF ₆	1993 10 15.32137	01 49 37.53	+14 59 50.4		691	1993 TK ₆	1993 10 09.42402	01 54 09.96	+15 23 21.6	19.8 V	691
1993 TF ₆	1993 10 15.35655	01 49 35.89	+14 59 31.4		691	1993 TK ₆	1993 10 15.23779	01 48 02.88	+15 07 57.3		691
1993 TF ₆	1993 10 15.36675	01 49 35.41	+14 59 25.9		691	1993 TK ₆	1993 10 15.28033	01 48 00.06	+15 07 50.0	19.3 V	691
1993 TF ₆	1993 10 15.37714	01 49 34.90	+14 59 20.5	19.5 V	691	1993 TK ₆	1993 10 15.32022	01 47 57.38	+15 07 42.8		691
1993 TF ₆	1993 10 20.25758	01 45 54.76	+14 15 34.2	18.9 V	691	1993 TK ₆	1993 10 15.35539	01 47 54.99	+15 07 36.3	19.2 V	691
1993 TF ₆	1993 10 20.29119	01 45 53.15	+14 15 16.0		691	1993 TK ₆	1993 10 15.36558	01 47 54.32	+15 07 34.3		691
1993 TF ₆	1993 10 20.32366	01 45 51.64	+14 14 58.2		691	1993 TK ₆	1993 10 15.37597	01 47 53.59	+15 07 32.5		691
1993 TF ₆	1993 10 21.20555	01 45 11.97	+14 06 55.9		691	1993 TK ₆	1993 10 16.27742	01 46 54.85	+15 04 48.2	19.5 V	691
1993 TF ₆	1993 10 21.24041	01 45 10.32	+14 06 36.6	19.2 V	691	1993 TK ₆	1993 10 16.28599	01 46 54.24	+15 04 46.8		691
1993 TF ₆	1993 10 21.27485	01 45 08.71	+14 06 17.9		691	1993 TK ₆	1993 10 16.29453	01 46 53.70	+15 04 45.2		691
1993 TF ₆	1993 10 24.40807	01 42 47.77	+13 37 32.8		691	1993 TL ₆	* 1993 10 09.33608	01 54 26.55	+15 28 50.2		691
1993 TF ₆	1993 10 24.41782	01 42 47.31	+13 37 27.6		691	1993 TL ₆	1993 10 09.37986	01 54 24.29	+15 28 39.4		691

1993 TL ₆	1993 10 09.42416	01 54 22.01	+15 28 28.9	20.9 V	691	1993 TO ₆	1993 10 16.29700	01 50 27.67	+14 52 21.3		691
1993 TL ₆	1993 10 15.23870	01 49 21.76	+15 02 50.4		691	1993 TO ₆	1993 10 20.25817	01 46 45.48	+14 22 15.9	18.8 V	691
1993 TL ₆	1993 10 15.28125	01 49 19.37	+15 02 38.7	20.5 V	691	1993 TO ₆	1993 10 20.29177	01 46 43.51	+14 22 00.7		691
1993 TL ₆	1993 10 15.32114	01 49 17.11	+15 02 27.1		691	1993 TO ₆	1993 10 20.32423	01 46 41.61	+14 21 45.5		691
1993 TL ₆	1993 10 15.35631	01 49 15.10	+15 02 16.9		691	1993 TO ₆	1993 10 24.29670	01 42 59.92	+13 50 45.7	19.2 V	691
1993 TL ₆	1993 10 15.36651	01 49 14.50	+15 02 14.2	20.5 V	691	1993 TO ₆	1993 10 24.30433	01 42 59.46	+13 50 42.1		691
1993 TL ₆	1993 10 15.37690	01 49 13.97	+15 02 10.5		691	1993 TO ₆	1993 10 24.31240	01 42 59.02	+13 50 38.1		691
1993 TL ₆	1993 10 16.27847	01 48 25.29	+14 57 48.0		691	1993 TO ₆	1993 10 24.40814	01 42 53.55	+13 49 53.0	19.2 V	691
1993 TL ₆	1993 10 16.28703	01 48 24.76	+14 57 45.1	20.8 V	691	1993 TO ₆	1993 10 24.41789	01 42 52.98	+13 49 48.0		691
1993 TL ₆	1993 10 16.29558	01 48 24.27	+14 57 42.5		691	1993 TO ₆	1993 10 24.42580	01 42 52.55	+13 49 44.6		691
1993 TL ₆	1993 10 20.25678	01 44 45.25	+14 37 22.4		691	1993 TP ₆	* 1993 10 09.33825	01 57 34.63	+15 27 26.6		691
1993 TL ₆	1993 10 20.29038	01 44 43.23	+14 37 11.9	19.9 V	691	1993 TP ₆	1993 10 09.38203	01 57 32.39	+15 27 19.7	20.4 V	691
1993 TL ₆	1993 10 20.32284	01 44 41.37	+14 37 02.8		691	1993 TP ₆	1993 10 09.42634	01 57 30.18	+15 27 12.3		691
1993 TL ₆	1993 10 21.20463	01 43 52.39	+14 32 18.5	20.1 V	691	1993 TP ₆	1993 10 16.28080	01 51 47.23	+15 05 11.9	20.3 V	691
1993 TL ₆	1993 10 21.23948	01 43 50.38	+14 32 06.7		691	1993 TP ₆	1993 10 16.28936	01 51 46.73	+15 05 10.2		691
1993 TL ₆	1993 10 21.27392	01 43 48.34	+14 31 56.1		691	1993 TP ₆	1993 10 16.29791	01 51 46.25	+15 05 08.0		691
1993 TM ₆	* 1993 10 09.33676	01 55 24.70	+15 25 07.6		691	1993 TQ ₆	* 1993 10 09.34936	01 44 51.79	+16 02 09.2	18.6 V	691
1993 TM ₆	1993 10 09.38053	01 55 22.06	+15 24 58.6		691	1993 TQ ₆	1993 10 09.39484	01 44 49.83	+16 01 39.7		691
1993 TM ₆	1993 10 09.42483	01 55 19.46	+15 24 48.1	19.2 V	691	1993 TQ ₆	1993 10 09.43460	01 44 48.11	+16 01 12.9		691
1993 TM ₆	1993 10 15.23883	01 49 32.80	+15 01 26.5	19.0 V	691	1993 TQ ₆	1993 10 15.23271	01 40 42.56	+14 54 46.2	18.7 V	691
1993 TM ₆	1993 10 15.28137	01 49 30.15	+15 01 15.7		691	1993 TQ ₆	1993 10 15.31515	01 40 38.73	+14 53 47.6		691
1993 TM ₆	1993 10 15.32126	01 49 27.62	+15 01 05.6		691	1993 TR ₆	* 1993 10 09.34948	01 45 02.36	+15 50 18.5		691
1993 TM ₆	1993 10 15.35643	01 49 25.41	+15 00 56.2	18.7 V	691	1993 TR ₆	1993 10 09.39497	01 45 00.29	+15 50 00.8	20.9 V	691
1993 TM ₆	1993 10 15.36662	01 49 24.65	+15 00 48.8		691	1993 TR ₆	1993 10 09.43472	01 44 58.61	+15 49 46.4		691
1993 TM ₆	1993 10 16.27851	01 48 28.90	+14 56 54.7	19.1 V	691	1993 TR ₆	1993 10 15.23276	01 40 46.70	+15 11 27.1	20.6 V	691
1993 TM ₆	1993 10 16.28707	01 48 28.31	+14 56 52.5		691	1993 TR ₆	1993 10 15.27531	01 40 44.73	+15 11 09.0		691
1993 TM ₆	1993 10 16.29562	01 48 27.78	+14 56 50.3		691	1993 TR ₆	1993 10 15.31520	01 40 42.93	+15 10 52.3		691
1993 TM ₆	1993 10 21.23929	01 43 21.21	+14 34 05.1		691	1993 TS ₆	* 1993 10 09.35056	01 46 35.69	+15 51 10.1	19.3 V	691
1993 TM ₆	1993 10 21.27374	01 43 18.91	+14 33 55.9	18.8 V	691	1993 TS ₆	1993 10 09.43579	01 46 31.59	+15 50 32.2		691
1993 TN ₆	* 1993 10 09.33695	01 55 41.21	+15 27 10.0	19.6 V	691	1993 TS ₆	1993 10 15.23358	01 41 57.87	+15 05 25.0		691
1993 TN ₆	1993 10 09.38073	01 55 39.08	+15 26 58.9		691	1993 TS ₆	1993 10 15.27612	01 41 55.60	+15 05 04.1	19.1 V	691
1993 TN ₆	1993 10 09.42503	01 55 36.92	+15 26 47.4		691	1993 TS ₆	1993 10 15.31602	01 41 53.52	+15 04 44.6		691
1993 TN ₆	1993 10 16.27963	01 50 06.44	+14 54 47.2	19.3 V	691	1993 TT ₆	* 1993 10 09.35071	01 46 48.34	+16 13 53.8	18.7 V	691
1993 TN ₆	1993 10 16.28820	01 50 05.98	+14 54 44.8		691	1993 TT ₆	1993 10 09.39619	01 46 46.53	+16 13 24.7		691
1993 TN ₆	1993 10 16.29675	01 50 05.54	+14 54 42.2		691	1993 TT ₆	1993 10 09.43595	01 46 44.94	+16 12 58.8		691
1993 TN ₆	1993 10 20.25817	01 46 45.52	+14 34 02.5	18.5 V	691	1993 TT ₆	1993 10 10.24908	01 46 13.89	+16 04 10.4		691
1993 TN ₆	1993 10 20.29177	01 46 43.73	+14 33 52.1		691	1993 TT ₆	1993 10 10.26850	01 46 13.04	+16 03 57.7		691
1993 TN ₆	1993 10 20.32424	01 46 41.99	+14 33 41.7		691	1993 TT ₆	1993 10 10.28815	01 46 12.25	+16 03 44.5	18.7 V	691
1993 TN ₆	1993 10 21.20608	01 45 57.59	+14 28 56.5		691	1993 TU ₆	* 1993 10 09.35162	01 48 07.30	+16 09 54.0	20.0 V	691
1993 TN ₆	1993 10 21.24093	01 45 55.78	+14 28 45.7		691	1993 TU ₆	1993 10 09.39710	01 48 05.04	+16 09 45.7		691
1993 TN ₆	1993 10 21.27537	01 45 53.93	+14 28 34.5	18.8 V	691	1993 TU ₆	1993 10 09.43685	01 48 03.05	+16 09 37.0		691
1993 TO ₆	* 1993 10 09.33768	01 56 44.71	+15 41 33.8	19.5 V	691	1993 TU ₆	1993 10 10.24989	01 47 23.92	+16 06 56.1	19.8 V	691
1993 TO ₆	1993 10 09.38145	01 56 42.33	+15 41 16.5		691	1993 TU ₆	1993 10 10.26930	01 47 22.95	+16 06 52.3		691
1993 TO ₆	1993 10 09.42575	01 56 39.91	+15 40 58.6		691	1993 TU ₆	1993 10 10.28896	01 47 21.95	+16 06 47.9		691
1993 TO ₆	1993 10 15.24014	01 51 26.59	+15 00 09.6	19.2 V	691	1993 TV ₆	* 1993 10 09.35281	01 49 50.63	+16 11 23.2		691
1993 TO ₆	1993 10 15.28269	01 51 24.19	+14 59 51.5		691	1993 TV ₆	1993 10 09.39829	01 49 48.14	+16 11 15.9	17.9 V	691
1993 TO ₆	1993 10 15.32258	01 51 21.86	+14 59 34.0		691	1993 TV ₆	1993 10 10.43803	01 49 45.96	+16 11 09.4		691
1993 TO ₆	1993 10 15.35775	01 51 19.82	+14 59 18.3		691	1993 TV ₆	1993 10 10.25103	01 49 03.06	+16 08 59.3		691
1993 TO ₆	1993 10 15.36795	01 51 19.25	+14 59 13.9	19.6 V	691	1993 TV ₆	1993 10 10.27045	01 49 01.98	+16 08 56.1	17.8 V	691
1993 TO ₆	1993 10 15.37833	01 51 18.63	+14 59 09.2		691	1993 TV ₆	1993 10 10.29010	01 49 00.79	+16 08 52.5		691
1993 TO ₆	1993 10 16.27989	01 50 28.68	+14 52 29.7	19.3 V	691	1993 TW ₆	* 1993 10 09.35331	01 50 33.61	+16 13 11.5	20.5 V	691
1993 TO ₆	1993 10 16.28846	01 50 28.18	+14 52 25.3		691	1993 TW ₆	1993 10 09.39878	01 50 31.13	+16 13 05.2		691

1993 TW ₆	1993 10 09.43853	01 50 28.99	+16 12 59.4	691	1993 TD ₇	1993 10 21.27832	01 50 08.70	+14 27 23.4	691
1993 TW ₆	1993 10 10.25153	01 49 46.57	+16 11 06.1	691	1993 TE ₇	* 1993 10 09.45482	02 46 15.70	+22 30 37.0	19.0 V 691
1993 TW ₆	1993 10 10.27095	01 49 45.49	+16 11 03.0	691	1993 TE ₇	1993 10 09.49463	02 46 14.26	+22 29 55.0	691
1993 TW ₆	1993 10 10.29060	01 49 44.43	+16 11 00.4	20.2 V 691	1993 TE ₇	1993 10 13.35470	02 43 43.23	+21 20 22.8	18.7 V 691
1993 TX ₆	* 1993 10 09.35610	01 54 35.68	+16 11 42.5	20.3 V 691	1993 TE ₇	1993 10 13.36380	02 43 42.85	+21 20 09.1	691
1993 TX ₆	1993 10 09.44133	01 54 31.11	+16 11 27.4	691	1993 TE ₇	1993 10 13.41876	02 43 47.11	+21 18 28.1	18.6 V 691
1993 TX ₆	1993 10 10.25433	01 53 48.92	+16 09 11.6	20.1 V 691	1993 TE ₇	1993 10 13.46122	02 43 45.20	+21 17 38.9	691
1993 TX ₆	1993 10 10.27375	01 53 47.92	+16 09 08.7	691	1993 TE ₇	1993 10 13.50272	02 43 43.37	+21 16 50.6	691
1993 TX ₆	1993 10 10.29340	01 53 46.83	+16 09 05.1	691	1993 TF ₇	* 1993 10 09.45655	02 48 45.62	+22 29 06.6	18.8 V 691
1993 TY ₆	* 1993 10 09.35679	01 55 35.65	+16 06 10.1	691	1993 TF ₇	1993 10 09.47663	02 48 44.60	+22 29 05.8	691
1993 TY ₆	1993 10 09.40228	01 55 33.56	+16 05 38.6	20.8 V 691	1993 TF ₇	1993 10 09.49635	02 48 43.62	+22 29 05.4	691
1993 TY ₆	1993 10 09.44203	01 55 31.71	+16 05 10.2	691	1993 TF ₇	1993 10 21.37728	02 37 40.08	+22 13 20.5	18.1 V 691
1993 TY ₆	1993 10 15.23992	01 51 06.74	+14 55 28.9	691	1993 TF ₇	1993 10 21.41324	02 37 37.78	+22 13 15.4	691
1993 TY ₆	1993 10 15.28246	01 51 04.65	+14 54 57.5	20.7 V 691	1993 TF ₇	1993 10 21.43265	02 37 36.55	+22 13 12.6	691
1993 TY ₆	1993 10 15.32236	01 51 02.61	+14 54 27.8	691	1993 TG ₇	* 1993 10 09.45818	02 51 06.96	+22 23 34.8	691
1993 TY ₆	1993 10 15.35754	01 51 00.89	+14 54 02.1	691	1993 TG ₇	1993 10 09.47826	02 51 06.28	+22 23 32.6	691
1993 TY ₆	1993 10 15.36773	01 51 00.38	+14 53 54.5	21.0 V 691	1993 TG ₇	1993 10 09.49799	02 51 05.70	+22 23 30.3	21.6 V 691
1993 TY ₆	1993 10 15.37812	01 50 59.87	+14 53 46.6	691	1993 TG ₇	1993 10 21.38092	02 42 55.29	+21 54 58.3	691
1993 TY ₆	1993 10 16.27976	01 50 17.47	+14 42 37.2	691	1993 TG ₇	1993 10 21.41688	02 42 53.51	+21 54 50.3	20.6 V 691
1993 TY ₆	1993 10 16.28833	01 50 17.03	+14 42 30.9	21.1 V 691	1993 TG ₇	1993 10 21.43630	02 42 52.50	+21 54 46.1	691
1993 TY ₆	1993 10 16.29688	01 50 16.65	+14 42 25.0	691	1993 TH ₇	* 1993 10 09.45878	02 51 58.74	+22 28 04.9	19.7 V 691
1993 TZ ₆	* 1993 10 09.35726	01 56 15.85	+16 04 02.6	20.8 V 691	1993 TH ₇	1993 10 09.47886	02 51 57.75	+22 28 04.6	691
1993 TZ ₆	1993 10 09.40273	01 56 12.91	+16 04 24.6	691	1993 TH ₇	1993 10 09.49858	02 51 56.77	+22 28 04.2	691
1993 TZ ₆	1993 10 09.44247	01 56 10.27	+16 04 43.9	691	1993 TH ₇	1993 10 21.37964	02 41 05.00	+22 15 13.5	691
1993 TZ ₆	1993 10 10.25538	01 55 19.72	+16 11 16.3	691	1993 TH ₇	1993 10 21.41560	02 41 02.86	+22 15 07.4	19.2 V 691
1993 TZ ₆	1993 10 10.27479	01 55 18.40	+16 11 26.2	20.4 V 691	1993 TH ₇	1993 10 21.43502	02 41 01.64	+22 15 05.1	691
1993 TZ ₆	1993 10 10.29444	01 55 17.11	+16 11 35.7	691	1993 TJ ₇	* 1993 10 09.45917	02 52 33.18	+22 39 37.5	691
1993 TA ₇	* 1993 10 09.35807	01 57 26.00	+16 05 17.4	691	1993 TJ ₇	1993 10 09.47926	02 52 32.49	+22 39 33.5	20.6 V 691
1993 TA ₇	1993 10 09.44329	01 57 21.18	+16 05 24.3	20.9 V 691	1993 TJ ₇	1993 10 09.49899	02 52 31.79	+22 39 30.2	691
1993 TA ₇	1993 10 10.25626	01 56 36.17	+16 06 36.2	20.9 V 691	1993 TJ ₇	1993 10 21.38222	02 44 48.43	+21 53 46.0	19.4 V 691
1993 TA ₇	1993 10 10.27568	01 56 35.06	+16 06 38.5	691	1993 TJ ₇	1993 10 21.41819	02 44 46.70	+21 53 34.2	691
1993 TA ₇	1993 10 10.29533	01 56 33.92	+16 06 39.9	691	1993 TJ ₇	1993 10 21.43761	02 44 45.90	+21 53 29.0	691
1993 TB ₇	* 1993 10 09.35919	01 59 02.95	+16 05 08.7	18.7 V 691	1993 TK ₇	* 1993 10 09.45998	02 53 43.11	+22 28 36.4	691
1993 TB ₇	1993 10 09.40466	01 59 00.06	+16 05 13.5	691	1993 TK ₇	1993 10 09.48006	02 53 42.30	+22 28 33.7	20.6 V 691
1993 TB ₇	1993 10 09.44440	01 58 57.56	+16 05 17.5	691	1993 TK ₇	1993 10 09.49979	02 53 41.54	+22 28 32.0	691
1993 TB ₇	1993 10 10.25732	01 58 08.01	+16 06 42.0	691	1993 TK ₇	1993 10 16.36766	02 48 51.98	+22 09 53.9	20.8 V 691
1993 TB ₇	1993 10 10.27673	01 58 06.74	+16 06 43.8	18.5 V 691	1993 TK ₇	1993 10 16.37660	02 48 51.53	+22 09 52.6	691
1993 TB ₇	1993 10 10.29638	01 58 05.45	+16 06 46.3	691	1993 TK ₇	1993 10 16.38537	02 48 51.11	+22 09 50.6	691
1993 TC ₇	* 1993 10 09.35935	01 59 17.26	+16 13 44.4	691	1993 TL ₇	* 1993 10 09.46308	02 58 11.27	+22 39 32.6	691
1993 TC ₇	1993 10 09.40483	01 59 14.85	+16 13 37.3	691	1993 TL ₇	1993 10 09.48316	02 58 10.57	+22 39 31.1	19.5 V 691
1993 TC ₇	1993 10 09.44458	01 59 12.71	+16 13 30.5	18.6 V 691	1993 TL ₇	1993 10 09.50289	02 58 09.88	+22 39 29.1	691
1993 TC ₇	1993 10 10.25758	01 58 30.82	+16 11 21.3	691	1993 TL ₇	1993 10 12.35480	02 56 28.15	+22 35 07.5	691
1993 TC ₇	1993 10 10.27700	01 58 29.76	+16 11 18.4	18.5 V 691	1993 TL ₇	1993 10 12.38579	02 56 26.95	+22 35 04.2	19.7 V 691
1993 TC ₇	1993 10 10.29665	01 58 28.70	+16 11 15.2	691	1993 TL ₇	1993 10 12.41672	02 56 25.76	+22 35 00.8	691
1993 TD ₇	* 1993 10 09.36024	02 00 34.33	+16 05 12.6	691	1993 TM ₇	* 1993 10 09.46363	02 58 59.49	+22 50 01.5	691
1993 TD ₇	1993 10 09.40572	02 00 32.02	+16 04 52.8	17.8 V 691	1993 TM ₇	1993 10 09.48372	02 58 58.93	+22 49 59.6	691
1993 TD ₇	1993 10 09.44547	02 00 30.02	+16 04 35.1	691	1993 TM ₇	1993 10 09.50345	02 58 58.39	+22 49 58.4	18.9 V 691
1993 TD ₇	1993 10 20.26116	01 51 04.83	+14 36 24.5	17.2 V 691	1993 TM ₇	1993 10 12.35559	02 57 37.18	+22 46 40.2	691
1993 TD ₇	1993 10 20.29476	01 51 02.89	+14 36 06.5	691	1993 TM ₇	1993 10 12.38659	02 57 36.10	+22 46 37.4	18.7 V 691
1993 TD ₇	1993 10 20.32723	01 51 01.03	+14 35 49.4	691	1993 TM ₇	1993 10 12.41752	02 57 35.03	+22 46 34.7	691
1993 TD ₇	1993 10 21.20902	01 50 12.70	+14 27 59.9	17.4 V 691	1993 TN ₇	* 1993 10 09.46392	02 59 24.74	+22 35 45.1	19.9 V 691
1993 TD ₇	1993 10 21.24387	01 50 10.73	+14 27 41.6	691	1993 TN ₇	1993 10 09.48401	02 59 24.21	+22 35 44.0	691

1993 TN ₇	1993 10 09.50374	02 59 23.71	+22 35 43.6		691	1993 TT ₇	1993 10 13.32728	03 02 55.29	+22 39 35.9	20.1 V	691
1993 TN ₇	1993 10 12.35596	02 58 09.33	+22 33 35.0		691	1993 TT ₇	1993 10 13.33665	03 02 54.88	+22 39 37.1		691
1993 TN ₇	1993 10 12.38696	02 58 08.35	+22 33 33.1	19.8 V	691	1993 TT ₇	1993 10 13.34594	03 02 54.46	+22 39 38.3		691
1993 TN ₇	1993 10 12.41789	02 58 07.36	+22 33 31.2		691	1993 TT ₇	1993 10 21.32020	02 56 41.08	+22 52 38.1	19.4 V	691
1993 TN ₇	1993 10 13.32365	02 57 40.58	+22 32 29.6		691	1993 TT ₇	1993 10 21.34094	02 56 40.00	+22 52 39.8		691
1993 TN ₇	1993 10 13.33304	02 57 40.27	+22 32 29.3		691	1993 TT ₇	1993 10 21.35904	02 56 39.05	+22 52 40.6		691
1993 TN ₇	1993 10 13.34233	02 57 39.96	+22 32 28.5	19.8 V	691	1993 TU ₇	* 1993 10 10.16254	01 27 12.63	+13 55 40.4		691
1993 TN ₇	1993 10 21.38763	02 52 37.17	+22 16 31.0	18.9 V	691	1993 TU ₇	1993 10 10.18136	01 27 11.81	+13 55 32.2	20.9 V	691
1993 TN ₇	1993 10 21.42360	02 52 35.46	+22 16 24.8		691	1993 TU ₇	1993 10 10.20027	01 27 10.99	+13 55 22.9		691
1993 TN ₇	1993 10 21.44302	02 52 34.57	+22 16 21.5		691	1993 TU ₇	1993 10 24.27091	01 16 33.36	+12 24 34.1	19.2 V	691
1993 TO ₇	* 1993 10 09.46456	03 00 20.08	+22 44 18.4	20.0 V	691	1993 TU ₇	1993 10 24.27887	01 16 32.95	+12 24 31.9		691
1993 TO ₇	1993 10 09.48464	03 00 19.35	+22 44 16.8		691	1993 TU ₇	1993 10 24.28678	01 16 32.53	+12 24 29.1		691
1993 TO ₇	1993 10 09.50437	03 00 18.56	+22 44 17.2		691	1993 TV ₇	* 1993 10 10.16260	01 27 17.27	+14 02 57.6	19.4 V	691
1993 TO ₇	1993 10 12.35615	02 58 25.55	+22 42 02.0	20.0 V	691	1993 TV ₇	1993 10 10.18141	01 27 16.13	+14 02 56.5		691
1993 TO ₇	1993 10 12.38715	02 58 24.22	+22 42 00.1		691	1993 TV ₇	1993 10 10.20031	01 27 14.99	+14 02 55.2		691
1993 TO ₇	1993 10 12.41807	02 58 22.86	+22 41 58.2		691	1993 TV ₇	1993 10 16.23281	01 21 09.29	+13 54 40.5		691
1993 TO ₇	1993 10 13.32369	02 57 44.75	+22 41 00.2		691	1993 TV ₇	1993 10 16.26685	01 21 07.13	+13 54 37.3	19.3 V	691
1993 TO ₇	1993 10 13.33307	02 57 44.40	+22 41 00.1		691	1993 TV ₇	1993 10 16.30418	01 21 04.79	+13 54 33.7		691
1993 TO ₇	1993 10 13.34236	02 57 43.91	+22 40 59.4	19.8 V	691	1993 TW ₇	* 1993 10 10.16331	01 28 19.31	+14 10 28.9	16.9 V	691
1993 TP ₇	* 1993 10 09.46459	03 00 22.16	+22 23 36.9	19.7 V	691	1993 TW ₇	1993 10 10.18212	01 28 18.14	+14 10 27.0		691
1993 TP ₇	1993 10 09.48467	03 00 21.31	+22 23 36.4		691	1993 TW ₇	1993 10 10.20103	01 28 16.99	+14 10 24.9		691
1993 TP ₇	1993 10 09.50439	03 00 20.43	+22 23 35.7		691	1993 TW ₇	1993 10 16.23340	01 22 11.54	+13 56 51.1		691
1993 TP ₇	1993 10 21.38619	02 50 32.08	+22 05 12.4	19.0 V	691	1993 TW ₇	1993 10 16.26742	01 22 09.36	+13 56 46.2	16.9 V	691
1993 TP ₇	1993 10 21.42215	02 50 29.94	+22 05 06.8		691	1993 TW ₇	1993 10 16.30474	01 22 06.97	+13 56 40.3		691
1993 TP ₇	1993 10 21.44156	02 50 28.82	+22 05 04.3		691	1993 TX ₇	* 1993 10 10.16448	01 30 00.54	+14 02 48.1	19.6 V	691
1993 TQ ₇	* 1993 10 09.46503	03 01 00.64	+22 24 45.4	20.4 V	691	1993 TX ₇	1993 10 10.18329	01 29 59.59	+14 02 41.6		691
1993 TQ ₇	1993 10 09.48511	03 00 59.78	+22 24 45.7		691	1993 TX ₇	1993 10 10.20220	01 29 58.66	+14 02 35.2		691
1993 TQ ₇	1993 10 09.50484	03 00 59.01	+22 24 44.9		691	1993 TX ₇	1993 10 20.22925	01 21 52.49	+13 02 42.0	19.7 V	691
1993 TQ ₇	1993 10 21.38705	02 51 46.22	+22 14 25.8	19.8 V	691	1993 TX ₇	1993 10 20.23739	01 21 52.06	+13 02 39.2		691
1993 TQ ₇	1993 10 21.42301	02 51 44.23	+22 14 21.4		691	1993 TX ₇	1993 10 20.24547	01 21 51.63	+13 02 36.3		691
1993 TQ ₇	1993 10 21.44242	02 51 43.10	+22 14 20.6		691	1993 TY ₇	* 1993 10 10.16480	01 30 28.11	+14 17 13.0	19.4 V	691
1993 TR ₇	* 1993 10 09.46578	03 02 05.81	+22 33 52.5		691	1993 TY ₇	1993 10 10.18361	01 30 26.97	+14 17 14.2		691
1993 TR ₇	1993 10 09.48587	03 02 05.13	+22 33 48.8	19.7 V	691	1993 TY ₇	1993 10 10.20252	01 30 25.83	+14 17 15.3		691
1993 TR ₇	1993 10 09.50560	03 02 04.46	+22 33 45.1		691	1993 TY ₇	1993 10 15.24728	01 25 22.05	+14 20 43.6		691
1993 TR ₇	1993 10 13.32517	02 59 53.22	+22 21 41.0	20.0 V	691	1993 TY ₇	1993 10 15.28731	01 25 19.56	+14 20 44.4	19.6 V	691
1993 TR ₇	1993 10 13.33455	02 59 52.83	+22 21 38.9		691	1993 TY ₇	1993 10 15.32731	01 25 17.05	+14 20 44.9		691
1993 TR ₇	1993 10 13.34384	02 59 52.50	+22 21 37.2		691	1993 TZ ₇	* 1993 10 10.16492	01 30 38.68	+14 20 31.8	19.5 V	691
1993 TS ₇	* 1993 10 09.46617	03 02 39.27	+22 31 25.8	20.3 V	691	1993 TZ ₇	1993 10 10.18373	01 30 37.68	+14 20 27.7		691
1993 TS ₇	1993 10 09.48625	03 02 38.50	+22 31 25.9		691	1993 TZ ₇	1993 10 10.20264	01 30 36.68	+14 20 22.6		691
1993 TS ₇	1993 10 09.50598	03 02 37.74	+22 31 26.4		691	1993 TZ ₇	1993 10 16.23552	01 25 15.14	+13 56 42.6	19.5 V	691
1993 TS ₇	1993 10 12.35778	03 00 46.60	+22 31 37.2	20.5 V	691	1993 TZ ₇	1993 10 16.26955	01 25 13.23	+13 56 34.4		691
1993 TS ₇	1993 10 12.38877	03 00 45.23	+22 31 36.9		691	1993 TZ ₇	1993 10 16.30687	01 25 11.18	+13 56 25.2		691
1993 TS ₇	1993 10 12.41970	03 00 43.87	+22 31 36.8		691	1993 TA ₈	* 1993 10 10.16516	01 30 59.42	+13 53 47.1		691
1993 TS ₇	1993 10 16.31555	02 57 52.84	+22 29 59.3	19.5 V	691	1993 TA ₈	1993 10 10.18397	01 30 58.40	+13 53 44.5	20.0 V	691
1993 TS ₇	1993 10 16.35400	02 57 50.98	+22 29 57.8		691	1993 TA ₈	1993 10 10.20288	01 30 57.33	+13 53 43.0		691
1993 TS ₇	1993 10 16.39126	02 57 49.16	+22 29 55.6		691	1993 TA ₈	1993 10 20.22908	01 21 37.37	+13 28 17.0	19.7 V	691
1993 TT ₇	* 1993 10 09.46812	03 05 27.85	+22 30 52.0		691	1993 TA ₈	1993 10 20.23721	01 21 36.89	+13 28 15.6		691
1993 TT ₇	1993 10 09.48820	03 05 27.08	+22 30 54.8	20.6 V	691	1993 TA ₈	1993 10 20.24530	01 21 36.42	+13 28 13.7		691
1993 TT ₇	1993 10 09.50793	03 05 26.32	+22 30 57.9		691	1993 TB ₈	* 1993 10 10.16623	01 32 32.05	+13 52 30.1	17.5 V	691
1993 TT ₇	1993 10 12.35973	03 03 35.42	+22 37 33.4		691	1993 TB ₈	1993 10 10.18504	01 32 31.03	+13 52 23.3		691
1993 TT ₇	1993 10 12.39072	03 03 34.13	+22 37 37.7	20.1 V	691	1993 TB ₈	1993 10 10.20395	01 32 29.99	+13 52 16.5		691
1993 TT ₇	1993 10 12.42165	03 03 32.83	+22 37 41.4		691	1993 TB ₈	1993 10 24.27348	01 20 16.33	+12 30 27.3		691

1993 TB ₈	1993 10 24.28144	01 20 15.92	+12 30 24.8	18.6 V	691	1993 TL ₈	* 1993 10 10.25123	01 49 20.23	+16 17 52.5		691
1993 TB ₈	1993 10 24.28936	01 20 15.50	+12 30 22.3		691	1993 TL ₈	1993 10 10.27065	01 49 19.41	+16 17 41.1	20.9 V	691
1993 TC ₈	* 1993 10 10.16639	01 32 46.08	+14 09 27.0		691	1993 TL ₈	1993 10 10.29030	01 49 18.52	+16 17 30.1		691
1993 TC ₈	1993 10 10.18521	01 32 45.17	+14 09 21.1	20.3 V	691	1993 TL ₈	1993 10 24.40554	01 39 07.68	+13 47 45.5		691
1993 TC ₈	1993 10 10.20411	01 32 44.25	+14 09 14.9		691	1993 TL ₈	1993 10 24.41529	01 39 07.34	+13 47 39.1		691
1993 TC ₈	1993 10 20.23113	01 24 35.56	+13 07 09.3	20.5 V	691	1993 TL ₈	1993 10 24.42321	01 39 06.99	+13 47 34.4	20.6 V	691
1993 TC ₈	1993 10 20.23927	01 24 35.18	+13 07 05.8		691	1993 TM ₈	* 1993 10 10.32358	02 00 40.20	+16 56 25.0		691
1993 TC ₈	1993 10 20.24736	01 24 34.82	+13 07 02.9		691	1993 TM ₈	1993 10 10.35364	02 00 38.28	+16 56 36.0	18.4 V	691
1993 TC ₈	1993 10 24.27425	01 21 23.14	+12 40 48.2	20.1 V	691	1993 TM ₈	1993 10 10.37366	02 00 37.01	+16 56 43.1		691
1993 TC ₈	1993 10 24.28222	01 21 22.72	+12 40 45.1		691	1993 TM ₈	1993 10 20.27064	01 49 43.23	+17 50 14.9		691
1993 TC ₈	1993 10 24.29013	01 21 22.34	+12 40 42.2		691	1993 TM ₈	1993 10 20.30301	01 49 40.87	+17 50 24.5		691
1993 TD ₈	* 1993 10 10.16647	01 32 52.91	+14 10 03.5		691	1993 TM ₈	1993 10 20.33610	01 49 38.42	+17 50 34.0	18.3 V	691
1993 TD ₈	1993 10 10.18528	01 32 52.00	+14 09 59.9	18.9 V	691	1993 TN ₈	* 1993 10 10.39004	02 15 58.41	+19 47 28.2	17.8 V	691
1993 TD ₈	1993 10 10.20419	01 32 51.06	+14 09 56.3		691	1993 TN ₈	1993 10 10.41156	02 15 56.80	+19 47 31.8		691
1993 TD ₈	1993 10 20.23120	01 24 41.22	+13 34 46.3		691	1993 TN ₈	1993 10 10.43306	02 15 55.20	+19 47 35.0		691
1993 TD ₈	1993 10 20.23934	01 24 40.84	+13 34 45.0	18.9 V	691	1993 TN ₈	1993 10 12.33278	02 13 35.47	+19 52 22.8		691
1993 TD ₈	1993 10 20.24742	01 24 40.43	+13 34 42.9		691	1993 TN ₈	1993 10 12.36457	02 13 32.99	+19 52 26.6		691
1993 TE ₈	* 1993 10 10.16697	01 33 35.93	+14 05 02.6		691	1993 TN ₈	1993 10 12.39619	02 13 30.52	+19 52 31.6	18.0 V	691
1993 TE ₈	1993 10 10.18578	01 33 34.97	+14 04 58.2	21.1 V	691	1993 TO ₈	* 1993 10 10.40346	02 35 21.08	+19 54 29.7	18.8 V	691
1993 TE ₈	1993 10 10.20469	01 33 33.98	+14 04 54.3		691	1993 TO ₈	1993 10 10.42499	02 35 20.26	+19 54 29.1		691
1993 TE ₈	1993 10 20.23142	01 25 00.17	+13 21 50.6	21.1 V	691	1993 TO ₈	1993 10 10.44650	02 35 19.45	+19 54 27.6		691
1993 TE ₈	1993 10 20.23955	01 24 59.71	+13 21 48.3		691	1993 TO ₈	1993 10 12.34679	02 34 09.99	+19 52 58.0	19.0 V	691
1993 TE ₈	1993 10 20.24764	01 24 59.31	+13 21 45.9		691	1993 TO ₈	1993 10 12.37859	02 34 08.63	+19 52 56.3		691
1993 TF ₈	* 1993 10 10.16711	01 33 48.08	+14 13 12.6	18.2 V	691	1993 TO ₈	1993 10 12.41020	02 34 07.33	+19 52 54.4		691
1993 TF ₈	1993 10 10.18592	01 33 47.03	+14 13 10.5		691	1993 TP ₈	* 1993 10 11.42486	02 19 37.07	+20 38 04.8	18.9 V	691
1993 TF ₈	1993 10 10.20483	01 33 45.94	+14 13 08.3		691	1993 TP ₈	1993 10 11.45019	02 19 35.75	+20 38 03.4		691
1993 TF ₈	1993 10 16.23749	01 28 06.12	+13 58 46.1		691	1993 TP ₈	1993 10 11.47518	02 19 34.46	+20 38 02.2		691
1993 TF ₈	1993 10 16.27152	01 28 04.07	+13 58 40.2	18.1 V	691	1993 TP ₈	1993 10 13.26427	02 18 03.75	+20 36 20.5		691
1993 TF ₈	1993 10 16.30884	01 28 01.82	+13 58 34.3		691	1993 TP ₈	1993 10 13.27290	02 18 03.28	+20 36 19.9	18.8 V	691
1993 TG ₈	* 1993 10 10.16720	01 33 55.62	+14 02 36.5		691	1993 TP ₈	1993 10 13.28184	02 18 02.78	+20 36 19.4		691
1993 TG ₈	1993 10 10.18601	01 33 54.62	+14 02 31.5		691	1993 TQ ₈	* 1993 10 11.42487	02 19 38.16	+20 45 28.6	19.3 V	691
1993 TG ₈	1993 10 10.20492	01 33 53.60	+14 02 26.7	19.3 V	691	1993 TQ ₈	1993 10 11.45020	02 19 36.62	+20 45 31.7		691
1993 TG ₈	1993 10 20.23131	01 24 50.76	+13 15 18.2		691	1993 TQ ₈	1993 10 11.47519	02 19 35.11	+20 45 34.8		691
1993 TG ₈	1993 10 20.23944	01 24 50.31	+13 15 15.8	19.0 V	691	1993 TQ ₈	1993 10 13.26410	02 17 49.72	+20 49 06.8	18.8 V	691
1993 TG ₈	1993 10 20.24753	01 24 49.85	+13 15 13.4		691	1993 TQ ₈	1993 10 13.27274	02 17 49.19	+20 49 08.1		691
1993 TH ₈	* 1993 10 10.16748	01 34 20.36	+14 05 51.5		691	1993 TQ ₈	1993 10 13.28167	02 17 48.63	+20 49 09.1		691
1993 TH ₈	1993 10 10.18629	01 34 19.45	+14 05 47.1		691	1993 TR ₈	* 1993 10 11.42560	02 20 40.66	+20 36 07.5	19.9 V	691
1993 TH ₈	1993 10 10.20520	01 34 18.46	+14 05 43.2	20.6 V	691	1993 TR ₈	1993 10 11.45093	02 20 39.42	+20 36 05.1		691
1993 TH ₈	1993 10 20.23192	01 25 43.87	+13 20 27.3		691	1993 TR ₈	1993 10 11.47591	02 20 38.22	+20 36 02.2		691
1993 TH ₈	1993 10 20.24006	01 25 43.47	+13 20 25.3	20.1 V	691	1993 TR ₈	1993 10 13.26507	02 19 13.23	+20 32 53.0	20.1 V	691
1993 TH ₈	1993 10 20.24814	01 25 43.04	+13 20 22.7		691	1993 TR ₈	1993 10 13.27370	02 19 12.82	+20 32 52.2		691
1993 TJ ₈	* 1993 10 10.16777	01 34 45.84	+14 03 08.1	20.5 V	691	1993 TR ₈	1993 10 13.28264	02 19 12.41	+20 32 50.7		691
1993 TJ ₈	1993 10 10.18659	01 34 44.75	+14 03 08.6		691	1993 TS ₈	* 1993 10 11.42657	02 22 04.89	+20 36 27.3		691
1993 TJ ₈	1993 10 10.20549	01 34 43.59	+14 03 08.8		691	1993 TS ₈	1993 10 11.45190	02 22 03.54	+20 36 31.3		691
1993 TJ ₈	1993 10 16.23786	01 28 38.10	+14 04 01.1		691	1993 TS ₈	1993 10 11.47688	02 22 02.18	+20 36 35.4	20.7 V	691
1993 TJ ₈	1993 10 16.27188	01 28 35.86	+14 04 00.7		691	1993 TS ₈	1993 10 13.26592	02 20 27.46	+20 41 27.3	20.4 V	691
1993 TJ ₈	1993 10 16.30920	01 28 33.43	+14 04 00.4	20.2 V	691	1993 TS ₈	1993 10 13.27456	02 20 26.95	+20 41 28.2		691
1993 TK ₈	* 1993 10 10.24898	01 46 05.32	+16 04 53.4	20.7 V	691	1993 TS ₈	1993 10 13.28349	02 20 26.49	+20 41 29.6		691
1993 TK ₈	1993 10 10.26840	01 46 04.63	+16 04 40.8		691	1993 TT ₈	* 1993 10 11.42727	02 23 05.56	+20 38 31.4	18.5 V	691
1993 TK ₈	1993 10 10.28806	01 46 03.96	+16 04 28.9		691	1993 TT ₈	1993 10 11.45259	02 23 03.52	+20 38 38.4		691
1993 TK ₈	1993 10 15.23440	01 43 08.73	+15 12 14.0		691	1993 TT ₈	1993 10 11.47757	02 23 01.53	+20 38 44.9		691
1993 TK ₈	1993 10 15.31685	01 43 05.53	+15 11 20.3	20.8 V	691	1993 TT ₈	1993 10 13.26607	02 20 39.89	+20 46 30.9	18.5 V	691

1993 TT ₈	1993 10 13.27470	02 20 39.18	+20 46 33.0		691	1993 TB ₉	1993 10 12.40952	02 33 08.13	+20 19 54.2		691
1993 TT ₈	1993 10 13.28363	02 20 38.47	+20 46 35.2		691	1993 TC ₉	* 1993 10 11.43519	02 34 32.07	+20 18 57.8		691
1993 TT ₈	1993 10 13.38443	02 20 30.18	+20 47 00.6	19.0 V	691	1993 TC ₉	1993 10 11.46052	02 34 30.82	+20 18 54.2	19.7 V	691
1993 TT ₈	1993 10 13.42674	02 20 26.73	+20 47 11.4		691	1993 TC ₉	1993 10 11.48551	02 34 29.60	+20 18 50.9		691
1993 TT ₈	1993 10 13.46891	02 20 23.27	+20 47 21.6		691	1993 TC ₉	1993 10 12.34654	02 33 48.24	+20 16 56.6		691
1993 TU ₈	* 1993 10 11.42775	02 23 47.09	+20 33 39.1		691	1993 TC ₉	1993 10 12.37833	02 33 46.61	+20 16 52.4	19.3 V	691
1993 TU ₈	1993 10 11.45308	02 23 45.91	+20 33 36.9	20.3 V	691	1993 TC ₉	1993 10 12.40995	02 33 45.00	+20 16 48.0		691
1993 TU ₈	1993 10 11.47807	02 23 44.73	+20 33 35.1		691	1993 TD ₉	* 1993 10 11.43721	02 37 26.95	+20 19 22.9	18.0 V	691
1993 TU ₈	1993 10 13.26726	02 22 23.07	+20 31 16.2	20.5 V	691	1993 TD ₉	1993 10 11.46254	02 37 25.74	+20 19 23.4		691
1993 TU ₈	1993 10 13.27589	02 22 22.66	+20 31 15.8		691	1993 TD ₉	1993 10 11.48753	02 37 24.58	+20 19 24.2		691
1993 TU ₈	1993 10 13.28483	02 22 22.20	+20 31 15.0		691	1993 TD ₉	1993 10 12.34858	02 36 44.65	+20 19 52.3	17.8 V	691
1993 TV ₈	* 1993 10 11.42793	02 24 03.15	+20 43 04.7		691	1993 TD ₉	1993 10 12.38037	02 36 43.07	+20 19 53.4		691
1993 TV ₈	1993 10 11.45326	02 24 01.96	+20 43 00.2	19.3 V	691	1993 TD ₉	1993 10 12.41198	02 36 41.51	+20 19 54.5		691
1993 TV ₈	1993 10 11.47825	02 24 00.81	+20 42 55.3		691	1993 TE ₉	* 1993 10 11.45732	02 29 53.11	+20 22 04.6	19.9 V	691
1993 TV ₈	1993 10 13.26745	02 22 39.58	+20 37 10.8	19.5 V	691	1993 TE ₉	1993 10 11.48230	02 29 51.87	+20 21 59.4		691
1993 TV ₈	1993 10 13.27608	02 22 39.16	+20 37 09.2		691	1993 TE ₉	1993 10 12.34334	02 29 10.65	+20 19 05.2	19.7 V	691
1993 TV ₈	1993 10 13.28502	02 22 38.70	+20 37 07.6		691	1993 TE ₉	1993 10 12.37513	02 29 09.01	+20 18 59.0		691
1993 TW ₈	* 1993 10 11.42837	02 24 40.80	+20 20 44.6	16.3 V	691	1993 TE ₉	1993 10 12.40674	02 29 07.41	+20 18 51.8		691
1993 TW ₈	1993 10 11.45369	02 24 39.19	+20 20 56.4		691	1993 TF ₉	* 1993 10 12.19425	02 01 41.08	+17 34 16.3		691
1993 TW ₈	1993 10 11.47868	02 24 37.64	+20 21 08.1		691	1993 TF ₉	1993 10 12.21315	02 01 39.96	+17 34 18.2	19.4 V	691
1993 TW ₈	1993 10 13.26755	02 22 48.12	+20 35 06.9	16.3 V	691	1993 TF ₉	1993 10 12.23192	02 01 38.88	+17 34 19.4		691
1993 TW ₈	1993 10 13.27618	02 22 47.54	+20 35 10.9		691	1993 TF ₉	1993 10 20.27329	01 53 37.70	+17 40 04.5		691
1993 TW ₈	1993 10 13.28511	02 22 46.96	+20 35 15.0		691	1993 TF ₉	1993 10 20.30564	01 53 35.63	+17 40 05.3		691
1993 TX ₈	* 1993 10 11.43039	02 27 36.17	+20 45 56.9	18.8 V	691	1993 TF ₉	1993 10 20.33872	01 53 33.50	+17 40 05.7	18.8 V	691
1993 TX ₈	1993 10 11.45572	02 27 34.73	+20 45 57.8		691	1993 TG ₉	* 1993 10 12.19485	02 02 33.11	+17 36 08.6		691
1993 TX ₈	1993 10 11.48070	02 27 33.29	+20 45 58.0		691	1993 TG ₉	1993 10 12.21375	02 02 31.91	+17 36 12.4		691
1993 TX ₈	1993 10 13.38767	02 25 45.21	+20 46 33.4		691	1993 TG ₉	1993 10 12.23252	02 02 30.72	+17 36 16.0	19.3 V	691
1993 TX ₈	1993 10 13.42997	02 25 42.64	+20 46 33.8	18.3 V	691	1993 TG ₉	1993 10 20.27339	01 53 46.13	+17 58 00.4		691
1993 TX ₈	1993 10 13.47213	02 25 40.10	+20 46 33.7		691	1993 TG ₉	1993 10 20.30573	01 53 43.93	+17 58 06.2	19.1 V	691
1993 TY ₈	* 1993 10 11.43217	02 30 10.64	+20 45 15.7		691	1993 TG ₉	1993 10 20.33881	01 53 41.59	+17 58 10.3		691
1993 TY ₈	1993 10 11.45750	02 30 09.39	+20 45 17.5	18.0 V	691	1993 TH ₉	* 1993 10 12.25930	01 58 15.59	+18 11 46.9	18.2 V	691
1993 TY ₈	1993 10 11.48249	02 30 08.16	+20 45 19.2		691	1993 TH ₉	1993 10 12.27832	01 58 14.37	+18 11 45.3		691
1993 TY ₈	1993 10 13.38962	02 28 34.04	+20 47 26.0		691	1993 TH ₉	1993 10 12.29744	01 58 13.13	+18 11 43.6		691
1993 TY ₈	1993 10 13.43192	02 28 31.79	+20 47 28.5	17.5 V	691	1993 TH ₉	1993 10 20.27063	01 49 41.52	+17 53 57.5	18.4 V	691
1993 TY ₈	1993 10 13.47408	02 28 29.66	+20 47 30.9		691	1993 TH ₉	1993 10 20.30300	01 49 39.29	+17 53 52.1		691
1993 TZ ₈	* 1993 10 11.43374	02 32 26.46	+20 21 06.9	19.7 V	691	1993 TH ₉	1993 10 20.33609	01 49 36.97	+17 53 46.4		691
1993 TZ ₈	1993 10 11.45908	02 32 25.49	+20 20 53.6		691	1993 TJ ₉	* 1993 10 12.26026	01 59 38.85	+18 20 17.0		691
1993 TZ ₈	1993 10 11.48407	02 32 24.53	+20 20 40.2		691	1993 TJ ₉	1993 10 12.27928	01 59 37.77	+18 20 11.7	18.2 V	691
1993 TZ ₈	1993 10 12.34522	02 31 53.24	+20 13 07.6	19.5 V	691	1993 TJ ₉	1993 10 12.29840	01 59 36.69	+18 20 06.2		691
1993 TZ ₈	1993 10 12.37701	02 31 51.96	+20 12 50.9		691	1993 TJ ₉	1993 10 20.27233	01 52 14.85	+17 37 36.8	18.6 V	691
1993 TZ ₈	1993 10 12.40863	02 31 50.72	+20 12 33.9		691	1993 TJ ₉	1993 10 20.30468	01 52 12.93	+17 37 25.7		691
1993 TA ₉	* 1993 10 11.43467	02 33 46.51	+20 45 43.1	19.7 V	691	1993 TJ ₉	1993 10 20.33777	01 52 10.94	+17 37 14.0		691
1993 TA ₉	1993 10 11.45999	02 33 45.07	+20 45 48.4		691	1993 TK ₉	* 1993 10 12.26062	02 00 10.50	+18 27 06.6		691
1993 TA ₉	1993 10 11.48498	02 33 43.73	+20 45 54.0		691	1993 TK ₉	1993 10 12.27965	02 00 09.55	+18 27 00.6	19.3 V	691
1993 TA ₉	1993 10 13.39200	02 32 00.28	+20 53 08.5		691	1993 TK ₉	1993 10 12.29877	02 00 08.65	+18 26 54.4		691
1993 TA ₉	1993 10 13.43430	02 31 57.65	+20 53 16.1		691	1993 TK ₉	1993 10 20.27327	01 53 36.22	+17 42 33.7	19.6 V	691
1993 TA ₉	1993 10 13.47646	02 31 55.25	+20 53 25.1	19.2 V	691	1993 TK ₉	1993 10 20.30562	01 53 34.54	+17 42 22.1		691
1993 TB ₉	* 1993 10 11.43476	02 33 54.87	+20 23 34.0		691	1993 TK ₉	1993 10 20.33871	01 53 32.82	+17 42 10.5		691
1993 TB ₉	1993 10 11.46009	02 33 53.63	+20 23 28.3	19.6 V	691	1993 TL ₉	* 1993 10 12.26104	02 00 46.51	+18 27 36.0		691
1993 TB ₉	1993 10 11.48508	02 33 52.39	+20 23 22.3		691	1993 TL ₉	1993 10 12.28006	02 00 45.55	+18 27 29.1	19.5 V	691
1993 TB ₉	1993 10 12.34612	02 33 11.38	+20 20 07.9		691	1993 TL ₉	1993 10 12.29919	02 00 44.57	+18 27 22.4		691
1993 TB ₉	1993 10 12.37791	02 33 09.76	+20 20 01.4	19.2 V	691	1993 TL ₉	1993 10 20.27360	01 54 04.79	+17 37 26.5		691

1993 TL ₉	1993 10 20.30595	01 54 03.08	+17 37 13.4	19.8 V	691	1993 TU ₉	1993 10 12.30780	02 13 10.83	+18 05 41.4		691
1993 TL ₉	1993 10 20.33904	01 54 01.41	+17 37 00.3		691	1993 TU ₉	1993 10 20.28266	02 07 09.59	+17 36 29.8	19.6 V	691
1993 TM ₉	* 1993 10 12.26461	02 05 56.00	+18 32 10.3		691	1993 TU ₉	1993 10 20.31502	02 07 08.04	+17 36 21.6		691
1993 TM ₉	1993 10 12.28364	02 05 55.06	+18 32 06.8		691	1993 TU ₉	1993 10 20.34810	02 07 06.40	+17 36 13.6		691
1993 TM ₉	1993 10 12.30276	02 05 54.31	+18 32 00.5	20.4 V	691	1993 TV ₉	* 1993 10 12.27092	02 15 02.29	+18 25 58.5		691
1993 TM ₉	1993 10 20.27765	01 59 55.10	+17 52 46.3		691	1993 TV ₉	1993 10 12.28994	02 15 01.60	+18 25 51.2	20.1 V	691
1993 TM ₉	1993 10 20.31000	01 59 53.51	+17 52 36.7	20.8 V	691	1993 TV ₉	1993 10 12.30907	02 15 00.79	+18 25 44.6		691
1993 TM ₉	1993 10 20.34309	01 59 52.05	+17 52 25.4		691	1993 TV ₉	1993 10 20.28417	02 09 20.64	+17 34 12.8		691
1993 TN ₉	* 1993 10 12.26635	02 08 26.72	+18 23 26.8		691	1993 TV ₉	1993 10 20.31653	02 09 19.10	+17 33 58.7	20.2 V	691
1993 TN ₉	1993 10 12.28537	02 08 25.68	+18 23 22.7		691	1993 TV ₉	1993 10 20.34962	02 09 17.59	+17 33 45.1		691
1993 TN ₉	1993 10 12.30450	02 08 24.61	+18 23 18.0	19.6 V	691	1993 TW ₉	* 1993 10 12.27152	02 15 54.75	+18 29 10.1	18.9 V	691
1993 TN ₉	1993 10 20.27831	02 00 52.39	+17 48 49.0		691	1993 TW ₉	1993 10 12.29055	02 15 53.87	+18 29 05.3		691
1993 TN ₉	1993 10 20.31066	02 00 50.40	+17 48 39.9	19.8 V	691	1993 TW ₉	1993 10 12.30967	02 15 53.00	+18 29 01.0		691
1993 TN ₉	1993 10 20.34374	02 00 48.43	+17 48 29.9		691	1993 TW ₉	1993 10 20.28438	02 09 38.23	+17 52 39.9	18.9 V	691
1993 TO ₉	* 1993 10 12.26636	02 08 27.66	+18 07 30.1		691	1993 TW ₉	1993 10 20.31673	02 09 36.54	+17 52 30.4		691
1993 TO ₉	1993 10 12.28539	02 08 26.54	+18 07 26.8	18.1 V	691	1993 TW ₉	1993 10 20.34982	02 09 34.78	+17 52 19.6		691
1993 TO ₉	1993 10 12.30451	02 08 25.43	+18 07 23.2		691	1993 TX ₉	* 1993 10 12.27205	02 16 40.22	+18 24 01.3		691
1993 TO ₉	1993 10 20.27823	02 00 46.03	+17 38 19.3	17.9 V	691	1993 TX ₉	1993 10 12.29107	02 16 39.42	+18 23 58.3		691
1993 TO ₉	1993 10 20.31058	02 00 43.99	+17 38 11.4		691	1993 TX ₉	1993 10 12.31020	02 16 38.39	+18 23 54.0	19.6 V	691
1993 TO ₉	1993 10 20.34367	02 00 42.00	+17 38 03.2		691	1993 TX ₉	1993 10 20.28468	02 10 04.40	+17 54 10.7	19.5 V	691
1993 TP ₉	* 1993 10 12.26665	02 08 52.90	+18 06 32.0		691	1993 TX ₉	1993 10 20.31703	02 10 02.64	+17 54 02.6		691
1993 TP ₉	1993 10 12.28567	02 08 51.64	+18 06 30.7	17.1 V	691	1993 TX ₉	1993 10 20.35012	02 10 00.84	+17 53 54.1		691
1993 TP ₉	1993 10 12.30479	02 08 50.38	+18 06 29.2		691	1993 TY ₉	* 1993 10 12.27247	02 17 16.62	+18 23 34.6	17.1 V	691
1993 TP ₉	1993 10 20.27779	02 00 07.80	+17 51 07.3	17.2 V	691	1993 TY ₉	1993 10 12.29149	02 17 15.66	+18 23 27.9		691
1993 TP ₉	1993 10 20.31014	02 00 05.51	+17 51 02.5		691	1993 TY ₉	1993 10 12.31061	02 17 14.69	+18 23 21.3		691
1993 TP ₉	1993 10 20.34322	02 00 03.24	+17 50 57.7		691	1993 TY ₉	1993 10 20.28491	02 10 24.40	+17 30 44.6	17.4 V	691
1993 TQ ₉	* 1993 10 12.26797	02 10 46.67	+18 34 31.2	19.0 V	691	1993 TY ₉	1993 10 20.31726	02 10 22.54	+17 30 30.3		691
1993 TQ ₉	1993 10 12.28699	02 10 45.88	+18 34 24.5		691	1993 TY ₉	1993 10 20.35035	02 10 20.60	+17 30 15.9		691
1993 TQ ₉	1993 10 12.30612	02 10 44.91	+18 34 18.1		691	1993 TZ ₉	* 1993 10 12.27268	02 17 34.68	+18 13 13.7	18.0 V	691
1993 TQ ₉	1993 10 20.28079	02 04 27.34	+17 43 46.2	19.2 V	691	1993 TZ ₉	1993 10 12.29170	02 17 33.58	+18 13 11.9		691
1993 TQ ₉	1993 10 20.31314	02 04 25.66	+17 43 32.9		691	1993 TZ ₉	1993 10 12.31082	02 17 32.44	+18 13 10.1		691
1993 TQ ₉	1993 10 20.34623	02 04 23.90	+17 43 19.8		691	1993 TZ ₉	1993 10 20.28429	02 09 30.62	+17 56 43.4		691
1993 TR ₉	* 1993 10 12.26825	02 11 11.05	+18 06 36.9	17.4 V	691	1993 TZ ₉	1993 10 20.31664	02 09 28.54	+17 56 38.5	18.2 V	691
1993 TR ₉	1993 10 12.28727	02 11 09.96	+18 06 32.3		691	1993 TZ ₉	1993 10 20.34972	02 09 26.39	+17 56 33.4		691
1993 TR ₉	1993 10 12.30639	02 11 08.83	+18 06 27.4		691	1993 TA ₁₀	* 1993 10 12.35797	03 01 03.47	+22 45 27.0		691
1993 TR ₉	1993 10 20.27996	02 03 15.36	+17 29 07.5	17.5 V	691	1993 TA ₁₀	1993 10 12.38897	03 01 02.08	+22 45 30.4	20.3 V	691
1993 TR ₉	1993 10 20.31231	02 03 13.29	+17 28 57.3		691	1993 TA ₁₀	1993 10 12.41989	03 01 00.70	+22 45 32.9		691
1993 TR ₉	1993 10 20.34539	02 03 11.13	+17 28 46.9		691	1993 TA ₁₀	1993 10 13.32551	03 00 22.29	+22 46 59.5		691
1993 TS ₉	* 1993 10 12.26843	02 11 26.94	+18 34 12.3	19.8 V	691	1993 TA ₁₀	1993 10 13.33489	03 00 21.88	+22 47 00.4	20.0 V	691
1993 TS ₉	1993 10 12.28746	02 11 26.05	+18 34 08.1		691	1993 TA ₁₀	1993 10 13.34417	03 00 21.44	+22 47 01.2		691
1993 TS ₉	1993 10 12.30658	02 11 25.12	+18 34 03.8		691	1993 TB ₁₀	* 1993 10 12.35945	03 03 11.64	+22 56 45.7	20.1 V	691
1993 TS ₉	1993 10 20.28109	02 04 53.85	+17 57 49.0		691	1993 TB ₁₀	1993 10 12.39045	03 03 10.41	+22 56 45.5		691
1993 TS ₉	1993 10 20.31345	02 04 52.15	+17 57 39.2		691	1993 TB ₁₀	1993 10 12.42138	03 03 09.25	+22 56 45.9		691
1993 TS ₉	1993 10 20.34653	02 04 50.35	+17 57 29.8	19.8 V	691	1993 TB ₁₀	1993 10 21.32005	02 56 27.64	+22 52 27.7	19.6 V	691
1993 TT ₉	* 1993 10 12.26857	02 11 38.45	+18 09 24.3		691	1993 TB ₁₀	1993 10 21.34079	02 56 26.44	+22 52 26.5		691
1993 TT ₉	1993 10 12.28759	02 11 37.82	+18 09 20.3	19.7 V	691	1993 TB ₁₀	1993 10 21.35888	02 56 25.42	+22 52 24.7		691
1993 TT ₉	1993 10 12.30672	02 11 37.12	+18 09 16.4		691	1993 TC ₁₀	* 1993 10 12.44862	02 48 01.89	+23 35 51.0		691
1993 TT ₉	1993 10 20.28241	02 06 47.74	+17 39 52.5	19.8 V	691	1993 TC ₁₀	1993 10 12.47302	02 48 01.05	+23 35 40.4	17.8 V	691
1993 TT ₉	1993 10 20.31476	02 06 46.35	+17 39 46.2		691	1993 TC ₁₀	1993 10 12.49704	02 48 00.21	+23 35 29.4		691
1993 TT ₉	1993 10 20.34786	02 06 45.25	+17 39 36.9		691	1993 TC ₁₀	1993 10 21.38048	02 42 17.14	+22 20 09.4		691
1993 TU ₉	* 1993 10 12.26965	02 13 12.57	+18 05 48.7		691	1993 TC ₁₀	1993 10 21.41644	02 42 15.51	+22 19 48.5	17.5 V	691
1993 TU ₉	1993 10 12.28868	02 13 11.72	+18 05 45.1	19.8 V	691	1993 TC ₁₀	1993 10 21.43586	02 42 14.62	+22 19 37.1		691

1993 TD ₁₀	* 1993 10 12.45384	02 55 33.79	+23 21 16.3	18.7 V	691	1993 TM ₁₀	1993 10 21.34255	02 58 59.52	+22 27 19.3	19.9 V	691
1993 TD ₁₀	1993 10 12.47823	02 55 32.56	+23 21 20.9		691	1993 TM ₁₀	1993 10 21.36065	02 58 58.51	+22 27 17.6		691
1993 TD ₁₀	1993 10 12.50225	02 55 31.28	+23 21 25.1		691	1993 TN ₁₀	* 1993 10 15.23673	01 46 30.67	+14 43 36.7		691
1993 TD ₁₀	1993 10 20.36744	02 48 19.67	+23 43 31.9	19.1 V	691	1993 TN ₁₀	1993 10 15.26185	01 46 29.47	+14 43 28.6		691
1993 TD ₁₀	1993 10 20.38444	02 48 18.62	+23 43 34.1		691	1993 TN ₁₀	1993 10 15.27928	01 46 28.69	+14 43 24.2	19.8 V	691
1993 TD ₁₀	1993 10 20.40154	02 48 17.63	+23 43 36.6		691	1993 TN ₁₀	1993 10 15.30187	01 46 27.65	+14 43 17.0	19.7 V	691
1993 TE ₁₀	* 1993 10 12.45898	03 02 58.91	+23 08 24.7	18.0 V	691	1993 TN ₁₀	1993 10 15.31917	01 46 26.83	+14 43 11.7		691
1993 TE ₁₀	1993 10 12.48337	03 02 57.80	+23 08 20.7		691	1993 TN ₁₀	1993 10 15.34186	01 46 25.80	+14 43 05.1		691
1993 TE ₁₀	1993 10 12.50739	03 02 56.72	+23 08 18.2		691	1993 TN ₁₀	1993 10 15.37516	01 46 24.23	+14 42 55.4		691
1993 TE ₁₀	1993 10 21.31952	02 55 42.15	+22 38 13.5	17.6 V	691	1993 TN ₁₀	1993 10 24.29445	01 39 39.93	+13 55 37.0	19.9 V	691
1993 TE ₁₀	1993 10 21.34026	02 55 40.98	+22 38 08.3		691	1993 TN ₁₀	1993 10 24.30210	01 39 39.59	+13 55 34.5		691
1993 TE ₁₀	1993 10 21.35835	02 55 39.83	+22 38 02.1		691	1993 TN ₁₀	1993 10 24.31017	01 39 39.23	+13 55 31.8		691
1993 TF ₁₀	* 1993 10 12.46152	03 06 39.44	+23 31 53.1	18.6 V	691	1993 TO ₁₀	* 1993 10 15.23699	01 46 53.37	+14 49 30.5		691
1993 TF ₁₀	1993 10 12.48592	03 06 38.47	+23 31 49.3		691	1993 TO ₁₀	1993 10 15.27954	01 46 51.49	+14 49 16.2	19.1 V	691
1993 TF ₁₀	1993 10 12.50994	03 06 37.45	+23 31 44.8		691	1993 TO ₁₀	1993 10 15.31944	01 46 49.59	+14 49 03.6		691
1993 TF ₁₀	1993 10 24.43480	02 56 52.52	+22 45 50.3	19.1 V	691	1993 TO ₁₀	1993 10 16.27685	01 46 05.54	+14 44 04.5	19.2 V	691
1993 TF ₁₀	1993 10 24.44303	02 56 52.02	+22 45 47.8		691	1993 TO ₁₀	1993 10 16.28542	01 46 05.18	+14 44 01.9		691
1993 TF ₁₀	1993 10 24.45085	02 56 51.56	+22 45 45.5		691	1993 TO ₁₀	1993 10 16.29397	01 46 04.73	+14 43 59.0		691
1993 TG ₁₀	* 1993 10 12.46291	03 08 39.43	+23 29 49.2	19.6 V	691	1993 TO ₁₀	1993 10 20.25587	01 43 01.02	+14 22 46.6		691
1993 TG ₁₀	1993 10 12.48730	03 08 38.46	+23 29 44.2		691	1993 TO ₁₀	1993 10 20.28949	01 42 59.40	+14 22 36.1	19.1 V	691
1993 TG ₁₀	1993 10 12.51132	03 08 37.52	+23 29 39.8		691	1993 TO ₁₀	1993 10 20.32196	01 42 57.84	+14 22 25.5		691
1993 TG ₁₀	1993 10 24.43681	02 59 47.37	+22 40 24.1	19.8 V	691	1993 TO ₁₀	1993 10 24.29455	01 39 54.35	+14 00 30.9		691
1993 TG ₁₀	1993 10 24.44505	02 59 46.93	+22 40 22.0		691	1993 TO ₁₀	1993 10 24.30219	01 39 53.98	+14 00 28.4	18.8 V	691
1993 TG ₁₀	1993 10 24.45287	02 59 46.54	+22 40 19.5		691	1993 TO ₁₀	1993 10 24.31026	01 39 53.58	+14 00 26.0		691
1993 TH ₁₀	* 1993 10 12.46444	03 10 52.56	+23 31 35.3		691	1993 TP ₁₀	* 1993 10 15.23753	01 47 40.16	+15 09 50.5		691
1993 TH ₁₀	1993 10 12.48884	03 10 51.54	+23 31 31.9		691	1993 TP ₁₀	1993 10 15.28007	01 47 37.87	+15 09 38.9	18.8 V	691
1993 TH ₁₀	1993 10 12.51286	03 10 50.66	+23 31 29.3	19.7 V	691	1993 TP ₁₀	1993 10 15.31997	01 47 35.71	+15 09 27.6		691
1993 TH ₁₀	1993 10 24.43821	03 01 48.41	+22 52 14.6	18.2 V	691	1993 TP ₁₀	1993 10 15.35514	01 47 33.77	+15 09 17.8		691
1993 TH ₁₀	1993 10 24.44645	03 01 48.02	+22 52 12.3		691	1993 TP ₁₀	1993 10 15.36534	01 47 33.23	+15 09 14.9	18.8 V	691
1993 TH ₁₀	1993 10 24.45427	03 01 47.62	+22 52 09.8		691	1993 TP ₁₀	1993 10 15.37573	01 47 32.66	+15 09 12.2		691
1993 TJ ₁₀	* 1993 10 13.17252	01 29 09.53	+12 44 36.9	17.7 V	691	1993 TP ₁₀	1993 10 16.27731	01 46 45.25	+15 04 59.3	18.9 V	691
1993 TJ ₁₀	1993 10 13.25372	01 29 04.38	+12 44 27.8		691	1993 TP ₁₀	1993 10 16.28588	01 46 44.76	+15 04 57.1		691
1993 TJ ₁₀	1993 10 13.30470	01 29 01.13	+12 44 21.8		691	1993 TP ₁₀	1993 10 16.29442	01 46 44.25	+15 04 54.9		691
1993 TJ ₁₀	1993 10 24.27174	01 17 45.59	+12 18 42.0		691	1993 TQ ₁₀	* 1993 10 15.23773	01 47 57.17	+15 00 06.4		691
1993 TJ ₁₀	1993 10 24.27970	01 17 45.06	+12 18 40.8	17.8 V	691	1993 TQ ₁₀	1993 10 15.28027	01 47 55.01	+15 00 01.3		691
1993 TJ ₁₀	1993 10 24.28761	01 17 44.56	+12 18 39.7		691	1993 TQ ₁₀	1993 10 15.32017	01 47 53.00	+14 59 56.4	20.4 V	691
1993 TK ₁₀	* 1993 10 13.17484	01 32 30.82	+12 34 00.7	18.9 V	691	1993 TQ ₁₀	1993 10 15.35535	01 47 51.17	+14 59 52.3		691
1993 TK ₁₀	1993 10 13.25605	01 32 25.54	+12 33 57.7		691	1993 TQ ₁₀	1993 10 15.36554	01 47 50.64	+14 59 51.1		691
1993 TK ₁₀	1993 10 13.30702	01 32 22.18	+12 33 56.0		691	1993 TQ ₁₀	1993 10 15.37593	01 47 50.12	+14 59 49.7	20.4 V	691
1993 TK ₁₀	1993 10 24.27398	01 20 59.45	+12 22 41.9	19.0 V	691	1993 TQ ₁₀	1993 10 16.27754	01 47 05.04	+14 57 58.1	20.6 V	691
1993 TK ₁₀	1993 10 24.28194	01 20 58.93	+12 22 41.0		691	1993 TQ ₁₀	1993 10 16.28611	01 47 04.56	+14 57 57.2		691
1993 TK ₁₀	1993 10 24.28985	01 20 58.38	+12 22 40.1		691	1993 TQ ₁₀	1993 10 16.29465	01 47 04.11	+14 57 54.8		691
1993 TL ₁₀	* 1993 10 13.32457	02 59 00.58	+22 24 47.7		691	1993 TR ₁₀	* 1993 10 15.23980	01 50 56.28	+15 03 23.9	20.3 V	691
1993 TL ₁₀	1993 10 13.33394	02 59 00.10	+22 24 49.1		691	1993 TR ₁₀	1993 10 15.28234	01 50 54.00	+15 03 05.0		691
1993 TL ₁₀	1993 10 13.34323	02 58 59.62	+22 24 50.4	19.8 V	691	1993 TR ₁₀	1993 10 15.32223	01 50 51.86	+15 02 47.6		691
1993 TL ₁₀	1993 10 16.31499	02 56 30.69	+22 31 44.6		691	1993 TR ₁₀	1993 10 16.27958	01 50 01.95	+14 55 37.1	20.3 V	691
1993 TL ₁₀	1993 10 16.35345	02 56 28.60	+22 31 49.8	19.5 V	691	1993 TR ₁₀	1993 10 16.28815	01 50 01.48	+14 55 33.7		691
1993 TL ₁₀	1993 10 16.39074	02 56 26.59	+22 31 54.6		691	1993 TR ₁₀	1993 10 16.29669	01 50 00.90	+14 55 29.8		691
1993 TM ₁₀	* 1993 10 13.32860	03 04 49.70	+22 42 26.0		691	1993 TS ₁₀	* 1993 10 15.24000	01 51 13.89	+14 49 31.5	17.8 V	691
1993 TM ₁₀	1993 10 13.33797	03 04 49.34	+22 42 25.0	20.2 V	691	1993 TS ₁₀	1993 10 15.28254	01 51 11.13	+14 49 27.6		691
1993 TM ₁₀	1993 10 13.34726	03 04 48.99	+22 42 24.1		691	1993 TS ₁₀	1993 10 15.32242	01 51 08.52	+14 49 23.8		691
1993 TM ₁₀	1993 10 21.32181	02 59 00.58	+22 27 22.9		691	1993 TS ₁₀	1993 10 15.35760	01 51 06.22	+14 49 20.3		691

1993 TS ₁₀	1993 10 15.36779	01 51 05.57	+14 49 19.4	18.1 V	691	1993 TA ₁₁	1993 10 15.34264	01 47 33.24	+14 18 12.8	21.1 V	691
1993 TS ₁₀	1993 10 15.37818	01 51 04.89	+14 49 18.3		691	1993 TA ₁₁	1993 10 24.40589	01 39 38.59	+13 31 00.5	20.9 V	691
1993 TS ₁₀	1993 10 16.27966	01 50 08.65	+14 47 47.7		691	1993 TA ₁₁	1993 10 24.41564	01 39 38.16	+13 30 57.3		691
1993 TS ₁₀	1993 10 16.28822	01 50 08.09	+14 47 47.0	17.8 V	691	1993 TA ₁₁	1993 10 24.42355	01 39 37.67	+13 30 53.7		691
1993 TS ₁₀	1993 10 16.29677	01 50 07.54	+14 47 46.0		691	1993 TB ₁₁	* 1993 10 15.26268	01 47 41.39	+14 36 26.5	18.9 V	691
1993 TT ₁₀	* 1993 10 15.24026	01 51 36.57	+15 02 49.7		691	1993 TB ₁₁	1993 10 15.30270	01 47 39.04	+14 36 16.3		691
1993 TT ₁₀	1993 10 15.28280	01 51 34.35	+15 02 41.8	20.4 V	691	1993 TB ₁₁	1993 10 15.34268	01 47 36.64	+14 36 06.6		691
1993 TT ₁₀	1993 10 15.32270	01 51 32.28	+15 02 34.6		691	1993 TB ₁₁	1993 10 24.29419	01 38 54.08	+13 54 06.3	18.9 V	691
1993 TT ₁₀	1993 10 16.28006	01 50 43.55	+14 59 31.6	20.4 V	691	1993 TB ₁₁	1993 10 24.30183	01 38 53.61	+13 54 03.7		691
1993 TT ₁₀	1993 10 16.28863	01 50 43.13	+14 59 29.1		691	1993 TB ₁₁	1993 10 24.30991	01 38 53.12	+13 54 01.5		691
1993 TT ₁₀	1993 10 16.29718	01 50 42.65	+14 59 27.5		691	1993 TB ₁₁	1993 10 24.40542	01 38 47.21	+13 53 32.3	18.9 V	691
1993 TU ₁₀	* 1993 10 15.24711	01 24 53.59	+14 24 39.2	18.2 V	691	1993 TB ₁₁	1993 10 24.41517	01 38 46.66	+13 53 28.6		691
1993 TU ₁₀	1993 10 15.28715	01 24 51.63	+14 24 32.0		691	1993 TB ₁₁	1993 10 24.42309	01 38 46.20	+13 53 26.2		691
1993 TU ₁₀	1993 10 15.32715	01 24 49.52	+14 24 22.6		691	1993 TC ₁₁	* 1993 10 15.35815	01 51 54.06	+14 51 08.7		691
1993 TU ₁₀	1993 10 16.23471	01 24 05.07	+14 21 24.9		691	1993 TC ₁₁	1993 10 15.36834	01 51 53.53	+14 51 11.4		691
1993 TU ₁₀	1993 10 16.26874	01 24 03.36	+14 21 17.9	17.9 V	691	1993 TC ₁₁	1993 10 15.37873	01 51 52.95	+14 51 13.9	20.5 V	691
1993 TU ₁₀	1993 10 16.30606	01 24 01.47	+14 21 11.0		691	1993 TC ₁₁	1993 10 16.28036	01 51 09.46	+14 55 15.9		691
1993 TV ₁₀	* 1993 10 15.24752	01 25 47.87	+14 16 34.4		691	1993 TC ₁₁	1993 10 16.28893	01 51 08.99	+14 55 18.8		691
1993 TV ₁₀	1993 10 15.28754	01 25 45.84	+14 16 14.1	17.9 V	691	1993 TC ₁₁	1993 10 16.29747	01 51 08.53	+14 55 20.6	20.3 V	691
1993 TV ₁₀	1993 10 15.32753	01 25 43.76	+14 15 53.7		691	1993 TD ₁₁	* 1993 10 15.35881	01 52 50.96	+15 03 57.9		691
1993 TV ₁₀	1993 10 16.23533	01 24 59.25	+14 08 19.2		691	1993 TD ₁₁	1993 10 15.36900	01 52 50.42	+15 03 54.7	18.4 V	691
1993 TV ₁₀	1993 10 16.26936	01 24 57.52	+14 08 02.1	17.6 V	691	1993 TD ₁₁	1993 10 15.37939	01 52 49.80	+15 03 52.2		691
1993 TV ₁₀	1993 10 16.30669	01 24 55.62	+14 07 43.4		691	1993 TD ₁₁	1993 10 16.28099	01 52 03.68	+14 59 04.4		691
1993 TV ₁₀	1993 10 20.22915	01 21 44.19	+13 34 34.5	17.8 V	691	1993 TD ₁₁	1993 10 16.28955	01 52 03.22	+14 59 02.1	18.2 V	691
1993 TV ₁₀	1993 10 20.23729	01 21 43.88	+13 34 28.6		691	1993 TD ₁₁	1993 10 16.29810	01 52 02.75	+14 58 59.1		691
1993 TV ₁₀	1993 10 20.24538	01 21 43.41	+13 34 26.3		691	1993 TD ₁₁	1993 10 20.25944	01 48 36.14	+14 37 05.7	17.7 V	691
1993 TW ₁₀	* 1993 10 15.24892	01 27 49.50	+14 21 42.8		691	1993 TD ₁₁	1993 10 20.29305	01 48 34.31	+14 36 54.2		691
1993 TW ₁₀	1993 10 15.28894	01 27 47.08	+14 21 25.0	19.0 V	691	1993 TD ₁₁	1993 10 20.32551	01 48 32.52	+14 36 43.4		691
1993 TW ₁₀	1993 10 15.32892	01 27 44.63	+14 21 06.9		691	1993 TD ₁₁	1993 10 21.20734	01 47 46.59	+14 31 40.9	17.8 V	691
1993 TW ₁₀	1993 10 16.23663	01 26 51.86	+14 14 26.4		691	1993 TD ₁₁	1993 10 21.24219	01 47 44.72	+14 31 29.5		691
1993 TW ₁₀	1993 10 16.27066	01 26 49.79	+14 14 11.2	18.8 V	691	1993 TD ₁₁	1993 10 21.27663	01 47 42.79	+14 31 17.8		691
1993 TW ₁₀	1993 10 16.30798	01 26 47.52	+14 13 54.8		691	1993 TE ₁₁	* 1993 10 15.35975	01 54 12.68	+14 46 39.9	20.2 V	691
1993 TX ₁₀	* 1993 10 15.24916	01 28 10.35	+14 16 32.3		691	1993 TE ₁₁	1993 10 15.36994	01 54 12.21	+14 46 38.2		691
1993 TX ₁₀	1993 10 15.28918	01 28 08.28	+14 16 21.0	20.5 V	691	1993 TE ₁₁	1993 10 15.38033	01 54 11.70	+14 46 36.9		691
1993 TX ₁₀	1993 10 15.32917	01 28 06.26	+14 16 08.7		691	1993 TE ₁₁	1993 10 20.26055	01 50 12.33	+14 33 05.9	19.3 V	691
1993 TX ₁₀	1993 10 16.23698	01 27 21.85	+14 11 43.6	20.5 V	691	1993 TE ₁₁	1993 10 20.29416	01 50 10.62	+14 32 59.8		691
1993 TX ₁₀	1993 10 16.27101	01 27 20.10	+14 11 33.2		691	1993 TE ₁₁	1993 10 20.32663	01 50 08.97	+14 32 54.3		691
1993 TX ₁₀	1993 10 16.30834	01 27 18.19	+14 11 22.3		691	1993 TE ₁₁	1993 10 21.20848	01 49 25.45	+14 30 20.2	19.4 V	691
1993 TY ₁₀	* 1993 10 15.26154	01 46 02.80	+14 36 11.7	19.6 V	691	1993 TE ₁₁	1993 10 21.24333	01 49 23.70	+14 30 14.1		691
1993 TY ₁₀	1993 10 15.30156	01 46 00.97	+14 35 59.9		691	1993 TE ₁₁	1993 10 21.27777	01 49 21.84	+14 30 08.8		691
1993 TY ₁₀	1993 10 15.34155	01 45 59.09	+14 35 48.4		691	1993 TF ₁₁	* 1993 10 15.36083	01 55 46.07	+15 02 06.6		691
1993 TY ₁₀	1993 10 24.40559	01 39 12.46	+13 49 40.6		691	1993 TF ₁₁	1993 10 15.37102	01 55 45.52	+15 02 02.6		691
1993 TY ₁₀	1993 10 24.41533	01 39 12.04	+13 49 37.4		691	1993 TF ₁₁	1993 10 15.38141	01 55 44.93	+15 01 58.3	18.2 V	691
1993 TY ₁₀	1993 10 24.42325	01 39 11.68	+13 49 35.2	19.6 V	691	1993 TF ₁₁	1993 10 20.26139	01 51 25.08	+14 27 19.0	17.4 V	691
1993 TZ ₁₀	* 1993 10 15.26187	01 46 31.08	+14 14 11.6	19.2 V	691	1993 TF ₁₁	1993 10 20.29500	01 51 23.15	+14 27 04.1		691
1993 TZ ₁₀	1993 10 15.30189	01 46 28.93	+14 14 02.5		691	1993 TF ₁₁	1993 10 20.32746	01 51 21.28	+14 26 49.9		691
1993 TZ ₁₀	1993 10 15.34187	01 46 26.76	+14 13 53.1		691	1993 TF ₁₁	1993 10 21.20926	01 50 33.59	+14 20 16.5	17.5 V	691
1993 TZ ₁₀	1993 10 24.40541	01 38 44.12	+13 34 50.3	19.2 V	691	1993 TF ₁₁	1993 10 21.24412	01 50 31.57	+14 20 00.0		691
1993 TZ ₁₀	1993 10 24.41516	01 38 43.65	+13 34 47.5		691	1993 TG ₁₁	* 1993 10 15.36093	01 55 55.25	+14 46 16.2		691
1993 TZ ₁₀	1993 10 24.42307	01 38 43.22	+13 34 45.0		691	1993 TG ₁₁	1993 10 15.37113	01 55 54.70	+14 46 12.5		691
1993 TA ₁₁	* 1993 10 15.26264	01 47 37.58	+14 18 36.0		691	1993 TG ₁₁	1993 10 15.38152	01 55 54.12	+14 46 08.7	18.5 V	691
1993 TA ₁₁	1993 10 15.30265	01 47 35.43	+14 18 24.1		691	1993 TG ₁₁	1993 10 20.26154	01 51 37.97	+14 15 57.7	17.8 V	691

1993 TG ₁₁	1993 10 20.29514	01 51 36.09	+14 15 45.1	691	1993 UL ₁	1993 10 21.35770	02 54 18.72	+22 32 19.7	691
1993 TG ₁₁	1993 10 20.32761	01 51 34.26	+14 15 32.5	691	1993 UM ₁	* 1993 10 16.36375	02 43 12.49	+21 48 51.0	20.0 V 691
1993 TG ₁₁	1993 10 21.20943	01 50 47.95	+14 09 55.4	691	1993 UM ₁	1993 10 16.37268	02 43 11.92	+21 48 52.3	691
1993 TG ₁₁	1993 10 21.24428	01 50 46.03	+14 09 41.6	691	1993 UM ₁	1993 10 16.38145	02 43 11.26	+21 48 53.7	691
1993 TG ₁₁	1993 10 21.27872	01 50 44.03	+14 09 29.2	18.1 V 691	1993 UM ₁	1993 10 21.37734	02 37 45.61	+22 00 21.6	691
1993 TH ₁₁	* 1993 10 15.36094	01 55 55.66	+15 02 05.9	691	1993 UM ₁	1993 10 21.41330	02 37 43.01	+22 00 25.2	691
1993 TH ₁₁	1993 10 15.37113	01 55 55.12	+15 02 02.2	19.1 V 691	1993 UM ₁	1993 10 21.43271	02 37 41.64	+22 00 26.7	19.3 V 691
1993 TH ₁₁	1993 10 15.38152	01 55 54.53	+15 01 59.2	691	1993 UN ₁	* 1993 10 16.36481	02 44 44.31	+22 13 15.8	17.0 V 691
1993 TH ₁₁	1993 10 20.26158	01 51 41.65	+14 34 58.9	691	1993 UN ₁	1993 10 16.37374	02 44 43.83	+22 13 13.6	691
1993 TH ₁₁	1993 10 20.29519	01 51 39.75	+14 34 46.9	691	1993 UN ₁	1993 10 16.38251	02 44 43.35	+22 13 11.3	691
1993 TH ₁₁	1993 10 20.32765	01 51 37.91	+14 34 35.5	18.6 V 691	1993 UN ₁	1993 10 21.22893	02 40 21.39	+21 50 24.7	16.9 V 691
1993 TH ₁₁	1993 10 21.20947	01 50 51.41	+14 29 24.5	18.8 V 691	1993 UN ₁	1993 10 21.26315	02 40 19.39	+21 50 14.5	691
1993 TH ₁₁	1993 10 21.24432	01 50 49.47	+14 29 12.8	691	1993 UN ₁	1993 10 21.29767	02 40 17.37	+21 50 04.0	691
1993 TH ₁₁	1993 10 21.27876	01 50 47.48	+14 29 00.7	691	1993 UO ₁	* 1993 10 16.36668	02 47 26.89	+22 06 25.8	18.5 V 691
1993 TJ ₁₁	* 1993 10 15.36719	01 50 13.59	+14 53 57.4	691	1993 UO ₁	1993 10 16.37561	02 47 26.40	+22 06 24.8	691
1993 TJ ₁₁	1993 10 15.37758	01 50 13.00	+14 53 56.5	19.7 V 691	1993 UO ₁	1993 10 16.38439	02 47 25.92	+22 06 23.5	691
1993 TJ ₁₁	1993 10 16.27917	01 49 26.44	+14 52 49.5	19.4 V 691	1993 UO ₁	1993 10 21.23067	02 42 51.92	+21 54 25.2	18.5 V 691
1993 TJ ₁₁	1993 10 16.28774	01 49 25.93	+14 52 49.3	691	1993 UO ₁	1993 10 21.26489	02 42 49.84	+21 54 19.3	691
1993 TJ ₁₁	1993 10 16.29628	01 49 25.47	+14 52 48.4	691	1993 UO ₁	1993 10 21.29941	02 42 47.74	+21 54 13.3	691
1993 TS ₁₁	1993 10 15.23530	01 44 26.84	+14 43 27.4	691	1993 UP ₁	* 1993 10 16.36720	02 48 11.65	+22 03 33.4	21.0 V 691
1993 TS ₁₁	1993 10 15.26042	01 44 25.16	+14 43 25.9	16.1 V 691	1993 UP ₁	1993 10 16.37613	02 48 11.15	+22 03 31.4	691
1993 TS ₁₁	1993 10 15.27784	01 44 24.01	+14 43 24.9	691	1993 UP ₁	1993 10 16.38491	02 48 10.61	+22 03 29.5	691
1993 TS ₁₁	1993 10 15.30043	01 44 22.48	+14 43 23.4	691	1993 UP ₁	1993 10 21.23112	02 43 31.17	+21 42 48.1	691
1993 TS ₁₁	1993 10 15.31772	01 44 21.31	+14 43 22.4	16.2 V 691	1993 UP ₁	1993 10 21.26534	02 43 29.06	+21 42 41.0	691
1993 TS ₁₁	1993 10 15.34041	01 44 19.82	+14 43 21.2	691	1993 UP ₁	1993 10 21.29986	02 43 26.85	+21 42 31.0	20.6 V 691
1993 TJ ₁₂	1993 10 10.17087	01 39 13.63	+14 01 54.4	16.9 V 691	1993 UQ ₁	* 1993 10 20.25641	01 44 13.56	+14 20 21.7	18.6 V 691
1993 TJ ₁₂	1993 10 10.18968	01 39 12.58	+14 01 52.8	691	1993 UQ ₁	1993 10 20.29001	01 44 11.40	+14 20 22.8	691
1993 TJ ₁₂	1993 10 10.20858	01 39 11.49	+14 01 51.5	691	1993 UQ ₁	1993 10 20.32247	01 44 09.28	+14 20 23.9	691
1993 TL ₁₂	1993 10 15.23309	01 41 15.45	+15 01 37.0	16.2 V 691	1993 UQ ₁	1993 10 21.20440	01 43 15.31	+14 20 40.5	691
1993 TL ₁₂	1993 10 15.27564	01 41 13.71	+15 01 12.8	691	1993 UQ ₁	1993 10 21.23925	01 43 13.09	+14 20 41.1	19.0 V 691
1993 TL ₁₂	1993 10 15.31554	01 41 12.15	+15 00 49.7	691	1993 UQ ₁	1993 10 21.27369	01 43 10.87	+14 20 41.8	691
1993 UD	* 1993 10 16.36427	02 43 57.50	+22 11 38.5	19.8 V 691	1993 UR ₁	* 1993 10 20.25692	01 44 57.89	+14 18 35.6	691
1993 UD	1993 10 16.37318	02 43 55.48	+22 11 58.8	19.6 V 691	1993 UR ₁	1993 10 20.29053	01 44 55.91	+14 18 33.6	691
1993 UD	1993 10 16.38194	02 43 53.50	+22 12 16.5	20.5 V 691	1993 UR ₁	1993 10 20.32299	01 44 54.12	+14 18 31.1	20.2 V 691
1993 UD	1993 10 19.49801	02 32 14.93	+24 01 14.2	691	1993 UR ₁	1993 10 21.20479	01 44 05.87	+14 17 23.2	20.8 V 691
1993 UD	1993 10 19.51825	02 32 10.14	+24 01 54.7	691	1993 UR ₁	1993 10 21.23964	01 44 03.93	+14 17 20.7	691
1993 UD	1993 10 20.35789	02 28 59.13	+24 29 51.8	21.2 V 691	1993 UR ₁	1993 10 21.27408	01 44 01.97	+14 17 18.5	691
1993 UD	1993 10 20.37513	02 28 54.97	+24 30 25.4	20.2 V 691	1993 US ₁	* 1993 10 20.25723	01 45 24.09	+14 12 53.5	18.0 V 691
1993 UD	1993 10 20.39209	02 28 51.02	+24 30 58.5	20.0 V 691	1993 US ₁	1993 10 20.29082	01 45 21.80	+14 12 45.5	691
1993 UD	1993 11 06.10891	01 27 53.72	+30 59 24.3	19.9 V 691	1993 US ₁	1993 10 20.32329	01 45 19.57	+14 12 37.4	691
1993 UD	1993 11 06.11837	01 27 51.86	+30 59 33.8	19.4 V 691	1993 US ₁	1993 10 21.20497	01 44 21.90	+14 08 55.1	18.3 V 691
1993 UK ₁	* 1993 10 16.28053	01 51 24.55	+14 54 52.8	691	1993 US ₁	1993 10 21.23982	01 44 19.57	+14 08 46.3	691
1993 UK ₁	1993 10 16.28910	01 51 24.02	+14 54 50.0	21.5 V 691	1993 US ₁	1993 10 21.27426	01 44 17.22	+14 08 37.9	691
1993 UK ₁	1993 10 16.29765	01 51 23.49	+14 54 47.2	691	1993 US ₁	1993 10 24.30295	01 40 59.73	+13 55 38.4	18.2 V 691
1993 UK ₁	1993 10 21.20635	01 46 21.56	+14 26 39.9	20.6 V 691	1993 US ₁	1993 10 24.31102	01 40 59.17	+13 55 36.3	691
1993 UK ₁	1993 10 21.24120	01 46 19.40	+14 26 27.7	691	1993 US ₁	1993 10 24.40675	01 40 52.84	+13 55 11.5	18.7 V 691
1993 UK ₁	1993 10 21.27564	01 46 17.16	+14 26 15.6	691	1993 US ₁	1993 10 24.41649	01 40 52.18	+13 55 08.4	691
1993 UL ₁	* 1993 10 16.31565	02 58 02.29	+22 49 36.8	691	1993 US ₁	1993 10 24.42441	01 40 51.67	+13 55 06.4	691
1993 UL ₁	1993 10 16.35411	02 58 00.61	+22 49 30.2	691	1993 UT ₁	* 1993 10 20.25801	01 46 31.85	+14 07 08.5	18.9 V 691
1993 UL ₁	1993 10 16.39138	02 57 58.99	+22 49 23.7	18.5 V 691	1993 UT ₁	1993 10 20.29161	01 46 29.73	+14 06 58.3	691
1993 UL ₁	1993 10 21.31886	02 54 20.80	+22 32 29.4	19.0 V 691	1993 UT ₁	1993 10 20.32407	01 46 27.71	+14 06 48.6	691
1993 UL ₁	1993 10 21.33961	02 54 19.69	+22 32 24.6	691	1993 UT ₁	1993 10 24.29638	01 42 32.71	+13 46 23.6	691

1993 UT ₁	1993 10 24.30401	01 42 32.23	+13 46 21.2	19.0 V	691	1993 UA ₂	1993 10 21.27941	01 51 43.53	+14 30 47.4		691
1993 UT ₁	1993 10 24.31209	01 42 31.72	+13 46 18.4		691	1993 UB ₂	* 1993 10 20.26253	01 53 03.94	+14 15 08.2		691
1993 UT ₁	1993 10 24.40782	01 42 25.97	+13 45 48.4		691	1993 UB ₂	1993 10 20.29613	01 53 01.84	+14 14 59.9	18.2 V	691
1993 UT ₁	1993 10 24.41757	01 42 25.35	+13 45 45.2	19.2 V	691	1993 UB ₂	1993 10 20.32860	01 52 59.85	+14 14 51.7		691
1993 UT ₁	1993 10 24.42548	01 42 24.89	+13 45 42.5		691	1993 UB ₂	1993 10 21.21036	01 52 08.42	+14 11 11.7		691
1993 UU ₁	* 1993 10 20.25999	01 49 23.35	+14 17 24.2	19.1 V	691	1993 UB ₂	1993 10 21.24521	01 52 06.28	+14 11 03.2	18.3 V	691
1993 UU ₁	1993 10 20.29359	01 49 21.29	+14 17 15.4		691	1993 UB ₂	1993 10 21.27965	01 52 04.10	+14 10 54.7		691
1993 UU ₁	1993 10 20.32605	01 49 19.28	+14 17 06.2		691	1993 UC ₂	* 1993 10 20.26280	01 53 27.09	+14 13 55.8		691
1993 UU ₁	1993 10 21.20780	01 48 26.89	+14 13 02.4	19.3 V	691	1993 UC ₂	1993 10 20.29640	01 53 25.02	+14 13 49.6	19.0 V	691
1993 UU ₁	1993 10 21.24265	01 48 24.77	+14 12 52.7		691	1993 UC ₂	1993 10 20.32886	01 53 22.99	+14 13 43.4		691
1993 UU ₁	1993 10 21.27709	01 48 22.62	+14 12 43.5		691	1993 UC ₂	1993 10 21.21061	01 52 30.10	+14 10 59.7	19.2 V	691
1993 UU ₁	1993 10 24.29836	01 45 23.62	+13 58 34.0	19.2 V	691	1993 UC ₂	1993 10 21.24546	01 52 27.94	+14 10 53.6		691
1993 UU ₁	1993 10 24.30599	01 45 23.12	+13 58 32.1		691	1993 UC ₂	1993 10 21.27990	01 52 25.78	+14 10 47.1		691
1993 UU ₁	1993 10 24.31406	01 45 22.64	+13 58 29.7		691	1993 UD ₂	* 1993 10 20.26301	01 53 45.39	+14 37 20.2	17.3 V	691
1993 UV ₁	* 1993 10 20.26001	01 49 25.43	+14 32 15.7	20.7 V	691	1993 UD ₂	1993 10 20.29662	01 53 43.52	+14 37 11.1		691
1993 UV ₁	1993 10 20.29362	01 49 23.70	+14 31 59.9		691	1993 UD ₂	1993 10 20.32908	01 53 41.71	+14 37 02.2		691
1993 UV ₁	1993 10 20.32608	01 49 21.97	+14 31 45.4		691	1993 UD ₂	1993 10 21.21088	01 52 53.73	+14 33 08.6		691
1993 UV ₁	1993 10 21.20792	01 48 37.50	+14 24 47.7		691	1993 UD ₂	1993 10 21.24573	01 52 51.79	+14 32 59.5	17.7 V	691
1993 UV ₁	1993 10 21.24278	01 48 35.69	+14 24 31.8	20.6 V	691	1993 UD ₂	1993 10 21.28017	01 52 49.81	+14 32 50.5		691
1993 UV ₁	1993 10 21.27722	01 48 33.87	+14 24 15.6		691	1993 UE ₂	* 1993 10 20.26364	01 54 39.93	+14 37 04.5	19.6 V	691
1993 UV ₁	1993 10 24.29879	01 46 01.02	+14 00 11.5	20.6 V	691	1993 UE ₂	1993 10 20.29725	01 54 38.17	+14 36 58.1		691
1993 UV ₁	1993 10 24.30642	01 46 00.66	+14 00 07.3		691	1993 UE ₂	1993 10 20.32971	01 54 36.57	+14 36 51.3		691
1993 UV ₁	1993 10 24.31449	01 46 00.22	+14 00 03.9		691	1993 UE ₂	1993 10 21.21157	01 53 53.18	+14 34 08.4		691
1993 UW ₁	* 1993 10 20.26040	01 49 59.00	+14 21 53.8	20.3 V	691	1993 UE ₂	1993 10 21.24642	01 53 51.44	+14 34 02.1	19.7 V	691
1993 UW ₁	1993 10 20.29399	01 49 56.40	+14 22 05.3		691	1993 UF ₂	* 1993 10 20.26383	01 54 56.02	+14 18 32.9		691
1993 UW ₁	1993 10 20.32645	01 49 53.87	+14 22 15.9		691	1993 UF ₂	1993 10 20.29743	01 54 54.29	+14 18 26.2	18.3 V	691
1993 UW ₁	1993 10 21.20804	01 48 47.49	+14 27 12.3		691	1993 UF ₂	1993 10 20.32990	01 54 52.60	+14 18 19.6		691
1993 UW ₁	1993 10 21.24288	01 48 44.87	+14 27 21.3		691	1993 UF ₂	1993 10 21.21175	01 54 09.15	+14 15 23.4	18.8 V	691
1993 UW ₁	1993 10 21.27732	01 48 42.16	+14 27 33.5	20.4 V	691	1993 UF ₂	1993 10 21.24661	01 54 07.42	+14 15 17.2		691
1993 UX ₁	* 1993 10 20.26074	01 50 28.71	+14 16 35.0	20.5 V	691	1993 UF ₂	1993 10 21.28105	01 54 05.59	+14 15 10.2		691
1993 UX ₁	1993 10 20.29434	01 50 26.39	+14 16 27.3		691	1993 UG ₂	* 1993 10 20.26423	01 55 31.22	+14 30 03.9	17.9 V	691
1993 UX ₁	1993 10 20.32680	01 50 24.21	+14 16 20.6		691	1993 UG ₂	1993 10 20.29784	01 55 29.29	+14 29 57.1		691
1993 UX ₁	1993 10 24.29882	01 46 03.75	+14 01 12.7	20.5 V	691	1993 UG ₂	1993 10 20.33030	01 55 27.44	+14 29 50.6		691
1993 UX ₁	1993 10 24.30645	01 46 03.26	+14 01 11.5		691	1993 UG ₂	1993 10 21.21209	01 54 38.67	+14 26 50.8	18.1 V	691
1993 UX ₁	1993 10 24.31452	01 46 02.72	+14 01 09.4		691	1993 UG ₂	1993 10 21.24694	01 54 36.70	+14 26 44.2		691
1993 UY ₁	* 1993 10 20.26145	01 51 30.37	+14 09 24.8	18.5 V	691	1993 UG ₂	1993 10 21.28139	01 54 34.66	+14 26 37.5		691
1993 UY ₁	1993 10 20.29505	01 51 27.89	+14 09 32.2		691	1993 UH ₂	* 1993 10 20.26429	01 55 36.10	+14 34 57.3	16.5 V	691
1993 UY ₁	1993 10 20.32751	01 51 25.58	+14 09 38.9		691	1993 UH ₂	1993 10 20.29789	01 55 34.32	+14 34 45.3		691
1993 UY ₁	1993 10 21.20915	01 50 24.00	+14 12 56.6	18.7 V	691	1993 UH ₂	1993 10 20.33036	01 55 32.60	+14 34 33.7		691
1993 UY ₁	1993 10 21.24400	01 50 21.48	+14 13 04.9		691	1993 UH ₂	1993 10 21.21220	01 54 48.29	+14 29 19.0	16.8 V	691
1993 UY ₁	1993 10 21.27843	01 50 18.91	+14 13 12.7		691	1993 UH ₂	1993 10 21.24706	01 54 46.48	+14 29 07.1		691
1993 UZ ₁	* 1993 10 20.26195	01 52 13.23	+14 24 06.3		691	1993 UH ₂	1993 10 21.28150	01 54 44.59	+14 28 55.2		691
1993 UZ ₁	1993 10 20.29555	01 52 11.02	+14 23 54.8		691	1993 UJ ₂	* 1993 10 20.26442	01 55 47.00	+14 23 46.1	20.3 V	691
1993 UZ ₁	1993 10 20.32801	01 52 08.88	+14 23 44.0	19.1 V	691	1993 UJ ₂	1993 10 20.29802	01 55 45.12	+14 23 43.5		691
1993 UZ ₁	1993 10 21.20973	01 51 14.08	+14 18 42.7	19.1 V	691	1993 UJ ₂	1993 10 20.33048	01 55 43.33	+14 23 41.5		691
1993 UZ ₁	1993 10 21.24458	01 51 11.84	+14 18 30.9		691	1993 UJ ₂	1993 10 21.21230	01 54 56.46	+14 22 42.4		691
1993 UZ ₁	1993 10 21.27902	01 51 09.53	+14 18 19.4		691	1993 UJ ₂	1993 10 21.24715	01 54 54.59	+14 22 40.4	20.6 V	691
1993 UA ₂	* 1993 10 20.26240	01 52 52.40	+14 35 19.5	16.6 V	691	1993 UJ ₂	1993 10 21.28159	01 54 52.59	+14 22 38.3		691
1993 UA ₂	1993 10 20.29600	01 52 50.06	+14 35 10.4		691	1993 UK ₂	* 1993 10 20.26537	01 57 09.63	+14 26 28.3	16.7 V	691
1993 UA ₂	1993 10 20.32846	01 52 47.78	+14 35 01.9		691	1993 UK ₂	1993 10 20.29897	01 57 07.42	+14 26 22.2		691
1993 UA ₂	1993 10 21.21013	01 51 48.38	+14 31 05.3	16.7 V	691	1993 UK ₂	1993 10 20.33143	01 57 05.24	+14 26 15.7		691
1993 UA ₂	1993 10 21.24497	01 51 46.01	+14 30 56.5		691	1993 UK ₂	1993 10 21.21314	01 56 09.19	+14 23 41.2	16.9 V	691

1993 UK ₂	1993 10 21.24799	01 56 06.99	+14 23 35.6	691	1993 VD	1993 11 10.25622	03 35 46.57	+27 56 00.1	20.1 V	691	
1993 UK ₂	1993 10 21.28242	01 56 04.63	+14 23 29.7	691	1993 VD	1993 11 10.43326	03 34 19.80	+27 50 52.2	19.4 V	691	
1993 UL ₂	* 1993 10 20.26603	01 58 07.15	+14 25 24.8	691	1993 VD	1993 11 10.44180	03 34 15.64	+27 50 37.2	19.4 V	691	
1993 UL ₂	1993 10 20.29964	01 58 05.17	+14 25 19.4	17.4 V	691	1993 VD	1993 11 10.45031	03 34 11.55	+27 50 21.4	20.0 V	691
1993 UL ₂	1993 10 20.33210	01 58 03.24	+14 25 14.0	691	1993 VD	1993 11 17.29295	02 48 43.82	+24 24 31.2		691	
1993 UL ₂	1993 10 21.21388	01 57 13.23	+14 22 49.8	17.6 V	691	1993 VD	1993 11 17.30155	02 48 40.90	+24 24 16.5		691
1993 UL ₂	1993 10 21.24873	01 57 11.28	+14 22 44.5	691	1993 VD	1993 11 17.30939	02 48 38.26	+24 24 02.4		691	
1993 UL ₂	1993 10 21.28317	01 57 09.16	+14 22 39.5	691	1993 WG	* 1993 11 21.15145	02 27 00.11	+18 16 37.8	18.9 V	691	
1993 UM ₂	* 1993 10 21.32210	02 59 25.71	+22 27 59.7	691	1993 WG	1993 11 21.18564	02 26 59.59	+18 16 14.2	18.9 V	691	
1993 UM ₂	1993 10 21.34284	02 59 24.33	+22 28 00.2	19.0 V	691	1993 WG	1993 11 21.21951	02 26 59.11	+18 15 50.5	18.9 V	691
1993 UM ₂	1993 10 21.36093	02 59 23.20	+22 28 01.1	691	4018 P-L	1993 10 10.16253	01 27 11.55	+13 58 56.1		691	
1993 UM ₂	1993 10 24.43441	02 56 18.85	+22 30 38.8	18.9 V	691	4018 P-L	1993 10 10.18134	01 27 10.47	+13 58 54.9	16.0 V	691
1993 UM ₂	1993 10 24.44264	02 56 18.31	+22 30 39.0	691	4018 P-L	1993 10 10.20025	01 27 09.38	+13 58 53.4		691	
1993 UM ₂	1993 10 24.45046	02 56 17.81	+22 30 39.3	691	(631)	1993 10 13.26649	02 21 16.09	+20 35 45.5	12.6 V	691	
1993 UN ₂	* 1993 10 21.32270	03 00 17.12	+22 44 34.2	19.4 V	691	(631)	1993 10 13.27512	02 21 15.70	+20 35 41.1		691
1993 UN ₂	1993 10 21.34344	03 00 16.07	+22 44 31.2	691	(631)	1993 10 13.28406	02 21 15.29	+20 35 36.6		691	
1993 UN ₂	1993 10 21.36153	03 00 15.09	+22 44 28.7	691	(1308)	1993 10 21.22958	02 41 17.52	+21 48 07.8	14.7 V	691	
1993 UN ₂	1993 10 24.43530	02 57 35.88	+22 36 47.5	19.4 V	691	(1308)	1993 10 21.26380	02 41 15.75	+21 48 04.3		691
1993 UN ₂	1993 10 24.44353	02 57 35.42	+22 36 46.2	691	(1308)	1993 10 21.29833	02 41 13.96	+21 48 00.8		691	
1993 UN ₂	1993 10 24.45135	02 57 34.97	+22 36 44.5	691	(1552)	1993 10 10.16948	01 37 13.28	+13 56 19.7	14.8 V	691	
1993 UO ₂	* 1993 10 21.32308	03 00 50.69	+22 35 44.1	691	(1552)	1993 10 10.18829	01 37 12.26	+13 56 18.6		691	
1993 UO ₂	1993 10 21.34382	03 00 49.53	+22 35 42.7	19.8 V	691	(1552)	1993 10 10.20720	01 37 11.22	+13 56 17.8		691
1993 UO ₂	1993 10 21.36192	03 00 48.45	+22 35 40.6	691	(2709)	1993 10 08.18915	01 33 38.62	+13 01 02.1		691	
1993 UO ₂	1993 10 24.43554	02 57 56.82	+22 30 33.5	19.9 V	691	(2709)	1993 10 08.23231	01 33 36.02	+13 00 45.9	16.1 V	691
1993 UO ₂	1993 10 24.44377	02 57 56.34	+22 30 32.8	691	(2709)	1993 10 08.28438	01 33 32.87	+13 00 26.5		691	
1993 UO ₂	1993 10 24.45159	02 57 55.84	+22 30 32.2	691	(3577)	1993 10 15.24708	01 24 47.45	+14 17 04.8	15.5 V	691	
1993 UP ₂	* 1993 10 21.32317	03 00 58.56	+22 48 50.1	691	(3577)	1993 10 15.28711	01 24 45.82	+14 16 55.1		691	
1993 UP ₂	1993 10 21.34392	03 00 57.59	+22 48 48.7	20.5 V	691	(3577)	1993 10 15.32712	01 24 44.15	+14 16 45.3		691
1993 UP ₂	1993 10 21.36201	03 00 56.78	+22 48 47.9	691	(3577)	1993 10 16.23475	01 24 08.41	+14 13 10.6		691	
1993 UP ₂	1993 10 24.43596	02 58 33.12	+22 44 44.7	20.0 V	691	(3577)	1993 10 16.26878	01 24 07.03	+14 13 02.4	15.2 V	691
1993 UP ₂	1993 10 24.44419	02 58 32.69	+22 44 44.5	691	(3577)	1993 10 16.30611	01 24 05.51	+14 12 53.6		691	
1993 UP ₂	1993 10 24.45201	02 58 32.33	+22 44 42.8	691	(3798)	1993 10 15.23298	01 41 06.09	+14 46 38.2	16.7 V	691	
1993 VC	* 1993 11 08.12828	01 55 57.62	+16 33 22.2	19.7 V	691	(3798)	1993 10 15.27552	01 41 03.23	+14 46 24.8		691
1993 VC	1993 11 08.17123	01 55 59.66	+16 33 11.6	19.8 V	691	(3798)	1993 10 15.31541	01 41 00.61	+14 46 12.1		691
1993 VC	1993 11 08.21176	01 56 01.50	+16 32 58.2	19.5 V	691	(3910)	1993 10 10.16252	01 27 10.57	+13 53 35.7		691
1993 VC	1993 11 09.21902	01 56 56.19	+16 27 18.2	19.8 V	691	(3910)	1993 10 10.18133	01 27 09.50	+13 53 33.2		691
1993 VC	1993 11 09.22763	01 56 56.56	+16 27 15.1	19.7 V	691	(3910)	1993 10 10.20024	01 27 08.43	+13 53 30.4	16.0 V	691
1993 VC	1993 11 09.23596	01 56 56.95	+16 27 12.6	19.3 V	691	(4449)	1993 10 12.44940	02 49 09.09	+23 14 58.8	16.1 V	691
1993 VC	1993 11 09.37623	01 57 03.47	+16 26 23.0	19.6 V	691	(4449)	1993 10 12.47379	02 49 08.10	+23 14 56.4		691
1993 VC	1993 11 09.38453	01 57 03.87	+16 26 20.5	19.6 V	691	(4449)	1993 10 12.49781	02 49 07.13	+23 14 53.4		691
1993 VC	1993 11 09.39265	01 57 04.26	+16 26 17.0	19.7 V	691	(4787)	1993 10 09.45469	02 46 04.55	+22 32 49.1	16.0 V	691
1993 VC	1993 11 10.29561	01 57 56.23	+16 21 12.4	19.5 V	691	(4787)	1993 10 09.47477	02 46 03.60	+22 32 50.3		691
1993 VC	1993 11 10.30370	01 57 56.62	+16 21 09.7	19.7 V	691	(4787)	1993 10 09.49449	02 46 02.68	+22 32 51.5		691
1993 VC	1993 11 10.31180	01 57 57.00	+16 21 06.7	19.4 V	691	(5214)	1993 10 09.33857	01 58 01.62	+15 31 10.1	16.3 V	691
1993 VC	1993 11 17.26528	02 05 32.24	+15 42 48.3	691	(5214)	1993 10 09.38234	01 57 58.70	+15 31 04.8		691	
1993 VC	1993 11 17.27365	02 05 32.78	+15 42 45.5	691	(5214)	1993 10 09.42663	01 57 55.77	+15 30 59.2		691	
1993 VC	1993 11 17.28115	02 05 33.25	+15 42 43.0	691	(5316)	1993 10 13.39825	02 41 02.01	+21 11 28.3		691	
1993 VD	* 1993 11 09.42952	03 42 24.56	+28 19 20.1	19.8 V	691	(5316)	1993 10 13.44056	02 41 00.38	+21 11 13.1	15.5 V	691
1993 VD	1993 11 09.47037	03 42 03.89	+28 18 06.5	19.8 V	691	(5316)	1993 10 13.48273	02 40 58.74	+21 10 58.1		691
1993 VD	1993 11 09.50665	03 41 45.68	+28 17 03.5	20.0 V	691	(5716)	1993 10 08.18230	01 23 45.20	+13 03 40.1	15.5 V	691
1993 VD	1993 11 10.23061	03 35 59.04	+27 56 42.4	20.1 V	691	(5716)	1993 10 08.22546	01 23 42.97	+13 03 26.3		691
1993 VD	1993 11 10.24341	03 35 52.80	+27 56 21.6	20.1 V	691	(5716)	1993 10 08.27753	01 23 40.26	+13 03 09.6		691

(5716)	1993 10 13.16588	01 19 34.30	+12 35 05.5	15.1 V	691	1971 OV	1993 11 16.24214	04 07 41.16	+14 26 41.5	801
(5716)	1993 10 13.24709	01 19 29.93	+12 34 36.7		691	1971 OV	1993 11 16.25545	04 07 40.22	+14 26 37.1	801
(5716)	1993 10 13.29808	01 19 27.16	+12 34 18.1		691	1971 OV	1993 11 17.25238	04 06 32.10	+14 21 14.3	801
693 University of Arizona, Catalina Station						1971 OV	1993 11 17.27038	04 06 30.81	+14 21 08.3	801
C. Hergenrother, Lunar and Planetary Laboratory, University of Arizona, Tucson, AZ 85721, U.S.A.						1971 UK	1993 11 11.19772	03 20 13.65	+16 58 43.4	801
Observers C. Hergenrother, Y. Shirley						1971 UK	1993 11 11.21280	03 20 12.69	+16 58 37.1	801
Measurer C. Hergenrother						1971 UK	1993 11 16.18678	03 15 12.70	+16 23 33.2	W 801
0.4-m $f/3$ Schmidt						1971 UK	1993 11 16.20826	03 15 11.36	+16 23 23.8	801
1993 SU ₂	1993 10 24.34398	23 56 10.17	+24 36 15.0		693	1973 SF ₆	1993 11 13.21102	03 35 03.06	+09 47 19.7	801
1993 SU ₂	1993 10 24.36640	23 56 09.26	+24 36 04.1		693	1973 SF ₆	1993 11 13.22383	03 35 02.18	+09 47 15.1	801
786 U.S. Naval Observatory						1973 SF ₆	1993 11 16.22150	03 31 48.22	+09 29 39.5	801
J. A. DeYoung, U.S. Naval Observatory, 3450 Massachusetts Avenue NW, Washington, DC 20392-5420, U.S.A.						1973 SF ₆	1993 11 16.23384	03 31 47.40	+09 29 35.4	801
0.61-m reflector + CCD						1974 SJ ₃	1993 11 13.31961	04 04 25.29	+43 03 23.9	801
GSC						1974 SJ ₃	1993 11 13.33206	04 04 24.35	+43 03 26.2	801
1993 RR	1993 11 08.08994	01 23 48.50	+19 27 58.4		786	1974 SJ ₃	1993 11 17.25010	03 59 37.48	+43 14 41.0	801
1993 RR	1993 11 08.10867	01 23 47.78	+19 28 01.7		786	1974 SJ ₃	1993 11 17.26828	03 59 36.08	+43 14 43.3	801
1993 RR	1993 11 08.11155	01 23 47.67	+19 28 02.3		786	1975 TK ₆	1993 11 11.30851	06 06 49.48	+22 51 07.4	801
1993 RR	1993 11 08.11693	01 23 47.45	+19 28 03.2		786	1975 TK ₆	1993 11 11.33182	06 06 48.76	+22 51 13.5	801
1993 RR	1993 11 09.13750	01 23 13.48	+19 30 59.7		786	1975 TK ₆	1993 11 17.40774	06 03 16.81	+23 19 10.9	801
1993 RR	1993 11 09.13911	01 23 13.42	+19 31 00.0		786	1976 QZ ₁	1993 11 10.99198	23 02 35.29	-14 31 22.1	801
1993 RR	1993 11 09.14030	01 23 13.36	+19 31 00.2		786	1976 QZ ₁	1993 11 11.00866	23 02 35.78	-14 31 12.8	801
1993 RR	1993 11 09.14144	01 23 13.33	+19 31 00.4		786	1976 QZ ₁	1993 11 13.00147	23 03 40.76	-14 13 44.5	801
1993 RR	1993 11 09.14263	01 23 13.28	+19 31 00.6		786	1976 QZ ₁	1993 11 13.01777	23 03 41.28	-14 13 36.0	801
1993 RR	1993 11 09.14377	01 23 13.24	+19 31 00.8		786	1978 ON	1993 11 11.34726	07 58 15.95	+24 42 01.2	801
1993 UB	1993 11 08.07657	00 10 00.98	+12 54 09.6		786	1978 ON	1993 11 11.39167	07 58 16.73	+24 42 03.6	801
1993 UB	1993 11 08.07711	00 10 00.91	+12 54 12.0		786	1978 PD ₃	1993 11 12.27324	05 30 55.46	+33 33 00.5	801
1993 UB	1993 11 08.07787	00 10 00.79	+12 54 15.5		786	1978 PD ₃	1993 11 12.30028	05 30 54.28	+33 33 04.9	801
1993 UB	1993 11 09.13084	00 07 47.00	+14 15 39.5		786	1978 PD ₃	1993 11 17.35358	05 26 55.60	+33 39 51.6	801
1993 UB	1993 11 09.13229	00 07 46.82	+14 15 46.1		786	1978 PD ₃	1993 11 17.36947	05 26 54.78	+33 39 53.5	801
1993 UB	1993 11 09.13274	00 07 46.76	+14 15 48.1		786	1978 UA ₇	1993 11 16.14230	02 05 58.77	+16 59 38.6	801
801 Oak Ridge						1978 UA ₇	1993 11 16.15693	02 05 57.95	+16 59 36.3	801
R. E. McCrosky, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A.						1978 UA ₇	1993 11 17.13900	02 05 04.28	+16 56 57.2	801
Observers R. E. McCrosky, C.-Y. Shao						1978 UA ₇	1993 11 17.15411	02 05 03.49	+16 56 55.8	801
1.5-m reflector + CCD						1978 VL ₁₁	1993 11 12.21529	05 04 41.26	+21 40 35.7	I 801
GSC						1978 VL ₁₁	1993 11 12.22797	05 04 40.55	+21 40 35.2	I 801
1930 UX	1993 11 10.28501	05 06 48.54	+32 11 20.7		801	1978 VL ₁₁	1993 11 17.30450	05 00 14.36	+21 42 35.1	801
1930 UX	1993 11 10.32473	05 06 46.83	+32 11 24.7		801	1979 QT ₈	1993 11 11.23354	04 11 05.91	+25 47 27.9	801
1930 UX	1993 11 17.28715	05 01 12.27	+32 19 57.8		801	1979 QT ₈	1993 11 11.24628	04 11 05.04	+25 47 26.1	801
1930 UX	1993 11 17.30724	05 01 11.09	+32 19 58.3		801	1979 QT ₈	1993 11 13.25953	04 08 49.99	+25 43 20.7	801
1934 GA	1993 11 12.27008	05 29 26.18	+24 15 07.3		801	1979 QT ₈	1993 11 13.27343	04 08 49.03	+25 43 18.4	801
1934 GA	1993 11 12.28689	05 29 25.39	+24 15 18.1		801	1980 BJ ₄	1993 11 11.24436	04 22 56.29	+21 49 53.6	801
1934 GA	1993 11 17.35069	05 25 18.70	+25 09 31.1		801	1980 BJ ₄	1993 11 11.27176	04 22 54.87	+21 49 51.8	801
1934 GA	1993 11 17.36429	05 25 17.93	+25 09 40.0		801	1980 BJ ₄	1993 11 13.28863	04 21 12.05	+21 47 48.7	801
1949 PN	1993 11 16.00671	23 26 43.58	+11 11 37.5		801	1980 BJ ₄	1993 11 13.30619	04 21 11.16	+21 47 47.7	801
1949 PN	1993 11 16.04541	23 26 44.30	+11 11 37.8		801	1980 PB ₃	1993 11 17.09378	01 43 24.03	-01 49 48.4	801
1957 JP	1993 11 10.36316	05 43 42.03	+30 11 19.8		801	1980 PB ₃	1993 11 17.11971	01 43 23.00	-01 49 45.6	801
1957 JP	1993 11 10.38306	05 43 41.26	+30 11 25.6		801	1980 RU	1993 11 13.32984	05 20 37.54	+47 40 07.7	801
						1980 RU	1993 11 13.34436	05 20 36.71	+47 40 12.5	801
						1980 RG ₁	1993 11 16.17172	02 28 46.72	+16 42 43.5	801
						1980 RG ₁	1993 11 17.16810	02 28 26.44	+16 34 16.4	801
						1980 RG ₁	1993 11 17.19503	02 28 25.82	+16 34 02.5	801
						1980 RL ₇	1993 11 10.37262	06 46 31.86	+19 54 21.0	801

1980 RL ₇	1993 11 10.41174	06 46 31.62	+19 54 08.1	801	1984 SG ₁	1993 11 12.96404	21 43 37.24	-10 19 36.1	W 801
1980 RL ₇	1993 11 13.36594	06 46 11.94	+19 40 56.5	801	1984 SG ₁	1993 11 12.98670	21 43 38.44	-10 19 31.3	801
1980 RL ₇	1993 11 13.39330	06 46 11.56	+19 40 49.1	801	1984 SG ₁	1993 11 16.97678	21 47 14.54	-10 03 18.0	801
1981 EA ₉	1993 11 12.98177	22 28 57.32	-03 04 25.3	801	1984 SG ₁	1993 11 16.99017	21 47 15.25	-10 03 15.1	801
1981 EA ₉	1993 11 12.99510	22 28 58.25	-03 04 18.6	801	1984 UT	1993 11 11.02037	23 20 24.76	+11 22 25.1	801
1981 ED ₂₁	1993 11 16.08587	01 21 13.60	+24 45 31.9	801	1984 UT	1993 11 11.03866	23 20 25.06	+11 22 14.7	801
1981 ED ₂₁	1993 11 16.10854	01 21 12.64	+24 45 28.9	801	1984 UT	1993 11 13.00523	23 21 03.14	+11 03 59.4	801
1981 ED ₂₁	1993 11 17.07925	01 20 35.48	+24 43 30.4	801	1984 UT	1993 11 13.02480	23 21 03.52	+11 03 48.6	801
1981 ED ₂₁	1993 11 17.09877	01 20 34.70	+24 43 28.0	801	1985 CS ₁	1993 11 11.11465	01 03 41.65	+02 09 33.0	801
1981 EG ₂₈	1993 11 11.11203	00 52 42.50	+02 54 55.7	I 801	1985 CS ₁	1993 11 11.13671	01 03 40.89	+02 09 28.0	801
1981 EG ₂₈	1993 11 16.06117	00 51 48.99	+02 39 20.8	I 801	1985 CS ₁	1993 11 16.07615	01 01 15.14	+01 53 53.0	801
1981 EG ₂₈	1993 11 16.13098	00 51 48.39	+02 39 10.0	801	1985 CS ₁	1993 11 16.10287	01 01 14.62	+01 53 49.8	801
1981 SE	1993 11 11.20005	03 24 49.93	+16 03 55.8	801	1985 PG ₂	1993 11 11.23646	04 12 26.92	+20 21 44.5	801
1981 SE	1993 11 11.21780	03 24 48.83	+16 03 51.1	801	1985 PG ₂	1993 11 11.25531	04 12 25.83	+20 21 45.0	801
1981 SE	1993 11 17.19788	03 18 48.53	+15 39 28.4	801	1985 PG ₂	1993 11 13.27119	04 10 29.95	+20 22 26.7	801
1981 SE	1993 11 17.20966	03 18 47.79	+15 39 25.8	801	1985 PG ₂	1993 11 13.28485	04 10 29.11	+20 22 26.8	801
1981 SC ₇	1993 11 13.03186	23 53 58.50	-05 50 54.4	801	1985 QX ₄	1993 11 11.03566	00 04 11.57	-02 41 47.6	801
1981 SC ₇	1993 11 16.05809	23 54 50.98	-05 19 35.1	801	1985 QX ₄	1993 11 11.09948	00 04 10.98	-02 41 54.6	801
1981 SC ₇	1993 11 16.07097	23 54 51.20	-05 19 26.6	801	1985 RL ₁	1993 11 10.28115	04 55 52.84	+14 26 31.5	801
1981 SC ₇	1993 11 17.02598	23 55 11.83	-05 09 18.4	r 801	1985 RL ₁	1993 11 10.32157	04 55 50.87	+14 26 14.6	801
1981 SC ₇	1993 11 17.04083	23 55 12.11	-05 09 08.6	r 801	1985 RL ₁	1993 11 17.28330	04 49 47.49	+13 38 23.4	801
1981 XM ₂	1993 11 11.99177	23 25 33.66	+11 15 19.0	801	1985 RL ₁	1993 11 17.30094	04 49 46.47	+13 38 16.1	801
1981 XM ₂	1993 11 12.03399	23 25 34.15	+11 15 03.7	801	1986 AH	1993 11 11.36156	08 34 17.21	+02 20 12.1	801
1982 BS	1993 11 11.20194	03 27 17.73	+39 56 59.1	801	1986 AH	1993 11 11.37532	08 34 18.06	+02 20 12.5	801
1982 BS	1993 11 11.21991	03 27 16.54	+39 56 53.3	801	1986 AG ₁	1993 11 13.32215	04 29 54.81	+56 45 18.9	801
1982 BS	1993 11 17.22650	03 20 53.78	+39 19 37.8	801	1986 AG ₁	1993 11 13.33406	04 29 53.63	+56 45 17.1	801
1982 BE ₁	1993 11 13.36858	06 56 45.59	+14 57 27.8	801	1986 GU	1993 11 13.35082	06 30 21.75	+19 45 17.7	801
1982 BE ₁	1993 11 13.42054	06 56 46.04	+14 57 25.4	801	1986 GU	1993 11 13.36360	06 30 21.59	+19 45 28.6	801
1982 JE ₁	1993 11 17.09674	01 47 47.67	+05 16 11.8	801	1986 GU	1993 11 17.40013	06 29 11.07	+20 47 02.5	801
1982 JE ₁	1993 11 17.12227	01 47 46.69	+05 16 15.8	801	1986 GU	1993 11 17.41269	06 29 10.68	+20 47 14.0	801
1982 QK ₃	1993 11 16.13566	01 57 50.96	+16 53 02.4	801	1986 GU	1993 11 17.42190	06 29 10.56	+20 47 23.4	801
1982 QK ₃	1993 11 16.15302	01 57 50.20	+16 52 57.7	801	1986 GU	1993 11 17.43030	06 29 10.37	+20 47 31.3	801
1982 QK ₃	1993 11 17.13209	01 57 10.84	+16 48 34.9	801	1986 RK	1993 11 11.05164	00 28 26.45	+09 49 56.8	801
1982 QK ₃	1993 11 17.14848	01 57 10.14	+16 48 30.5	801	1986 RK	1993 11 11.07693	00 28 26.43	+09 49 45.5	801
1982 UJ ₇	1993 10 14.33009	05 20 30.53	+20 32 15.4	801	1986 RK	1993 11 13.11091	00 28 34.01	+09 35 07.3	801
1982 UJ ₇	1993 10 14.38553	05 20 31.15	+20 32 15.8	801	1986 RK	1993 11 13.13477	00 28 34.10	+09 34 57.1	801
1982 UJ ₇	1993 11 11.26247	05 16 02.58	+20 24 06.5	801	1986 RS ₁	1993 11 11.11812	01 23 03.03	-00 35 33.2	801
1982 UJ ₇	1993 11 11.28686	05 16 01.69	+20 24 05.9	801	1986 RS ₁	1993 11 11.14728	01 23 02.25	-00 35 36.9	801
1982 UJ ₇	1993 11 17.31306	05 12 18.94	+20 21 12.5	801	1986 RS ₁	1993 11 13.12931	01 22 17.52	-00 39 15.6	801
1982 UJ ₇	1993 11 17.33502	05 12 18.00	+20 21 11.9	801	1986 RS ₁	1993 11 13.15318	01 22 16.96	-00 39 17.9	801
1984 DY	1993 11 11.20564	03 27 21.51	+19 43 08.7	801	1986 RV ₂	1993 11 11.12250	01 29 11.45	+05 50 03.3	801
1984 DY	1993 11 11.22250	03 27 20.62	+19 43 05.9	801	1986 RV ₂	1993 11 11.14024	01 29 10.75	+05 49 58.3	801
1984 DY	1993 11 17.20012	03 22 12.82	+19 25 22.1	801	1986 RV ₂	1993 11 13.13823	01 27 57.85	+05 40 36.2	801
1984 DY	1993 11 17.21382	03 22 12.09	+19 25 19.5	801	1986 RV ₂	1993 11 13.16100	01 27 57.00	+05 40 30.0	801
1984 EY	1993 11 13.21744	03 43 08.14	+24 31 24.7	801	1986 RB ₅	1993 11 16.17494	02 23 17.94	+03 13 15.8	801
1984 EY	1993 11 13.23591	03 43 06.83	+24 31 24.2	801	1986 RB ₅	1993 11 16.20400	02 23 16.43	+03 13 14.6	801
1984 EY	1993 11 16.22628	03 39 40.81	+24 29 04.4	801	1986 RB ₅	1993 11 17.15946	02 22 29.51	+03 12 45.0	801
1984 EY	1993 11 16.23780	03 39 39.98	+24 29 03.7	801	1986 RB ₅	1993 11 17.17591	02 22 28.67	+03 12 44.5	801
1984 HL ₁	1993 11 11.39966	09 11 19.61	+19 15 49.7	801	1987 PL	1993 11 11.23184	04 05 52.13	+31 47 58.1	801
1984 HL ₁	1993 11 16.42102	09 18 28.67	+18 50 46.0	801	1987 PL	1993 11 11.24804	04 05 51.24	+31 47 55.3	801
1984 HL ₁	1993 11 16.43451	09 18 29.76	+18 50 42.0	801	1987 PL	1993 11 13.24943	04 04 01.73	+31 42 14.7	801
1984 KB	1993 10 14.13270	23 57 42.97	-03 19 29.6	W 801	1987 PL	1993 11 13.26439	04 04 00.87	+31 42 12.0	801

1987 QV ₁₀	1993 10 19.35112	05 36 06.83	+09 32 42.7	801	1989 CJ ₁	1993 11 11.36963	08 10 01.96	-08 17 21.1	801
1987 QV ₁₀	1993 10 19.40159	05 36 06.70	+09 32 32.1	801	1989 CE ₂	1993 11 11.40179	09 35 09.53	+31 12 57.6	801
1987 QV ₁₀	1993 11 11.27539	05 29 58.27	+08 20 49.8	801	1989 CE ₂	1993 11 11.41917	09 35 10.88	+31 12 49.5	801
1987 QV ₁₀	1993 11 11.29693	05 29 57.54	+08 20 46.6	801	1989 JF	1993 11 11.16975	02 31 04.81	+20 30 33.4	801
1987 QV ₁₀	1993 11 17.34834	05 26 17.40	+08 06 44.6	801	1989 JF	1993 11 11.18014	02 31 04.11	+20 30 30.7	801
1987 QV ₁₀	1993 11 17.36637	05 26 16.66	+08 06 42.4	801	1989 JF	1993 11 17.17380	02 24 36.39	+20 04 16.5	801
1987 RG	1993 11 13.27655	04 15 24.48	+16 41 24.8	801	1989 JF	1993 11 17.19280	02 24 35.18	+20 04 11.5	801
1987 RG	1993 11 13.29182	04 15 23.69	+16 41 22.8	801	1989 NR	1993 11 11.29240	05 43 07.61	+37 03 59.1	801
1987 RG	1993 11 16.24729	04 12 53.75	+16 35 31.8	801	1989 NR	1993 11 11.31238	05 43 06.80	+37 04 01.0	801
1987 RG	1993 11 16.39487	04 12 45.98	+16 35 13.6	801	1989 NR	1993 11 17.35772	05 38 17.61	+37 10 37.8	801
1987 RC ₁	1993 11 11.02360	23 38 20.57	-03 08 46.8	801	1989 RD ₂	1993 11 13.18536	03 30 46.62	+14 05 52.9	801
1987 RC ₁	1993 11 11.10649	23 38 20.48	-03 08 43.9	801	1989 RD ₂	1993 11 13.19950	03 30 45.67	+14 05 49.1	801
1987 RC ₁	1993 11 13.00885	23 38 23.03	-03 07 25.8	w 801	1989 RD ₂	1993 11 17.21988	03 26 29.26	+13 48 36.7	801
1987 RC ₁	1993 11 13.08719	23 38 23.12	-03 07 22.2	801	1989 RD ₂	1993 11 17.23046	03 26 28.58	+13 48 34.0	801
1987 ST ₁	1993 11 12.27575	05 34 02.60	+31 02 58.8	801	1989 SE	1993 11 11.98866	23 05 47.72	-04 16 16.9	801
1987 ST ₁	1993 11 12.30954	05 34 01.41	+31 02 56.0	801	1989 SE	1993 11 12.00299	23 05 48.43	-04 16 07.4	801
1987 ST ₁	1993 11 17.35539	05 30 50.83	+30 55 00.3	801	1989 TT ₁	1993 11 11.26642	05 18 22.57	+19 40 39.9	801
1987 ST ₁	1993 11 17.37395	05 30 50.02	+30 54 58.2	801	1989 TT ₁	1993 11 11.28486	05 18 21.88	+19 40 35.0	801
1987 SV ₁₂	1993 11 11.19542	03 11 48.89	+16 03 59.2	801	1989 TT ₁	1993 11 17.31675	05 14 19.52	+19 13 46.2	801
1987 SV ₁₂	1993 11 11.21587	03 11 47.79	+16 03 56.1	801	1989 TT ₁	1993 11 17.33852	05 14 18.54	+19 13 40.3	801
1987 SS ₁₇	1993 11 13.21486	03 43 46.62	+28 35 04.1	801	1989 TX ₁₅	1993 11 13.35521	06 32 59.84	+31 07 06.4	801
1987 SS ₁₇	1993 11 13.23225	03 43 45.62	+28 35 02.4	801	1989 TX ₁₅	1993 11 13.38494	06 32 59.50	+31 07 13.6	801
1987 SS ₁₇	1993 11 13.31124	03 43 41.06	+28 34 55.7	801	1989 TX ₁₅	1993 11 17.41604	06 32 00.64	+31 24 57.1	801
1987 SS ₁₇	1993 11 13.33676	03 43 39.61	+28 34 53.6	801	1989 TX ₁₅	1993 11 17.43204	06 32 00.25	+31 25 01.2	801
1987 VA ₁	1993 11 11.36459	08 37 35.54	+34 29 21.7	801	1989 UT ₂	1993 11 11.06704	00 36 36.23	+10 30 55.6	801
1987 VA ₁	1993 11 11.38935	08 37 36.36	+34 29 27.7	801	1989 UT ₂	1993 11 11.08800	00 36 35.86	+10 30 45.2	801
1987 VA ₁	1993 11 16.38632	08 40 11.92	+34 50 35.7	801	1989 UT ₂	1993 11 17.03792	00 35 28.41	+09 45 29.5	801
1987 VA ₁	1993 11 16.41236	08 40 12.62	+34 50 42.7	801	1989 UT ₂	1993 11 17.05969	00 35 28.24	+09 45 20.2	801
1988 KC	1993 11 10.27881	04 49 24.13	+18 02 52.7	801	1989 UG ₃	1993 11 11.02631	23 46 01.12	-09 03 20.9	801
1988 KC	1993 11 10.31294	04 49 22.24	+18 02 39.5	801	1989 UG ₃	1993 11 11.06126	23 46 01.30	-09 03 12.1	801
1988 KC	1993 11 17.28142	04 42 42.96	+17 18 20.2	801	1989 UG ₃	1993 11 17.02122	23 47 11.41	-08 33 59.5	801
1988 KC	1993 11 17.29791	04 42 41.93	+17 18 13.7	801	1989 UG ₃	1993 11 17.04366	23 47 11.77	-08 33 52.5	801
1988 PJ ₁	1993 11 12.21884	04 50 12.85	+43 06 18.3	801	1989 UZ ₄	1993 11 13.14944	01 52 36.23	+01 53 26.9	801
1988 PJ ₁	1993 11 12.24135	04 50 11.43	+43 06 18.5	801	1989 UZ ₄	1993 11 13.17692	01 52 35.08	+01 53 21.7	801
1988 PJ ₁	1993 11 13.34067	04 49 02.69	+43 06 49.5	I 801	1989 UZ ₄	1993 11 17.10125	01 50 09.81	+01 42 58.7	801
1988 RE	1993 10 13.28699	03 37 17.11	+01 26 03.0	801	1989 UZ ₄	1993 11 17.12397	01 50 08.96	+01 42 55.5	801
1988 RE	1993 10 13.29641	03 37 16.60	+01 25 39.5	801	1989 VV	1993 11 12.26149	05 22 47.61	+22 16 55.6	801
1988 TQ ₄	1993 11 13.30074	06 06 31.60	+21 54 14.2	801	1989 VV	1993 11 12.28138	05 22 46.77	+22 16 56.0	801
1988 TQ ₄	1993 11 13.34912	06 06 30.33	+21 54 14.0	801	1989 VV	1993 11 17.32719	05 19 01.33	+22 17 01.7	801
1988 XU ₁	1993 11 11.25807	04 33 30.70	+15 52 29.4	801	1989 VV	1993 11 17.34539	05 19 00.40	+22 17 01.0	801
1988 XU ₁	1993 11 11.27332	04 33 29.96	+15 52 29.4	801	1989 WD	1993 11 11.35543	08 19 34.46	+25 10 51.1	801
1988 XU ₁	1993 11 16.26144	04 29 24.42	+15 53 31.2	801	1989 WD	1993 11 11.37858	08 19 35.47	+25 10 54.0	801
1988 XU ₁	1993 11 16.35656	04 29 19.51	+15 53 32.1	801	1989 WD	1993 11 16.40338	08 22 59.85	+25 23 20.4	801
1988 XW ₁	1993 11 13.18058	03 25 54.63	+13 25 20.7	801	1989 WD	1993 11 16.42310	08 23 00.53	+25 23 23.7	801
1988 XW ₁	1993 11 13.19575	03 25 53.74	+13 25 21.0	801	1989 XF	1993 11 10.27693	04 37 05.77	+09 22 25.6	801
1988 XW ₁	1993 11 17.21535	03 22 07.08	+13 27 18.4	801	1989 XF	1993 11 10.31896	04 37 03.57	+09 22 23.8	801
1988 XW ₁	1993 11 17.22832	03 22 06.33	+13 27 18.7	801	1989 XF	1993 11 17.27398	04 30 45.17	+09 20 28.3	801
1989 AH	1993 11 12.25148	04 41 32.09	+02 23 21.0	801	1989 XF	1993 11 17.29168	04 30 44.11	+09 20 28.5	801
1989 AH	1993 11 12.26522	04 41 31.43	+02 23 21.9	801	1989 YH	1993 11 16.14869	02 09 08.11	+27 27 17.6	801
1989 AH	1993 11 17.27870	04 37 28.18	+02 28 48.4	801	1989 YH	1993 11 16.16927	02 09 07.10	+27 27 10.3	801
1989 AH	1993 11 17.29566	04 37 27.32	+02 28 49.8	801	1989 YH	1993 11 17.15611	02 08 22.56	+27 20 51.5	w 801
1989 CJ ₁	1993 11 11.35287	08 10 01.30	-08 17 15.6	801	1989 YH	1993 11 17.17168	02 08 21.84	+27 20 44.8	w 801

1989 YF ₅	1993 11 11.26502	05 16 00.50	+34 24 18.8	801	1991 AF	1993 11 11.04741	00 22 53.59	+09 12 27.1	801
1989 YF ₅	1993 11 11.28302	05 15 59.59	+34 24 15.7	801	1991 AF	1993 11 11.07432	00 22 53.24	+09 12 17.2	801
1989 YF ₅	1993 11 17.31484	05 10 37.16	+34 04 00.6	801	1991 AF	1993 11 17.03381	00 22 25.56	+08 39 32.2	801
1989 YF ₅	1993 11 17.33716	05 10 35.82	+34 03 55.2	801	1991 AF	1993 11 17.06381	00 22 25.53	+08 39 23.6	801
1990 BX	1993 11 16.25319	04 29 04.58	+12 30 42.1	801	1991 BJ	1993 11 16.13756	01 59 29.07	+09 24 51.4	801
1990 BX	1993 11 16.34912	04 28 59.47	+12 30 32.5	801	1991 BJ	1993 11 16.15492	01 59 28.18	+09 24 50.1	801
1990 BX	1993 11 17.27245	04 28 11.34	+12 29 00.4	801	1991 CN	1993 11 11.25999	05 10 34.01	+28 58 57.3	801
1990 BX	1993 11 17.29035	04 28 10.34	+12 28 58.6	801	1991 CN	1993 11 11.27742	05 10 33.18	+28 58 59.0	801
1990 BC ₁	1993 11 11.05424	00 31 43.48	-08 55 08.7	801	1991 CN	1993 11 17.31058	05 05 23.25	+29 07 07.1	801
1990 BC ₁	1993 11 11.10284	00 31 42.57	-08 55 10.3	801	1991 CN	1993 11 17.33182	05 05 22.02	+29 07 07.9	801
1990 BC ₁	1993 11 13.15716	00 31 09.89	-08 56 07.8	801	1991 CO	1993 11 11.29457	05 50 49.40	+30 31 15.9	I 801
1990 BG ₁	1993 11 16.14512	02 07 53.89	+07 19 19.7	801	1991 CO	1993 11 11.32182	05 50 48.58	+30 31 17.3	I 801
1990 BG ₁	1993 11 16.16459	02 07 52.97	+07 19 17.7	801	1991 CO	1993 11 17.35973	05 47 11.26	+30 31 46.9	801
1990 BZ ₁	1993 11 11.31441	06 16 05.70	+21 05 43.0	801	1991 CO	1993 11 17.37601	05 47 10.55	+30 31 46.9	801
1990 BZ ₁	1993 11 11.37203	06 16 05.21	+21 05 36.0	801	1991 DO	1993 11 17.02931	00 13 06.03	+10 15 32.9	801
1990 BZ ₁	1993 11 17.42486	06 14 46.16	+20 53 42.6	801	1991 DO	1993 11 17.07030	00 13 05.48	+10 15 27.5	801
1990 BN ₂	1993 11 11.30321	05 51 26.66	+16 33 44.2	801	1991 EG	1993 11 13.25120	04 03 41.71	+22 19 57.8	801
1990 BN ₂	1993 11 11.32771	05 51 26.10	+16 33 49.1	801	1991 EG	1993 11 13.26653	04 03 40.66	+22 19 58.2	801
1990 DB	1993 11 13.26189	04 10 29.90	+17 35 54.2	801	1991 EG	1993 11 17.24806	03 59 12.83	+22 23 19.6	801
1990 DB	1993 11 13.27935	04 10 29.05	+17 35 51.9	801	1991 EG	1993 11 17.26644	03 59 11.51	+22 23 20.0	801
1990 DB	1993 11 16.23985	04 08 06.71	+17 28 37.2	I 801	1991 FU	1993 11 11.04301	00 09 09.66	+20 17 21.6	801
1990 DB	1993 11 16.25800	04 08 05.78	+17 28 35.7	801	1991 FU	1993 11 11.06409	00 09 09.19	+20 17 12.8	801
1990 EJ ₂	1993 11 11.13069	01 43 31.08	+14 56 39.1	801	1991 FU	1993 11 13.10441	00 08 29.46	+20 05 02.9	801
1990 EJ ₂	1993 11 11.15900	01 43 30.07	+14 56 28.1	801	1991 FU	1993 11 13.13279	00 08 28.93	+20 04 52.6	801
1990 EJ ₂	1993 11 17.09189	01 40 23.24	+14 19 54.4	801	1991 FJ ₁	1993 11 13.05391	00 05 29.27	+01 21 11.0	801
1990 EJ ₂	1993 11 17.11755	01 40 22.46	+14 19 45.1	801	1991 FJ ₁	1993 11 13.08425	00 05 29.04	+01 21 01.5	801
1990 FR	1993 11 11.39700	09 04 25.93	+14 08 17.5	801	1991 FJ ₁	1993 11 16.04980	00 05 17.99	+01 06 37.5	801
1990 FR	1993 11 11.41384	09 04 27.34	+14 08 16.1	801	1991 FJ ₁	1993 11 16.07934	00 05 17.98	+01 06 29.9	801
1990 HM ₁	1993 11 13.18262	03 26 26.86	+11 34 00.2	801	1991 GQ ₁	1993 11 11.29983	05 53 38.21	+20 03 50.6	801
1990 HM ₁	1993 11 13.19729	03 26 26.07	+11 33 59.7	801	1991 GQ ₁	1993 11 11.32354	05 53 37.43	+20 03 53.7	801
1990 HM ₁	1993 11 17.21778	03 22 53.47	+11 32 16.0	801	1991 JG	1993 11 12.20944	04 16 36.31	+20 11 00.6	801
1990 HM ₁	1993 11 17.23271	03 22 52.66	+11 32 15.6	801	1991 JG	1993 11 12.22297	04 16 35.50	+20 11 01.6	801
1990 SO ₄	1993 11 12.94046	19 57 12.94	-17 20 14.3	801	1991 JG	1993 11 13.28157	04 15 34.99	+20 11 56.8	801
1990 SO ₄	1993 11 12.95135	19 57 14.29	-17 20 09.7	801	1991 JG	1993 11 13.29481	04 15 34.24	+20 11 58.0	801
1990 UR ₁	1993 11 11.39488	08 40 35.18	-01 06 27.3	801	1991 LE ₁	1993 11 11.42358	10 29 19.89	+20 22 14.6	801
1990 UR ₁	1993 11 11.41108	08 40 36.06	-01 06 46.9	801	1991 LE ₁	1993 11 11.43089	10 29 20.39	+20 22 15.8	801
1990 UR ₁	1993 11 16.41523	08 44 56.70	-02 48 52.5	801	1991 PQ	1993 11 13.37139	06 58 54.67	+38 42 44.3	801
1990 UR ₁	1993 11 16.42519	08 44 57.16	-02 49 04.7	801	1991 PQ	1993 11 13.42265	06 58 53.85	+38 42 47.8	801
1990 VF ₃	1993 11 11.02985	23 58 15.83	-07 57 02.3	801	1992 FA ₁	1993 11 13.14668	01 36 14.21	+13 20 14.4	801
1990 VF ₃	1993 11 11.05706	23 58 16.14	-07 56 53.8	801	1992 FA ₁	1993 11 13.16890	01 36 13.33	+13 20 05.8	801
1990 VF ₃	1993 11 13.03574	23 58 47.19	-07 46 08.1	801	1992 FA ₁	1993 11 16.08789	01 34 15.12	+13 01 18.5	801
1990 VF ₃	1993 11 13.05623	23 58 47.45	-07 46 01.1	801	1992 FA ₁	1993 11 16.10596	01 34 14.39	+13 01 11.8	801
1990 VB ₁₅	1993 11 11.99943	23 39 50.17	-08 40 23.8	801	1992 KE	1993 11 11.19258	02 58 44.03	+05 44 43.0	801
1990 VB ₁₅	1993 11 12.02242	23 39 50.70	-08 40 16.5	801	1992 KE	1993 11 11.20933	02 58 43.00	+05 44 40.9	801
1990 VB ₁₅	1993 11 17.00058	23 42 16.05	-08 09 27.6	801	1992 KE	1993 11 16.18184	02 53 50.32	+05 35 44.5	801
1990 VB ₁₅	1993 11 17.01806	23 42 16.59	-08 09 20.6	801	1992 KE	1993 11 16.20609	02 53 48.90	+05 35 42.4	801
1990 XF	1993 11 10.96777	22 22 43.50	+02 34 40.7	801	1992 LP	1993 11 13.36135	06 41 37.43	+21 23 40.3	801
1990 XF	1993 11 11.01199	22 22 44.18	+02 34 37.4	801	1992 LP	1993 11 13.40875	06 41 36.56	+21 23 42.9	801
1990 YK	1993 11 11.17334	02 36 03.86	+11 49 57.1	801	1992 NJ	1993 11 16.08277	01 17 45.45	+11 37 06.8	801
1990 YK	1993 11 11.19024	02 36 02.77	+11 49 51.4	801	1992 NJ	1993 11 16.09898	01 17 44.72	+11 37 08.8	801
1990 YK	1993 11 16.17994	02 31 00.35	+11 22 54.2	r 801	1992 NJ	1993 11 17.05655	01 17 04.45	+11 39 08.0	801
1990 YK	1993 11 16.20193	02 30 58.99	+11 22 46.9	r 801	1992 NJ	1993 11 17.07373	01 17 03.77	+11 39 10.0	801

1992 SZ ₁₄	1993 11 13.30306	06 11 44.07	+16 13 35.8	801	6045 P-L	1993 11 11.36743	08 03 14.42	+11 20 25.2	801
1992 SZ ₁₄	1993 11 13.34720	06 11 42.85	+16 13 26.4	801	6045 P-L	1993 11 13.38154	08 04 32.51	+11 07 03.5	801
1992 SZ ₁₄	1993 11 17.39454	06 09 45.08	+15 58 30.0	801	6045 P-L	1993 11 13.39666	08 04 33.03	+11 06 57.6	801
1992 SZ ₁₄	1993 11 17.41096	06 09 44.60	+15 58 28.8	801	9540 P-L	1993 11 13.01377	23 50 15.15	-00 55 30.5	801
1993 MF	1993 11 16.05282	00 49 35.02	+12 59 02.5	801	9540 P-L	1993 11 13.07999	23 50 15.63	-00 55 22.0	801
1993 MF	1993 11 16.06366	00 49 35.55	+12 58 55.8	801	4053 T-2	1993 11 11.16751	02 30 20.53	+10 18 47.3	801
1993 MF	1993 11 17.05267	00 50 27.67	+12 49 58.9	801	4053 T-2	1993 11 11.18271	02 30 19.76	+10 18 43.8	801
1993 MF	1993 11 17.06654	00 50 28.35	+12 49 51.6	801	4053 T-2	1993 11 16.17759	02 26 23.45	+10 01 00.5	801
1993 MG ₁	1993 11 10.96343	21 22 26.31	+03 10 47.3	801	4053 T-2	1993 11 16.19682	02 26 22.56	+10 00 56.7	801
1993 MG ₁	1993 11 10.98227	21 22 28.25	+03 10 51.0	801	5211 T-2	1993 11 16.14712	02 09 19.60	+14 50 00.5	801
1993 MS ₁	1993 11 11.96108	21 09 03.95	-04 35 04.4	801	5211 T-2	1993 11 16.16697	02 09 18.81	+14 49 50.3	801
1993 MS ₁	1993 11 16.97280	21 14 29.47	-04 33 51.3	801	5211 T-2	1993 11 17.14655	02 08 42.49	+14 41 24.7	801
1993 MS ₁	1993 11 16.98333	21 14 30.15	-04 33 52.0	801	5211 T-2	1993 11 17.16546	02 08 41.75	+14 41 15.1	801
1993 OB	1993 10 18.97821	19 39 41.09	+00 20 09.7	801	1214 T-3	1993 10 14.33723	04 52 04.97	+34 50 37.4	801
1993 OB	1993 10 18.98838	19 39 42.00	+00 20 12.7	801	1214 T-3	1993 10 14.39632	04 52 04.77	+34 50 50.5	801
1993 OB	1993 11 11.94515	20 22 47.54	+02 22 47.0	801	1214 T-3	1993 11 12.21258	04 38 30.28	+35 54 44.2	801
1993 OB	1993 11 11.95444	20 22 48.59	+02 22 50.9	801	1214 T-3	1993 11 17.27653	04 33 55.00	+35 53 49.2	801
1993 OB	1993 11 16.94105	20 33 02.35	+02 54 55.1	801	1214 T-3	1993 11 17.29352	04 33 54.02	+35 53 49.0	801
1993 OB	1993 11 16.94891	20 33 03.38	+02 54 58.4	801	3137 T-3	1993 11 16.09353	01 37 00.39	+13 51 05.5	801
1993 OP	1993 11 11.96539	21 07 22.94	+13 41 12.1	801	3137 T-3	1993 11 16.11231	01 36 59.57	+13 51 05.1	801
1993 OP	1993 11 11.97580	21 07 23.87	+13 41 12.4	801	3137 T-3	1993 11 17.08885	01 36 20.93	+13 50 58.3	801
1993 OP	1993 11 16.96912	21 15 17.73	+13 45 53.3	801	3137 T-3	1993 11 17.11116	01 36 20.04	+13 50 58.1	801
1993 OP	1993 11 16.98063	21 15 18.86	+13 45 54.2	801	5192 T-3	1993 11 13.22130	03 46 38.58	+15 45 01.4	801
1993 OV	1993 11 12.94605	19 58 33.65	-01 17 32.3	801	5192 T-3	1993 11 13.23829	03 46 37.60	+15 45 02.1	801
1993 OV	1993 11 12.95681	19 58 34.82	-01 17 31.1	801	5192 T-3	1993 11 17.22414	03 42 53.43	+15 47 13.0	801
1993 QN	1993 11 11.07123	22 34 55.85	+48 29 01.8	801	5192 T-3	1993 11 17.23584	03 42 52.74	+15 47 13.1	801
1993 QN	1993 11 11.09340	22 34 56.50	+48 28 50.7	801	(433)	1993 11 10.96053	20 37 20.62	-10 22 58.3	801
1993 QO	1993 11 10.94225	21 27 44.19	+11 13 33.6	801	(433)	1993 11 10.97927	20 37 22.50	-10 22 50.0	801
1993 QO	1993 11 10.95284	21 27 45.05	+11 13 38.2	801	(433)	1993 11 16.95133	20 47 48.75	-09 36 40.9	801
1993 QS	1993 11 10.98878	22 35 25.34	-16 12 15.7	801	(433)	1993 11 16.96118	20 47 49.79	-09 36 36.1	801
1993 QS	1993 11 11.00652	22 35 26.79	-16 12 12.4	801	(2699)	1993 11 16.22416	03 34 47.41	+14 08 08.8	801
1993 QT	1993 10 14.01704	21 56 27.63	-04 45 11.6	801	(2699)	1993 11 16.23602	03 34 46.56	+14 08 12.1	801
1993 QT	1993 10 14.04056	21 56 27.45	-04 44 57.8	801	(2699)	1993 11 17.22190	03 33 37.44	+14 12 36.2	801
1993 QT	1993 10 19.02406	21 56 35.57	-03 55 33.0	801	(2699)	1993 11 17.23419	03 33 36.55	+14 12 39.4	801
1993 QT	1993 10 19.07591	21 56 35.79	-03 55 02.5	801	(2892)	1993 11 16.37990	07 32 08.12	+42 09 15.9	801
1993 QT	1993 11 10.98661	22 08 49.77	-00 06 39.7	801	(2892)	1993 11 16.43711	07 32 08.22	+42 09 25.6	801
1993 QT	1993 11 11.00446	22 08 50.61	-00 06 28.5	801	(2968)	1993 11 11.22811	04 03 47.64	+30 03 57.5	801
1993 QZ	1993 11 12.97752	22 27 08.83	-18 44 14.2	801	(2968)	1993 11 11.24078	04 03 46.69	+30 03 53.5	801
1993 QZ	1993 11 16.99398	22 32 19.24	-18 42 12.5	801	(2968)	1993 11 13.24627	04 01 21.42	+29 52 12.1	801
1993 QZ	1993 11 17.00347	22 32 20.02	-18 42 13.2	801	(3059)	1993 11 13.25593	04 01 20.71	+29 52 10.1	801
1993 TQ ₂	1993 11 11.17659	02 37 46.47	+32 39 31.5	801	(3059)	1993 11 17.24366	03 56 27.66	+29 26 55.7	801
1993 TQ ₂	1993 11 17.17924	02 34 03.84	+35 27 48.0	801	(2968)	1993 11 17.26038	03 56 26.42	+29 26 49.1	801
1993 TQ ₂	1993 11 17.18948	02 34 03.35	+35 28 04.3	801	(4177)	1993 11 16.21090	03 32 41.13	+15 16 44.8	801
1993 UB	1993 11 11.04142	00 04 00.14	+16 39 45.9	801	(4177)	1993 11 16.22885	03 32 39.99	+15 16 39.6	801
1993 UB	1993 11 11.04507	00 03 59.71	+16 40 01.9	801	(4177)	1993 11 11.99682	23 37 51.34	+04 37 59.4	801
1993 UB	1993 11 13.10258	00 00 16.28	+19 09 28.9	801	(4177)	1993 11 12.01061	23 37 51.67	+04 37 52.9	801
1993 UB	1993 11 13.10692	00 00 15.81	+19 09 47.3	801	(4177)	1993 11 16.99722	23 40 16.00	+04 01 26.5	801
4068 P-L	1993 11 13.19317	03 33 36.87	+25 14 13.1	801	(4177)	1993 11 17.01542	23 40 16.56	+04 01 18.9	801
4068 P-L	1993 11 13.20802	03 33 35.88	+25 14 10.8	801					
4068 P-L	1993 11 16.21372	03 30 06.92	+25 04 49.1	801					
4068 P-L	1993 11 16.23142	03 30 05.67	+25 04 45.8	801					
6045 P-L	1993 11 11.34973	08 03 13.74	+11 20 32.3	801					

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Observers M. R. Cesco, R. G. Hutton, H. S. Lopez, C. E. Lopez, H. Mira,
J. G. Sanguin, J. E. Torres, J. A. Vicentela

1953 GH	1992 11 30.15644	04 01 34.22	+07 55 47.9	p	808	(440)	1992 05 01.06625	13 26 07.97	-12 04 36.1	808
1953 GH	1992 11 30.20491	04 01 31.75	+07 55 40.3	p	808	(440)	1992 05 01.09810	13 26 06.28	-12 04 25.5	808
1978 VE ₉	1992 10 01.08306	22 26 51.27	-08 18 51.0		808	(488)	1992 07 06.10627	17 27 32.53	-24 22 53.3	808
1978 VE ₉	1992 10 01.12115	22 26 50.08	-08 18 54.9		808	(488)	1992 07 06.13397	17 27 31.31	-24 22 56.4	808
1991 FC	1992 10 31.13308	01 48 00.02	-08 04 16.4		808	(542)	1992 07 30.01165	15 19 50.29	-04 11 58.8	808
1991 FC	1992 10 31.16771	01 47 58.10	-08 04 54.8		808	(619)	1992 03 02.19891	10 42 26.82	-01 56 14.2	808
1991 HA	1992 10 01.08306	22 27 23.05	-08 19 29.2		808	(619)	1992 03 02.22938	10 42 25.33	-01 55 56.8	808
1991 HA	1992 10 01.12115	22 27 21.92	-08 19 35.9		808	(619)	1992 03 29.08779	10 24 05.42	+02 28 43.3	808
1992 SU ₂₄	* 1992 09 23.11495	23 20 25.31	-32 25 26.5		808	(619)	1992 03 29.11549	10 24 04.60	+02 28 59.0	808
1992 SU ₂₄	1992 09 23.15096	23 20 23.59	-32 25 30.3		808	(619)	1992 03 30.08437	10 23 38.95	+02 37 41.5	808
1992 SU ₂₄	1992 09 27.09225	23 17 38.16	-32 28 51.2		808	(619)	1992 03 30.11415	10 23 38.10	+02 37 56.8	808
1992 SU ₂₄	1992 09 27.12688	23 17 36.70	-32 28 52.7		808	(628)	1992 10 31.13308	01 51 51.94	-08 09 49.7	808
1992 UQ ₄	1992 10 31.20511	03 01 20.23	+02 50 28.9		808	(628)	1992 10 31.16771	01 51 50.06	-08 09 54.0	808
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1992 UQ ₄	1992 11 30.05325	02 36 05.84	+02 18 03.8		808	(652)	1992 08 24.06251	19 24 46.23	-37 34 12.9	808
1992 UQ ₄	1992 11 30.10450	02 36 03.91	+02 18 11.7		808	(654)	1992 03 29.26612	14 53 47.10	-44 40 43.0	808
(1)	1992 08 25.04800	20 09 24.69	-31 42 57.3		808	(654)	1992 03 29.29105	14 53 46.23	-44 40 46.9	808
(1)	1992 08 25.06186	20 09 24.16	-31 42 58.2		808	(654)	1992 06 03.01908	13 57 13.93	-34 54 28.1	808
(61)	1992 03 29.08779	10 30 08.44	+03 35 16.5		808	(654)	1992 06 03.04678	13 57 13.57	-34 54 03.7	808
(61)	1992 03 29.11549	10 30 07.32	+03 35 18.4		808	(691)	1992 10 31.13308	01 50 03.07	-07 43 23.8	808
(61)	1992 03 30.08437	10 29 30.64	+03 36 20.6		808	(691)	1992 10 31.16771	01 50 01.30	-07 43 23.9	808
(61)	1992 03 30.11415	10 29 29.50	+03 36 23.0		808	(794)	1992 09 23.04708	22 33 54.51	-09 56 52.9	808
(106)	1992 10 25.02065	22 52 14.76	-13 27 42.6		808	(794)	1992 09 23.07894	22 33 53.64	-09 57 04.3	808
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(199)	1992 07 06.13397	17 22 18.38	-23 19 43.4		808	(794)	1992 10 01.08306	22 31 04.26	-10 32 57.0	808
(202)	1992 09 20.16158	23 16 07.98	-11 56 10.5		808	(794)	1992 10 01.12115	22 31 03.60	-10 33 05.6	808
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(434)	1992 03 09.12578	09 36 43.71	-00 14 33.9		808	(1193)	1992 08 24.16570	22 05 53.16	-35 49 40.2	p 808
(434)	1992 03 09.15002	09 36 42.59	-00 14 04.2		808	(1196)	1992 07 30.13977	19 37 30.72	-30 40 12.6	808
					808	(1196)	1992 07 30.18271	19 37 28.13	-30 40 36.0	808
					808	(1212)	1992 10 25.02065	22 47 05.98	-10 54 37.0	p 808
					808	(1212)	1992 10 25.06290	22 47 05.43	-10 54 39.6	p 808
					808	(1220)	1992 10 28.03531	23 59 02.84	-16 27 58.6	808
					808	(1220)	1992 10 28.07340	23 59 01.91	-16 27 57.9	808

(1304)	1992 08 24.11722	21 59 22.24	-36 25 32.0	808	(1999)	1992 10 25.06290	22 53 49.68	-14 07 14.7	p 808
(1304)	1992 08 24.16570	21 59 19.84	-36 25 45.6	808	(2004)	1992 08 25.18409	22 47 07.78	-10 10 01.9	808
(1320)	1992 10 31.20511	03 01 28.15	+01 33 22.0	808	(2004)	1992 08 25.21179	22 47 05.98	-10 10 11.8	808
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(1320)	1992 11 30.10450	02 35 32.70	+02 16 34.1	808	(2179)	1992 09 20.16158	23 16 13.93	-12 21 59.2	808
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(1459)	1992 07 06.19076	18 07 07.12	-43 57 08.4	808	(2179)	1992 10 25.06290	22 55 58.20	-11 52 45.3	p 808
(1459)	1992 07 30.05701	17 46 18.66	-43 44 30.7	b 808	(2219)	1992 07 30.13977	19 31 38.22	-29 32 50.2	808
(1459)	1992 07 30.09580	17 46 17.35	-43 44 24.8	b 808	(2219)	1992 07 30.18271	19 31 36.07	-29 32 56.6	808
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(1510)	1992 07 24.00726	15 35 32.42	-34 17 17.2	u 808	(2378)	1992 10 31.24666	02 55 22.93	+01 27 58.3	808
(1564)	1992 11 30.05325	02 39 22.66	+01 25 37.0	808	(2548)	1992 03 01.18640	10 06 25.55	-08 28 51.2	808
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(1575)	1992 10 31.32145	04 15 13.92	+03 10 24.5	808	(2947)	1992 03 29.08779	10 27 41.36	+04 25 24.6	808
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(1816)	1992 11 30.25374	05 57 43.03	-21 59 30.3	808	(3393)	1992 11 30.20491	03 54 52.40	+05 12 33.6	808
(1816)	1992 11 30.29460	05 57 41.13	-21 59 42.7	808	(3868)	1992 10 25.02065	22 53 07.67	-09 41 53.0	808
(1816)	1993 01 24.09145	05 15 47.13	-13 11 09.4	808	(3868)	1992 10 25.06290	22 53 08.05	-09 41 58.9	808
(1816)	1993 01 24.12607	05 15 46.71	-13 10 24.3	808	(4542)	1992 10 31.20511	02 57 56.46	+01 31 36.1	808
(1886)	1992 09 23.11495	23 12 04.63	-32 13 09.5	808	(4542)	1992 10 31.24666	02 57 54.35	+01 31 29.6	808
(1886)	1992 09 23.15096	23 12 02.84	-32 13 08.6	808	(4542)	1992 11 30.05325	02 35 07.66	+01 07 22.4	808
(1886)	1992 09 27.09225	23 09 06.37	-32 07 04.2	808					
(1886)	1992 09 27.12688	23 09 04.80	-32 06 59.4	808					
(1886)	1992 09 29.04247	23 07 46.50	-32 02 07.0	808					
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(1907)	1992 09 23.04708	22 34 36.16	-10 11 46.0	808					
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(1907)	1992 09 27.02785	22 32 10.91	-10 29 54.1	808					
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(1958)	1992 08 25.18409	22 52 36.86	-09 39 08.0	808					
(1958)	1992 08 25.21179	22 52 35.33	-09 39 09.7	808					
(1958)	1992 09 23.04708	22 28 44.89	-09 46 45.6	808					
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(1999)	1992 10 25.02065	22 53 50.25	-14 07 11.4	p 808					

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Observers E. W. Elst, G. Pizarro, O. Pizarro									
Measurers E. W. Elst, J. P. Olivier									
1.0-m Schmidt									
	1977 EA ₆	1993 07 13.21111	20 12 36.78	-21 16 43.1	18.3	809			
	1977 EA ₆	1993 07 13.22431	20 12 35.92	-21 16 44.4		809			
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	1978 RE ₃	1993 07 12.24028	19 52 20.76	-21 21 51.2		809			
	1978 RE ₃	1993 07 12.25347	19 52 19.91	-21 21 52.9		809			
	1978 RE ₃	1993 07 19.19028	19 45 09.06	-21 35 07.8	18.3	809			
	1978 RE ₃	1993 07 19.20347	19 45 08.22	-21 35 09.1		809			
	1978 RE ₃	1993 07 19.21667	19 45 07.30	-21 35 10.5		809			
	1978 VR ₄	1993 05 23.20764	16 31 13.51	-19 35 48.7	18.2	809			
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	1979 WX ₃	1993 05 23.20764	16 26 41.76	-19 04 22.0	18.6	809			

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1981 EB ₁	1993 05 23.20764	16 34 18.13	-18 21 07.7	18.1	809	1987 RT ₅	1993 07 23.14028	19 10 35.86	-21 49 02.1		809
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1981 EU ₁₈	1993 07 13.21111	20 01 07.11	-20 41 08.8	18.2	809	1987 WV ₁	1993 07 19.20347	19 31 06.51	-21 05 32.7		809
1981 EU ₁₈	1993 07 13.22431	20 01 06.41	-20 41 10.9		809	1987 WV ₁	1993 07 19.21667	19 31 05.61	-21 05 34.9		809
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1981 EX ₃₀	1993 07 19.13958	19 15 02.53	-18 53 09.6	18.3	809	1988 RV ₁₀	1993 07 19.20347	19 38 59.74	-19 06 35.9		809
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1981 ER ₃₅	1993 07 12.09444	19 33 48.06	-21 34 07.3		809	1988 RW ₁₀	1993 07 13.23750	20 06 45.21	-20 42 42.2		809
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1983 XW	1993 07 12.08125	19 28 33.24	-22 27 08.2	18.3	809	1989 TJ ₁	1993 07 12.24028	19 41 12.59	-22 21 47.0		809
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1983 XW	1993 07 19.16597	19 22 38.34	-22 39 17.6		809	1990 SY ₈	1993 05 23.20764	16 12 17.91	-22 08 26.0	18.1	809
1985 QD ₆	1993 07 12.22708	19 46 44.50	-19 24 58.2	18.0	809	1990 SY ₈	1993 05 23.22083	16 12 17.05	-22 08 26.2		809
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1985 QD ₆	1993 07 19.20347	19 40 41.44	-20 08 49.4		809	1990 SK ₁₁	1993 07 23.15347	19 04 18.57	-21 03 34.5		809
1985 QD ₆	1993 07 19.21667	19 40 40.70	-20 08 54.5		809	1990 VL ₂	1993 07 12.22708	19 46 00.20	-19 31 48.6	18.3	809
1985 TU	1993 07 13.21111	20 11 29.88	-17 47 25.2	18.3	809	1990 VL ₂	1993 07 12.24028	19 45 59.41	-19 31 50.7		809
1985 TU	1993 07 13.22431	20 11 29.06	-17 47 27.1		809	1990 VL ₂	1993 07 12.25347	19 45 58.61	-19 31 53.3		809
1985 TU	1993 07 13.23750	20 11 28.25	-17 47 29.0		809	1990 VL ₂	1993 07 19.19028	19 39 16.55	-19 56 05.8	18.2	809
1987 RJ	1993 05 23.20764	16 28 50.25	-21 03 42.6	18.0	809	1990 VL ₂	1993 07 19.20347	19 39 15.70	-19 56 08.8		809
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1987 RJ	1993 05 23.23403	16 28 48.53	-21 03 41.5		809	1990 VY ₁₃	1993 05 23.20764	16 14 13.04	-21 31 30.2	18.4	809
1987 RT ₅	1993 07 12.08125	19 20 31.65	-20 53 14.0	18.0	809	1990 VY ₁₃	1993 05 23.22083	16 14 12.31	-21 31 28.7		809
1987 RT ₅	1993 07 12.09444	19 20 30.84	-20 53 18.5		809	1990 VY ₁₃	1993 05 23.23403	16 14 11.69	-21 31 26.9		809
1987 RT ₅	1993 07 12.10764	19 20 30.05	-20 53 22.9		809	1990 VB ₁₄	1993 07 19.19028	19 45 34.11	-21 08 48.6	18.4	809
1987 RT ₅	1993 07 19.13958	19 14 02.18	-21 29 13.9	18.0	809	1990 VB ₁₄	1993 07 19.20347	19 45 33.25	-21 08 50.5		809
1987 RT ₅	1993 07 19.15278	19 14 01.35	-21 29 18.1		809	1990 VB ₁₄	1993 07 19.21667	19 45 32.33	-21 08 51.7		809

1990 WU ₅	1993 07 13.21111	20 12 50.81	-18 04 19.5	18.4	809	1993 NL	1993 07 23.14028	19 20 35.51	-19 34 08.3	809
1990 WU ₅	1993 07 13.22431	20 12 50.06	-18 04 23.1		809	1993 NL	1993 07 23.15347	19 20 34.79	-19 34 09.9	809
1990 WU ₅	1993 07 13.23750	20 12 49.28	-18 04 27.1		809	1993 NM	* 1993 07 12.22708	19 32 25.38	-19 24 50.3	18.5 809
1991 AF ₁	1993 07 12.22708	19 49 14.47	-22 30 52.3	18.1	809	1993 NM	1993 07 12.24028	19 32 24.52	-19 24 56.6	809
1991 AF ₁	1993 07 12.24028	19 49 13.72	-22 30 52.1		809	1993 NM	1993 07 12.25347	19 32 23.73	-19 25 02.8	809
1991 AF ₁	1993 07 12.25347	19 49 13.00	-22 30 51.9		809	1993 NM	1993 07 19.19028	19 25 11.02	-20 20 49.7	18.3 809
1992 CA ₂	1993 07 19.19028	19 40 56.58	-18 14 37.1	18.2	809	1993 NM	1993 07 19.20347	19 25 10.08	-20 20 55.7	809
1992 CA ₂	1993 07 19.20347	19 40 55.75	-18 14 40.9		809	1993 NM	1993 07 19.21667	19 25 09.22	-20 21 01.2	809
1992 CA ₂	1993 07 19.21667	19 40 54.92	-18 14 44.1		809	1993 NN	* 1993 07 12.22708	19 33 43.65	-17 53 22.2	18.4 809
1992 EL ₁	1993 05 23.20764	16 22 36.58	-18 48 01.6	18.0	809	1993 NN	1993 07 12.24028	19 33 42.67	-17 53 24.2	809
1992 EL ₁	1993 05 23.22083	16 22 35.83	-18 48 01.7		809	1993 NN	1993 07 12.25347	19 33 41.92	-17 53 26.2	809
1992 EL ₁	1993 05 23.23403	16 22 35.12	-18 48 03.0		809	1993 NN	1993 07 19.19028	19 26 15.31	-18 22 56.7	18.3 809
1993 JQ	1993 05 23.20764	16 15 17.76	-22 48 11.7	18.4	809	1993 NN	1993 07 19.20347	19 26 14.53	-18 22 58.7	809
1993 JQ	1993 05 23.22083	16 15 17.14	-22 48 06.5		809	1993 NN	1993 07 19.21667	19 26 13.61	-18 23 01.8	809
1993 JQ	1993 05 23.23403	16 15 16.45	-22 48 00.0		809	1993 NO	* 1993 07 12.22708	19 34 22.41	-22 17 05.4	18.2 809
1993 JW	1993 05 23.20764	16 18 00.88	-19 56 13.9	18.3	809	1993 NO	1993 07 12.24028	19 34 21.59	-22 17 06.9	809
1993 JW	1993 05 23.22083	16 18 00.16	-19 56 15.8		809	1993 NO	1993 07 12.25347	19 34 20.78	-22 17 09.2	809
1993 JW	1993 05 23.23403	16 17 59.50	-19 56 17.6		809	1993 NO	1993 07 19.19028	19 27 24.86	-22 31 05.7	18.1 809
1993 JX	1993 05 23.20764	16 19 19.96	-18 43 19.0	19.0	809	1993 NO	1993 07 19.20347	19 27 24.07	-22 31 06.8	809
1993 JX	1993 05 23.22083	16 19 19.14	-18 43 15.5		809	1993 NO	1993 07 19.21667	19 27 23.31	-22 31 07.9	809
1993 JX	1993 05 23.23403	16 19 18.29	-18 43 10.5		809	1993 NP	* 1993 07 12.22708	19 34 34.44	-21 18 31.1	18.3 809
1993 JY	1993 05 23.20764	16 20 51.30	-18 07 44.2	18.1	809	1993 NP	1993 07 12.24028	19 34 33.56	-21 18 37.8	809
1993 JY	1993 05 23.22083	16 20 50.54	-18 07 36.6		809	1993 NP	1993 07 12.25347	19 34 32.77	-21 18 44.2	809
1993 JY	1993 05 23.23403	16 20 49.87	-18 07 31.2		809	1993 NP	1993 07 19.19028	19 27 54.02	-22 13 36.4	18.0 809
1993 JZ	1993 05 23.20764	16 20 35.97	-21 43 31.9	18.3	809	1993 NP	1993 07 19.20347	19 27 53.22	-22 13 41.8	809
1993 JZ	1993 05 23.22083	16 20 35.18	-21 43 27.7		809	1993 NP	1993 07 19.21667	19 27 52.38	-22 13 48.3	809
1993 JZ	1993 05 23.23403	16 20 34.36	-21 43 22.8		809	1993 NQ	* 1993 07 12.22708	19 36 35.20	-17 58 07.5	18.4 809
1993 JB ₁	1993 05 23.20764	16 22 46.02	-19 23 33.5	18.3	809	1993 NQ	1993 07 12.24028	19 36 34.31	-17 58 13.1	809
1993 JB ₁	1993 05 23.22083	16 22 45.15	-19 23 28.8		809	1993 NQ	1993 07 12.25347	19 36 33.58	-17 58 17.9	809
1993 JB ₁	1993 05 23.23403	16 22 44.29	-19 23 24.3		809	1993 NQ	1993 07 19.19028	19 30 08.76	-18 46 35.6	18.4 809
1993 JF ₁	1993 05 23.20764	16 27 10.34	-23 05 10.8	18.5	809	1993 NQ	1993 07 19.20347	19 30 07.99	-18 46 41.3	809
1993 JF ₁	1993 05 23.22083	16 27 09.60	-23 05 10.6		809	1993 NQ	1993 07 19.21667	19 30 07.19	-18 46 46.4	809
1993 JF ₁	1993 05 23.23403	16 27 08.62	-23 05 08.8		809	1993 NR	* 1993 07 12.22708	19 36 55.79	-18 26 53.7	18.5 809
1993 JG ₁	1993 05 23.20764	16 29 16.95	-21 24 07.6	18.2	809	1993 NR	1993 07 12.24028	19 36 55.13	-18 26 55.7	809
1993 JG ₁	1993 05 23.22083	16 29 16.21	-21 24 03.9		809	1993 NR	1993 07 12.25347	19 36 54.37	-18 26 58.9	809
1993 JG ₁	1993 05 23.23403	16 29 15.57	-21 24 00.2		809	1993 NR	1993 07 19.19028	19 30 45.72	-18 49 55.1	18.4 809
1993 JJ ₁	1993 05 23.20764	16 30 12.67	-21 55 34.6	18.1	809	1993 NR	1993 07 19.20347	19 30 45.04	-18 49 58.3	809
1993 JJ ₁	1993 05 23.22083	16 30 11.89	-21 55 36.5		809	1993 NR	1993 07 19.21667	19 30 44.31	-18 50 01.6	809
1993 JJ ₁	1993 05 23.23403	16 30 11.00	-21 55 38.4		809	1993 NS	* 1993 07 12.22708	19 37 14.15	-22 14 20.6	18.5 809
1993 JK ₁	1993 05 23.20764	16 32 37.31	-23 05 42.8	18.3	809	1993 NS	1993 07 12.24028	19 37 13.47	-22 14 22.5	809
1993 JK ₁	1993 05 23.22083	16 32 36.46	-23 05 41.2		809	1993 NS	1993 07 12.25347	19 37 12.66	-22 14 23.2	809
1993 JK ₁	1993 05 23.23403	16 32 35.79	-23 05 40.6		809	1993 NS	1993 07 19.19028	19 30 39.02	-22 23 42.0	18.4 809
1993 JL ₁	1993 05 23.20764	16 33 23.33	-20 24 57.0	18.4	809	1993 NS	1993 07 19.20347	19 30 38.25	-22 23 42.3	809
1993 JL ₁	1993 05 23.22083	16 33 22.77	-20 24 57.0		809	1993 NS	1993 07 19.21667	19 30 37.46	-22 23 43.4	809
1993 JL ₁	1993 05 23.23403	16 33 22.07	-20 24 55.2		809	1993 NT	* 1993 07 12.22708	19 37 26.62	-20 23 23.7	18.3 809
1993 JM ₁	1993 05 23.20764	16 32 50.61	-23 09 38.4	18.0	809	1993 NT	1993 07 12.24028	19 37 25.94	-20 23 24.8	809
1993 JM ₁	1993 05 23.22083	16 32 49.89	-23 09 35.8		809	1993 NT	1993 07 12.25347	19 37 25.22	-20 23 25.0	809
1993 JM ₁	1993 05 23.23403	16 32 49.04	-23 09 33.7		809	1993 NT	1993 07 19.19028	19 31 35.75	-20 27 16.2	18.1 809
1993 NL	* 1993 07 12.08125	19 30 03.64	-19 05 23.5	18.5	809	1993 NT	1993 07 19.20347	19 31 35.07	-20 27 17.3	809
1993 NL	1993 07 12.09444	19 30 02.85	-19 05 27.2		809	1993 NT	1993 07 19.21667	19 31 34.36	-20 27 17.5	809
1993 NL	1993 07 12.10764	19 30 02.14	-19 05 28.1		809	1993 NU	* 1993 07 12.22708	19 37 44.57	-17 37 00.9	18.4 809
1993 NL	1993 07 23.12708	19 20 36.24	-19 34 06.7	18.5	809	1993 NU	1993 07 12.24028	19 37 43.77	-17 37 01.9	809

1993 NU	1993 07 12.25347	19 37 42.90	-17 37 01.2		809	1993 ND ₁	* 1993 07 12.22708	19 40 33.81	-21 02 18.1	18.3	809
1993 NU	1993 07 19.19028	19 30 51.57	-17 55 48.2	18.5	809	1993 ND ₁	1993 07 12.24028	19 40 32.74	-21 02 18.8		809
1993 NU	1993 07 19.20347	19 30 50.71	-17 55 50.5		809	1993 ND ₁	1993 07 12.25347	19 40 32.00	-21 02 19.2		809
1993 NU	1993 07 19.21667	19 30 49.91	-17 55 53.3		809	1993 ND ₁	1993 07 19.19028	19 33 45.30	-21 07 57.3	18.4	809
1993 NV	* 1993 07 12.22708	19 38 06.97	-20 35 54.4	18.3	809	1993 ND ₁	1993 07 19.20347	19 33 44.49	-21 07 57.7		809
1993 NV	1993 07 12.24028	19 38 06.26	-20 35 55.4		809	1993 ND ₁	1993 07 19.21667	19 33 43.55	-21 07 58.7		809
1993 NV	1993 07 12.25347	19 38 05.53	-20 35 57.0		809	1993 NE ₁	* 1993 07 12.22708	19 40 35.16	-22 23 38.4	18.2	809
1993 NV	1993 07 19.19028	19 31 58.31	-20 48 34.6	18.2	809	1993 NE ₁	1993 07 12.24028	19 40 34.45	-22 23 41.2		809
1993 NV	1993 07 19.20347	19 31 57.51	-20 48 36.2		809	1993 NE ₁	1993 07 12.25347	19 40 33.72	-22 23 43.4		809
1993 NV	1993 07 19.21667	19 31 56.78	-20 48 36.9		809	1993 NE ₁	1993 07 19.19028	19 34 30.49	-22 44 49.6	18.0	809
1993 NW	* 1993 07 12.22708	19 38 55.25	-20 55 11.1	18.4	809	1993 NE ₁	1993 07 19.20347	19 34 29.78	-22 44 52.0		809
1993 NW	1993 07 12.24028	19 38 54.40	-20 55 12.9		809	1993 NE ₁	1993 07 19.21667	19 34 28.99	-22 44 54.6		809
1993 NW	1993 07 12.25347	19 38 53.72	-20 55 18.1		809	1993 NF ₁	* 1993 07 12.22708	19 40 47.86	-19 18 30.8	18.2	809
1993 NW	1993 07 19.19028	19 32 46.02	-21 24 33.4	18.3	809	1993 NF ₁	1993 07 12.24028	19 40 47.15	-19 18 41.1		809
1993 NW	1993 07 19.20347	19 32 45.27	-21 24 36.4		809	1993 NF ₁	1993 07 12.25347	19 40 46.35	-19 18 53.3		809
1993 NW	1993 07 19.21667	19 32 44.57	-21 24 40.1		809	1993 NF ₁	1993 07 19.19028	19 34 57.22	-20 54 14.3	18.0	809
1993 NX	* 1993 07 12.22708	19 39 11.59	-18 12 26.9	18.1	809	1993 NF ₁	1993 07 19.20347	19 34 56.53	-20 54 25.4		809
1993 NX	1993 07 12.24028	19 39 10.91	-18 12 27.9		809	1993 NF ₁	1993 07 19.21667	19 34 55.71	-20 54 37.0		809
1993 NX	1993 07 12.25347	19 39 10.22	-18 12 28.2		809	1993 NG ₁	* 1993 07 12.22708	19 40 54.34	-22 35 25.8	18.5	809
1993 NX	1993 07 19.19028	19 33 13.33	-18 21 06.7	18.1	809	1993 NG ₁	1993 07 12.24028	19 40 53.15	-22 35 26.4		809
1993 NX	1993 07 19.20347	19 33 12.59	-18 21 07.8		809	1993 NG ₁	1993 07 12.25347	19 40 52.34	-22 35 26.8		809
1993 NX	1993 07 19.21667	19 33 11.85	-18 21 09.1		809	1993 NG ₁	1993 07 19.19028	19 33 18.21	-22 35 42.6	18.3	809
1993 NY	* 1993 07 12.22708	19 39 20.05	-20 47 43.4	18.3	809	1993 NG ₁	1993 07 19.20347	19 33 17.41	-22 35 43.8		809
1993 NY	1993 07 12.24028	19 39 19.20	-20 47 44.3		809	1993 NG ₁	1993 07 19.21667	19 33 16.42	-22 35 43.0		809
1993 NY	1993 07 12.25347	19 39 18.33	-20 47 45.7		809	1993 NH ₁	* 1993 07 12.22708	19 41 02.54	-21 31 52.4	18.1	809
1993 NY	1993 07 19.19028	19 32 14.70	-20 57 37.0	18.3	809	1993 NH ₁	1993 07 12.24028	19 41 01.54	-21 31 53.3		809
1993 NY	1993 07 19.20347	19 32 13.83	-20 57 38.4		809	1993 NH ₁	1993 07 12.25347	19 41 00.66	-21 31 54.3		809
1993 NY	1993 07 19.21667	19 32 12.95	-20 57 39.0		809	1993 NH ₁	1993 07 19.19028	19 33 16.79	-21 41 53.8	17.9	809
1993 NZ	* 1993 07 12.22708	19 39 31.71	-19 58 48.9	18.6	809	1993 NH ₁	1993 07 19.20347	19 33 15.89	-21 41 54.1		809
1993 NZ	1993 07 12.24028	19 39 30.93	-19 58 52.1		809	1993 NH ₁	1993 07 19.21667	19 33 15.02	-21 41 55.6		809
1993 NZ	1993 07 12.25347	19 39 30.17	-19 58 55.4		809	1993 NJ ₁	* 1993 07 12.22708	19 41 02.72	-18 56 57.8	18.2	809
1993 NZ	1993 07 19.19028	19 33 08.99	-20 31 17.5	18.6	809	1993 NJ ₁	1993 07 12.24028	19 41 01.94	-18 57 01.6		809
1993 NZ	1993 07 19.20347	19 33 08.18	-20 31 21.8		809	1993 NJ ₁	1993 07 12.25347	19 41 01.23	-18 57 04.5		809
1993 NZ	1993 07 19.21667	19 33 07.56	-20 31 23.9		809	1993 NJ ₁	1993 07 19.19028	19 34 49.65	-19 29 27.4	18.0	809
1993 NA ₁	* 1993 07 12.22708	19 39 34.01	-19 33 26.4	18.0	809	1993 NJ ₁	1993 07 19.20347	19 34 48.90	-19 29 31.2		809
1993 NA ₁	1993 07 12.24028	19 39 33.20	-19 33 25.6		809	1993 NJ ₁	1993 07 19.21667	19 34 48.15	-19 29 34.8		809
1993 NA ₁	1993 07 12.25347	19 39 32.40	-19 33 24.3		809	1993 NK ₁	* 1993 07 12.22708	19 41 10.88	-18 12 03.3	18.6	809
1993 NA ₁	1993 07 19.19028	19 32 12.67	-19 22 28.5	17.8	809	1993 NK ₁	1993 07 12.24028	19 41 10.07	-18 12 10.8		809
1993 NA ₁	1993 07 19.20347	19 32 11.78	-19 22 27.0		809	1993 NK ₁	1993 07 12.25347	19 41 09.35	-18 12 16.5		809
1993 NA ₁	1993 07 19.21667	19 32 10.90	-19 22 26.3		809	1993 NK ₁	1993 07 19.19028	19 34 28.95	-19 07 59.0	18.3	809
1993 NB ₁	* 1993 07 12.22708	19 39 58.07	-22 00 57.6	18.8	809	1993 NK ₁	1993 07 19.20347	19 34 28.11	-19 08 05.4		809
1993 NB ₁	1993 07 12.24028	19 39 57.22	-22 01 00.6		809	1993 NK ₁	1993 07 19.21667	19 34 27.36	-19 08 12.5		809
1993 NB ₁	1993 07 12.25347	19 39 56.48	-22 01 03.2		809	1993 NL ₁	* 1993 07 12.22708	19 41 39.42	-21 50 13.4	18.1	809
1993 NB ₁	1993 07 19.19028	19 33 58.73	-22 20 53.2	18.3	809	1993 NL ₁	1993 07 12.24028	19 41 38.59	-21 50 16.1		809
1993 NB ₁	1993 07 19.20347	19 33 57.95	-22 20 55.4		809	1993 NL ₁	1993 07 12.25347	19 41 37.79	-21 50 18.8		809
1993 NB ₁	1993 07 19.21667	19 33 57.25	-22 20 58.0		809	1993 NL ₁	1993 07 19.19028	19 35 06.07	-22 14 40.1	18.0	809
1993 NC ₁	* 1993 07 12.22708	19 40 16.79	-21 37 09.5	18.4	809	1993 NL ₁	1993 07 19.20347	19 35 05.31	-22 14 43.3		809
1993 NC ₁	1993 07 12.24028	19 40 16.03	-21 37 11.6		809	1993 NL ₁	1993 07 19.21667	19 35 04.48	-22 14 45.6		809
1993 NC ₁	1993 07 12.25347	19 40 15.41	-21 37 12.7		809	1993 NM ₁	* 1993 07 12.22708	19 42 30.58	-20 36 44.0	18.3	809
1993 NC ₁	1993 07 19.19028	19 34 29.34	-21 46 43.0	18.3	809	1993 NM ₁	1993 07 12.24028	19 42 29.73	-20 36 49.5		809
1993 NC ₁	1993 07 19.20347	19 34 28.62	-21 46 44.3		809	1993 NM ₁	1993 07 12.25347	19 42 28.95	-20 36 56.4		809
1993 NC ₁	1993 07 19.21667	19 34 27.97	-21 46 45.3		809	1993 NM ₁	1993 07 19.19028	19 35 55.74	-21 36 54.2	18.0	809

1993 NM ₁	1993 07 19.20347	19 35 55.00	-21 37 01.5		809	1993 NV ₁	1993 07 12.25347	19 44 01.08	-22 23 47.7		809
1993 NM ₁	1993 07 19.21667	19 35 54.25	-21 37 07.3		809	1993 NV ₁	1993 07 19.19028	19 37 08.40	-22 23 42.6	18.3	809
1993 NN ₁	* 1993 07 12.22708	19 42 33.15	-20 53 56.1	18.1	809	1993 NV ₁	1993 07 19.20347	19 37 07.55	-22 23 42.2		809
1993 NN ₁	1993 07 12.24028	19 42 32.34	-20 53 54.1		809	1993 NV ₁	1993 07 19.21667	19 37 06.69	-22 23 42.4		809
1993 NN ₁	1993 07 12.25347	19 42 31.55	-20 53 52.2		809	1993 NW ₁	* 1993 07 12.22708	19 44 04.16	-18 55 28.4	18.4	809
1993 NN ₁	1993 07 19.19028	19 35 47.57	-20 36 06.3	18.0	809	1993 NW ₁	1993 07 12.24028	19 44 03.48	-18 55 29.8		809
1993 NN ₁	1993 07 19.20347	19 35 46.79	-20 36 04.5		809	1993 NW ₁	1993 07 12.25347	19 44 02.82	-18 55 31.1		809
1993 NN ₁	1993 07 19.21667	19 35 45.89	-20 36 02.8		809	1993 NW ₁	1993 07 19.19028	19 38 02.40	-19 09 21.7	18.4	809
1993 NO ₁	* 1993 07 12.22708	19 43 07.26	-22 02 20.2	18.4	809	1993 NW ₁	1993 07 19.20347	19 38 01.65	-19 09 24.2		809
1993 NO ₁	1993 07 12.24028	19 43 06.37	-22 02 26.7		809	1993 NW ₁	1993 07 19.21667	19 38 00.95	-19 09 25.6		809
1993 NO ₁	1993 07 12.25347	19 43 05.52	-22 02 31.6		809	1993 NX ₁	* 1993 07 12.22708	19 44 06.55	-22 38 05.6	18.8	809
1993 NO ₁	1993 07 19.19028	19 35 25.54	-22 50 59.8	18.4	809	1993 NX ₁	1993 07 12.24028	19 44 05.78	-22 38 08.5		809
1993 NO ₁	1993 07 19.20347	19 35 24.50	-22 51 04.9		809	1993 NX ₁	1993 07 12.25347	19 44 05.04	-22 38 12.0		809
1993 NO ₁	1993 07 19.21667	19 35 23.56	-22 51 11.2		809	1993 NX ₁	1993 07 19.19028	19 38 19.26	-23 01 09.1	18.5	809
1993 NP ₁	* 1993 07 12.22708	19 43 11.99	-21 49 24.2	18.6	809	1993 NX ₁	1993 07 19.20347	19 38 18.37	-23 01 11.9		809
1993 NP ₁	1993 07 12.24028	19 43 11.22	-21 49 28.1		809	1993 NX ₁	1993 07 19.21667	19 38 17.77	-23 01 15.8		809
1993 NP ₁	1993 07 12.25347	19 43 10.40	-21 49 32.7		809	1993 NY ₁	* 1993 07 12.22708	19 44 12.11	-22 37 25.4	18.6	809
1993 NP ₁	1993 07 19.19028	19 36 26.86	-22 30 43.8	18.4	809	1993 NY ₁	1993 07 12.24028	19 44 11.47	-22 37 27.9		809
1993 NP ₁	1993 07 19.20347	19 36 26.11	-22 30 47.8		809	1993 NY ₁	1993 07 12.25347	19 44 10.76	-22 37 29.3		809
1993 NP ₁	1993 07 19.21667	19 36 25.26	-22 30 52.2		809	1993 NY ₁	1993 07 19.19028	19 37 43.13	-22 52 27.7	18.4	809
1993 NQ ₁	* 1993 07 12.22708	19 43 24.80	-20 13 53.5	18.2	809	1993 NY ₁	1993 07 19.20347	19 37 42.36	-22 52 29.1		809
1993 NQ ₁	1993 07 12.24028	19 43 23.82	-20 13 53.5		809	1993 NY ₁	1993 07 19.21667	19 37 41.57	-22 52 31.9		809
1993 NQ ₁	1993 07 12.25347	19 43 22.95	-20 13 53.3		809	1993 NZ ₁	* 1993 07 12.22708	19 44 55.87	-21 15 12.0	18.3	809
1993 NQ ₁	1993 07 19.19028	19 35 36.39	-20 13 57.8	18.0	809	1993 NZ ₁	1993 07 12.24028	19 44 55.19	-21 15 12.1		809
1993 NQ ₁	1993 07 19.20347	19 35 35.48	-20 13 57.7		809	1993 NZ ₁	1993 07 12.25347	19 44 54.47	-21 15 12.7		809
1993 NQ ₁	1993 07 19.21667	19 35 34.62	-20 13 57.5		809	1993 NZ ₁	1993 07 19.19028	19 38 48.75	-21 13 48.1	18.3	809
1993 NR ₁	* 1993 07 12.22708	19 43 25.20	-21 28 37.0	18.4	809	1993 NZ ₁	1993 07 19.20347	19 38 48.01	-21 13 48.2		809
1993 NR ₁	1993 07 12.24028	19 43 24.52	-21 28 39.1		809	1993 NZ ₁	1993 07 19.21667	19 38 47.24	-21 13 48.2		809
1993 NR ₁	1993 07 12.25347	19 43 23.78	-21 28 42.8		809	1993 NA ₂	* 1993 07 12.22708	19 44 57.51	-18 26 59.8	18.3	809
1993 NR ₁	1993 07 19.19028	19 37 16.14	-21 58 18.2	18.3	809	1993 NA ₂	1993 07 12.24028	19 44 56.79	-18 27 04.3		809
1993 NR ₁	1993 07 19.20347	19 37 15.40	-21 58 21.4		809	1993 NA ₂	1993 07 12.25347	19 44 55.94	-18 27 09.2		809
1993 NR ₁	1993 07 19.21667	19 37 14.63	-21 58 25.2		809	1993 NA ₂	1993 07 19.19028	19 38 31.15	-19 02 45.2	18.3	809
1993 NS ₁	* 1993 07 12.22708	19 43 33.26	-20 11 50.2	18.5	809	1993 NA ₂	1993 07 19.20347	19 38 30.33	-19 02 49.3		809
1993 NS ₁	1993 07 12.24028	19 43 32.56	-20 11 53.0		809	1993 NA ₂	1993 07 19.21667	19 38 29.66	-19 02 52.6		809
1993 NS ₁	1993 07 12.25347	19 43 31.81	-20 11 57.3		809	1993 NB ₂	* 1993 07 12.22708	19 46 14.59	-21 24 02.5	18.3	809
1993 NS ₁	1993 07 19.19028	19 37 32.99	-20 44 53.8	18.3	809	1993 NB ₂	1993 07 12.24028	19 46 13.79	-21 24 03.2		809
1993 NS ₁	1993 07 19.20347	19 37 32.20	-20 44 57.9		809	1993 NB ₂	1993 07 12.25347	19 46 12.98	-21 24 04.7		809
1993 NS ₁	1993 07 19.21667	19 37 31.43	-20 45 02.1		809	1993 NB ₂	1993 07 19.19028	19 39 12.78	-21 37 06.6	18.2	809
1993 NT ₁	* 1993 07 12.22708	19 43 47.21	-21 50 01.7	18.0	809	1993 NB ₂	1993 07 19.20347	19 39 11.98	-21 37 08.0		809
1993 NT ₁	1993 07 12.24028	19 43 46.47	-21 50 05.2		809	1993 NB ₂	1993 07 19.21667	19 39 11.15	-21 37 09.3		809
1993 NT ₁	1993 07 12.25347	19 43 45.64	-21 50 08.4		809	1993 NC ₂	* 1993 07 12.22708	19 48 42.19	-18 59 06.0	18.3	809
1993 NT ₁	1993 07 19.19028	19 37 23.25	-22 18 17.8	17.9	809	1993 NC ₂	1993 07 12.24028	19 48 41.35	-18 59 05.2		809
1993 NT ₁	1993 07 19.20347	19 37 22.49	-22 18 20.8		809	1993 NC ₂	1993 07 12.25347	19 48 40.53	-18 59 03.2		809
1993 NT ₁	1993 07 19.21667	19 37 21.75	-22 18 24.1		809	1993 NC ₂	1993 07 19.19028	19 41 58.40	-18 46 06.2	18.1	809
1993 NU ₁	* 1993 07 12.22708	19 43 56.36	-17 54 02.3	18.3	809	1993 NC ₂	1993 07 19.20347	19 41 57.62	-18 46 05.0		809
1993 NU ₁	1993 07 12.24028	19 43 55.58	-17 54 04.3		809	1993 NC ₂	1993 07 19.21667	19 41 56.84	-18 46 03.4		809
1993 NU ₁	1993 07 12.25347	19 43 54.68	-17 54 06.1		809	1993 ND ₂	* 1993 07 12.22708	19 49 06.45	-19 12 28.5	18.5	809
1993 NU ₁	1993 07 19.19028	19 36 51.65	-18 19 03.7	18.3	809	1993 ND ₂	1993 07 12.24028	19 49 05.60	-19 12 30.0		809
1993 NU ₁	1993 07 19.20347	19 36 50.71	-18 19 07.5		809	1993 ND ₂	1993 07 12.25347	19 49 04.77	-19 12 31.3		809
1993 NU ₁	1993 07 19.21667	19 36 49.88	-18 19 09.9		809	1993 ND ₂	1993 07 19.19028	19 42 21.78	-19 23 18.8	18.3	809
1993 NV ₁	* 1993 07 12.22708	19 44 02.69	-22 23 48.1	18.2	809	1993 ND ₂	1993 07 19.20347	19 42 20.89	-19 23 19.9		809
1993 NV ₁	1993 07 12.24028	19 44 01.90	-22 23 48.1		809	1993 ND ₂	1993 07 19.21667	19 42 20.08	-19 23 21.0		809

1993 NE ₂	* 1993 07 12.22708	19 50 44.69	-18 27 58.6	18.4	809	1993 OB ₄	1993 07 13.22431	20 06 45.80	-20 50 53.6		809
1993 NE ₂	1993 07 12.24028	19 50 43.91	-18 27 57.9		809	1993 OB ₄	1993 07 13.23750	20 06 45.07	-20 50 55.1		809
1993 NE ₂	1993 07 12.25347	19 50 43.10	-18 27 56.8		809	1993 OC ₄	1993 07 13.21111	20 07 06.05	-21 25 03.5	18.0	809
1993 NE ₂	1993 07 19.19028	19 43 53.95	-18 18 12.8	18.3	809	1993 OC ₄	1993 07 13.22431	20 07 05.23	-21 25 04.7		809
1993 NE ₂	1993 07 19.20347	19 43 53.09	-18 18 12.2		809	1993 OC ₄	1993 07 13.23750	20 07 04.34	-21 25 05.3		809
1993 NE ₂	1993 07 19.21667	19 43 52.24	-18 18 10.6		809	1993 OE ₄	1993 07 13.21111	20 05 57.82	-20 12 59.1	18.5	809
1993 OC ₃	1993 07 13.21111	19 59 51.27	-22 03 02.9	18.2	809	1993 OE ₄	1993 07 13.22431	20 05 57.18	-20 13 07.8		809
1993 OC ₃	1993 07 13.22431	19 59 50.45	-22 03 03.4		809	1993 OE ₄	1993 07 13.23750	20 05 56.45	-20 13 16.6		809
1993 OC ₃	1993 07 13.23750	19 59 49.58	-22 03 04.1		809	1993 OG ₄	1993 07 13.21111	20 07 17.60	-20 19 31.9	17.9	809
1993 OE ₃	1993 07 13.21111	20 01 50.57	-21 41 45.0	18.0	809	1993 OG ₄	1993 07 13.22431	20 07 16.81	-20 19 31.3		809
1993 OE ₃	1993 07 13.22431	20 01 49.69	-21 41 43.7		809	1993 OG ₄	1993 07 13.23750	20 07 15.98	-20 19 30.9		809
1993 OE ₃	1993 07 13.23750	20 01 48.83	-21 41 42.3		809	1993 OH ₄	1993 07 13.21111	20 07 41.45	-21 53 35.4	18.4	809
1993 OF ₃	1993 07 13.21111	20 01 45.18	-21 45 01.7	18.3	809	1993 OH ₄	1993 07 13.22431	20 07 40.65	-21 53 38.9		809
1993 OF ₃	1993 07 13.22431	20 01 44.42	-21 45 03.5		809	1993 OH ₄	1993 07 13.23750	20 07 39.67	-21 53 42.5		809
1993 OF ₃	1993 07 13.23750	20 01 43.59	-21 45 05.4		809	1993 OK ₄	1993 07 13.21111	20 06 39.15	-19 53 44.8	18.5	809
1993 OH ₃	1993 07 13.21111	20 02 45.78	-20 45 23.0	18.5	809	1993 OK ₄	1993 07 13.22431	20 06 38.46	-19 53 46.7		809
1993 OH ₃	1993 07 13.22431	20 02 44.75	-20 45 20.9		809	1993 OK ₄	1993 07 13.23750	20 06 37.78	-19 53 48.5		809
1993 OH ₃	1993 07 13.23750	20 02 43.99	-20 45 20.0		809	1993 OM ₄	1993 07 13.21111	20 07 35.76	-19 46 31.2	18.5	809
1993 OJ ₃	1993 07 13.21111	20 02 45.45	-21 13 30.1	18.4	809	1993 OM ₄	1993 07 13.22431	20 07 34.98	-19 46 34.7		809
1993 OJ ₃	1993 07 13.22431	20 02 44.58	-21 13 28.6		809	1993 OM ₄	1993 07 13.23750	20 07 34.14	-19 46 38.5		809
1993 OJ ₃	1993 07 13.23750	20 02 43.74	-21 13 27.5		809	1993 OO ₄	1993 07 13.21111	20 07 39.56	-18 44 35.8	18.4	809
1993 OL ₃	1993 07 13.21111	20 02 37.31	-20 04 41.0	18.1	809	1993 OO ₄	1993 07 13.22431	20 07 38.78	-18 44 40.3		809
1993 OL ₃	1993 07 13.22431	20 02 36.49	-20 04 41.1		809	1993 OO ₄	1993 07 13.23750	20 07 38.04	-18 44 43.4		809
1993 OL ₃	1993 07 13.23750	20 02 35.59	-20 04 42.5		809	1993 OQ ₄	1993 07 13.21111	20 09 15.07	-17 37 52.4	18.4	809
1993 ON ₃	1993 07 13.21111	20 02 32.08	-21 53 01.3	18.4	809	1993 OQ ₄	1993 07 13.22431	20 09 14.24	-17 37 55.4		809
1993 ON ₃	1993 07 13.22431	20 02 31.21	-21 53 02.2		809	1993 OQ ₄	1993 07 13.23750	20 09 13.45	-17 37 59.9		809
1993 ON ₃	1993 07 13.23750	20 02 30.43	-21 53 03.0		809	1993 OV ₄	1993 07 13.21111	20 10 18.88	-19 26 23.2	18.3	809
1993 OO ₃	1993 07 13.21111	20 03 08.74	-20 38 53.8	18.1	809	1993 OV ₄	1993 07 13.22431	20 10 18.02	-19 26 24.3		809
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1993 OO ₃	1993 07 13.23750	20 03 07.07	-20 38 57.4		809	1993 OW ₄	1993 07 13.21111	20 09 14.63	-21 05 33.2	18.5	809
1993 OP ₃	1993 07 13.21111	20 03 27.76	-22 34 38.9	18.5	809	1993 OW ₄	1993 07 13.22431	20 09 13.92	-21 05 42.1		809
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1993 OQ ₃	1993 07 13.21111	20 02 16.81	-20 48 04.7	18.5	809	1993 OZ ₄	1993 07 13.22431	20 09 57.97	-18 21 52.7		809
1993 OQ ₃	1993 07 13.22431	20 02 16.17	-20 48 07.5		809	1993 OZ ₄	1993 07 13.23750	20 09 57.21	-18 21 57.1		809
1993 OQ ₃	1993 07 13.23750	20 02 15.39	-20 48 10.1		809	1993 OD ₅	1993 07 13.21111	20 10 47.42	-22 09 56.6	18.3	809
1993 OS ₃	1993 07 13.21111	20 04 17.83	-21 21 19.1	18.4	809	1993 OD ₅	1993 07 13.22431	20 10 46.59	-22 09 58.0		809
1993 OS ₃	1993 07 13.22431	20 04 16.95	-21 21 18.9		809	1993 OD ₅	1993 07 13.23750	20 10 45.78	-22 10 00.2		809
1993 OS ₃	1993 07 13.23750	20 04 16.07	-21 21 17.8		809	1993 OF ₅	1993 07 13.21111	20 10 11.75	-19 21 32.0	18.2	809
1993 OV ₃	1993 07 13.21111	20 02 57.16	-19 48 14.6	18.0	809	1993 OF ₅	1993 07 13.22431	20 10 11.06	-19 21 32.4		809
1993 OV ₃	1993 07 13.22431	20 02 56.73	-19 48 17.8		809	1993 OF ₅	1993 07 13.23750	20 10 10.35	-19 21 32.8		809
1993 OV ₃	1993 07 13.23750	20 02 56.14	-19 48 21.8		809	1993 OG ₅	1993 07 13.21111	20 11 26.26	-21 59 13.9	18.4	809
1993 OW ₃	1993 07 13.21111	20 04 28.05	-18 51 30.1	17.7	809	1993 OG ₅	1993 07 13.22431	20 11 25.40	-21 59 14.2		809
1993 OW ₃	1993 07 13.22431	20 04 27.25	-18 51 33.6		809	1993 OG ₅	1993 07 13.23750	20 11 24.77	-21 59 14.8		809
1993 OW ₃	1993 07 13.23750	20 04 26.51	-18 51 37.8		809	1993 OH ₅	1993 07 13.21111	20 10 13.01	-19 28 36.7	18.3	809
1993 OY ₃	1993 07 13.21111	20 06 26.22	-18 34 36.1	18.5	809	1993 OH ₅	1993 07 13.22431	20 10 12.27	-19 28 39.1		809
1993 OY ₃	1993 07 13.22431	20 06 25.30	-18 34 38.7		809	1993 OH ₅	1993 07 13.23750	20 10 11.62	-19 28 40.7		809
1993 OY ₃	1993 07 13.23750	20 06 24.40	-18 34 43.2		809	1993 OL ₅	1993 07 13.21111	20 12 07.53	-20 22 06.3	18.6	809
1993 OA ₄	1993 07 13.21111	20 05 24.97	-19 46 46.3	18.3	809	1993 OL ₅	1993 07 13.22431	20 12 06.59	-20 22 07.8		809
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1993 OB ₄	1993 07 13.21111	20 06 46.64	-20 50 52.3	18.4	809	1993 OO ₅	1993 07 13.22431	20 12 40.64	-20 30 15.8		809

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1993 OP ₅	1993 07 13.21111	20 12 32.05	-20 18 57.5	18.6	809	1993 ON ₆	1993 07 13.22431	20 15 53.28	-21 22 46.1		809
1993 OP ₅	1993 07 13.22431	20 12 31.22	-20 18 56.7		809	1993 ON ₆	1993 07 13.23750	20 15 52.56	-21 22 50.2		809
1993 OP ₅	1993 07 13.23750	20 12 30.44	-20 18 56.0		809	1993 OP ₆	1993 07 13.21111	20 16 34.59	-19 27 19.6	18.6	809
1993 OQ ₅	1993 07 13.21111	20 12 25.59	-19 33 05.8	18.2	809	1993 OP ₆	1993 07 13.22431	20 16 33.88	-19 27 21.1		809
1993 OQ ₅	1993 07 13.22431	20 12 24.80	-19 33 06.6		809	1993 OP ₆	1993 07 13.23750	20 16 33.13	-19 27 22.8		809
1993 OQ ₅	1993 07 13.23750	20 12 24.01	-19 33 05.9		809	1993 OT ₆	1993 07 13.21111	20 16 43.29	-18 51 03.7	18.4	809
1993 OR ₅	1993 07 13.21111	20 11 30.37	-18 51 41.6	18.6	809	1993 OT ₆	1993 07 13.22431	20 16 42.66	-18 51 06.8		809
1993 OR ₅	1993 07 13.22431	20 11 29.71	-18 51 43.3		809	1993 OT ₆	1993 07 13.23750	20 16 41.89	-18 51 10.5		809
1993 OR ₅	1993 07 13.23750	20 11 28.98	-18 51 45.5		809	1993 OW ₆	1993 07 13.21111	20 18 17.76	-18 10 33.2	18.3	809
1993 OT ₅	1993 07 13.21111	20 11 57.37	-21 29 48.1	18.5	809	1993 OW ₆	1993 07 13.22431	20 18 17.01	-18 10 37.3		809
1993 OT ₅	1993 07 13.22431	20 11 56.73	-21 29 49.9		809	1993 OW ₆	1993 07 13.23750	20 18 16.11	-18 10 41.5		809
1993 OT ₅	1993 07 13.23750	20 11 55.99	-21 29 51.3		809	1993 OX ₆	1993 07 13.21111	20 17 04.27	-20 13 55.5	18.0	809
1993 OU ₅	1993 07 13.21111	20 11 54.29	-20 47 06.8	18.4	809	1993 OX ₆	1993 07 13.22431	20 17 03.61	-20 14 00.8		809
1993 OU ₅	1993 07 13.22431	20 11 53.64	-20 47 09.9		809	1993 OX ₆	1993 07 13.23750	20 17 02.94	-20 14 05.9		809
1993 OU ₅	1993 07 13.23750	20 11 52.99	-20 47 12.8		809	1993 OY ₆	1993 07 13.21111	20 17 15.05	-18 21 31.1	17.8	809
1993 OV ₅	1993 07 13.21111	20 13 33.12	-19 04 38.7	18.3	809	1993 OY ₆	1993 07 13.22431	20 17 14.37	-18 21 38.1		809
1993 OV ₅	1993 07 13.22431	20 13 32.32	-19 04 42.7		809	1993 OY ₆	1993 07 13.23750	20 17 13.63	-18 21 45.4		809
1993 OV ₅	1993 07 13.23750	20 13 31.41	-19 04 47.0		809	1993 OA ₇	1993 07 13.21111	20 18 43.61	-20 12 44.8	18.4	809
1993 OW ₅	1993 07 13.21111	20 12 26.20	-18 55 41.4	18.5	809	1993 OA ₇	1993 07 13.22431	20 18 42.86	-20 12 48.3		809
1993 OW ₅	1993 07 13.22431	20 12 25.64	-18 55 40.5		809	1993 OA ₇	1993 07 13.23750	20 18 42.05	-20 12 51.8		809
1993 OW ₅	1993 07 13.23750	20 12 25.02	-18 55 40.9		809	1993 OB ₇	1993 07 13.21111	20 17 29.50	-21 49 34.7	18.6	809
1993 OX ₅	1993 07 13.21111	20 13 54.09	-17 54 17.1	18.3	809	1993 OB ₇	1993 07 13.22431	20 17 28.59	-21 49 37.7		809
1993 OX ₅	1993 07 13.22431	20 13 53.29	-17 54 17.3		809	1993 OB ₇	1993 07 13.23750	20 17 28.02	-21 49 40.3		809
1993 OX ₅	1993 07 13.23750	20 13 52.34	-17 54 17.5		809	1993 OH ₇	1993 07 13.21111	20 19 57.50	-19 22 45.6	18.0	809
1993 OZ ₅	1993 07 13.21111	20 13 08.29	-20 48 50.2	18.2	809	1993 OH ₇	1993 07 13.22431	20 19 56.73	-19 22 49.6		809
1993 OZ ₅	1993 07 13.22431	20 13 07.50	-20 48 51.8		809	1993 OH ₇	1993 07 13.23750	20 19 55.95	-19 22 53.6		809
1993 OZ ₅	1993 07 13.23750	20 13 06.75	-20 48 53.8		809	1993 OJ ₇	1993 07 13.21111	20 20 32.04	-19 32 09.1	18.0	809
1993 OA ₆	1993 07 13.21111	20 12 30.58	-20 51 36.6	18.6	809	1993 OJ ₇	1993 07 13.22431	20 20 31.21	-19 32 10.1		809
1993 OA ₆	1993 07 13.22431	20 12 29.94	-20 51 40.9		809	1993 OJ ₇	1993 07 13.23750	20 20 30.36	-19 32 10.6		809
1993 OA ₆	1993 07 13.23750	20 12 29.15	-20 51 46.4		809	1993 OK ₇	1993 07 13.21111	20 19 46.81	-21 03 46.1	18.5	809
1993 OD ₆	1993 07 13.21111	20 14 33.28	-20 06 07.6	18.2	809	1993 OK ₇	1993 07 13.22431	20 19 45.98	-21 03 48.0		809
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1993 OE ₆	1993 07 13.21111	20 13 34.18	-18 38 39.3	18.4	809	1993 ON ₇	1993 07 13.22431	20 03 05.83	-18 39 19.7		809
1993 OE ₆	1993 07 13.22431	20 13 33.49	-18 38 45.0		809	1993 ON ₇	1993 07 13.23750	20 03 05.01	-18 39 18.5		809
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1993 OF ₆	1993 07 13.21111	20 14 49.35	-20 21 24.1	18.4	809	1993 OO ₇	1993 07 13.22431	20 04 50.37	-18 42 45.2		809
1993 OF ₆	1993 07 13.22431	20 14 48.55	-20 21 26.3		809	1993 OO ₇	1993 07 13.23750	20 04 49.46	-18 42 43.7		809
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1993 OG ₆	1993 07 13.21111	20 14 53.44	-19 33 02.2	18.3	809	1993 OP ₇	1993 07 13.22431	20 11 44.82	-18 10 16.3		809
1993 OG ₆	1993 07 13.22431	20 14 52.61	-19 33 03.4		809	1993 OP ₇	1993 07 13.23750	20 11 44.20	-18 10 25.0		809
1993 OG ₆	1993 07 13.23750	20 14 51.91	-19 33 05.3		809	1993 OS ₇	1993 07 12.22708	19 45 50.56	-20 14 57.2	18.2	809
1993 OH ₆	1993 07 13.21111	20 15 52.00	-19 01 12.8	18.4	809	1993 OS ₇	1993 07 12.24028	19 45 49.78	-20 15 03.8		809
1993 OH ₆	1993 07 13.22431	20 15 51.23	-19 01 16.2		809	1993 OS ₇	1993 07 12.25347	19 45 48.96	-20 15 10.9		809
1993 OH ₆	1993 07 13.23750	20 15 50.40	-19 01 21.1		809	1993 OS ₇	1993 07 19.19028	19 39 24.15	-21 12 40.3	17.8	809
1993 OJ ₆	1993 07 13.21111	20 14 32.23	-20 49 03.2	18.4	809	1993 OS ₇	1993 07 19.20347	19 39 23.36	-21 12 46.6		809
1993 OJ ₆	1993 07 13.22431	20 14 31.56	-20 49 08.1		809	1993 OS ₇	1993 07 19.21667	19 39 22.48	-21 12 54.5		809
1993 OJ ₆	1993 07 13.23750	20 14 30.86	-20 49 12.6		809	1993 OU ₇	1993 07 12.22708	19 46 16.64	-18 36 28.6	18.2	809
1993 OK ₆	1993 07 13.21111	20 15 17.38	-20 32 08.2	18.2	809	1993 OU ₇	1993 07 12.24028	19 46 15.81	-18 36 31.4		809
1993 OK ₆	1993 07 13.22431	20 15 16.61	-20 32 12.8		809	1993 OU ₇	1993 07 12.25347	19 46 15.06	-18 36 32.6		809
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1993 OU ₇	1993 07 19.20347	19 39 57.55	-18 55 32.9		809	1993 OQ ₈	1993 07 19.21667	19 43 54.29	-21 47 04.7		809
1993 OU ₇	1993 07 19.21667	19 39 56.81	-18 55 34.7		809	1993 OT ₈	1993 07 19.19028	19 44 22.09	-19 40 18.0	18.3	809
1993 OX ₇	1993 07 19.19028	19 40 47.73	-18 11 14.3	18.1	809	1993 OT ₈	1993 07 19.20347	19 44 21.47	-19 40 20.2		809
1993 OX ₇	1993 07 19.20347	19 40 46.90	-18 11 20.2		809	1993 OT ₈	1993 07 19.21667	19 44 20.73	-19 40 22.9		809
1993 OX ₇	1993 07 19.21667	19 40 46.09	-18 11 26.1		809	1993 OX ₈	1993 07 19.19028	19 44 52.02	-19 51 08.6	18.0	809
1993 OA ₈	1993 07 12.22708	19 48 37.62	-22 26 38.9	18.3	809	1993 OX ₈	1993 07 19.20347	19 44 51.35	-19 51 14.6		809
1993 OA ₈	1993 07 12.24028	19 48 36.73	-22 26 37.2		809	1993 OX ₈	1993 07 19.21667	19 44 50.68	-19 51 21.3		809
1993 OA ₈	1993 07 12.25347	19 48 35.87	-22 26 35.2		809	1993 OK ₁₀	1993 07 13.21111	19 59 41.07	-19 05 09.1	18.0	809
1993 OA ₈	1993 07 19.19028	19 41 31.04	-22 14 21.8	18.3	809	1993 OK ₁₀	1993 07 13.22431	19 59 40.22	-19 05 08.9		809
1993 OA ₈	1993 07 19.20347	19 41 30.19	-22 14 20.3		809	1993 OK ₁₀	1993 07 13.23750	19 59 39.24	-19 05 08.5		809
1993 OA ₈	1993 07 19.21667	19 41 29.29	-22 14 19.6		809	1993 OY ₁₀	1993 07 13.21111	20 00 40.47	-20 27 19.4	18.5	809
1993 OB ₈	1993 07 19.19028	19 41 24.12	-22 36 54.1	18.2	809	1993 OY ₁₀	1993 07 13.22431	20 00 39.73	-20 27 21.8		809
1993 OB ₈	1993 07 19.20347	19 41 23.31	-22 36 55.1		809	1993 OY ₁₀	1993 07 13.23750	20 00 39.08	-20 27 24.6		809
1993 OB ₈	1993 07 19.21667	19 41 22.58	-22 36 57.3		809	1993 OA ₁₁	1993 07 13.21111	20 02 32.61	-18 11 11.4	18.5	809
1993 OF ₈	1993 07 12.22708	19 49 31.05	-20 42 01.4	18.7	809	1993 OA ₁₁	1993 07 13.22431	20 02 31.74	-18 11 12.6		809
1993 OF ₈	1993 07 12.24028	19 49 30.13	-20 41 59.4		809	1993 OA ₁₁	1993 07 13.23750	20 02 30.91	-18 11 14.2		809
1993 OF ₈	1993 07 12.25347	19 49 29.33	-20 41 59.6		809	1993 OE ₁₁	1993 07 13.21111	20 03 47.61	-21 04 27.9	18.5	809
1993 OF ₈	1993 07 19.19028	19 42 23.98	-20 33 16.1	18.4	809	1993 OE ₁₁	1993 07 13.22431	20 03 46.83	-21 04 32.4		809
1993 OF ₈	1993 07 19.20347	19 42 23.05	-20 33 15.2		809	1993 OE ₁₁	1993 07 13.23750	20 03 46.12	-21 04 36.4		809
1993 OF ₈	1993 07 19.21667	19 42 22.24	-20 33 14.0		809	1993 OJ ₁₁	* 1993 07 19.13958	19 09 47.13	-22 00 00.2	18.3	809
1993 OG ₈	1993 07 19.19028	19 42 39.72	-20 52 52.5	18.4	809	1993 OJ ₁₁	1993 07 19.15278	19 09 46.53	-22 00 02.1		809
1993 OG ₈	1993 07 19.20347	19 42 38.93	-20 52 55.3		809	1993 OJ ₁₁	1993 07 19.16597	19 09 45.92	-22 00 04.6		809
1993 OG ₈	1993 07 19.21667	19 42 38.24	-20 52 59.0		809	1993 OJ ₁₁	1993 07 23.12708	19 06 27.68	-22 09 26.1		809
1993 OJ ₈	1993 07 12.22708	19 49 26.84	-18 36 28.5	18.1	809	1993 OJ ₁₁	1993 07 23.14028	19 06 27.11	-22 09 28.0		809
1993 OJ ₈	1993 07 12.24028	19 49 26.06	-18 36 29.9		809	1993 OJ ₁₁	1993 07 23.15347	19 06 26.40	-22 09 30.1		809
1993 OJ ₈	1993 07 12.25347	19 49 25.20	-18 36 32.1		809	1993 OK ₁₁	* 1993 07 19.13958	19 10 09.56	-22 11 29.6	18.2	809
1993 OJ ₈	1993 07 19.19028	19 42 55.92	-18 50 16.0	18.0	809	1993 OK ₁₁	1993 07 19.15278	19 10 08.73	-22 11 30.4		809
1993 OJ ₈	1993 07 19.20347	19 42 55.14	-18 50 17.8		809	1993 OK ₁₁	1993 07 19.16597	19 10 07.95	-22 11 31.0		809
1993 OJ ₈	1993 07 19.21667	19 42 54.37	-18 50 18.8		809	1993 OK ₁₁	1993 07 23.12708	19 06 29.53	-22 14 37.5		809
1993 OL ₈	1993 07 12.22708	19 48 44.39	-19 08 48.8	18.3	809	1993 OK ₁₁	1993 07 23.14028	19 06 28.79	-22 14 37.3		809
1993 OL ₈	1993 07 12.24028	19 48 43.69	-19 08 57.7		809	1993 OK ₁₁	1993 07 23.15347	19 06 28.01	-22 14 38.1		809
1993 OL ₈	1993 07 12.25347	19 48 43.05	-19 09 05.4		809	1993 OL ₁₁	1993 07 12.08125	19 16 38.48	-19 37 04.6	18.3	809
1993 OL ₈	1993 07 19.19028	19 43 15.08	-20 21 49.9	18.3	809	1993 OL ₁₁	1993 07 12.09444	19 16 37.74	-19 37 04.1		809
1993 OL ₈	1993 07 19.20347	19 43 14.42	-20 21 57.6		809	1993 OL ₁₁	1993 07 12.10764	19 16 36.97	-19 37 03.6		809
1993 OL ₈	1993 07 19.21667	19 43 13.76	-20 22 06.8		809	1993 OL ₁₁	* 1993 07 19.13958	19 10 19.55	-19 29 23.4	18.3	809
1993 OM ₈	1993 07 12.22708	19 49 17.33	-18 01 18.8	18.4	809	1993 OL ₁₁	1993 07 19.15278	19 10 18.84	-19 29 24.2		809
1993 OM ₈	1993 07 12.24028	19 49 16.65	-18 01 20.3		809	1993 OL ₁₁	1993 07 19.16597	19 10 18.09	-19 29 23.2		809
1993 OM ₈	1993 07 12.25347	19 49 15.94	-18 01 21.8		809	1993 OM ₁₁	* 1993 07 19.13958	19 10 55.05	-19 45 05.7	18.2	809
1993 OM ₈	1993 07 19.19028	19 43 31.30	-18 15 49.0	18.3	809	1993 OM ₁₁	1993 07 19.15278	19 10 54.28	-19 45 09.4		809
1993 OM ₈	1993 07 19.20347	19 43 30.63	-18 15 50.8		809	1993 OM ₁₁	1993 07 19.16597	19 10 53.39	-19 45 12.5		809
1993 OM ₈	1993 07 19.21667	19 43 29.93	-18 15 52.4		809	1993 OM ₁₁	1993 07 23.12708	19 06 53.22	-20 00 52.9		809
1993 ON ₈	1993 07 12.22708	19 51 06.76	-21 35 03.7	18.2	809	1993 OM ₁₁	1993 07 23.14028	19 06 52.33	-20 00 56.2		809
1993 ON ₈	1993 07 12.24028	19 51 05.96	-21 35 07.1		809	1993 OM ₁₁	1993 07 23.15347	19 06 51.61	-20 00 59.2		809
1993 ON ₈	1993 07 12.25347	19 51 05.15	-21 35 10.6		809	1993 ON ₁₁	1993 07 12.08125	19 19 02.55	-19 50 01.4	18.0	809
1993 ON ₈	1993 07 19.19028	19 43 54.49	-22 05 52.7	18.3	809	1993 ON ₁₁	1993 07 12.09444	19 19 01.76	-19 50 05.8		809
1993 ON ₈	1993 07 19.20347	19 43 53.57	-22 05 55.9		809	1993 ON ₁₁	1993 07 12.10764	19 19 00.91	-19 50 10.8		809
1993 ON ₈	1993 07 19.21667	19 43 52.68	-22 05 59.8		809	1993 ON ₁₁	* 1993 07 19.13958	19 12 06.97	-20 31 05.1	18.2	809
1993 OQ ₈	1993 07 12.22708	19 50 47.04	-21 18 27.8	18.3	809	1993 ON ₁₁	1993 07 19.15278	19 12 06.10	-20 31 10.3		809
1993 OQ ₈	1993 07 12.24028	19 50 46.20	-21 18 30.9		809	1993 ON ₁₁	1993 07 19.16597	19 12 05.37	-20 31 15.6		809
1993 OQ ₈	1993 07 12.25347	19 50 45.44	-21 18 34.4		809	1993 OO ₁₁	* 1993 07 19.13958	19 13 36.67	-19 56 31.2	18.4	809
1993 OQ ₈	1993 07 19.19028	19 43 55.88	-21 46 58.1	18.0	809	1993 OO ₁₁	1993 07 19.15278	19 13 36.00	-19 56 30.5		809
1993 OQ ₈	1993 07 19.20347	19 43 55.07	-21 47 00.9		809	1993 OO ₁₁	1993 07 19.16597	19 13 35.22	-19 56 30.5		809

1993 OO ₁₁	1993 07 23.12708	19 10 16.35	-19 54 25.8	18.4	809	1993 OX ₁₁	1993 07 19.15278	19 19 05.47	-22 43 23.0	809
1993 OO ₁₁	1993 07 23.14028	19 10 15.59	-19 54 24.8		809	1993 OX ₁₁	1993 07 19.16597	19 19 04.80	-22 43 23.5	809
1993 OO ₁₁	1993 07 23.15347	19 10 14.87	-19 54 25.1		809	1993 OX ₁₁	1993 07 23.12708	19 15 51.06	-22 46 36.2	809
1993 OP ₁₁	1993 07 12.08125	19 20 09.26	-21 16 36.0	18.3	809	1993 OX ₁₁	1993 07 23.14028	19 15 50.46	-22 46 36.5	809
1993 OP ₁₁	1993 07 12.09444	19 20 08.50	-21 16 35.0		809	1993 OX ₁₁	1993 07 23.15347	19 15 49.72	-22 46 37.4	809
1993 OP ₁₁	1993 07 12.10764	19 20 07.72	-21 16 33.6		809	1993 OY ₁₁	1993 07 12.08125	19 27 15.67	-22 43 06.9	18.5 809
1993 OP ₁₁	* 1993 07 19.13958	19 13 59.98	-21 02 56.4	18.3	809	1993 OY ₁₁	1993 07 12.09444	19 27 14.74	-22 43 07.2	809
1993 OP ₁₁	1993 07 19.15278	19 13 59.30	-21 02 54.7		809	1993 OY ₁₁	1993 07 12.10764	19 27 13.84	-22 43 07.0	809
1993 OP ₁₁	1993 07 19.16597	19 13 58.65	-21 02 53.7		809	1993 OY ₁₁	* 1993 07 19.13958	19 19 09.78	-22 38 25.2	18.4 809
1993 OQ ₁₁	* 1993 07 19.13958	19 14 01.43	-22 26 24.0	18.4	809	1993 OY ₁₁	1993 07 19.15278	19 19 08.92	-22 38 25.3	809
1993 OQ ₁₁	1993 07 19.15278	19 14 00.69	-22 26 27.5		809	1993 OY ₁₁	1993 07 19.16597	19 19 07.99	-22 38 23.9	809
1993 OQ ₁₁	1993 07 19.16597	19 14 00.02	-22 26 29.7		809	1993 OZ ₁₁	1993 07 12.08125	19 25 15.11	-22 06 24.5	18.4 809
1993 OQ ₁₁	1993 07 23.12708	19 10 35.10	-22 37 02.0		809	1993 OZ ₁₁	1993 07 12.09444	19 25 14.39	-22 06 29.2	809
1993 OQ ₁₁	1993 07 23.14028	19 10 34.44	-22 37 04.4		809	1993 OZ ₁₁	1993 07 12.10764	19 25 13.76	-22 06 32.3	809
1993 OQ ₁₁	1993 07 23.15347	19 10 33.87	-22 37 06.5		809	1993 OZ ₁₁	* 1993 07 19.13958	19 19 31.41	-22 35 47.9	18.3 809
1993 OR ₁₁	* 1993 07 19.13958	19 15 49.51	-20 36 29.0	18.2	809	1993 OZ ₁₁	1993 07 19.15278	19 19 30.74	-22 35 51.7	809
1993 OR ₁₁	1993 07 19.15278	19 15 48.79	-20 36 24.6		809	1993 OZ ₁₁	1993 07 19.16597	19 19 30.20	-22 35 54.0	809
1993 OR ₁₁	1993 07 19.16597	19 15 48.07	-20 36 20.3		809	1993 OA ₁₂	* 1993 07 19.13958	19 19 45.57	-18 39 48.8	18.3 809
1993 OR ₁₁	1993 07 23.12708	19 12 37.68	-20 14 48.3	18.3	809	1993 OA ₁₂	1993 07 19.15278	19 19 44.92	-18 39 49.7	809
1993 OR ₁₁	1993 07 23.14028	19 12 37.01	-20 14 44.0		809	1993 OA ₁₂	1993 07 19.16597	19 19 44.24	-18 39 52.0	809
1993 OR ₁₁	1993 07 23.15347	19 12 36.34	-20 14 40.5		809	1993 OA ₁₂	1993 07 23.12708	19 16 51.04	-18 47 44.9	809
1993 OS ₁₁	* 1993 07 19.13958	19 16 16.54	-21 30 02.6	18.3	809	1993 OA ₁₂	1993 07 23.14028	19 16 50.39	-18 47 46.0	809
1993 OS ₁₁	1993 07 19.15278	19 16 15.79	-21 30 03.9		809	1993 OA ₁₂	1993 07 23.15347	19 16 49.76	-18 47 48.6	809
1993 OS ₁₁	1993 07 19.16597	19 16 15.01	-21 30 06.4		809	1993 OB ₁₂	* 1993 07 19.13958	19 19 50.05	-19 39 15.1	18.5 809
1993 OS ₁₁	1993 07 23.12708	19 12 53.32	-21 40 06.0		809	1993 OB ₁₂	1993 07 19.15278	19 19 49.34	-19 39 16.5	809
1993 OS ₁₁	1993 07 23.14028	19 12 52.61	-21 40 07.0		809	1993 OB ₁₂	1993 07 19.16597	19 19 48.55	-19 39 18.5	809
1993 OS ₁₁	1993 07 23.15347	19 12 51.93	-21 40 10.2		809	1993 OB ₁₂	1993 07 23.12708	19 16 30.71	-19 49 25.1	809
1993 OT ₁₁	* 1993 07 19.13958	19 17 34.34	-22 10 24.8	18.5	809	1993 OB ₁₂	1993 07 23.14028	19 16 30.16	-19 49 26.1	809
1993 OT ₁₁	1993 07 19.15278	19 17 33.67	-22 10 23.8		809	1993 OB ₁₂	1993 07 23.15347	19 16 29.46	-19 49 29.9	809
1993 OT ₁₁	1993 07 19.16597	19 17 32.92	-22 10 23.1		809	1993 OC ₁₂	* 1993 07 19.13958	19 19 53.00	-20 00 47.1	18.2 809
1993 OT ₁₁	1993 07 23.12708	19 14 14.10	-22 05 47.6	18.3	809	1993 OC ₁₂	1993 07 19.15278	19 19 52.26	-20 00 50.2	809
1993 OT ₁₁	1993 07 23.14028	19 14 13.43	-22 05 46.2		809	1993 OC ₁₂	1993 07 19.16597	19 19 51.50	-20 00 53.7	809
1993 OT ₁₁	1993 07 23.15347	19 14 12.73	-22 05 46.2		809	1993 OC ₁₂	1993 07 23.12708	19 16 22.43	-20 16 51.6	18.4 809
1993 OU ₁₁	* 1993 07 19.13958	19 17 41.20	-22 33 46.3	18.4	809	1993 OC ₁₂	1993 07 23.14028	19 16 21.69	-20 16 56.1	809
1993 OU ₁₁	1993 07 19.15278	19 17 40.50	-22 33 47.9		809	1993 OC ₁₂	1993 07 23.15347	19 16 20.99	-20 16 59.1	809
1993 OU ₁₁	1993 07 19.16597	19 17 39.81	-22 33 48.9		809	1993 OD ₁₂	1993 07 12.08125	19 26 04.77	-22 04 15.6	18.5 809
1993 OU ₁₁	1993 07 23.12708	19 14 29.00	-22 40 20.8		809	1993 OD ₁₂	1993 07 12.09444	19 26 04.08	-22 04 17.2	809
1993 OU ₁₁	1993 07 23.14028	19 14 28.33	-22 40 22.8		809	1993 OD ₁₂	1993 07 12.10764	19 26 03.37	-22 04 18.2	809
1993 OU ₁₁	1993 07 23.15347	19 14 27.66	-22 40 23.3		809	1993 OD ₁₂	* 1993 07 19.13958	19 20 20.16	-22 15 46.5	18.4 809
1993 OV ₁₁	* 1993 07 19.13958	19 18 17.38	-19 43 46.2	18.1	809	1993 OD ₁₂	1993 07 19.15278	19 20 19.49	-22 15 47.2	809
1993 OV ₁₁	1993 07 19.15278	19 18 16.60	-19 43 43.5		809	1993 OD ₁₂	1993 07 19.16597	19 20 18.85	-22 15 47.8	809
1993 OV ₁₁	1993 07 19.16597	19 18 15.75	-19 43 41.3		809	1993 OE ₁₂	* 1993 07 19.13958	19 20 38.64	-20 04 19.3	18.5 809
1993 OV ₁₁	1993 07 23.12708	19 14 35.01	-19 29 52.6		809	1993 OE ₁₂	1993 07 19.15278	19 20 37.98	-20 04 21.1	809
1993 OV ₁₁	1993 07 23.14028	19 14 34.23	-19 29 50.0		809	1993 OE ₁₂	1993 07 19.16597	19 20 37.49	-20 04 20.7	809
1993 OV ₁₁	1993 07 23.15347	19 14 33.41	-19 29 47.1		809	1993 OE ₁₂	1993 07 23.12708	19 17 27.09	-20 09 35.2	809
1993 OW ₁₁	1993 07 12.08125	19 26 46.76	-21 56 06.8	18.4	809	1993 OE ₁₂	1993 07 23.14028	19 17 26.40	-20 09 34.9	809
1993 OW ₁₁	1993 07 12.09444	19 26 45.86	-21 56 07.1		809	1993 OE ₁₂	1993 07 23.15347	19 17 25.80	-20 09 37.0	809
1993 OW ₁₁	1993 07 12.10764	19 26 44.92	-21 56 08.1		809	1993 OF ₁₂	* 1993 07 19.13958	19 20 57.07	-22 18 04.6	18.0 809
1993 OW ₁₁	* 1993 07 19.13958	19 18 58.21	-21 56 21.7	18.4	809	1993 OF ₁₂	1993 07 19.15278	19 20 56.29	-22 18 08.8	809
1993 OW ₁₁	1993 07 19.15278	19 18 57.27	-21 56 22.6		809	1993 OF ₁₂	1993 07 19.16597	19 20 55.51	-22 18 12.1	809
1993 OW ₁₁	1993 07 19.16597	19 18 56.42	-21 56 22.8		809	1993 OF ₁₂	1993 07 23.12708	19 17 18.79	-22 37 53.6	809
1993 OX ₁₁	* 1993 07 19.13958	19 19 06.06	-22 43 22.6	18.3	809	1993 OF ₁₂	1993 07 23.14028	19 17 17.96	-22 37 57.3	809

1993 OF ₁₂	1993 07 23.15347	19 17 17.22	-22 38 01.3		809	1993 OO ₁₂	1993 07 12.22708	19 30 35.38	-21 42 30.8	18.3	809
1993 OG ₁₂	1993 07 12.08125	19 27 47.46	-21 40 47.7	18.1	809	1993 OO ₁₂	1993 07 12.24028	19 30 34.51	-21 42 33.6		809
1993 OG ₁₂	1993 07 12.09444	19 27 46.70	-21 40 51.9		809	1993 OO ₁₂	1993 07 12.25347	19 30 33.58	-21 42 36.6		809
1993 OG ₁₂	1993 07 12.10764	19 27 45.84	-21 40 56.7		809	1993 OO ₁₂	* 1993 07 19.13958	19 23 14.73	-22 06 21.7	18.5	809
1993 OG ₁₂	* 1993 07 19.13958	19 21 13.78	-22 26 58.3	18.4	809	1993 OO ₁₂	1993 07 19.15278	19 23 13.84	-22 06 23.3		809
1993 OG ₁₂	1993 07 19.15278	19 21 13.04	-22 27 03.8		809	1993 OO ₁₂	1993 07 19.16597	19 23 13.02	-22 06 26.3		809
1993 OG ₁₂	1993 07 19.16597	19 21 12.37	-22 27 08.9		809	1993 OP ₁₂	1993 07 12.08125	19 30 35.07	-18 35 50.7	18.1	809
1993 OH ₁₂	* 1993 07 19.13958	19 22 08.92	-19 03 04.7	18.0	809	1993 OP ₁₂	1993 07 12.09444	19 30 34.22	-18 35 53.2		809
1993 OH ₁₂	1993 07 19.15278	19 22 08.15	-19 03 05.8		809	1993 OP ₁₂	1993 07 12.10764	19 30 33.42	-18 35 55.4		809
1993 OH ₁₂	1993 07 19.16597	19 22 07.37	-19 03 06.8		809	1993 OP ₁₂	1993 07 12.22708	19 30 26.02	-18 36 24.5	18.3	809
1993 OH ₁₂	1993 07 23.12708	19 18 32.64	-19 06 39.8		809	1993 OP ₁₂	1993 07 12.24028	19 30 25.14	-18 36 26.8		809
1993 OH ₁₂	1993 07 23.14028	19 18 31.88	-19 06 40.0		809	1993 OP ₁₂	1993 07 12.25347	19 30 24.33	-18 36 28.9		809
1993 OH ₁₂	1993 07 23.15347	19 18 31.12	-19 06 40.4		809	1993 OP ₁₂	* 1993 07 19.13958	19 23 30.82	-18 59 26.1	18.2	809
1993 OJ ₁₂	* 1993 07 19.13958	19 22 40.15	-20 03 30.8	18.0	809	1993 OP ₁₂	1993 07 19.15278	19 23 30.03	-18 59 29.1		809
1993 OJ ₁₂	1993 07 19.15278	19 22 39.48	-20 03 30.4		809	1993 OP ₁₂	1993 07 19.16597	19 23 29.18	-18 59 32.2		809
1993 OJ ₁₂	1993 07 19.16597	19 22 38.74	-20 03 30.4		809	1993 OQ ₁₂	* 1993 07 19.13958	19 24 06.18	-18 12 27.4	18.3	809
1993 OJ ₁₂	1993 07 23.12708	19 19 31.50	-20 01 47.0		809	1993 OQ ₁₂	1993 07 19.15278	19 24 05.39	-18 12 30.9		809
1993 OJ ₁₂	1993 07 23.14028	19 19 30.83	-20 01 47.6		809	1993 OQ ₁₂	1993 07 19.16597	19 24 04.53	-18 12 33.5		809
1993 OJ ₁₂	1993 07 23.15347	19 19 30.16	-20 01 46.2		809	1993 OQ ₁₂	1993 07 23.12708	19 20 33.06	-18 25 26.0		809
1993 OK ₁₂	* 1993 07 19.13958	19 22 41.45	-20 17 54.0	18.5	809	1993 OQ ₁₂	1993 07 23.14028	19 20 32.31	-18 25 28.1		809
1993 OK ₁₂	1993 07 19.15278	19 22 40.63	-20 17 54.0		809	1993 OQ ₁₂	1993 07 23.15347	19 20 31.54	-18 25 31.7		809
1993 OK ₁₂	1993 07 19.16597	19 22 39.79	-20 17 54.8		809	1993 OQ ₁₂	1993 07 12.08125	19 32 06.92	-22 27 32.6	18.4	809
1993 OK ₁₂	1993 07 23.12708	19 18 55.53	-20 19 27.1		809	1993 OR ₁₂	1993 07 12.09444	19 32 06.12	-22 27 33.3		809
1993 OK ₁₂	1993 07 23.14028	19 18 54.80	-20 19 26.7		809	1993 OR ₁₂	1993 07 12.10764	19 32 05.13	-22 27 36.7		809
1993 OK ₁₂	1993 07 23.15347	19 18 54.00	-20 19 27.5		809	1993 OR ₁₂	* 1993 07 19.13958	19 24 12.75	-22 43 41.6	18.3	809
1993 OL ₁₂	* 1993 07 19.13958	19 22 42.16	-20 40 02.5	18.1	809	1993 OR ₁₂	1993 07 19.15278	19 24 11.90	-22 43 43.8		809
1993 OL ₁₂	1993 07 19.15278	19 22 41.21	-20 40 08.7		809	1993 OR ₁₂	1993 07 19.16597	19 24 10.87	-22 43 46.4		809
1993 OL ₁₂	1993 07 19.16597	19 22 40.35	-20 40 14.9		809	1993 OS ₁₂	1993 07 12.08125	19 30 47.33	-18 48 13.8	18.1	809
1993 OL ₁₂	1993 07 23.12708	19 18 39.72	-21 08 16.9		809	1993 OS ₁₂	1993 07 12.09444	19 30 46.58	-18 48 16.7		809
1993 OL ₁₂	1993 07 23.14028	19 18 38.84	-21 08 22.0		809	1993 OS ₁₂	1993 07 12.10764	19 30 45.83	-18 48 20.2		809
1993 OL ₁₂	1993 07 23.15347	19 18 38.06	-21 08 26.8		809	1993 OS ₁₂	1993 07 12.22708	19 30 39.02	-18 48 52.1	18.0	809
1993 OM ₁₂	* 1993 07 19.13958	19 23 01.85	-20 50 24.8	18.3	809	1993 OS ₁₂	1993 07 12.24028	19 30 38.18	-18 48 55.7		809
1993 OM ₁₂	1993 07 19.15278	19 23 01.04	-20 50 25.4		809	1993 OS ₁₂	1993 07 12.25347	19 30 37.47	-18 48 58.8		809
1993 OM ₁₂	1993 07 19.16597	19 23 00.16	-20 50 25.7		809	1993 OS ₁₂	* 1993 07 19.13958	19 24 21.28	-19 18 24.8	18.0	809
1993 OM ₁₂	1993 07 19.19028	19 22 58.61	-20 50 26.0	18.2	809	1993 OS ₁₂	1993 07 19.15278	19 24 20.59	-19 18 28.7		809
1993 OM ₁₂	1993 07 19.20347	19 22 57.76	-20 50 25.8		809	1993 OS ₁₂	1993 07 19.16597	19 24 19.81	-19 18 32.1		809
1993 OM ₁₂	1993 07 19.21667	19 22 56.97	-20 50 26.3		809	1993 OS ₁₂	1993 07 19.19028	19 24 18.37	-19 18 39.4	18.1	809
1993 OM ₁₂	1993 07 23.12708	19 19 06.49	-20 52 22.4		809	1993 OS ₁₂	1993 07 19.20347	19 24 17.58	-19 18 42.2		809
1993 OM ₁₂	1993 07 23.14028	19 19 05.64	-20 52 23.2		809	1993 OS ₁₂	1993 07 19.21667	19 24 16.84	-19 18 46.5		809
1993 OM ₁₂	1993 07 23.15347	19 19 04.86	-20 52 23.1		809	1993 OT ₁₂	1993 07 12.22708	19 33 34.74	-22 15 39.3	18.3	809
1993 ON ₁₂	* 1993 07 19.13958	19 23 11.21	-19 14 51.0	18.1	809	1993 OT ₁₂	1993 07 12.24028	19 33 33.65	-22 15 35.2		809
1993 ON ₁₂	1993 07 19.15278	19 23 10.37	-19 14 53.0		809	1993 OT ₁₂	1993 07 12.25347	19 33 32.77	-22 15 30.5		809
1993 ON ₁₂	1993 07 19.16597	19 23 09.67	-19 14 55.3		809	1993 OT ₁₂	* 1993 07 19.13958	19 24 53.45	-21 30 47.4	18.4	809
1993 ON ₁₂	1993 07 19.19028	19 23 08.25	-19 15 01.1	18.0	809	1993 OT ₁₂	1993 07 19.15278	19 24 52.42	-21 30 41.8		809
1993 ON ₁₂	1993 07 19.20347	19 23 07.52	-19 15 03.0		809	1993 OT ₁₂	1993 07 19.16597	19 24 51.57	-21 30 38.3		809
1993 ON ₁₂	1993 07 19.21667	19 23 06.84	-19 15 05.0		809	1993 OT ₁₂	1993 07 23.12708	19 19 57.41	-21 03 48.1		809
1993 ON ₁₂	1993 07 23.12708	19 19 47.63	-19 24 01.3		809	1993 OT ₁₂	1993 07 23.14028	19 19 56.48	-21 03 43.3		809
1993 ON ₁₂	1993 07 23.14028	19 19 46.93	-19 24 03.1		809	1993 OT ₁₂	1993 07 23.15347	19 19 55.48	-21 03 37.8		809
1993 ON ₁₂	1993 07 23.15347	19 19 46.25	-19 24 04.8		809	1993 OU ₁₂	1993 07 12.08125	19 31 50.43	-18 14 47.3	18.2	809
1993 OO ₁₂	1993 07 12.08125	19 30 45.27	-21 42 00.9	18.4	809	1993 OU ₁₂	1993 07 12.09444	19 31 49.76	-18 14 47.7		809
1993 OO ₁₂	1993 07 12.09444	19 30 44.33	-21 42 05.0		809	1993 OU ₁₂	1993 07 12.10764	19 31 48.89	-18 14 47.5		809
1993 OO ₁₂	1993 07 12.10764	19 30 43.47	-21 42 07.6		809	1993 OU ₁₂	1993 07 12.22708	19 31 42.33	-18 14 51.5	18.1	809

1993 OU ₁₂	1993 07 12.24028	19 31 41.59	-18 14 50.6		809	1993 OY ₁₂	1993 07 19.21667	19 26 09.15	-19 29 38.7		809
1993 OU ₁₂	1993 07 12.25347	19 31 40.83	-18 14 50.8		809	1993 OY ₁₂	1993 07 23.12708	19 22 07.86	-19 14 42.9		809
1993 OU ₁₂	* 1993 07 19.13958	19 25 24.46	-18 17 01.6	18.0	809	1993 OY ₁₂	1993 07 23.14028	19 22 07.08	-19 14 39.3		809
1993 OU ₁₂	1993 07 19.15278	19 25 23.71	-18 17 02.6		809	1993 OY ₁₂	1993 07 23.15347	19 22 06.23	-19 14 37.1		809
1993 OU ₁₂	1993 07 19.16597	19 25 22.92	-18 17 02.6		809	1993 OZ ₁₂	* 1993 07 19.13958	19 26 17.81	-18 22 50.2	18.1	809
1993 OU ₁₂	1993 07 19.19028	19 25 21.87	-18 17 03.3	18.0	809	1993 OZ ₁₂	1993 07 19.15278	19 26 17.00	-18 22 51.7		809
1993 OU ₁₂	1993 07 19.20347	19 25 21.10	-18 17 03.7		809	1993 OZ ₁₂	1993 07 19.16597	19 26 16.19	-18 22 54.4		809
1993 OU ₁₂	1993 07 19.21667	19 25 20.39	-18 17 04.3		809	1993 OZ ₁₂	1993 07 23.12708	19 22 31.91	-18 35 12.2		809
1993 OV ₁₂	1993 07 12.22708	19 32 37.36	-20 29 05.9	18.3	809	1993 OZ ₁₂	1993 07 23.14028	19 22 31.14	-18 35 14.5		809
1993 OV ₁₂	1993 07 12.24028	19 32 36.53	-20 29 05.0		809	1993 OZ ₁₂	1993 07 23.15347	19 22 30.42	-18 35 16.2		809
1993 OV ₁₂	1993 07 12.25347	19 32 35.67	-20 29 04.6		809	1993 OA ₁₃	1993 07 12.22708	19 34 25.39	-18 55 13.3	18.3	809
1993 OV ₁₂	* 1993 07 19.13958	19 25 42.57	-20 23 36.2	18.2	809	1993 OA ₁₃	1993 07 12.24028	19 34 24.59	-18 55 18.0		809
1993 OV ₁₂	1993 07 19.15278	19 25 41.80	-20 23 34.9		809	1993 OA ₁₃	1993 07 12.25347	19 34 23.71	-18 55 21.1		809
1993 OV ₁₂	1993 07 19.16597	19 25 40.99	-20 23 34.8		809	1993 OA ₁₃	* 1993 07 19.13958	19 27 36.63	-19 29 35.7	18.2	809
1993 OV ₁₂	1993 07 19.19028	19 25 39.20	-20 23 33.2	18.1	809	1993 OA ₁₃	1993 07 19.15278	19 27 35.83	-19 29 40.1		809
1993 OV ₁₂	1993 07 19.20347	19 25 38.37	-20 23 32.9		809	1993 OA ₁₃	1993 07 19.16597	19 27 35.05	-19 29 44.0		809
1993 OV ₁₂	1993 07 19.21667	19 25 37.56	-20 23 32.8		809	1993 OA ₁₃	1993 07 19.19028	19 27 33.48	-19 29 48.6	18.2	809
1993 OV ₁₂	1993 07 23.12708	19 21 53.83	-20 20 11.9		809	1993 OA ₁₃	1993 07 19.20347	19 27 32.61	-19 29 52.2		809
1993 OV ₁₂	1993 07 23.14028	19 21 53.04	-20 20 11.4		809	1993 OA ₁₃	1993 07 19.21667	19 27 31.78	-19 29 56.7		809
1993 OV ₁₂	1993 07 23.15347	19 21 52.26	-20 20 10.9		809	1993 OA ₁₃	1993 07 23.12708	19 23 46.76	-19 49 10.9		809
1993 OW ₁₂	1993 07 12.08125	19 32 28.40	-19 34 39.8	18.6	809	1993 OA ₁₃	1993 07 23.14028	19 23 46.02	-19 49 14.4		809
1993 OW ₁₂	1993 07 12.09444	19 32 27.74	-19 34 41.1		809	1993 OA ₁₃	1993 07 23.15347	19 23 45.25	-19 49 18.2		809
1993 OW ₁₂	1993 07 12.10764	19 32 26.94	-19 34 43.9		809	1993 OB ₁₃	1993 07 12.08125	19 33 36.68	-18 31 45.8	18.3	809
1993 OW ₁₂	1993 07 12.22708	19 32 19.92	-19 34 59.5	18.5	809	1993 OB ₁₃	1993 07 12.09444	19 33 36.05	-18 31 47.8		809
1993 OW ₁₂	1993 07 12.24028	19 32 19.12	-19 35 01.6		809	1993 OB ₁₃	1993 07 12.10764	19 33 35.33	-18 31 48.9		809
1993 OW ₁₂	1993 07 12.25347	19 32 18.19	-19 35 04.9		809	1993 OB ₁₃	1993 07 12.22708	19 33 29.17	-18 32 04.7	18.2	809
1993 OW ₁₂	* 1993 07 19.13958	19 25 49.96	-19 50 35.8	18.5	809	1993 OB ₁₃	1993 07 12.24028	19 33 28.52	-18 32 05.6		809
1993 OW ₁₂	1993 07 19.15278	19 25 49.25	-19 50 37.9		809	1993 OB ₁₃	1993 07 12.25347	19 33 27.76	-18 32 07.8		809
1993 OW ₁₂	1993 07 19.16597	19 25 48.41	-19 50 39.2		809	1993 OB ₁₃	* 1993 07 19.13958	19 27 37.68	-18 48 11.1	18.0	809
1993 OW ₁₂	1993 07 19.19028	19 25 47.09	-19 50 38.9	18.4	809	1993 OB ₁₃	1993 07 19.15278	19 27 36.98	-18 48 12.0		809
1993 OW ₁₂	1993 07 19.20347	19 25 46.30	-19 50 40.9		809	1993 OB ₁₃	1993 07 19.16597	19 27 36.30	-18 48 14.6		809
1993 OW ₁₂	1993 07 19.21667	19 25 45.51	-19 50 42.6		809	1993 OB ₁₃	1993 07 19.19028	19 27 35.48	-18 48 11.2	18.2	809
1993 OX ₁₂	1993 07 12.08125	19 32 07.46	-22 19 56.1	18.5	809	1993 OB ₁₃	1993 07 19.20347	19 27 34.79	-18 48 12.8		809
1993 OX ₁₂	1993 07 12.09444	19 32 06.71	-22 19 58.9		809	1993 OB ₁₃	1993 07 19.21667	19 27 34.09	-18 48 15.0		809
1993 OX ₁₂	1993 07 12.10764	19 32 06.08	-22 20 02.8		809	1993 OB ₁₃	1993 07 23.12708	19 24 20.60	-18 57 33.6		809
1993 OX ₁₂	1993 07 12.22708	19 31 59.93	-22 20 29.4	18.5	809	1993 OB ₁₃	1993 07 23.14028	19 24 19.97	-18 57 35.3		809
1993 OX ₁₂	1993 07 12.24028	19 31 59.17	-22 20 32.8		809	1993 OB ₁₃	1993 07 23.15347	19 24 19.30	-18 57 36.7		809
1993 OX ₁₂	1993 07 12.25347	19 31 58.48	-22 20 35.1		809	1993 OC ₁₃	* 1993 07 19.13958	19 27 49.50	-19 34 39.5	18.5	809
1993 OX ₁₂	* 1993 07 19.13958	19 26 11.94	-22 46 23.0	18.4	809	1993 OC ₁₃	1993 07 19.15278	19 27 48.65	-19 34 41.6		809
1993 OX ₁₂	1993 07 19.15278	19 26 11.18	-22 46 26.2		809	1993 OC ₁₃	1993 07 19.16597	19 27 47.87	-19 34 42.7		809
1993 OX ₁₂	1993 07 19.16597	19 26 10.62	-22 46 29.1		809	1993 OC ₁₃	1993 07 19.19028	19 27 46.41	-19 34 42.3	18.3	809
1993 OX ₁₂	1993 07 19.19028	19 26 09.61	-22 46 31.8	18.4	809	1993 OC ₁₃	1993 07 19.20347	19 27 45.57	-19 34 43.6		809
1993 OX ₁₂	1993 07 19.20347	19 26 08.85	-22 46 35.0		809	1993 OC ₁₃	1993 07 19.21667	19 27 44.75	-19 34 45.6		809
1993 OX ₁₂	1993 07 19.21667	19 26 08.15	-22 46 37.2		809	1993 OC ₁₃	1993 07 23.12708	19 24 08.28	-19 43 21.0		809
1993 OY ₁₂	1993 07 12.22708	19 33 38.09	-19 56 34.3	18.1	809	1993 OC ₁₃	1993 07 23.14028	19 24 07.67	-19 43 21.1		809
1993 OY ₁₂	1993 07 12.24028	19 33 37.19	-19 56 31.6		809	1993 OC ₁₃	1993 07 23.15347	19 24 06.86	-19 43 24.2		809
1993 OY ₁₂	1993 07 12.25347	19 33 36.27	-19 56 28.4		809	1993 OD ₁₃	* 1993 07 19.13958	19 28 05.31	-21 49 35.0	18.5	809
1993 OY ₁₂	* 1993 07 19.13958	19 26 14.31	-19 29 56.7	18.0	809	1993 OD ₁₃	1993 07 19.15278	19 28 04.53	-21 49 39.1		809
1993 OY ₁₂	1993 07 19.15278	19 26 13.43	-19 29 53.4		809	1993 OD ₁₃	1993 07 19.16597	19 28 03.80	-21 49 42.9		809
1993 OY ₁₂	1993 07 19.16597	19 26 12.59	-19 29 50.7		809	1993 OD ₁₃	1993 07 19.19028	19 28 02.44	-21 49 47.2	18.4	809
1993 OY ₁₂	1993 07 19.19028	19 26 10.91	-19 29 44.4	18.1	809	1993 OD ₁₃	1993 07 19.20347	19 28 01.57	-21 49 52.1		809
1993 OY ₁₂	1993 07 19.20347	19 26 10.01	-19 29 41.0		809	1993 OD ₁₃	1993 07 19.21667	19 28 00.86	-21 49 55.8		809

1993 OD ₁₃	1993 07 23.12708	19 24 33.60	-22 08 21.1		809	1993 OJ ₁₃	1993 07 23.14028	19 11 46.32	-22 36 57.0		809
1993 OD ₁₃	1993 07 23.14028	19 24 32.94	-22 08 25.1		809	1993 OJ ₁₃	1993 07 23.15347	19 11 45.61	-22 36 56.7		809
1993 OD ₁₃	1993 07 23.15347	19 24 32.16	-22 08 28.9		809	1993 OK ₁₃	1993 07 12.08125	19 26 39.13	-21 25 35.9	18.4	809
1993 OE ₁₃	1993 07 12.22708	19 35 00.36	-19 35 19.2	18.0	809	1993 OK ₁₃	1993 07 12.09444	19 26 38.46	-21 25 40.3		809
1993 OE ₁₃	1993 07 12.24028	19 34 59.52	-19 35 24.5		809	1993 OK ₁₃	1993 07 12.10764	19 26 37.83	-21 25 44.2		809
1993 OE ₁₃	1993 07 12.25347	19 34 58.74	-19 35 28.7		809	1993 OK ₁₃	* 1993 07 23.12708	19 17 40.10	-22 21 15.3	18.4	809
1993 OE ₁₃	* 1993 07 19.13958	19 28 19.58	-20 17 44.3	18.0	809	1993 OK ₁₃	1993 07 23.14028	19 17 39.37	-22 21 19.0		809
1993 OE ₁₃	1993 07 19.15278	19 28 18.77	-20 17 49.2		809	1993 OK ₁₃	1993 07 23.15347	19 17 38.77	-22 21 23.8		809
1993 OE ₁₃	1993 07 19.16597	19 28 18.01	-20 17 54.4		809	4019 P-L	1993 05 23.20764	16 29 26.91	-22 53 58.6	18.1	809
1993 OE ₁₃	1993 07 19.19028	19 28 16.48	-20 18 00.5	18.0	809	4019 P-L	1993 05 23.22083	16 29 26.07	-22 53 56.4		809
1993 OE ₁₃	1993 07 19.20347	19 28 15.70	-20 18 05.5		809	4019 P-L	1993 05 23.23403	16 29 25.27	-22 53 53.6		809
1993 OE ₁₃	1993 07 19.21667	19 28 14.90	-20 18 09.7		809	4247 P-L	1993 05 23.20764	16 29 50.03	-22 22 37.0	18.2	809
1993 OE ₁₃	1993 07 23.12708	19 24 36.06	-20 41 45.6	18.1	809	4247 P-L	1993 05 23.22083	16 29 49.26	-22 22 34.1		809
1993 OE ₁₃	1993 07 23.14028	19 24 35.27	-20 41 49.2		809	4247 P-L	1993 05 23.23403	16 29 48.44	-22 22 31.9		809
1993 OE ₁₃	1993 07 23.15347	19 24 34.53	-20 41 54.4		809	9511 P-L	1993 07 13.21111	20 02 26.44	-19 30 17.3	18.0	809
1993 OF ₁₃	1993 07 12.22708	19 34 10.74	-21 56 22.2	18.3	809	9511 P-L	1993 07 13.22431	20 02 25.81	-19 30 19.4		809
1993 OF ₁₃	1993 07 12.24028	19 34 09.94	-21 56 22.7		809	9511 P-L	1993 07 13.23750	20 02 25.06	-19 30 21.4		809
1993 OF ₁₃	1993 07 12.25347	19 34 09.27	-21 56 23.7		809	4086 T-3	1993 07 12.08125	19 26 27.34	-21 38 50.8	18.1	809
1993 OF ₁₃	* 1993 07 19.13958	19 28 21.02	-22 04 22.1	18.3	809	4086 T-3	1993 07 12.09444	19 26 26.61	-21 38 56.6		809
1993 OF ₁₃	1993 07 19.15278	19 28 20.29	-22 04 23.1		809	4086 T-3	1993 07 12.10764	19 26 25.78	-21 39 00.9		809
1993 OF ₁₃	1993 07 19.16597	19 28 19.68	-22 04 24.0		809	4086 T-3	1993 07 19.13958	19 19 55.61	-22 19 15.8	18.3	809
1993 OF ₁₃	1993 07 19.19028	19 28 18.41	-22 04 27.3	18.1	809	4086 T-3	1993 07 19.15278	19 19 54.95	-22 19 19.2		809
1993 OF ₁₃	1993 07 19.20347	19 28 17.68	-22 04 28.6		809	4086 T-3	1993 07 19.16597	19 19 54.04	-22 19 25.4		809
1993 OF ₁₃	1993 07 19.21667	19 28 16.96	-22 04 29.4		809	(149)	1993 05 23.20764	16 29 34.17	-20 08 15.9	16.0	809
1993 OF ₁₃	1993 07 23.12708	19 25 05.17	-22 08 24.7	18.3	809	(149)	1993 05 23.22083	16 29 33.26	-20 08 13.8		809
1993 OF ₁₃	1993 07 23.14028	19 25 04.44	-22 08 25.4		809	(149)	1993 05 23.23403	16 29 32.30	-20 08 12.3		809
1993 OF ₁₃	1993 07 23.15347	19 25 03.85	-22 08 26.6		809	(263)	1993 07 13.21111	20 06 57.31	-18 11 43.3	16.0	809
1993 OG ₁₃	1993 07 12.22708	19 36 42.59	-22 10 52.3	18.3	809	(263)	1993 07 13.22431	20 06 56.61	-18 11 45.0		809
1993 OG ₁₃	1993 07 12.24028	19 36 41.65	-22 10 54.4		809	(263)	1993 07 13.23750	20 06 55.86	-18 11 47.1		809
1993 OG ₁₃	1993 07 12.25347	19 36 40.81	-22 10 54.9		809	(296)	1993 07 13.21111	20 09 37.22	-19 45 04.2	17.0	809
1993 OG ₁₃	* 1993 07 19.13958	19 29 21.77	-22 22 53.6	18.3	809	(296)	1993 07 13.22431	20 09 36.35	-19 45 08.2		809
1993 OG ₁₃	1993 07 19.15278	19 29 20.83	-22 22 53.5		809	(296)	1993 07 13.23750	20 09 35.48	-19 45 11.9		809
1993 OG ₁₃	1993 07 19.16597	19 29 19.98	-22 22 55.4		809	(523)	1993 07 12.08125	19 25 01.55	-19 02 40.3	16.8	809
1993 OG ₁₃	1993 07 23.12708	19 25 11.01	-22 29 03.2	18.3	809	(523)	1993 07 12.09444	19 25 00.80	-19 02 41.1		809
1993 OG ₁₃	1993 07 23.14028	19 25 10.20	-22 29 04.8		809	(523)	1993 07 12.10764	19 25 00.12	-19 02 42.1		809
1993 OG ₁₃	1993 07 23.15347	19 25 09.28	-22 29 05.7		809	(523)	1993 07 19.13958	19 19 04.88	-19 09 25.2	17.7	809
1993 OH ₁₃	1993 07 12.22708	19 37 18.38	-19 53 42.0	18.5	809	(523)	1993 07 19.15278	19 19 04.11	-19 09 25.1		809
1993 OH ₁₃	1993 07 12.24028	19 37 17.52	-19 53 42.0		809	(523)	1993 07 19.16597	19 19 03.43	-19 09 26.2		809
1993 OH ₁₃	1993 07 12.25347	19 37 16.70	-19 53 41.2		809	(523)	1993 07 23.12708	19 15 48.87	-19 13 10.1		809
1993 OH ₁₃	* 1993 07 19.13958	19 29 46.19	-19 51 38.1	18.4	809	(523)	1993 07 23.14028	19 15 48.17	-19 13 10.9		809
1993 OH ₁₃	1993 07 19.15278	19 29 45.30	-19 51 38.0		809	(523)	1993 07 23.15347	19 15 47.49	-19 13 11.5		809
1993 OH ₁₃	1993 07 19.16597	19 29 44.44	-19 51 37.7		809	(548)	1993 07 12.22708	19 51 11.72	-21 31 57.9	16.0	809
1993 OH ₁₃	1993 07 19.19028	19 29 42.82	-19 51 33.7	18.3	809	(548)	1993 07 12.24028	19 51 10.85	-21 32 00.4		809
1993 OH ₁₃	1993 07 19.20347	19 29 41.93	-19 51 33.1		809	(548)	1993 07 12.25347	19 51 09.99	-21 32 04.3		809
1993 OH ₁₃	1993 07 19.21667	19 29 41.02	-19 51 32.3		809	(548)	1993 07 19.19028	19 43 43.06	-22 02 05.2	16.5	809
1993 OH ₁₃	1993 07 23.12708	19 25 33.07	-19 50 11.7		809	(548)	1993 07 19.20347	19 43 42.22	-22 02 07.8		809
1993 OH ₁₃	1993 07 23.14028	19 25 32.22	-19 50 10.5		809	(548)	1993 07 19.21667	19 43 41.27	-22 02 11.0		809
1993 OH ₁₃	1993 07 23.15347	19 25 31.44	-19 50 11.5		809	(703)	1993 07 19.13958	19 15 19.12	-17 46 45.8	17.8	809
1993 OJ ₁₃	1993 07 12.08125	19 22 31.32	-22 32 56.8	18.5	809	(703)	1993 07 19.15278	19 15 18.19	-17 46 47.5		809
1993 OJ ₁₃	1993 07 12.09444	19 22 30.47	-22 32 56.7		809	(703)	1993 07 19.16597	19 15 17.28	-17 46 48.0		809
1993 OJ ₁₃	1993 07 12.10764	19 22 29.54	-22 32 57.8		809	(720)	1993 05 23.20764	16 22 16.36	-23 22 00.7	16.0	809
1993 OJ ₁₃	* 1993 07 23.12708	19 11 47.08	-22 36 56.3	18.4	809	(720)	1993 05 23.22083	16 22 15.51	-23 21 59.6		809

(720)	1993 05 23.23403	16 22 14.77	-23 21 59.0		809	(1756)	1993 07 23.12708	19 08 42.34	-22 29 07.5		809
(742)	1993 05 23.20764	16 12 25.56	-21 01 23.2	16.5	809	(1756)	1993 07 23.14028	19 08 41.51	-22 29 07.1		809
(742)	1993 05 23.22083	16 12 24.72	-21 01 23.9		809	(1756)	1993 07 23.15347	19 08 40.69	-22 29 07.0		809
(742)	1993 05 23.23403	16 12 23.98	-21 01 24.1		809	(1792)	1993 05 23.20764	16 15 56.45	-19 21 28.2	18.2	809
(758)	1993 07 12.08125	19 33 18.88	-22 21 08.7	14.5	809	(1792)	1993 05 23.22083	16 15 55.66	-19 21 27.4		809
(758)	1993 07 12.09444	19 33 18.14	-22 21 11.2		809	(1792)	1993 05 23.23403	16 15 54.95	-19 21 27.8		809
(758)	1993 07 12.10764	19 33 17.47	-22 21 13.7		809	(2240)	1993 07 12.22708	19 34 43.07	-22 34 43.0	18.3	809
(758)	1993 07 12.22708	19 33 11.72	-22 21 34.1	16.0	809	(2240)	1993 07 12.24028	19 34 42.33	-22 34 45.1		809
(758)	1993 07 12.24028	19 33 11.00	-22 21 37.3		809	(2240)	1993 07 12.25347	19 34 41.68	-22 34 46.0		809
(758)	1993 07 12.25347	19 33 10.30	-22 21 38.7		809	(2240)	1993 07 19.19028	19 29 04.37	-22 47 40.7	18.3	809
(758)	1993 07 19.13958	19 27 37.62	-22 41 45.2	15.0	809	(2240)	1993 07 19.20347	19 29 03.75	-22 47 42.8		809
(758)	1993 07 19.15278	19 27 36.86	-22 41 48.0		809	(2240)	1993 07 19.21667	19 29 03.04	-22 47 44.1		809
(758)	1993 07 19.16597	19 27 36.15	-22 41 50.0		809	(2398)	1993 05 23.20764	16 31 25.47	-19 42 31.6	18.1	809
(758)	1993 07 19.19028	19 27 35.26	-22 41 52.5	15.0	809	(2398)	1993 05 23.22083	16 31 24.54	-19 42 30.2		809
(758)	1993 07 19.20347	19 27 34.55	-22 41 55.5		809	(2398)	1993 05 23.23403	16 31 23.78	-19 42 29.8		809
(758)	1993 07 19.21667	19 27 33.90	-22 41 57.5		809	(2458)	1993 07 13.21111	20 20 22.90	-18 56 46.6	17.5	809
(877)	1993 07 12.08125	19 17 07.60	-21 16 29.4	15.0	809	(2458)	1993 07 13.22431	20 20 22.25	-18 56 49.9		809
(877)	1993 07 12.09444	19 17 06.79	-21 16 32.9		809	(2458)	1993 07 13.23750	20 20 21.57	-18 56 52.7		809
(877)	1993 07 12.10764	19 17 05.99	-21 16 35.9		809	(2462)	1993 07 13.21111	20 10 22.59	-21 28 54.6	18.3	809
(877)	1993 07 19.13958	19 10 01.95	-21 42 01.1	16.8	809	(2462)	1993 07 13.22431	20 10 21.83	-21 28 57.8		809
(877)	1993 07 19.15278	19 10 01.09	-21 42 04.4		809	(2462)	1993 07 13.23750	20 10 20.98	-21 29 01.1		809
(877)	1993 07 19.16597	19 10 00.28	-21 42 06.6		809	(2627)	1993 05 23.20764	16 16 40.28	-18 50 01.8	18.2	809
(877)	1993 07 23.12708	19 06 10.32	-21 55 48.4		809	(2627)	1993 05 23.22083	16 16 39.67	-18 50 00.4		809
(877)	1993 07 23.14028	19 06 09.48	-21 55 51.4		809	(2627)	1993 05 23.23403	16 16 39.11	-18 50 00.2		809
(877)	1993 07 23.15347	19 06 08.68	-21 55 54.1		809	(2647)	1993 07 12.22708	19 33 21.57	-21 42 21.5	17.5	809
(954)	1993 07 12.08125	19 29 23.35	-20 20 28.3	16.0	809	(2647)	1993 07 12.24028	19 33 20.62	-21 42 21.8		809
(954)	1993 07 12.09444	19 29 22.63	-20 20 30.3		809	(2647)	1993 07 12.25347	19 33 19.69	-21 42 23.2		809
(954)	1993 07 12.10764	19 29 21.95	-20 20 31.6		809	(2647)	1993 07 19.13958	19 25 31.78	-21 46 02.9	17.9	809
(954)	1993 07 19.13958	19 23 35.97	-20 34 48.2	16.5	809	(2647)	1993 07 19.15278	19 25 30.89	-21 46 02.7		809
(954)	1993 07 19.15278	19 23 35.24	-20 34 50.2		809	(2647)	1993 07 19.16597	19 25 29.96	-21 46 03.5		809
(954)	1993 07 19.16597	19 23 34.59	-20 34 52.2		809	(2647)	1993 07 19.19028	19 25 28.25	-21 46 02.8	17.8	809
(954)	1993 07 19.19028	19 23 33.34	-20 34 52.6	16.5	809	(2647)	1993 07 19.20347	19 25 27.30	-21 46 03.5		809
(954)	1993 07 19.20347	19 23 32.59	-20 34 54.3		809	(2647)	1993 07 19.21667	19 25 26.38	-21 46 02.8		809
(954)	1993 07 19.21667	19 23 31.92	-20 34 55.3		809	(2647)	1993 07 23.12708	19 21 06.51	-21 47 20.5		809
(954)	1993 07 23.12708	19 20 25.83	-20 42 41.3		809	(2647)	1993 07 23.14028	19 21 05.63	-21 47 21.0		809
(954)	1993 07 23.14028	19 20 25.12	-20 42 42.9		809	(2647)	1993 07 23.15347	19 21 04.71	-21 47 21.5		809
(954)	1993 07 23.15347	19 20 24.43	-20 42 44.9		809	(2648)	1993 07 12.22708	19 36 53.63	-19 54 29.3	18.0	809
(1255)	1993 05 23.20764	16 31 46.04	-19 54 24.0	17.8	809	(2648)	1993 07 12.24028	19 36 52.66	-19 54 29.0		809
(1255)	1993 05 23.22083	16 31 45.37	-19 54 21.3		809	(2648)	1993 07 12.25347	19 36 51.77	-19 54 29.1		809
(1255)	1993 05 23.23403	16 31 44.72	-19 54 18.5		809	(2648)	1993 07 19.13958	19 29 03.35	-19 56 36.1	17.9	809
(1393)	1993 05 23.20764	16 24 25.02	-23 14 12.8	17.5	809	(2648)	1993 07 19.15278	19 29 02.40	-19 56 36.9		809
(1393)	1993 05 23.22083	16 24 24.12	-23 14 13.4		809	(2648)	1993 07 19.16597	19 29 01.44	-19 56 37.1		809
(1393)	1993 05 23.23403	16 24 23.25	-23 14 14.4		809	(2648)	1993 07 19.19028	19 28 59.59	-19 56 34.2	18.0	809
(1550)	1993 05 23.20764	16 33 51.59	-22 29 39.4	17.9	809	(2648)	1993 07 19.20347	19 28 58.79	-19 56 34.1		809
(1550)	1993 05 23.22083	16 33 50.74	-22 29 40.2		809	(2648)	1993 07 19.21667	19 28 57.84	-19 56 34.6		809
(1550)	1993 05 23.23403	16 33 49.82	-22 29 40.6		809	(2648)	1993 07 23.12708	19 24 35.12	-19 57 31.0		809
(1756)	1993 07 12.08125	19 20 17.11	-22 32 17.3	18.0	809	(2648)	1993 07 23.14028	19 24 34.26	-19 57 30.5		809
(1756)	1993 07 12.09444	19 20 16.17	-22 32 18.4		809	(2648)	1993 07 23.15347	19 24 33.24	-19 57 31.1		809
(1756)	1993 07 12.10764	19 20 15.26	-22 32 18.5		809	(2733)	1993 07 13.21111	20 00 04.00	-18 42 27.9	17.7	809
(1756)	1993 07 19.13958	19 12 48.31	-22 30 48.4	18.0	809	(2733)	1993 07 13.22431	20 00 03.20	-18 42 33.0		809
(1756)	1993 07 19.15278	19 12 47.44	-22 30 48.7		809	(2733)	1993 07 13.23750	20 00 02.38	-18 42 38.6		809
(1756)	1993 07 19.16597	19 12 46.57	-22 30 48.0		809	(2797)	1993 05 23.20764	16 24 33.61	-19 52 08.2	17.9	809

(2797)	1993 05 23.22083	16 24 33.14	-19 52 09.5	809	(4242)	1993 07 12.25347	19 45 40.51	-21 43 37.6		809
(2797)	1993 05 23.23403	16 24 32.61	-19 52 10.2	809	(4242)	1993 07 19.19028	19 39 48.36	-21 58 00.6	18.0	809
(2886)	1993 07 23.12708	19 04 46.34	-22 42 46.8	809	(4242)	1993 07 19.20347	19 39 47.60	-21 58 03.3		809
(2886)	1993 07 23.14028	19 04 45.55	-22 42 48.0	809	(4242)	1993 07 19.21667	19 39 46.93	-21 58 04.7		809
(2886)	1993 07 23.15347	19 04 44.78	-22 42 50.2	809	(4393)	1993 07 13.21111	20 09 30.69	-19 37 43.4	18.1	809
(2891)	1993 07 13.21111	19 58 58.77	-20 39 26.6	17.5	809	(4393)	1993 07 13.22431	20 09 30.03	-19 37 46.1	809
(2891)	1993 07 13.22431	19 58 58.09	-20 39 30.2	809	(4393)	1993 07 13.23750	20 09 29.35	-19 37 48.7		809
(2891)	1993 07 13.23750	19 58 57.40	-20 39 34.0	809	(4606)	1993 07 12.08125	19 15 17.96	-19 00 00.4	18.1	809
(3212)	1993 07 12.08125	19 35 21.34	-21 51 23.1	18.2	809	(4606)	1993 07 12.09444	19 15 17.07	-19 00 02.6	809
(3212)	1993 07 12.09444	19 35 20.48	-21 51 27.4	809	(4606)	1993 07 12.10764	19 15 16.19	-19 00 03.8		809
(3212)	1993 07 12.10764	19 35 19.60	-21 51 32.0	809	(4661)	1993 07 12.22708	19 40 02.43	-22 44 56.2	18.2	809
(3212)	1993 07 12.22708	19 35 11.52	-21 52 11.5	18.0	809	(4661)	1993 07 12.24028	19 40 01.62	-22 45 00.5	809
(3212)	1993 07 12.24028	19 35 10.64	-21 52 16.0	809	(4661)	1993 07 12.25347	19 40 00.79	-22 45 03.6		809
(3212)	1993 07 12.25347	19 35 09.75	-21 52 20.8	809	(4711)	1993 07 13.21111	20 17 24.47	-20 32 33.6	16.7	809
(3212)	1993 07 19.13958	19 27 44.75	-22 30 08.6	18.0	809	(4711)	1993 07 13.22431	20 17 23.77	-20 32 42.2	809
(3212)	1993 07 19.15278	19 27 43.84	-22 30 11.8	809	(4711)	1993 07 13.23750	20 17 23.06	-20 32 52.0		809
(3212)	1993 07 19.16597	19 27 42.97	-22 30 16.8	809	(4727)	1993 07 12.08125	19 28 46.25	-19 52 46.9	18.1	809
(3212)	1993 07 19.19028	19 27 41.58	-22 30 24.8	18.0	809	(4727)	1993 07 12.09444	19 28 45.57	-19 52 49.4	809
(3212)	1993 07 19.20347	19 27 40.81	-22 30 28.2	809	(4727)	1993 07 12.10764	19 28 44.79	-19 52 51.9		809
(3212)	1993 07 19.21667	19 27 39.91	-22 30 32.7	809	(4727)	1993 07 19.13958	19 22 38.19	-20 13 12.5	18.1	809
(3236)	1993 07 12.22708	19 51 52.09	-19 04 22.0	18.0	809	(4727)	1993 07 19.15278	19 22 37.43	-20 13 14.4	809
(3236)	1993 07 12.24028	19 51 51.15	-19 04 23.8	809	(4727)	1993 07 19.16597	19 22 36.75	-20 13 16.4		809
(3236)	1993 07 12.25347	19 51 50.28	-19 04 25.9	809	(4727)	1993 07 23.12708	19 19 15.59	-20 24 32.7		809
(3236)	1993 07 19.19028	19 44 13.12	-19 23 00.5	17.8	809	(4727)	1993 07 23.14028	19 19 14.94	-20 24 34.2	809
(3236)	1993 07 19.20347	19 44 12.14	-19 23 03.1	809	(4727)	1993 07 23.15347	19 19 14.24	-20 24 36.5		809
(3236)	1993 07 19.21667	19 44 11.23	-19 23 05.1	809	(4771)	1993 07 12.08125	19 36 42.84	-21 18 27.9	17.8	809
(3434)	1993 05 23.20764	16 24 24.36	-19 25 23.5	18.1	809	(4771)	1993 07 12.09444	19 36 42.05	-21 18 27.4	809
(3434)	1993 05 23.22083	16 24 23.59	-19 25 21.8	809	(4771)	1993 07 12.10764	19 36 41.23	-21 18 27.1		809
(3434)	1993 05 23.23403	16 24 22.81	-19 25 21.4	809	(4771)	1993 07 12.22708	19 36 34.10	-21 18 20.6	17.7	809
(3549)	1993 07 13.21111	20 02 24.46	-18 11 50.9	18.2	809	(4771)	1993 07 12.24028	19 36 33.36	-21 18 20.7	809
(3549)	1993 07 13.22431	20 02 23.67	-18 11 52.4	809	(4771)	1993 07 12.25347	19 36 32.52	-21 18 20.4		809
(3549)	1993 07 13.23750	20 02 22.93	-18 11 52.8	809	(4771)	1993 07 19.13958	19 29 56.56	-21 15 13.7	17.9	809
(3603)	1993 07 12.22708	19 37 40.19	-19 21 09.8	17.8	809	(4771)	1993 07 19.15278	19 29 55.76	-21 15 13.5	809
(3603)	1993 07 12.24028	19 37 39.36	-19 21 09.4	809	(4771)	1993 07 19.16597	19 29 54.98	-21 15 13.7		809
(3603)	1993 07 12.25347	19 37 38.52	-19 21 08.7	809	(4771)	1993 07 19.19028	19 29 53.64	-21 15 12.8	17.8	809
(3603)	1993 07 19.19028	19 30 54.87	-19 16 43.4	17.0	809	(4771)	1993 07 19.20347	19 29 52.82	-21 15 12.5	809
(3603)	1993 07 19.20347	19 30 54.06	-19 16 42.4	809	(4771)	1993 07 19.21667	19 29 51.97	-21 15 12.0		809
(3603)	1993 07 19.21667	19 30 53.29	-19 16 42.0	809	(4771)	1993 07 23.12708	19 26 12.22	-21 12 55.9		809
(3782)	1993 07 12.22708	19 40 57.74	-17 59 03.2	17.9	809	(4771)	1993 07 23.14028	19 26 11.38	-21 12 55.3	809
(3782)	1993 07 12.24028	19 40 56.90	-17 59 03.6	809	(4771)	1993 07 23.15347	19 26 10.67	-21 12 55.0		809
(3782)	1993 07 12.25347	19 40 56.06	-17 59 03.6	809	(4779)	1993 07 12.08125	19 29 15.22	-20 34 14.2	18.3	809
(3782)	1993 07 19.19028	19 33 52.70	-17 56 37.2	17.5	809	(4779)	1993 07 12.09444	19 29 14.59	-20 34 15.1	809
(3782)	1993 07 19.20347	19 33 51.77	-17 56 37.8	809	(4779)	1993 07 12.10764	19 29 13.94	-20 34 16.4		809
(3782)	1993 07 19.21667	19 33 50.94	-17 56 37.0	809	(4779)	1993 07 19.13958	19 23 35.69	-20 46 37.4	18.1	809
(4090)	1993 07 12.08125	19 23 05.80	-20 56 14.7	17.0	809	(4779)	1993 07 19.15278	19 23 35.12	-20 46 38.8	809
(4090)	1993 07 12.09444	19 23 04.97	-20 56 16.0	809	(4779)	1993 07 19.16597	19 23 34.36	-20 46 40.6		809
(4090)	1993 07 12.10764	19 23 04.21	-20 56 17.0	809	(4779)	1993 07 19.19028	19 23 33.02	-20 46 41.8	18.1	809
(4138)	1993 05 23.20764	16 23 18.86	-19 57 02.5	18.2	809	(4779)	1993 07 19.20347	19 23 32.44	-20 46 43.0	809
(4138)	1993 05 23.22083	16 23 18.32	-19 57 01.9	809	(4779)	1993 07 19.21667	19 23 31.71	-20 46 44.0		809
(4138)	1993 05 23.23403	16 23 17.89	-19 57 00.8	809	(4779)	1993 07 23.12708	19 20 29.51	-20 53 19.7		809
(4242)	1993 07 12.22708	19 45 41.90	-21 43 33.8	18.2	809	(4779)	1993 07 23.14028	19 20 28.80	-20 53 21.1	809
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(4789)	1993 05 23.20764	16 29 10.33	-20 28 19.4	18.3	809	(654)	1993 09 15.06964	20 47 35.20	+03 03 54.3	13.4	816
(4789)	1993 05 23.22083	16 29 09.50	-20 28 17.3		809	(654)	1993 09 15.07825	20 47 34.91	+03 03 51.9	13.4	816
(4789)	1993 05 23.23403	16 29 08.59	-20 28 14.5		809	(654)	1993 09 25.04176	20 43 32.34	+02 21 20.3	13.4	816
(4907)	1993 07 19.13958	19 24 31.32	-18 23 43.3	18.0	809	(654)	1993 09 25.04712	20 43 32.25	+02 21 18.9	13.4	816
(4907)	1993 07 19.15278	19 24 30.73	-18 23 45.3		809	(654)	1993 09 25.04929	20 43 32.21	+02 21 18.3	13.4	816
(4907)	1993 07 19.16597	19 24 30.09	-18 23 48.7		809	(4291)	1993 07 25.23000	20 39 40.14	+00 51 21.5		816
(4907)	1993 07 19.19028	19 24 29.22	-18 23 55.8	18.2	809	(4291)	1993 07 25.23740	20 39 39.73	+00 51 21.7		816
(4907)	1993 07 19.20347	19 24 28.56	-18 23 57.6		809	(4291)	1993 07 25.24091	20 39 39.57	+00 51 21.3		816
(4907)	1993 07 19.21667	19 24 27.93	-18 23 59.9		809	(4291)	1993 08 22.11152	20 18 38.21	-00 08 37.6		816
(4907)	1993 07 23.12708	19 21 28.48	-18 35 29.6		809	(4291)	1993 08 22.11506	20 18 38.07	-00 08 38.4		816
(4907)	1993 07 23.14028	19 21 27.82	-18 35 32.2		809	(4729)	1993 07 25.20542	20 31 47.43	-15 12 37.7		816
(4907)	1993 07 23.15347	19 21 27.29	-18 35 34.0		809	(4729)	1993 07 25.21080	20 31 47.08	-15 12 38.5		816
(5124)	1993 05 23.20764	16 21 56.88	-23 13 32.3	18.0	809	(4729)	1993 07 25.21645	20 31 46.72	-15 12 39.0		816
(5124)	1993 05 23.22083	16 21 56.01	-23 13 30.0		809						
(5124)	1993 05 23.23403	16 21 55.10	-23 13 28.3		809						
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(5138)	1993 05 23.22083	16 15 40.01	-20 23 34.7		809						
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(5141)	1993 07 13.21111	20 03 48.56	-18 41 39.4	18.0	809						
(5141)	1993 07 13.22431	20 03 47.88	-18 41 42.9		809						
(5141)	1993 07 13.23750	20 03 47.14	-18 41 45.3		809						
(5225)	1993 07 12.08125	19 35 51.28	-22 17 50.8	18.2	809						
(5225)	1993 07 12.09444	19 35 50.57	-22 17 52.7		809						
(5225)	1993 07 12.10764	19 35 49.93	-22 17 55.1		809						
(5225)	1993 07 12.22708	19 35 43.74	-22 18 14.6	18.2	809						
(5225)	1993 07 12.24028	19 35 43.05	-22 18 17.0		809						
(5225)	1993 07 12.25347	19 35 42.34	-22 18 17.9		809						
(5225)	1993 07 19.19028	19 29 43.36	-22 36 17.2	18.0	809						
(5225)	1993 07 19.20347	19 29 42.65	-22 36 19.7		809						
(5225)	1993 07 19.21667	19 29 41.95	-22 36 21.5		809						
816 Rand Observatory											
G. R. Viscome, 100 Sentinel Road, Lake Placid, NY 12946, U.S.A.											
0.37-m $f/6$ reflector + telecompressor + CCD (unfiltered)											
GSC											
1993 MF	1993 09 25.13786	00 23 58.30	+31 26 22.5	13.9	816						
1993 MF	1993 09 25.13944	00 23 58.31	+31 26 19.9	13.9	816						
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1993 MF	1993 10 09.08223	00 28 29.99	+24 53 47.8	14.5	816						
1993 MF	1993 10 09.08927	00 28 30.08	+24 53 36.5	14.6	816						
1993 MF	1993 10 09.09149	00 28 30.11	+24 53 32.9	14.6	816						
1993 MF	1993 10 16.12207	00 30 46.18	+21 48 35.9	14.9	816						
1993 MF	1993 10 16.13803	00 30 46.43	+21 48 11.9	15.1	816						
1993 MF	1993 10 16.14513	00 30 46.53	+21 48 01.3	14.8	816						
1993 MF	1993 10 24.11830	00 34 05.53	+18 43 44.5	14.9	816						
1993 MF	1993 10 24.12641	00 34 05.71	+18 43 33.4	15.0	816						
1993 MF	1993 10 24.12789	00 34 05.73	+18 43 32.2	15.1	816						
1993 WD	1993 11 25.99647	00 50 22.43	+29 40 12.2		816						
1993 WD	1993 11 25.99711	00 50 21.66	+29 40 15.6		816						
1993 WD	1993 11 26.01730	00 49 56.79	+29 42 18.7		816						
1993 WD	1993 11 26.06179	00 49 02.08	+29 46 47.3		816						
(654)	1993 09 15.06734	20 47 35.28	+03 03 54.9	13.4	816						
868 Hidaka Observatory											
S. Shirai, 13-2, Nishi-Kagaya 2 Chome, Suminoe-Ku, Osaka, 559 Japan											
Observer S. Shirai											
Measurer S. Hayakawa											
0.25-m $f/3.4$ hyperboloid astrocamera											
GSC											
	1993 TQ	1993 10 16.53812	02 02 00.44	+01 28 08.3							868
	1993 TQ	1993 10 16.56636	02 01 58.67	+01 28 05.5							868
	1993 TQ	1993 10 22.67695	01 56 11.69	+01 23 53.2							868
	1993 TQ	1993 10 22.70361	01 56 10.09	+01 23 52.8							868
886 Susono											
T. Furuta, 17-2 Mitsuike, Kagiya, Tokai 477, Japan											
Observer M. Akiyama											
Measurer T. Furuta											
0.25-m $f/4.2$ Wright-Schmidt camera											
GSC											
	(5745)	1993 11 05.55330	03 44 35.85	+24 41 38.6	16.0						886
	(5745)	1993 11 05.56424	03 44 34.89	+24 41 39.1							886
887 Ojima											
T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan											
Observer T. Nijjima											
Measurer T. Urata											
0.30-m $f/5.8$ reflector + CCD											
GSC											
	1987 BB	1993 11 14.67551	04 27 56.25	+21 04 38.9	17.1 V						887
	1987 BB	1993 11 14.68559	04 27 55.59	+21 04 36.6							887
	1987 BB	1993 11 14.69949	04 27 54.83	+21 04 35.9							887
894 Otomo											
S. Otomo, Kiyosato 3545-3902, Takane-cho, Kitakoma-gun, Yamanashi-ken, 407-03, Japan											
0.25-m $f/3.4$ reflector											
PPM											
	1976 SQ ₇	1993 09 26.71215	23 41 25.40	+01 51 14.4	16.0						894
	1986 RN ₅	1993 09 14.76007	00 00 29.55	-01 08 29.1	17.0						894
	1986 RN ₅	1993 09 14.77396	00 00 28.68	-01 08 30.1							894
	1986 RN ₅	1993 09 25.69802	23 49 37.33	-00 55 01.1							894
	1986 RN ₅	1993 09 25.70972	23 49 36.70	-00 54 59.8							894

1993 VO	1993 11 05.52147	00 59 44.50	+06 00 39.8		905
1993 VO	1993 11 05.53056	00 59 44.29	+06 00 35.5		905
1993 VO	1993 11 14.58380	00 58 05.44	+05 01 01.2	17	905
1993 VO	1993 11 14.60150	00 58 05.23	+05 00 56.6		905
(1910)	1993 11 14.58380	00 58 24.04	+04 56 07.3	16	905
(1910)	1993 11 14.60150	00 58 23.77	+04 56 02.2		905
(4211)	1993 11 04.46597	00 45 50.13	+04 53 47.9	15.5	905
(4211)	1993 11 04.47442	00 45 49.84	+04 53 46.4		905
(4211)	1993 11 04.48171	00 45 49.66	+04 53 45.0		905

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Periodic Comet Spitaler (1993r)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>T</i>	1994 Jan. 28.23413 TT		Marsden	
<i>q</i>		(2000.0)	P	Q
<i>n</i>	0.13890522	ω 50.20723	+0.42802217	-0.90341673
<i>a</i>	3.6925269	Ω 14.51255	+0.79541390	+0.36331907
<i>e</i>	0.4223165	<i>i</i> 5.77242	+0.42908478	+0.22767843
<i>P</i>	7.10			

From 50 observations 1890–1993, mean residual 1".4.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i>	1994 Mar. 28.23688 TT		Marsden	
<i>q</i>		(2000.0)	P	Q
<i>n</i>	0.05505661	ω 355.09513	-0.81118219	+0.58092581
<i>a</i>	6.8432601	Ω 220.66420	-0.53297205	-0.78166485
<i>e</i>	0.2132028	<i>i</i> 5.91454	-0.24067458	-0.22699178
<i>P</i>	17.90			

From 30 observations 1993 Mar. 30–July 19, mean residual 0".63.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i>	1994 Mar. 28.44323 TT		Marsden	
<i>q</i>		(2000.0)	P	Q
<i>n</i>	0.05520368	ω 355.05910	-0.81098886	+0.58121074
<i>a</i>	6.8311011	Ω 220.71912	-0.53320262	-0.78138686
<i>e</i>	0.2119554	<i>i</i> 5.89639	-0.24081534	-0.22721940
<i>P</i>	17.85			

From 30 observations 1993 Mar. 30–July 19, mean residual 0".52.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i>	1994 Mar. 29.18687 TT		Marsden	
<i>q</i>		(2000.0)	P	Q
<i>n</i>	0.05532344	ω 355.07121	-0.81035520	+0.58211380
<i>a</i>	6.8212392	Ω 220.76931	-0.53402964	-0.78068653
<i>e</i>	0.2108768	<i>i</i> 5.87511	-0.24111571	-0.22731492
<i>P</i>	17.82			

From 30 observations 1993 Mar. 30–July 19, mean residual 0".59.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i>	1994 Mar. 30.19362 TT		Marsden	
<i>q</i>		(2000.0)	P	Q
<i>n</i>	0.05546949	ω 355.09388	-0.80951121	+0.58331383
<i>a</i>	6.8092604	Ω 220.82952	-0.53513271	-0.77975568
<i>e</i>	0.2095254	<i>i</i> 5.84721	-0.24150482	-0.22743363
<i>P</i>	17.77			

From 29 observations 1993 Mar. 30–July 19, mean residual 0".50.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i>	1994 Mar. 31.43081 TT		Marsden	
<i>q</i>		(2000.0)	P	Q
<i>n</i>	0.05559521	ω 355.13282	-0.80851345	+0.58472790
<i>a</i>	6.7989907	Ω 220.88840	-0.53644035	-0.77866192
<i>e</i>	0.2082138	<i>i</i> 5.81556	-0.24194575	-0.22754977
<i>P</i>	17.73			

From 30 observations 1993 Mar. 30–July 19, mean residual 0".51.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

<i>T</i>	1994 Apr. 1.32258 TT		Marsden	
<i>q</i>		(2000.0)	P	Q
<i>n</i>	0.05577740	ω 355.13066	-0.80774317	+0.58581731
<i>a</i>	6.7841778	Ω 220.96576	-0.53742618	-0.77779211
<i>e</i>	0.2066134	<i>i</i> 5.78642	-0.24233050	-0.22772245
<i>P</i>	17.67			

From 30 observations 1993 Mar. 30–July 19, mean residual 0".51.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

T		Marsden	
1994 Apr. 1.87134	TT		
<i>q</i>	5.3825210	(2000.0)	
<i>n</i>	0.05589900	ω 355.13371	P -0.80731434 Q +0.58643095
<i>a</i>	6.7743356	Ω 221.00460	-0.53798061 -0.77727240
<i>e</i>	0.2054540	<i>i</i> 5.76411	-0.24252922 -0.22791743
<i>P</i>	17.63		

From 11 observations 1993 Apr. 20–July 19, mean residual 0".60.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

T		Marsden	
1994 Apr. 3.13204	TT		
<i>q</i>	5.3828447	(2000.0)	
<i>n</i>	0.05599017	ω 355.18009	P -0.80625173 Q +0.58791331
<i>a</i>	6.7669796	Ω 221.06178	-0.53935971 -0.77616194
<i>e</i>	0.2045425	<i>i</i> 5.74002	-0.24300052 -0.22788282
<i>P</i>	17.60		

From 28 observations 1993 Mar. 30–July 19, mean residual 0".53.

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

Epoch 1994 May 8.0 TT = JDT 2449480.5

T		Marsden	
1994 Apr. 3.87477	TT		
<i>q</i>	5.3825906	(2000.0)	
<i>n</i>	0.05611259	ω 355.18665	P -0.80562740 Q +0.58878881
<i>a</i>	6.7571337	Ω 221.11590	-0.54015755 -0.77546438
<i>e</i>	0.2034210	<i>i</i> 5.71786	-0.24329881 -0.22799724
<i>P</i>	17.56		

From 28 observations 1993 Mar. 30–July 19, mean residual 0".56.

Periodic Comet Hartley 3 (1993m)

Epoch 1994 May 8.0 TT = JDT 2449480.5

T		Nakano	
1994 May 20.63148	TT		
<i>q</i>	2.4612032	(2000.0)	
<i>n</i>	0.14407920	ω 168.42524	P -0.11381127 Q -0.97459166
<i>a</i>	3.6035885	Ω 287.88124	+0.89457748 -0.01605829
<i>e</i>	0.3170132	<i>i</i> 11.69559	+0.43217835 -0.22341268
<i>P</i>	6.84		

From 46 observations 1988–1993, mean residual 0".79.

One-opposition minor planets

Planet	<i>H</i>	Epoch	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	<i>a</i>	Arc	O	N	C
1991 CU ₂	13.5	910213	337.59	179.26	8.07	2.43	0.1417	2.3967	36	0	W	
1991 DK	11.5	910213	144.40	18.62	357.26	15.71	0.1444	2.5771	26	0	W	
1991 EB	13.0	910305	51.17	209.00	256.64	2.84	0.1259	2.6223	60	0	W	
1991 EQ ₁	12.5	910305	52.70	108.81	4.69	5.27	0.0302	2.7693	40	9	W	
1993 JQ	15.0	930513	6.97	340.39	249.92	8.57	0.2030	2.8443	9	9	W	
1993 JW	13.5	930513	357.77	175.67	69.50	10.52	0.1285	3.1679	9	9	E	W
1993 JX	14.5	930513	164.21	206.91	228.89	5.80	0.0744	2.3007	9	9	E	W
1993 JY	14.0	930513	304.57	96.58	237.34	15.08	0.3171	2.8498	9	9	W	
1993 JZ	15.0	930513	303.83	78.19	246.02	6.49	0.2389	2.4699	9	9	W	
1993 JB ₁	14.0	930513	129.09	227.97	235.18	7.44	0.1342	2.3475	9	9	W	
1993 JF ₁	14.0	930513	236.15	334.21	50.76	3.13	0.2066	2.3630	9	9	W	
1993 JG ₁	14.5	930513	337.97	29.34	243.04	4.32	0.1443	2.6529	9	9	W	
1993 JJ ₁	16.0	930513	4.85	169.55	64.83	4.12	0.1568	2.1950	9	9	W	
1993 JK ₁	13.5	930513	149.85	145.31	309.58	0.87	0.0119	2.9620	9	9	E	W

1993 JL ₁	12.5	930513	151.47	287.85	160.23	1.07	0.1368	3.0420	9	9	E	W
1993 JM ₁	15.0	930513	355.46	337.89	270.67	1.57	0.1029	2.3854	9	9	E	W
1993 OA ₃	12.5	930821	359.47	59.73	283.21	23.21	0.2420	2.3253	57	9	W	
1993 OC ₃	15.5	930712	352.45	357.63	306.70	3.49	0.1534	2.4852	11	0	M	
1993 OE ₃	16.0	930712	359.48	354.14	300.21	5.10	0.1422	2.1680	11	0	E	M
1993 OF ₃	16.0	930712	6.26	316.89	328.67	1.08	0.1427	2.3279	11	0	M	
1993 OH ₃	13.5	930712	177.26	181.04	296.60	20.90	0.2193	2.5856	11	0	E	M
1993 OJ ₃	14.0	930712	284.52	95.95	297.73	11.94	0.1999	2.6578	11	0	E	M
1993 OL ₃	15.0	930712	28.28	329.92	291.24	2.97	0.0881	2.3983	11	0	M	
1993 ON ₃	16.0	930712	344.26	4.41	312.97	2.06	0.1937	2.3401	11	8	M	
1993 OO ₃	15.0	930712	308.14	72.41	299.26	1.61	0.2358	2.4696	11	0	E	M
1993 OP ₃	13.5	930712	199.13	147.95	313.36	4.55	0.1583	2.5207	11	0	M	
1993 OQ ₃	15.0	930712	357.48	190.85	107.94	1.45	0.2360	2.9151	11	0	M	
1993 OS ₃	16.0	930712	333.03	29.32	299.92	5.58	0.1294	2.3214	11	0	E	M
1993 OV ₃	11.5	930712	274.48	295.52	118.57	15.13	0.2864	3.9254	11	0	E	M
1993 OW ₃	14.5	930712	338.25	200.83	127.37	3.28	0.2149	2.4098	11	0	M	
1993 OY ₃	15.0	930712	217.03	305.14	136.30	2.71	0.0429	2.2738	11	7	M	
1993 OA ₄	14.5	930712	348.10	188.18	122.99	2.44	0.1348	2.7898	11	0	M	
1993 OB ₄	14.5	930712	134.19	213.67	300.87	4.40	0.0943	2.4689	11	0	E	M
1993 OC ₄	15.5	930712	354.86	355.27	305.57	3.18	0.0898	2.2141	11	0	E	M
1993 OE ₄	15.0	930712	341.78	205.42	115.87	14.67	0.1723	2.7996	11	7	M	
1993 OG ₄	16.0	930712	345.56	19.63	295.49	3.55	0.1780	2.1868	11	7	M	
1993 OH ₄	15.0	930712	61.96	155.15	71.12	1.31	0.0668	2.3282	11	7	M	
1993 OK ₄	15.0	930712	345.45	148.88	168.71	0.26	0.1965	3.0253	11	0	M	
1993 OM ₄	16.0	930712	22.97	136.49	121.90	1.62	0.2218	2.3232	11	0	M	
1993 OO ₄	14.5	930712	314.84	215.91	127.81	4.39	0.0292	2.6208	11	7	M	
1993 OQ ₄	15.5	930712	38.76	97.88	144.09	2.67	0.1734	2.3791	11	7	M	
1993 OV ₄	15.0	930712	42.68	317.39	289.01	2.69	0.0792	2.3142	11	7	M	
1993 OW ₄	15.0	930712	325.19	228.79	114.04	15.80	0.1602	2.5842	11	7	M	
1993 OZ ₄	15.5	930712	5.17	157.62	130.04	2.99	0.1527	2.1727	11	7	M	
1993 OD ₅	16.0	930712	346.82	314.15	358.70	1.10	0.1541	2.2543	11	7	M	
1993 OF ₅	13.0	930712	98.92	261.54	293.81	7.50	0.0264	3.1306	11	7	M	
1993 OG ₅	16.0	930712	332.59	23.09	310.72	3.36	0.1793	2.2267	11	7	M	
1993 OH ₅	14.5	930712	21.81	116.55	147.27	0.69	0.1968	3.1034	11	0	M	
1993 OL ₅	15.5	930712	54.14	133.41	96.19	0.61	0.1198	2.3404	11	7	E	M
1993 OO ₅	14.0	930712	195.10	358.24	108.54	2.30	0.2056	2.3034	11	7	M	
1993 OP ₅	14.0	930712	247.01	120.83	298.44	10.66	0.0926	2.6756	11	7	M	
1993 OQ ₅	14.5	930712	314.64	68.03	294.20	5.20	0.2096	2.7339	11	7	M	
1993 OR ₅	12.5	930712	157.32	316.43	176.39	0.95	0.2249	3.0131	11	7	E	M
1993 OT ₅	13.0	930712	216.18	114.90	333.07	1.77	0.1122	3.0447	11	7	M	
1993 OU ₅	14.0	930712	307.11	264.69	109.09	3.60	0.2243	3.2165	11	7	M	
1993 OV ₅	15.5	930712	49.27	113.79	123.61	3.25	0.0979	2.2147	11	7	E	M
1993 OW ₅	16.0	930712	2.87	2.00	288.39	3.75	0.2525	2.6098	11	7	M	
1993 OX ₅	14.5	930712	247.33	135.92	285.02	5.37	0.1128	2.3456	11	7	M	
1993 OZ ₅	15.0	930712	358.36	341.94	316.42	1.46	0.1293	2.6975	11	7	M	
1993 OA ₆	17.0	930712	358.65	212.17	84.25	0.71	0.2136	2.1646	11	7	E	M
1993 OD ₆	13.5	930712	277.07	114.02	298.90	6.73	0.2903	2.6594	11	0	E	M
1993 OE ₆	15.5	930712	320.34	233.01	121.59	7.46	0.2097	2.5345	11	7	M	
1993 OF ₆	14.0	930712	121.24	221.48	303.30	3.01	0.1220	2.4306	11	7	E	M
1993 OG ₆	15.0	930712	312.78	77.32	292.62	2.05	0.2534	2.6816	11	0	E	M
1993 OH ₆	15.0	930712	267.81	276.79	122.10	4.74	0.0879	2.2857	11	7	E	M
1993 OJ ₆	14.0	930712	331.86	214.14	114.04	9.81	0.0455	3.0564	11	7	M	
1993 OK ₆	15.0	930712	318.46	239.79	112.24	5.07	0.1616	2.4480	11	7	M	
1993 ON ₆	13.5	930712	178.50	6.79	112.20	10.44	0.1048	2.7455	11	7	M	
1993 OP ₆	16.0	930712	335.18	43.60	287.60	0.89	0.1768	2.3339	11	7	M	
1993 OT ₆	13.5	930712	209.91	327.16	125.37	4.52	0.0852	2.7156	11	7	M	
1993 OW ₆	15.0	930712	294.56	248.11	129.66	3.44	0.1414	2.2115	11	7	M	
1993 OX ₆	12.5	930712	220.96	332.92	117.72	19.33	0.2079	3.0188	11	7	M	

1993 OY ₆	16.0	930712	16.48	147.61	121.48	5.81	0.2219	2.2503	11	7	M	1993 TR	15.5	931020	7.03	40.14	333.41	1.42	0.2477	2.2589	8	6	N
1993 OA ₇	14.0	930712	220.20	333.30	111.73	3.30	0.1140	2.4100	11	7	M	1993 TS	14.5	930930	8.96	351.97	10.32	9.34	0.2525	2.5213	10	9	W
1993 OB ₇	14.5	930712	344.46	257.04	62.87	1.56	0.1841	3.1355	11	7	M	1993 TU	13.5	930930	65.93	326.38	335.03	4.39	0.1173	2.1908	9	9	W
1993 OH ₇	15.0	930712	348.84	190.33	118.77	2.81	0.0572	2.1997	11	7	E M	1993 TW	13.5	930930	318.59	206.11	235.93	1.62	0.2206	2.5381	8	9	W
1993 OJ ₇	14.0	930712	240.54	135.11	298.28	7.39	0.1802	2.3470	11	7	M	1993 TB ₁	13.2	931020	339.75	212.33	196.51	3.11	0.0879	2.4538	8	6	E N
1993 OK ₇	14.5	930712	305.95	29.74	332.30	1.52	0.1065	2.6173	11	7	M	1993 TD ₁	14.0	930930	31.73	298.78	26.02	17.11	0.2675	2.5786	8	9	W
1993 ON ₇	16.0	930712	330.85	56.92	283.12	4.04	0.2285	2.3244	11	0	M	1993 TE ₁	15.5	931020	18.41	308.08	46.96	2.51	0.2490	2.1963	8	6	N
1993 OO ₇	13.5	930712	104.31	236.38	291.99	13.17	0.2355	2.6363	11	7	M	1993 TF ₁	13.7	931020	2.12	145.41	240.84	5.28	0.1473	2.3181	26	6	N
1993 OP ₇	14.5	930712	356.68	180.55	120.34	15.03	0.1728	2.7718	11	7	M	1993 TK ₁	13.6	931020	22.89	327.92	28.86	3.42	0.1924	2.2081	26	0	N
1993 OS ₇	15.5	930712	340.46	202.80	115.85	7.44	0.1496	2.3091	12	0	M	1993 TL ₁	14.5	931020	346.63	232.66	183.41	5.39	0.3411	2.6077	29	9	W
1993 OU ₇	14.0	930712	319.41	173.99	166.65	1.89	0.0873	2.6921	12	0	M	1993 TM ₁	13.8	931020	341.58	338.84	77.54	3.33	0.2016	2.3709	27	8	N
1993 OX ₇	16.0	930712	324.82	230.71	128.00	7.00	0.3309	2.5437	5	7	M	1993 TO ₁	14.0	931020	1.82	350.51	36.95	25.00	0.2133	2.4383	23	0	N
1993 OA ₈	15.5	930712	3.00	349.27	299.08	5.94	0.1453	2.4335	12	0	M	1993 TQ ₁	14.5	931020	352.74	225.92	172.59	2.47	0.1769	2.3009	5	0	N
1993 OB ₈	14.0	930712	312.63	21.76	339.08	1.09	0.2060	3.1701	5	7	E M	1993 TR ₁	12.0	931020	352.60	3.22	33.71	14.10	0.0525	3.1693	28	0	W
1993 OF ₈	14.0	930712	156.15	200.49	292.49	12.24	0.1061	2.6103	12	0	E M	1993 TS ₁	12.2	931020	17.04	171.45	196.91	13.91	0.1048	3.1299	27	8	N
1993 OG ₈	16.5	930712	359.29	170.51	122.82	1.57	0.1830	2.2423	5	7	M	1993 TV ₁	14.0	931020	19.58	317.21	42.41	9.11	0.2026	2.2447	31	0	N
1993 OJ ₈	15.5	930712	17.11	39.13	229.72	1.36	0.1653	2.4204	12	0	M	1993 TW ₁	12.7	931020	321.67	29.15	47.84	11.16	0.0847	2.5754	8	8	N
1993 OL ₈	15.5	930712	0.67	174.09	117.57	12.27	0.2241	2.7682	12	0	M	1993 TY ₁	13.0	931020	31.88	338.03	12.98	6.90	0.1497	2.2936	27	6	N
1993 OM ₈	13.5	930712	322.31	135.72	204.06	1.91	0.1071	3.0547	12	0	M	1993 TZ ₁	12.4	931020	343.95	195.49	216.19	10.19	0.0395	2.5523	27	6	N
1993 ON ₈	15.5	930712	27.53	154.79	106.12	2.55	0.0758	2.2206	12	0	E M	1993 TB ₂	14.5	931020	358.84	151.97	243.02	3.01	0.2757	2.3914	27	6	N
1993 OQ ₈	15.0	930712	314.42	247.68	109.00	2.30	0.1894	2.3926	12	0	M	1993 TC ₂	14.0	931020	6.20	3.41	20.52	3.44	0.1973	2.3386	27	6	N
1993 OT ₈	16.5	930712	336.90	182.08	152.48	1.14	0.2901	2.4030	5	7	M	1993 TD ₂	13.5	931020	356.20	137.81	261.33	0.77	0.1468	2.4345	27	6	N
1993 OX ₈	16.5	930712	345.48	193.96	123.54	4.11	0.2602	2.2646	5	7	M	1993 TE ₂	12.4	931020	44.43	317.62	19.15	9.75	0.1661	2.7475	27	6	N
1993 OK ₁₀	15.5	930712	308.08	79.12	284.57	4.21	0.1735	2.1643	11	7	E M	1993 TH ₂	13.6	931020	9.04	297.82	82.17	3.20	0.2006	2.6072	27	6	N
1993 OY ₁₀	14.0	930712	320.60	224.23	116.52	3.54	0.0768	3.0762	11	7	E M	1993 TJ ₂	12.5	930930	342.15	12.54	34.56	3.11	0.1474	3.2189	10	9	E W
1993 OA ₁₁	16.0	930712	1.62	61.28	231.17	1.22	0.1002	2.2174	11	7	M	1993 TK ₂	11.0	931020	90.03	261.11	22.02	12.62	0.1362	2.6602	24	6	M
1993 OE ₁₁	15.5	930712	359.07	186.20	109.66	3.75	0.1770	2.5528	11	7	M	1993 TN ₂	12.9	931020	49.15	276.09	41.61	9.37	0.2245	2.6471	5	6	E N
1993 OT ₁₂	14.0	930712	280.66	110.50	291.65	27.44	0.2801	2.6803	11	9	M	1993 TQ ₂	19.5	931020	335.66	77.12	13.76	6.05	0.4194	1.9858	16	0	W
1993 OV ₁₂	13.5	930712	74.60	261.36	285.89	8.61	0.2529	2.7390	11	0	E M	1993 TS ₂	17.5	931020	42.03	70.73	230.68	4.49	0.3890	2.1514	23	0	W
1993 OY ₁₂	16.0	930712	339.32	35.23	284.07	6.70	0.1575	2.2034	11	0	E M	1993 TE ₃	13.5	930930	25.46	333.81	11.98	8.26	0.1213	2.3101	8	9	W
1993 OB ₁₃	14.0	930712	347.63	131.47	175.77	2.09	0.1269	2.9312	11	0	M	1993 TF ₃	13.0	930930	278.52	239.74	234.35	1.33	0.0920	2.5380	8	9	E W
1993 OE ₁₃	15.5	930712	6.66	160.60	122.13	5.32	0.1068	2.2771	11	0	M	1993 TG ₃	13.5	930930	297.91	87.36	9.42	7.26	0.1207	2.3040	4	8	W
1993 OG ₁₃	14.0	930712	223.85	137.08	303.25	1.82	0.1907	2.3694	11	9	E M	1993 TK ₃	13.1	931020	20.03	262.16	93.15	3.45	0.2964	3.0025	27	6	N
1993 OH ₁₃	15.5	930712	346.39	26.11	280.16	4.37	0.0437	2.2244	11	0	E M	1993 TD ₅	16.0	930930	71.16	8.36	294.63	3.47	0.1738	2.4269	13	9	W
1993 QB ₅	12.0	930910	331.54	194.66	196.23	13.62	0.1888	2.5778	58	8	W	1993 TH ₅	16.0	930930	336.65	137.83	283.41	3.78	0.0672	2.5895	16	0	W
1993 RH	12.5	930930	14.92	338.51	359.42	14.93	0.2256	2.6531	41	0	W	1993 TB ₆	14.0	930930	326.39	72.80	353.44	4.55	0.1173	3.1665	7	9	W
1993 RD ₂	12.9	930930	28.45	153.02	174.86	15.32	0.1246	2.6055	27	0	N	1993 TD ₆	16.0	930930	34.91	100.91	226.90	5.49	0.2279	2.6595	15	0	W
1993 RM ₂	13.5	930930	327.12	224.69	195.14	23.85	0.2762	2.3872	35	7	W	1993 TF ₆	16.0	930930	30.97	123.08	218.47	11.04	0.1546	2.9299	15	0	W
1993 RA ₃	12.0	930930	33.31	101.53	203.78	12.15	0.1672	2.6780	37	6	W	1993 TG ₆	18.0	930930	0.23	156.93	222.24	5.67	0.2665	2.5653	11	0	W
1993 RD ₃	14.0	930910	1.25	162.08	189.55	15.53	0.2957	2.6824	34	8	W	1993 TH ₆	15.5	930930	282.70	250.47	219.52	11.04	0.0666	3.1998	12	0	W
1993 SD ₁	14.2	931020	1.86	331.45	39.72	3.93	0.1957	2.3491	26	9	N	1993 TK ₆	16.0	930930	222.90	162.83	5.95	6.15	0.1184	2.2420	7	0	W
1993 SH ₁	13.6	930930	22.45	163.09	175.00	6.75	0.1484	2.3060	29	9	N	1993 TL ₆	17.5	930930	318.42	152.53	284.80	1.98	0.1566	2.4698	12	0	W
1993 SN ₁	14.4	931020	16.97	190.84	160.89	5.73	0.1905	2.2301	29	8	N	1993 TM ₆	15.0	930930	169.18	224.95	347.56	3.38	0.1296	2.2961	12	0	W
1993 SQ ₁	13.1	931020	3.20	340.36	29.91	9.65	0.1901	2.7115	29	8	N	1993 TN ₆	16.0	930930	13.37	90.66	270.46	2.05	0.2080	2.7084	12	0	W
1993 SS ₁	13.1	931020	316.93	285.38	146.99	4.02	0.1526	2.5813	29	8	N	1993 TO ₆	16.0	930930	65.11	75.24	229.96	4.92	0.1142	2.3842	15	0	W
1993 SU ₂	12.5	930930	342.00	98.46	295.48	13.74	0.1006	2.5740	36	5	W	1993 TY ₆	18.0	930930	30.06	114.97	215.58	11.10	0.2635	2.5737	7	0	W
1993 SG ₃	15.5	930930	231.65	330.91	168.64	3.74	0.1246	2.3237	30	0	W	1993 TD ₇	15.0	930930	307.97	218.77	223.86	6.37	0.0815	2.3038	12	9	W
1993 SK ₃	13.0	930930	315.66	128.66	310.75	2.25	0.2855	3.2582	27	5	M	1993 TN ₇	16.5	930930	330.31	151.83	284.93	3.20	0.2237	2.5593	12	0	W
1993 SV ₃	14.5	930930	30.09	297.66	16.10	22.72	0.2870	2.4260	33	6	W	1993 TO ₇	15.5	930930	45.64	350.85	335.93	4.10	0.2277	2.9919	4	9	W
1993 SW ₃	14.0	930930	22.29	282.00	54.43	6.43	0.1950	2.2553	15	5	W	1993 TS ₇	16.0	930930	42.41	348.33	354.18	4.84	0.1154	2.7505	7	9	W
1993 SA ₄	12.8	931020	15.93	174.45	178.20	8.48	0.1834	2.7073	27	6	N	1993 TT ₇	15.0	930930	10.46	2.41	22.78	11.98	0.0733	3.0852	12	0	W
1993 SD ₄	14.0	930910</																					

1993 TG ₁₁	15.5	930930	25.56	101.17	242.40	2.55	0.2052	2.5567	6	9	W	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 TH ₁₁	17.5	930930	339.86	152.20	258.05	1.80	0.1913	2.2807	6	9	W	(42) Isis	Obs.	374	M	347.89725	ω	236.06472	
1993 TK ₁₁	15.0	930930	357.35	199.91	181.26	3.42	0.1516	2.1013	8	8	W	H 7.53 G 0.15	Opp.	39	n	0.25847151	Ω	84.61626	
1993 TS ₁₁	14.0	930930	358.04	15.65	6.72	5.49	0.1314	2.2288	6	0	W	rms res. 0''53 (M-C)		1917-1992	e	0.2236798	i	8.53949	
1993 TG ₁₂	14.0	930930	7.42	355.72	7.52	10.05	0.2871	2.4429	5	5	W	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 TJ ₁₂	15.0	930930	339.30	50.04	359.80	4.59	0.1950	2.4817	5	6	W	(101) Helena	Obs.	117	M	90.49777	ω	346.99658	
1993 UB	16.5	931109	355.48	20.75	31.52	25.03	0.4604	2.2748	29	0	W	H 8.33 G 0.35	Opp.	25	n	0.23749039	Ω	343.61458	
1993 UC	15.0	931020	328.61	322.91	166.07	25.92	0.6632	2.4449	25	0	W	rms res. 0''84 (M-C)		1871-1991	e	0.1418040	i	10.18828	
1993 UD	20.0	931020	90.16	254.69	25.16	22.79	0.1943	1.3195	21	0	W	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 UE	14.5	931020	20.67	225.07	117.19	13.34	0.2117	2.4393	7	0	W	(131) Vala	Obs.	83	M	320.78160	ω	158.36966	
1993 UF	14.5	931020	6.44	234.32	130.24	15.09	0.1869	2.5393	7	0	W	H 10.03 G 0.15	Opp.	31	n	0.25987203	Ω	65.84534	
1993 UG	15.0	931020	322.33	47.99	28.81	20.77	0.1842	1.9313	21	7	W	rms res. 0''86 (M-C)		1884-1992	e	0.0675383	i	4.95566	
1993 UH	13.0	931020	2.58	163.89	220.33	26.78	0.2013	3.1071	30	0	W	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Goffin						
1993 UK	12.1	931020	48.78	256.82	80.78	3.33	0.0675	2.8550	26	0	N	(156) Xanthippe	Obs.	185	M	271.52527	ω	338.44745	
1993 UL	12.9	931020	45.93	130.68	196.56	12.72	0.1975	2.6769	26	6	N	H 8.64 G 0.15	Opp.	47	n	0.21842700	Ω	242.31001	
1993 UN	14.3	931109	63.28	187.50	120.52	0.57	0.1601	2.1662	27	0	N	rms res. 0''98 (M-C)		1875-1992	e	0.2239535	i	9.75845	
1993 UT	14.1	931020	50.80	244.28	63.46	32.38	0.3352	2.7211	24	0	N	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 UU	12.7	931109	16.81	322.58	59.09	7.93	0.1978	2.2701	22	5	N	(174) Phaedra	Obs.	69	M	99.29855	ω	289.68340	
1993 UY	11.9	931020	154.29	18.97	228.59	12.21	0.1832	2.4106	18	7	N	H 8.48 G 0.15	Opp.	24	n	0.20347405	Ω	328.05107	
1993 UZ	14.0	931020	308.52	233.54	213.87	21.11	0.0921	1.9465	21	6	W	rms res. 0''95 (M-C)		1906-1993	e	0.1401173	i	12.14586	
1993 UD ₁	15.5	931020	61.87	238.46	70.16	6.17	0.1704	2.3401	21	0	W	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Goffin						
1993 UE ₁	13.0	931020	22.13	308.86	47.83	14.50	0.1871	3.1603	21	0	W	(287) Nephthys	Obs.	852	M	47.29035	ω	120.35021	
1993 UF ₁	13.0	931020	39.89	312.22	35.92	20.10	0.0928	1.8928	21	5	W	H 8.30 G 0.22	Opp.	61	n	0.27311693	Ω	142.54107	
1993 UJ ₁	14.0	931020	310.15	249.21	207.57	20.71	0.0895	1.8504	21	7	W	rms res. 0''79 (M-C)		1889-1993	e	0.0232885	i	10.02044	
1993 US ₁	15.5	931020	105.01	262.04	4.52	4.48	0.1632	2.2605	4	0	W	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 UU ₁	16.5	931020	65.84	314.68	346.89	2.46	0.1907	2.4999	4	9	W	(338) Budrosa	Obs.	175	M	120.18261	ω	106.88152	
1993 UV ₁	17.0	931020	28.71	135.47	223.35	7.60	0.0257	2.6186	4	9	E W	H 8.50 G 0.15	Opp.	43	n	0.19835281	Ω	287.95425	
1993 UV ₂	15.0	931020	357.50	286.75	106.95	24.97	0.0859	1.9209	7	0	W	rms res. 0''99 (M-C)		1892-1991	e	0.0187803	i	6.03740	
1993 UW ₂	11.1	931020	106.36	82.59	208.51	14.57	0.1125	2.8459	16	4	N	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 UX ₂	14.5	931020	335.34	303.93	106.02	14.44	0.2074	2.7743	7	5	W	(339) Dorothea	Obs.	57	M	171.10545	ω	159.48505	
1993 UY ₂	13.5	931020	10.39	301.59	52.11	23.82	0.1782	3.2048	7	5	W	H 9.24 G 0.15	Opp.	20	n	0.18883476	Ω	174.07442	
1993 UZ ₂	14.0	931020	353.95	308.73	83.41	30.16	0.2554	2.6563	6	8	W	rms res. 0''96 (M-C)		1892-1991	e	0.1020210	i	9.94177	
1993 UC ₃	13.6	931109	0.18	89.76	318.58	1.20	0.2199	2.6539	24	0	N	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Goffin						
1993 UD ₃	13.2	931020	35.13	98.53	256.24	5.36	0.1496	2.4025	24	8	N	(426) Hippo	Obs.	162	M	42.20727	ω	220.96470	
1993 VA	17.0	931109	330.53	336.08	133.63	7.42	0.4004	1.3720	13	0	W	H 8.42 G 0.15	Opp.	43	n	0.20082259	Ω	311.82477	
1993 VB	19.5	931109	338.19	322.45	146.22	5.10	0.5229	1.9236	14	0	W	rms res. 1''02 (M-C)		1897-1991	e	0.1068143	i	19.52725	
1993 VC	20.5	931109	355.94	177.50	242.55	3.30	0.5554	2.9291	9	0	W	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 VD	21.5	931109	107.85	253.50	2.98	2.06	0.5493	0.8766	8	0	W	(490) Veritas	Obs.	144	M	32.80615	ω	200.56046	
1993 VO	13.8	931109	3.06	177.98	208.02	6.74	0.2184	2.4897	16	0	N	H 8.32 G 0.15	Opp.	50	n	0.17467904	Ω	178.61312	
1993 VQ	11.2	931109	207.88	182.08	28.66	3.00	0.1200	2.8522	4	8	N	rms res. 1''00 (M-C)		1902-1990	e	0.1003965	i	9.26168	
1993 VV	13.8	931109	6.42	50.02	348.86	5.20	0.1642	2.2623	13	6	N	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 VW	16.0	931020	302.06	280.89	231.34	8.66	0.4835	1.6931	34	0	W	(495) Eulalia	Obs.	74	M	106.47860	ω	206.08741	
1993 VY	13.5	931020	335.52	30.26	26.36	25.03	0.1937	2.2727	28	7	W	H 10.78 G 0.15	Opp.	16	n	0.25127528	Ω	186.77957	
1993 VA ₁	14.6	931109	30.29	106.32	256.78	4.59	0.2188	2.1359	7	7	N	rms res. 0''84 (M-C)		1924-1990	e	0.1304337	i	2.27982	
1993 VC ₁	13.4	931109	23.56	139.31	235.23	24.57	0.2064	2.2483	7	5	E N	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Goffin						
1993 VG ₁	12.6	931109	12.81	314.30	73.74	10.36	0.2586	2.6228	5	6	N	(426) Hippo	Obs.	162	M	42.20727	ω	220.96470	
1993 VK ₁	13.5	931109	1.30	0.54	47.77	17.53	0.1817	2.5937	7	7	W	H 8.42 G 0.15	Opp.	43	n	0.20082259	Ω	311.82477	
1993 VK ₂	12.6	931129	76.51	254.65	81.58	15.65	0.1334	2.5848	9	0	N	rms res. 1''02 (M-C)		1897-1991	e	0.1068143	i	19.52725	
1993 VM ₂	14.7	931129	315.04	117.71	13.70	1.46	0.2388	2.6383	6	8	N	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Goffin						
1993 VR ₂	11.4	931109	197.85	338.34	246.08	18.97	0.1111	2.5674	5	6	E N	(490) Veritas	Obs.	144	M	32.80615	ω	200.56046	
1993 VW ₃	14.7	931109	24.30	342.57	28.81	5.27	0.2187	2.1994	4	6	N	H 8.32 G 0.15	Opp.	50	n	0.17467904	Ω	178.61312	
1993 VA ₅	13.5	931109	336.47	34.86	58.35	9.15	0.2607	2.8724	7	6	N	rms res. 1''00 (M-C)		1902-1990	e	0.1003965	i	9.26168	
1993 WB	14.0	931109	326.00	121.73	337.91	1.73	0.1821	2.3251	11	0	W	Epoch 1994 Feb. 17.0 TT = JDT 2449400.5	Bowell						
1993 WD	16.0	931109	234.91	138.24	56.66	61.18	0.2813	0.9731	7	0	W	(495) Eulalia	Obs.	74	M	106.47860	ω	206.08741	
1993 WE	12.9	931129	268.78	242.21	287.23	1.71	0.1419	2.7555	5	9	N	H 10.78 G 0.15	Opp.	16	n	0.25127528	Ω	186.77957	
3284 T-1	17.5	710330	13.46	154.75	10.39	2.04	0.2754	2.3853	7	4	E W	rms res. 0''84 (M-C)		1924-1990	e	0.1304337	i	2.27982	

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(514) Armida Obs. 208 *M* 319.47893 ω 119.82849
H 9.04 *G* 0.15 Opp. 51 *n* 0.18539067 Ω 269.28152
 rms res. 0".97 (M-C) 1903–1992 *e* 0.0442984 *i* 3.87406

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(534) Nassovia Obs. 50 *M* 255.27145 ω 337.42266
H 9.77 *G* 0.15 Opp. 21 *n* 0.20133247 Ω 94.37930
 rms res. 0".98 (M-C) 1904–1989 *e* 0.0598671 *i* 3.27491

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(548) Kressida Obs. 51 *M* 304.55028 ω 319.74292
H 11.26 *G* 0.15 Opp. 21 *n* 0.28591977 Ω 108.60416
 rms res. 1".04 (M-C) 1909–1993 *e* 0.1855988 *i* 3.86927

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(611) Valeria Obs. 79 *M* 303.60053 ω 254.01175
H 9.19 *G* 0.15 Opp. 24 *n* 0.19181666 Ω 190.00742
 rms res. 0".99 (M-C) 1901–1991 *e* 0.1242655 *i* 13.44180

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(624) Hektor Obs. 268 *M* 131.66762 ω 182.90231
H 7.49 *G* 0.15 Opp. 51 *n* 0.08331027 Ω 342.79763
 rms res. 0".94 (M-C) 1907–1990 *e* 0.0240427 *i* 18.23253

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(673) Edda Obs. 123 *M* 289.94631 ω 233.82258
H 10.20 *G* 0.15 Opp. 27 *n* 0.20864808 Ω 227.28849
 rms res. 0".78 (M-C) 1908–1993 *e* 0.0116419 *i* 2.86971

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(811) Nauheima Obs. 99 *M* 355.31922 ω 179.69688
H 10.78 *G* 0.15 Opp. 22 *n* 0.19988054 Ω 131.17633
 rms res. 0".75 (M-C) 1915–1992 *e* 0.0696631 *i* 3.13204

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(868) Lova Obs. 104 *M* 255.84936 ω 286.71607
H 10.22 *G* 0.15 Opp. 36 *n* 0.22179980 Ω 116.10991
 rms res. 0".99 (M-C) 1917–1993 *e* 0.1485856 *i* 5.82780

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(930) Westphalia Obs. 27 *M* 57.63922 ω 329.11387
H 11.4 *G* 0.15 Opp. 10 *n* 0.25994313 Ω 341.25619
 rms res. 0".72 (M-C) 1920–1988 *e* 0.1432421 *i* 15.29732

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(944) Hidalgo Obs. 243 *M* 74.72522 ω 56.62579
H 10.77 *G* 0.15 Opp. 15 *n* 0.07093663 Ω 21.64377
 rms res. 1".24 (M-C) 1920–1993 *e* 0.6584134 *i* 42.56576

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(953) Painleva Obs. 57 *M* 170.73116 ω 259.91048
H 10.3 *G* 0.15 Opp. 22 *n* 0.21192407 Ω 36.76667
 rms res. 0".79 (M-C) 1931–1992 *e* 0.1906092 *i* 8.66613

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(1253) Frisia Obs. 76 *M* 5.87731 ω 357.23484
H 11.5 *G* 0.15 Opp. 9 *n* 0.17582767 Ω 40.05739
 rms res. 0".67 (M-C) 1931–1990 *e* 0.2172830 *i* 1.35204

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(1289) Kutaissi Obs. 108 *M* 204.36678 ω 115.60675
H 10.73 *G* 0.15 Opp. 28 *n* 0.20388243 Ω 193.58001
 rms res. 0".90 (M-C) 1928–1991 *e* 0.0630594 *i* 1.60605

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(1552) Bessel Obs. 43 *M* 6.06089 ω 36.11232
H 11.0 *G* 0.15 Opp. 14 *n* 0.18890164 Ω 10.53411
 rms res. 0".93 (M-C) 1938–1993 *e* 0.1038200 *i* 9.86007

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(1744) Harriet Obs. 28 *M* 186.43236 ω 155.42990
H 13.6 *G* 0.15 Opp. 8 *n* 0.29601985 Ω 27.69507
 rms res. 0".91 (M-C) 1949–1990 *e* 0.1204589 *i* 4.41171

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(1977) Shura Obs. 21 *M* 94.29674 ω 309.19632
H 11.4 *G* 0.15 Opp. 9 *n* 0.21244875 Ω 332.70415
 rms res. 0".90 (M-C) 1954–1993 *e* 0.0719933 *i* 7.76514

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2042) Sitarski Obs. 40 *M* 58.64722 ω 53.94120
H 12.8 *G* 0.15 Opp. 7 *n* 0.21580267 Ω 17.70277
 rms res. 1".53 (M-C) 1960–1992 *e* 0.1505525 *i* 5.34106

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2060) Chiron Obs. 209 *M* 346.00074 ω 339.35658
H 6.0 *G* 0.15 Opp. 25 *n* 0.01934301 Ω 209.39783
 rms res. 0".71 (M-P) 1895–1993 *e* 0.3847424 *i* 6.92754

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2096) Väinö Obs. 14 *M* 102.47002 ω 38.47483
H 13.3 *G* 0.15 Opp. 6 *n* 0.25787918 Ω 305.36559
 rms res. 0".71 (M-V) 1939–1991 *e* 0.2333590 *i* 0.99081

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2168) Swope Obs. 36 *M* 32.50809 ω 10.17541
H 12.8 *G* 0.15 Opp. 7 *n* 0.25663111 Ω 314.30004
 rms res. 0".77 (M-C) 1955–1993 *e* 0.1541783 *i* 4.74863

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2201) Oljato Obs. 64 *M* 131.52261 ω 95.94968
H 15.25 *G* 0.15 Opp. 8 *n* 0.30713154 Ω 76.90587
 rms res. 1".08 (M-C) 1931–1993 *e* 0.7109069 *i* 2.51589

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2317) Galya Obs. 59 *M* 102.49516 ω 203.46497
H 13.42 *G* 0.15 Opp. 6 *n* 0.24600487 Ω 187.67352
 rms res. 0".79 (M-C) 1960–1992 *e* 0.1668024 *i* 4.17315

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2534) Houzeau Obs. 88 *M* 78.66742 ω 201.79312
H 10.9 *G* 0.15 Opp. 16 *n* 0.17756913 Ω 168.36081
 rms res. 0".68 (M-C) 1931–1989 *e* 0.1829287 *i* 0.80210

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2626) Belnika Obs. 45 *M* 303.25618 ω 116.42471
H 11.7 *G* 0.15 Opp. 12 *n* 0.20476663 Ω 356.28587
 rms res. 0".89 (M-C) 1933–1993 *e* 0.0238649 *i* 1.49593

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2628) Kopal Obs. 26 *M* 295.55172 ω 148.31739
H 12.7 *G* 0.15 Opp. 10 *n* 0.19871765 Ω 206.93740
 rms res. 0".87 (M-C) 1955–1993 *e* 0.1490452 *i* 1.33082

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2630) Hermod Obs. 30 *M* 167.58604 ω 18.04561
H 11.8 *G* 0.15 Opp. 11 *n* 0.18232811 Ω 3.72685
 rms res. 0".79 (M-C) 1915–1993 *e* 0.1190959 *i* 1.93699

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2691) Sersic Obs. 40 *M* 312.31896 ω 276.51556
H 13.4 *G* 0.15 Opp. 8 *n* 0.29309569 Ω 320.21736
 rms res. 0".68 (M-C) 1950–1991 *e* 0.1126578 *i* 3.59718

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2699) Kalinin Obs. 34 *M* 61.87766 ω 294.23612
H 11.7 *G* 0.15 Opp. 6 *n* 0.23000209 Ω 64.44790
 rms res. 0".88 (M-C) 1950–1993 *e* 0.1692454 *i* 16.13095

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2709) Sagan Obs. 21 *M* 233.84439 ω 308.01833
H 13.3 *G* 0.15 Opp. 8 *n* 0.30295996 Ω 241.39596
 rms res. 0".86 (M-V) 1959–1993 *e* 0.0693849 *i* 2.73007

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2724) Orlov Obs. 47 *M* 92.47759 ω 144.88863
H 11.7 *G* 0.15 Opp. 13 *n* 0.19705561 Ω 153.88322
 rms res. 0".77 (M-C) 1948–1993 *e* 0.1234789 *i* 3.97442

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2824) Franke Obs. 36 *M* 54.09520 ω 71.17938
H 13.8 *G* 0.15 Opp. 8 *n* 0.27794369 Ω 313.11929
 rms res. 1".02 (M-V) 1929–1989 *e* 0.2076614 *i* 3.37114

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2836) Sobolev Obs. 15 *M* 84.24710 ω 323.38946
H 11.4 *G* 0.15 Opp. 8 *n* 0.18955787 Ω 348.45377
 rms res. 0".80 (M-C) 1930–1993 *e* 0.0951286 *i* 9.68429

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2869) Nepryadva Obs. 21 *M* 97.91327 ω 297.98126
H 12.1 *G* 0.15 Opp. 5 *n* 0.23027204 Ω 357.52277
 rms res. 1".02 (M-V) 1953–1993 *e* 0.1745943 *i* 12.88299

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2885) Palva Obs. 36 *M* 76.97409 ω 43.58545
H 14.1 *G* 0.15 Opp. 9 *n* 0.29454583 Ω 349.52150
 rms res. 0".86 (M-V) 1939–1991 *e* 0.1948348 *i* 2.87702

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(2924) Mitake-mura Obs. 28 *M* 10.98098 ω 196.53525
H 12.7 *G* 0.15 Opp. 7 *n* 0.20085452 Ω 111.00319
 rms res. 0".77 (M-C) 1954–1989 *e* 0.0458126 *i* 3.13558

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3046) Molière Obs. 30 *M* 303.14995 ω 264.22639
H 12.2 *G* 0.15 Opp. 6 *n* 0.17790566 Ω 188.96153
 rms res. 0".76 (M-C) 1960–1993 *e* 0.1575948 *i* 18.34450

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3050) Carrera Obs. 17 *M* 178.01014 ω 84.58257
H 14.1 *G* 0.15 Opp. 5 *n* 0.29708863 Ω 240.43924
 rms res. 1".02 (M-C) 1972–1991 *e* 0.1894648 *i* 1.30287

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3085) Donna Obs. 30 *M* 355.79338 ω 158.66032
H 13.1 *G* 0.15 Opp. 6 *n* 0.26704066 Ω 271.25945
 rms res. 0".84 (M-C) 1949–1993 *e* 0.1005534 *i* 3.82316

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3140) Stellafane Obs. 26 *M* 141.64990 ω 263.60659
H 10.9 *G* 0.15 Opp. 9 *n* 0.18838264 Ω 102.11186
 rms res. 1".03 (M-C) 1954–1991 *e* 0.1106363 *i* 11.26314

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3350) Scobee Obs. 17 *M* 308.14109 ω 330.19760
H 14.3 *G* 0.15 Opp. 6 *n* 0.28059103 Ω 353.99657
 rms res. 0".89 (M-C) 1952–1987 *e* 0.2040155 *i* 3.40851

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3512) Eriepa Obs. 23 *M* 42.09326 ω 300.17691
H 13.6 *G* 0.15 Opp. 5 *n* 0.29229856 Ω 113.08266
 rms res. 1".12 (M-C) 1979–1989 *e* 0.2482036 *i* 7.48344

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3523) Arina Obs. 18 *M* 169.93910 ω 158.67582
H 12.4 *G* 0.15 Opp. 7 *n* 0.26990751 Ω 55.84961
 rms res. 0".91 (M-C) 1930–1988 *e* 0.1364921 *i* 9.68728

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3525) Paul Obs. 27 *M* 54.64720 ω 187.04063
H 12.0 *G* 0.15 Opp. 7 *n* 0.18162091 Ω 280.85958
 rms res. 0".81 (M-C) 1953–1991 *e* 0.0911756 *i* 2.52784

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5
(3561) Devine Obs. 22 *M* 61.19686 ω 181.02787
H 10.7 *G* 0.15 Opp. 7 *n* 0.12480176 Ω 118.20005
 rms res. 0".97 (M-C) 1954–1990 *e* 0.1328096 *i* 9.65248

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams
(3603) 1981 RM Obs. 23 *M* 72.48073 ω 347.71292
H 12.8 *G* 0.15 Opp. 5 *n* 0.23912785 Ω 278.44098
 rms res. 0".88 (M-C) 1981–1993 *e* 0.1231433 *i* 5.23062

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(3657) Ermolova Obs. 14 *M* 160.02331 ω 101.65275
H 12.6 *G* 0.15 Opp. 7 *n* 0.28034047 Ω 237.61709
 rms res. 0".84 (M-C) 1925–1989 *e* 0.1328146 *i* 5.78315

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Sitarski
(3836) Lem Obs. 24 *M* 182.25038 ω 204.52304
H 13.8 *G* 0.15 Opp. 7 *n* 0.29433939 Ω 78.24329
 rms res. 0".99 (M-C) 1978–1991 *e* 0.1461590 *i* 2.03922

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams
(3883) 1972 RQ Obs. 17 *M* 29.40583 ω 181.83343
H 11.7 *G* 0.15 Opp. 8 *n* 0.23362788 Ω 169.36706
 rms res. 0".86 (M-C) 1934–1993 *e* 0.1243519 *i* 12.84315

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4148) McCartney Obs. 34 *M* 172.06431 ω 214.65016
H 12.9 *G* 0.15 Opp. 8 *n* 0.29306332 Ω 325.97317
 rms res. 0".88 (M-C) 1935–1992 *e* 0.0971008 *i* 5.20243

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4204) Barsig Obs. 18 *M* 240.79670 ω 322.66261
H 13.0 *G* 0.15 Opp. 6 *n* 0.28835823 Ω 223.01186
 rms res. 0".88 (M-C) 1954–1993 *e* 0.0854017 *i* 3.81077

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4243) 1981 GF₁ Obs. 41 *M* 14.39262 ω 359.20912
H 12.5 *G* 0.15 Opp. 5 *n* 0.18701808 Ω 345.44735
 rms res. 0".83 (M-C) 1976–1993 *e* 0.1182713 *i* 9.01852

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4380) Geyer Obs. 39 *M* 334.10522 ω 49.61793
H 11.8 *G* 0.15 Opp. 7 *n* 0.18618596 Ω 346.25471
 rms res. 0".85 (M-C) 1935–1991 *e* 0.0713443 *i* 9.89979

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4513) 1971 QW₁ Obs. 21 *M* 50.07114 ω 199.06656
H 11.6 *G* 0.15 Opp. 5 *n* 0.18748616 Ω 209.49352
 rms res. 0".57 (M-C) 1971–1992 *e* 0.0812509 *i* 9.93798

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4580) Child Obs. 27 *M* 60.11243 ω 14.77771
H 11.7 *G* 0.15 Opp. 6 *n* 0.23027499 Ω 169.92463
 rms res. 0".89 (M-C) 1952–1993 *e* 0.1068112 *i* 13.91375

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4599) 1985 RZ₂ Obs. 43 *M* 186.88186 ω 255.89800
H 12.6 *G* 0.15 Opp. 6 *n* 0.18273700 Ω 110.40897
 rms res. 0".68 (M-C) 1950–1991 *e* 0.1669198 *i* 3.45036

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4639) Minox Obs. 25 *M* 356.05316 ω 251.16661
H 13.0 *G* 0.15 Opp. 4 *n* 0.24088408 Ω 33.45109
 rms res. 0".95 (M-V) 1954–1990 *e* 0.1794182 *i* 7.92208

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams
(4727) Ravel Obs. 37 *M* 342.29875 ω 228.64317
H 12.5 *G* 0.15 Opp. 5 *n* 0.19990811 Ω 133.47600
 rms res. 0".89 (M-C) 1979–1993 *e* 0.0943427 *i* 3.19746

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4762) 1982 SC₆ Obs. 16 *M* 349.98463 ω 75.35102
H 13.5 *G* 0.15 Opp. 5 *n* 0.27204293 Ω 12.04959
 rms res. 0".87 (M-V) 1964–1993 *e* 0.1998744 *i* 6.92723

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4839) Daisetsuzan Obs. 19 *M* 52.90721 ω 179.71147
H 12.8 *G* 0.15 Opp. 6 *n* 0.25942578 Ω 177.40977
 rms res. 0".91 (M-C) 1951–1993 *e* 0.0707143 *i* 7.56881

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4852) Pamjones Obs. 19 *M* 236.73988 ω 232.13237
H 13.7 *G* 0.15 Opp. 7 *n* 0.28189315 Ω 43.30552
 rms res. 0".95 (M-C) 1954–1992 *e* 0.1027974 *i* 6.77892

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4854) 1981 ED₂₇ Obs. 48 *M* 131.89629 ω 61.99099
H 12.9 *G* 0.15 Opp. 6 *n* 0.19109879 Ω 174.94696
 rms res. 0".72 (M-C) 1952–1993 *e* 0.0556657 *i* 10.68286

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(4861) 1987 QU₁₀ Obs. 16 *M* 124.13100 ω 232.89544
H 12.6 *G* 0.15 Opp. 5 *n* 0.20077202 Ω 97.18550
 rms res. 1".16 (M-C) 1956–1991 *e* 0.2261494 *i* 3.54481

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(5117) Mokotoyama Obs. 29 *M* 56.61383 ω 152.03305
H 11.8 *G* 0.15 Opp. 6 *n* 0.18432362 Ω 23.32660
 rms res. 0".63 (M-C) 1955–1992 *e* 0.0758204 *i* 9.78457

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(5219) 1976 GU₃ Obs. 22 *M* 50.68387 ω 158.21273
H 12.4 *G* 0.15 Opp. 6 *n* 0.17329242 Ω 55.34557
 rms res. 0".84 (M-C) 1954–1993 *e* 0.1394091 *i* 2.04155

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Bowell
(5487) 1991 UM₄ Obs. 24 *M* 12.76041 ω 241.59556
H 13.0 *G* 0.15 Opp. 5 *n* 0.26292869 Ω 356.04955
 rms res. 0".75 (M-C) 1953–1993 *e* 0.1584453 *i* 2.31483

(5757)* 1967 JN = 1973 UV₃ = 1992 JC

Discovered 1967 May 6 by C. U. Cesco and A. R. Klemola at El Leoncito.
 Id. T. Urata (*MPC* 20327)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	85.94200	(2000.0)	P	Q
<i>n</i>	0.19531440	ω 244.10932	+0.20162187	+0.96836596
<i>a</i>	2.9420262	Ω 38.45188	-0.79259002	+0.24949633
<i>e</i>	0.1816477	<i>i</i> 13.67575	-0.57545607	-0.00435227
<i>P</i>	5.05	<i>H</i> 12.0	<i>G</i> 0.15	

Residuals in seconds of arc

670506 808	0.1+	0.1+	920503 385	0.7-	0.6-	930918 033	0.1-	0.2-
670510 808	0.3-	0.0	920525 385	0.2+	1.3-	930918 033	1.3-	0.6-
670516 808	0.4-	1.3-	920525 385	1.1+	0.3+	930921 033	0.7+	1.3+
731029 095	1.7+	1.8-	920525 385	1.1+	0.1+	931017 033	0.4+	0.4-
920501 385	0.5+	0.1-	930903 413	0.2-	0.4+	931017 033	0.6-	0.5-
920501 385	2.0-	0.3+	930903 413	0.1-	0.5+			
920503 385	0.1+	1.5+	930903 413	0.0	0.8+			

(5758)* 1976 QZ₁ = 1976 SN₁₀ = 1953 VY₂ = 1973 SK₅

Discovered 1976 Aug. 20 by M. R. Cesco at El Leoncito.

Id. H. Oishi (*MPC* 13477), P. Herget (d, *MPC* 6464), T. Urata (d, *NOC* 1227)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	63.56363	(2000.0)	P	Q
<i>n</i>	0.29245335	ω 264.56230	+0.83459447	+0.54082076
<i>a</i>	2.2478379	Ω 62.65818	-0.44712650	+0.77610442
<i>e</i>	0.0621476	<i>i</i> 6.76997	-0.32176074	+0.32430669
<i>P</i>	3.37	<i>H</i> 13.6	<i>G</i> 0.15	

Residuals in seconds of arc

531109 024	0.4-	0.8-	760916 808	0.1-	0.4+	931012 801	0.6-	0.1+
730927 095	0.1+	1.0+	760916 808	(3.2-	1.1+)	931012 801	0.9-	0.7+
760820 808	0.3-	0.2-	760919 808	(1.9+	8.9+)	931014 801	0.9-	0.0
760820 808	0.6-	0.9-	760919 808	(0.5-	4.2+)	931014 801	0.8-	0.7+
760823 808	0.8+	0.3+	901119 801	0.0	0.2+	931110 801	0.3+	0.8-
760823 808	0.8+	0.1-	901119 801	0.1+	0.1+	931111 801	0.4+	0.2-
760828 808	0.7-	0.4+	901214 801	0.3+	0.2-	931113 801	0.8+	0.0
760828 808	0.3-	0.5+	901214 801	0.3+	0.3-	931113 801	0.7+	0.2-
760830 808	1.0+	1.0-	901215 801	0.0	0.1-			
760830 808	0.6+	0.6-	901215 801	0.3+	0.1-			

(5759)* 1980 BJ₄ = 1988 WH = 1992 PM₅

Discovered 1980 Jan. 22 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Id. A. Lowe (*MPC* 21784)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	135.23409	(2000.0)	P	Q
<i>n</i>	0.20096716	ω 244.42076	+0.53511744	+0.84361159
<i>a</i>	2.8865958	Ω 58.00220	-0.75508597	+0.50119510
<i>e</i>	0.0332510	<i>i</i> 2.99911	-0.37880669	+0.19267317
<i>P</i>	4.90	<i>H</i> 12.2	<i>G</i> 0.15	

Residuals in seconds of arc

800122 095	1.9-	0.9-	881117 399	0.7+	1.1+	920806 675	0.6-	0.4+
800123 095	1.5+	1.1-	881202 399	1.1-	0.2+	931014 801	0.2-	0.9+
881114 399	1.5+	0.3-	881202 399	1.0-	1.4-	931019 801	0.3-	0.4+
881114 399	1.8-	0.2-	881202 399	(2.8+	0.0)	931019 801	1.8-	1.9-
881114 399	0.5+	1.2-	881202 399	(4.0+	0.3-)	931111 801	0.6+	0.5+
881117 399	0.7+	0.7+	920803 675	1.1+	1.5-	931111 801	0.5+	0.3+

881117 399	0.6-	1.1-	920803 675	0.2+	0.7-	931113 801	0.1-	1.0+
881117 399	1.5+	0.6+	920806 675	0.1-	0.2+	931113 801	0.5+	1.2+

(5760)* 1981 EX₁₃

Discovered 1981 Mar. 1 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	63.18187	(2000.0)	P	Q
<i>n</i>	0.19247329	ω 105.07636	+0.70999986	+0.69907907
<i>a</i>	2.9709071	Ω 210.71797	-0.69288862	+0.67201674
<i>e</i>	0.0953956	<i>i</i> 9.55431	-0.12572012	+0.24429890
<i>P</i>	5.12	<i>H</i> 12.7	<i>G</i> 0.15	

Residuals in seconds of arc

781026 675	0.3+	0.6+	810312 413	1.5+	0.7-	920623 413	1.9+	0.1-
781027 675	0.7+	0.8-	810406 413	0.7-	1.6+	930815 801	0.0	1.1+
810209 413	0.1+	0.8+	810406 413	(2.3-	2.5+)	930815 801	0.2-	1.1+
810212 413	0.3+	0.3-	810408 413	0.6-	0.3+	930822 801	0.2+	0.4+
810301 413	0.7-	0.3+	810408 413	(3.2+	2.8-)	930822 801	0.3+	0.0
810301 413	0.1+	0.1-	810409 413	0.4-	0.8-	930912 801	0.1-	0.3+
810306 413	0.7-	1.5+	810409 413	0.8+	1.0-	930912 801	0.3-	0.1-
810306 413	0.6+	0.7-	810501 413	0.1+	1.7-	930914 801	1.2-	1.5-
810308 413	0.8-	0.8+	810503 413	(1.6+	3.3-)	930914 801	0.1-	0.2+
810308 413	0.6+	0.0	870624 801	1.1-	0.1+			
810312 413	0.8-	1.6+	920623 413	0.2+	0.5-			

(5761)* 1981 ED₂₁

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

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	1.36737	(2000.0)	P	Q
<i>n</i>	0.21770992	ω 95.95412	+0.12696440	-0.99121097
<i>a</i>	2.7366373	Ω 346.57961	+0.83490929	+0.12702039
<i>e</i>	0.3569678	<i>i</i> 9.21312	+0.53554321	+0.03696808
<i>P</i>	4.53	<i>H</i> 14.2	<i>G</i> 0.15	

Residuals in seconds of arc

810209 413	0.1-	1.0-	810406 413	2.1-	0.0	900415 809	1.4+	0.1+
810213 413	0.0	0.3-	810406 413	0.9+	0.6-	900416 809	0.5+	0.2+
810302 413	(2.7-	1.1+)	810407 413	1.4-	0.4-	900416 809	0.0	0.2+
810302 413	0.7+	0.1-	810407 413	0.8+	0.1+	900416 809	1.7+	0.5+
810303 413	0.2+	0.3+	810412 413	1.7-	0.1-	900417 809	1.0-	0.5+
810303 413	0.6+	0.0	810412 413	1.6+	1.1-	900417 809	1.3-	0.0
810307 413	2.3-	1.2+	810430 413	0.3-	0.6-	930912 801	0.0	0.3-
810307 413	1.0+	0.3+	810502 413	1.2+	0.6-	930912 801	0.1+	0.0
810311 413	1.5-	0.1+	850215 691	0.7-	1.8+	930914 801	0.1+	0.2-
810311 413	0.4+	0.4-	850215 691	0.9-	1.2+	930914 801	0.3-	0.1+
810316 413	(2.7-	0.1-)	850315 691	0.2+	0.5+	931116 801	0.3+	0.4-
810316 413	1.3+	0.2-	850315 691	0.6+	0.2-	931116 801	0.4+	0.7-
810329 413	1.0-	0.4-	850315 691	0.3+	0.1+	931117 801	0.4+	0.6-
810329 413	0.7+	0.4-	850326 691	0.0	0.3-	931117 801	0.5+	0.6-
810405 413	1.6-	0.5+	850326 691	0.3+	0.1-			
810405 413	0.5-	0.5-	850326 691	0.1-	0.2-			

(5762)* 1981 EG₂₈ = 1968 UH₂ = 1979 YP₄ = 1992 JU₃

Discovered 1981 Mar. 2 by S. J. Bus at Siding Spring in the course of the U.K. Schmidt-Caltech Asteroid Survey.
 Id. D. W. E. Green (*MPC* 11150), W. Landgraf (*ibid.*), G. V. Williams (*MPC* 22050)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5				Williams			
<i>M</i>	57.87331	(2000.0)		P	Q		
<i>n</i>	0.27562387	ω	157.25315	+0.98209616	+0.18756933		
<i>a</i>	2.3384325	Ω	191.97548	-0.18318054	+0.92925036		
<i>e</i>	0.1353798	<i>i</i>	4.82714	-0.04395466	+0.31829469		
<i>P</i>	3.58	<i>H</i>	14.1	<i>G</i>	0.15		

Residuals in seconds of arc

681023 095	(3.0- 4.1-)	810315 413	1.5+	0.8-	920508 809	0.4+	1.4+
770211 675	0.1- 0.3-	810405 413	1.9-	0.5+	920508 809	0.5+	0.3+
770212 675	0.6- 0.9-	810405 413	(2.5+ 2.2-)		920508 809	0.7+	0.5-
791218 095	1.2+ 1.4-	810406 413	1.5-	0.6-	930919 691	0.2-	0.3-
810212 413	0.1- 0.6-	810407 413	1.9-	0.9+	930919 691	0.9-	0.0
810302 413	0.6+ 2.1+	810410 413	0.0	0.9-	930919 691	1.0-	0.0
810302 413	(0.5- 2.3+)	810410 413	(2.3+ 2.3-)		931111 801	0.1-	0.1-
810306 413	0.4- 0.4+	810501 413	0.4+	0.4-	931116 801	1.1+	0.2-
810306 413	1.0+ 0.8+	810503 413	0.2-	1.7-	931116 801	0.8+	0.5-
810311 413	0.9+ 1.3-	890707 675	0.6+	1.2-			
810315 413	0.7- 0.8-	890707 675	0.0	1.9-			

(5763)* 1982 MA = 1990 QS₅

Discovered 1982 June 23 by A. C. Gilmore and P. M. Kilmartin at Mount John University Observatory.
 Id. E. Bowell (*MPC* 17200)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5				Bowell			
<i>M</i>	351.05289	(2000.0)		P	Q		
<i>n</i>	0.25615715	ω	129.71131	+0.48317606	+0.87552282		
<i>a</i>	2.4554536	Ω	169.18164	-0.80462479	+0.44442301		
<i>e</i>	0.1669983	<i>i</i>	0.25353	-0.34513743	+0.18959953		
<i>P</i>	3.85	<i>H</i>	14.5	<i>G</i>	0.15		

Residuals in seconds of arc

710628 675	0.7+ 1.9-	820702 474	0.4-	0.9-	900911 809	1.5+	0.4+
710629 675	0.2- 0.6+	900822 675	1.4-	1.4-	900914 675	(2.0- 2.4-)	
780803 413	(2.3+ 1.9+)	900822 675	0.3+	1.2-	900914 675	(2.1- 1.9-)	
820623 474	1.2- 0.1+	900828 095	1.5-	0.2+	930323 474	0.1+	0.5-
820623 474	0.3- 0.3-	900828 095	(2.4- 2.0-)		930323 474	0.3-	0.9-
820626 474	0.2- 0.3+	900829 675	1.1-	0.5-	930325 474	0.2-	1.0-
820626 474	0.9- 0.4-	900829 675	1.4-	0.8-	930325 474	(2.9- 0.1+)	
820627 474	0.9+ 0.6+	900909 809	0.6+	1.0+	930401 474	0.5-	2.0+
820627 474	0.0 0.8+	900909 809	1.2+	1.0+	930401 474	(1.2- 2.5+)	
820628 474	1.8+ 0.6+	900909 809	(1.9+ 1.4+)		930423 474	0.6-	0.2-
820628 474	1.1+ 0.4+	900910 809	1.2+	0.5+	930424 474	0.5+	0.4-
820702 474	0.9- 0.7-	900911 809	1.2+	0.4+	930424 474	0.5+	0.4-

(5764)* 1985 CS₁ = 1951 JW = 1989 PV₁

Discovered 1985 Feb. 10 by H. Debehogne at the European Southern Observatory.
 Id. C. M. Bardwell (*MPC* 16696)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5				Bardwell			
<i>M</i>	147.62446	(2000.0)		P	Q		
<i>n</i>	0.28691052	ω	76.55414	-0.34628808	+0.93807194		
<i>a</i>	2.2766961	Ω	173.15903	-0.89064376	-0.32529958		
<i>e</i>	0.2139301	<i>i</i>	4.94940	-0.29468333	-0.11916889		
<i>P</i>	3.44	<i>H</i>	13.3	<i>G</i>	0.15		

Residuals in seconds of arc

510504 711	(3.5- 8.8-)	Y	850218 809	0.3+	1.4+	890805 071	0.0	1.1-
850210 809	0.0 0.5-		850219 809	0.4-	0.3-	920302 399	2.2-	0.4+
850210 809	0.4+ 0.7-		850219 809	0.4-	0.1-	920302 399	1.9-	2.1+
850210 809	0.4+ 1.1-		850219 809	0.2-	0.0	920303 399	0.7-	0.6-
850211 809	0.4+ 0.6-		850220 809	1.0-	0.5-	920303 399	1.8-	0.4+
850211 809	0.5+ 0.8-		850220 809	0.7-	0.2-	920305 801	1.4+	0.5-
850211 809	0.7+ 1.0-		850220 809	0.3-	0.1-	920305 801	1.4+	0.3-
850212 809	0.3+ 0.7-		850221 809	0.0	1.4+	920307 894	0.8+	1.2-
850212 809	0.5+ 0.8-		850221 809	0.0	1.4+	920307 894	1.7+	2.5-
850212 809	0.6+ 0.8-		850221 809	0.5+	1.6+	920401 801	0.7+	0.1-
850214 809	0.9+ 0.4-		850224 809	0.3-	0.2+	920401 801	0.7+	0.2-
850214 809	1.1+ 0.5-		850224 809	0.1-	0.2+	920403 033	0.2-	0.8+
850214 809	1.0+ 0.5-		850224 809	0.2+	0.1+	920403 033	0.2-	1.4+
850215 809	0.3+ 0.2+		850225 809	0.6-	0.3-	930922 303	0.4-	1.0-
850215 809	0.1- 0.1+		850225 809	0.3-	0.5-	930922 303	0.4-	1.0-
850215 809	0.0 0.1+		850225 809	0.1+	0.4-	930922 303	0.6+	1.3+
850216 809	0.3- 0.1-		850226 809	0.3+	0.8-	930923 303	(4.8+ 1.8+)	
850216 809	0.2- 0.2+		850226 809	0.0	0.8-	931013 675	0.0	1.4-
850216 809	0.2- 0.2+		850226 809	0.0	0.9-	931013 675	0.6+	1.5-
850217 809	0.7- 1.0+		850227 809	1.4-	0.8-	931015 675	0.0	0.7-
850217 809	0.5- 0.5+		850227 809	1.2-	0.9-	931111 801	0.3+	0.9+
850217 809	0.6- 0.5+		850228 809	0.3-	0.8-	931111 801	0.5+	0.7+
850218 809	0.1- 1.6+		850228 809	0.7+	0.6-	931116 801	1.7-	0.3-
850218 809	0.2- 1.5+		890805 071	0.2+	2.1-	931116 801	1.4+	0.8+

(5765)* 1986 GU

Discovered 1986 Apr. 4 by C. S. Shoemaker at Palomar.

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5				Williams			
<i>M</i>	343.79644	(2000.0)		P	Q		
<i>n</i>	0.22988845	ω	58.62340	-0.64627985	-0.56271661		
<i>a</i>	2.6391127	Ω	81.72444	+0.39208020	-0.82433566		
<i>e</i>	0.2666859	<i>i</i>	31.38980	+0.65467203	-0.06181219		
<i>P</i>	4.29	<i>H</i>	12.9	<i>G</i>	0.15		

Residuals in seconds of arc

860404 675	1.5- 0.4+	860719 675	0.1+	0.2+	900327 657	(1.4- 3.3-)	
860404 675	0.7- 1.0+	860815 675	0.2+	0.6-	900327 657	(1.7- 3.2-)	
860505 675	1.7- 1.2+	860815 675	0.1+	0.6-	900329 657	1.7-	1.0-
860508 675	0.1+ 0.3-	860816 675	0.6+	1.1-	931019 801	0.4+	0.9+
860509 675	0.4- 0.4+	860816 675	0.4+	1.2-	931019 801	0.7+	0.9+
860609 675	1.5+ 0.1+	880916 474	0.9-	0.5-	931113 801	0.4-	0.0
860609 675	1.5+ 0.4+	880916 474	0.6-	0.7+	931113 801	0.1-	0.3-
860610 675	1.3+ 0.3-	891127 801	1.1+	0.4+	931117 801	0.1-	0.0
860610 675	1.3+ 0.3-	891127 801	0.5+	0.3+	931117 801	1.3-	0.4-
860718 675	0.2+ 1.1+	891227 801	0.9+	0.1+	931117 801	0.2+	0.3+
860718 675	0.2+ 0.3+	891229 801	0.4-	0.3+	931117 801	0.3+	0.2+
860719 675	0.3+ 0.3+	891229 801	0.1-	0.3+			

(5766)* 1986 QR₃ = 1989 LN

Discovered 1986 Aug. 29 by H. Debehogne at the European Southern Observatory.

Id. C. M. Bardwell (*MPC* 14787)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Bardwell	
<i>M</i>	101.12141	<i>P</i>	<i>Q</i>		
<i>n</i>	0.28214428	ω	252.95965	+0.20223963	+0.97852204
<i>a</i>	2.3022645	Ω	28.80101	-0.86406342	+0.19747429
<i>e</i>	0.0844806	<i>i</i>	4.75327	-0.46097021	+0.05914834
<i>P</i>	3.49	<i>H</i>	13.3	<i>G</i>	0.15

Residuals in seconds of arc

551025 675	0.7+	1.0-	860902 809	0.1-	0.2+	890630 675	0.8+	0.8+
551025 675	0.1+	1.3-	860902 809	0.1-	0.3+	890630 675	1.7-	0.6+
860829 809	0.1-	0.6+	860904 809	1.1-	0.0	890703 675	2.0+	0.3-
860829 809	0.2+	0.9+	860904 809	1.1-	0.0	890703 675	0.2-	0.8+
860829 809	0.2+	0.8+	860904 809	1.0-	0.1-	920301 801	1.9+	1.2+
860831 809	0.1+	1.0+	860907 809	(2.6-	0.4-)	920301 801	1.1+	1.7+
860831 809	0.0	1.0+	860907 809	(2.5-	0.5-)	920308 399	(3.0+	1.6+)
860831 809	0.2-	0.9+	860907 809	(2.6-	0.6-)	920308 399	2.2+	1.6+
860901 809	0.3-	0.4+	890604 675	0.6-	1.5-	920401 801	1.0-	1.0+
860901 809	0.1+	0.3+	890604 675	0.2-	1.4-	920401 801	0.5-	1.0+
860901 809	0.1+	0.3+	890606 675	0.4+	1.6-			
860902 809	0.2-	0.4+	890606 675	1.3-	0.3-			

(5767)* 1986 RV₂ = 1979 OW₁₅ = 1989 LC

Discovered 1986 Sept. 6 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. C. M. Bardwell (*MPC* 14789)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Bardwell	
<i>M</i>	107.71646	<i>P</i>	<i>Q</i>		
<i>n</i>	0.28784731	ω	104.73639	+0.39008276	+0.92071245
<i>a</i>	2.2717538	Ω	188.24931	-0.87184634	+0.36543495
<i>e</i>	0.1858639	<i>i</i>	4.45171	-0.29617460	+0.13691560
<i>P</i>	3.42	<i>H</i>	14.0	<i>G</i>	0.15

Residuals in seconds of arc

790730 095	(0.4+	4.4+)	890605 675	1.7-	1.9+	931012 801	0.1+	0.5+
860906 688	(5.0-	2.5-)	890605 675	0.1+	0.1+	931013 675	0.5+	0.6-
860906 688	(1.5+	3.2-)	890630 675	0.8+	0.6-	931013 675	0.7-	1.4-
860912 688	0.2+	0.8+	890630 675	0.5+	0.3-	931015 675	0.1-	0.2-
860912 688	0.9-	0.0	890703 675	0.5+	0.0	931111 801	0.1-	0.8+
861005 688	0.6+	0.0	890703 675	0.3+	1.2+	931111 801	0.1+	1.0+
861005 688	(3.2-	3.5-)	920326 691	0.6+	0.7-	931113 801	0.1-	0.7+
890603 675	0.8-	0.5-	920326 691	0.1+	2.4+	931113 801	0.2-	0.6+
890603 675	0.3+	1.1-	920326 691	(4.3+	0.5+)			

(5768)* 1986 TN₁ = 1986 TT₁₇ = 1979 XK₁

Discovered 1986 Oct. 4 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. A. Lowe (*MPC* 18286), G. V. Williams (d, *ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Williams	
<i>M</i>	252.35806	<i>P</i>	<i>Q</i>		
<i>n</i>	0.26952317	ω	271.38847	-0.82214632	-0.54301685
<i>a</i>	2.3735878	Ω	235.75181	+0.56887554	-0.77240878
<i>e</i>	0.0704008	<i>i</i>	11.93216	+0.02135524	-0.32941977
<i>P</i>	3.66	<i>H</i>	12.9	<i>G</i>	0.15

Residuals in seconds of arc

791214 095	0.2-	0.3+	861105 688	0.7-	0.3-	920604 675	0.6+	1.2-
791218 095	0.3+	1.5-	861105 688	0.4+	0.7+	930912 801	0.2-	1.2-
810508 675	0.9-	0.1-	901117 399	1.1-	1.5-	930912 801	0.3-	0.7-
810509 675	0.4-	1.1-	901117 399	0.9+	0.7-	930919 801	0.1-	0.4-
861004 688	1.1+	0.5-	901121 399	1.3-	0.3-	930919 801	0.2-	0.4-
861004 688	1.0+	1.4+	901121 399	(1.4+	2.7-)	931012 801	0.0	0.5+
861011 095	0.4+	0.4-	920604 675	0.8+	1.5-	931012 801	0.1-	0.3+

(5769)* 1987 PL = 1981 GT₁ = 1982 RP

Discovered 1987 Aug. 6 at Caussols.

Id. B. G. Marsden (*MPC* 15246)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Marsden	
<i>M</i>	105.82826	<i>P</i>	<i>Q</i>		
<i>n</i>	0.19026413	ω	27.18841	+0.77521051	+0.61522176
<i>a</i>	2.9938596	Ω	294.10754	-0.60436917	+0.65628390
<i>e</i>	0.0985579	<i>i</i>	9.03593	-0.18381124	+0.43679929
<i>P</i>	5.18	<i>H</i>	12.1	<i>G</i>	0.15

Residuals in seconds of arc

810408 413	0.9+	0.7-	920705 675	0.5-	1.1-	920825 801	0.1+	0.1+
810408 413	0.8-	0.1-	920705 675	1.1-	0.8-	920825 801	0.2+	0.1+
820915 688	(4.3+	2.0-)	920726 801	0.1-	0.2+	920901 801	0.5+	0.4-
820915 688	0.7+	1.7-	920726 801	0.0	0.3+	920901 801	0.4+	0.4-
870806 010	1.6-	1.6-	920729 801	0.1-	0.5+	931013 801	0.0	0.1-
870806 010	(2.4+	0.4-)	920729 801	0.2-	0.6+	931013 801	0.2+	0.1-
870806 010	1.7+	0.2+	920804 675	0.0	0.4+	931111 801	0.1-	0.0
870827 095	0.0	1.3+	920805 675	0.1+	0.2-	931111 801	0.1+	0.1-
870902 095	(1.3-	4.3+)	920805 675	0.3+	0.5-	931113 801	0.0	0.2-
870916 095	1.0-	1.1+	920807 675	0.9+	0.1+	931113 801	0.1-	0.2-
870920 095	0.2-	1.1+	920807 675	0.3-	0.4+			

(5770)* 1987 RY = 1964 TP₁ = 1982 UU₆ = 1982 VV₈

Discovered 1987 Sept. 12 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (*MPC* 13607), L. G. Karachkina (d, *ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		Nakano	
<i>M</i>	52.76109	<i>P</i>	<i>Q</i>		
<i>n</i>	0.16989185	ω	253.08116	+0.71618131	+0.69788784
<i>a</i>	3.2286504	Ω	62.66057	-0.63769363	+0.65789610
<i>e</i>	0.1637494	<i>i</i>	0.39176	-0.28360388	+0.28306409
<i>P</i>	5.80	<i>H</i>	12.2	<i>G</i>	0.15

Residuals in seconds of arc

641009 330	1.2-	0.0	870915 809	0.9+	0.4-	870926 809	0.2-	2.2+
821020 095	0.2+	0.1+	870918 809	1.3+	0.6-	870926 809	0.4-	2.3+
821025 095	1.4+	0.5+	870918 809	1.4+	0.6-	870926 809	0.7-	2.4+
821109 095	0.1+	0.5-	870918 809	1.3+	0.5-	910211 675	0.4-	0.3+
870828 095	0.8+	0.4+	870919 809	0.2+	0.7+	930914 691	1.0-	0.5-

870831 095	0.9+	1.2-	870919 809	0.3+	0.1+	930914 691	0.7-	0.6-
870912 809	1.5-	2.0-	870919 809	0.3+	0.2+	930914 691	0.6-	1.3-
870912 809	1.0-	1.8-	870924 809	1.0-	1.1+	931014 801	0.4+	0.0
870912 809	0.1+	1.9-	870924 809	1.2-	1.1+	931014 801	0.3+	0.0
870915 809	1.1+	0.5-	870924 809	1.2-	1.1+			
870915 809	1.0+	0.5-	870924 095	0.7-	0.9+			

(5771)* 1987 ST₁ = 1982 YY₁ = 1989 BG₁

Discovered 1987 Sept. 21 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. D. W. E. Green (*MPC* 14476)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		P		Q	
<i>M</i>	42.46404	(2000.0)		P		Q	
<i>n</i>	0.17874148	ω	101.98439	+0.84945713	-0.50988687		
<i>a</i>	3.1211824	Ω	288.80739	+0.41086918	+0.80063095		
<i>e</i>	0.2333573	<i>i</i>	8.24726	+0.33107265	+0.31465134		
<i>P</i>	5.51	<i>H</i>	12.5	<i>G</i>	0.15		

Residuals in seconds of arc

821219 330	(5.6-	1.1+)	890127 046	0.4-	1.1-	920825 801	0.3-	0.4-
870921 688	0.4+	0.3+	890128 046	0.2+	1.5-	920901 801	0.2+	0.5+
870921 688	0.6+	0.2-	890128 046	1.3-	1.0-	931014 801	0.4-	0.1+
870921 010	1.7-	1.2-	890203 046	(3.1-	0.3-)	931019 801	0.0	0.3+
870922 010	0.7+	2.1-	890203 046	(3.1-	1.9-)	931019 801	0.3+	0.2+
870929 688	1.6+	1.8+	920726 801	0.4+	0.6-	931112 801	0.2+	0.7+
871016 688	0.4-	1.2-	920726 801	0.0	1.3-	931112 801	0.2+	0.5+
890126 046	1.0-	0.7-	920731 801	0.1+	0.3-	931117 801	0.0	0.4+
890126 046	1.1-	0.9-	920731 801	0.8+	0.8-	931117 801	0.0	0.5+
890127 046	0.8+	1.0-	920825 801	0.1-	0.3-			

(5772)* 1988 LB = 1984 MA

Discovered 1988 June 15 by E. F. Helin at Palomar.

Id. C. M. Bardwell (*MPC* 13470)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Bardwell		P		Q	
<i>M</i>	121.43754	(2000.0)		P		Q	
<i>n</i>	0.24156092	ω	7.97029	+0.23090602	+0.94968963		
<i>a</i>	2.5533965	Ω	275.56597	-0.90400416	+0.12898292		
<i>e</i>	0.1305239	<i>i</i>	12.27455	-0.35980395	+0.28539973		
<i>P</i>	4.08	<i>H</i>	12.3	<i>G</i>	0.15		

Residuals in seconds of arc

840627 675	1.1+	0.6+	891001 675	0.6+	1.8-	930914 801	0.3+	1.0+
840627 675	1.0-	0.4+	891005 675	0.3+	0.4-	930920 801	0.3+	0.5+
840629 675	0.6+	0.4+	891005 675	0.6+	1.6+	930920 801	0.2+	1.3+
840629 675	0.4-	0.7+	891027 675	0.3-	0.3+	931019 675	1.3+	0.1-
880615 675	0.0	2.2-	891027 675	1.9-	1.7-	931019 675	0.9+	0.0
880617 675	0.7-	0.6-	891029 675	1.2-	0.0	931021 675	0.4-	0.2+
880713 675	0.2+	0.7+	910112 675	0.1-	0.4+	931021 675	0.1-	0.4+
880715 675	(2.9-	3.0-)	910112 675	0.9+	0.3+	931109 675	0.3+	0.4-
891001 675	1.3+	1.7-	930914 801	0.2+	1.2+	931109 675	2.3-	0.9-

(5773)* 1989 NO = 1985 FJ

Discovered 1989 July 2 by E. F. Helin at Palomar.

Id. C. M. Bardwell (*MPC* 15071)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		P		Q	
<i>M</i>	156.91673	(2000.0)		P		Q	
<i>n</i>	0.29149711	ω	263.66064	-0.17831220	+0.98395735		
<i>a</i>	2.2527511	Ω	356.05412	-0.86674201	-0.15981611		
<i>e</i>	0.1528330	<i>i</i>	4.76646	-0.46579292	-0.07928903		
<i>P</i>	3.38	<i>H</i>	13.0	<i>G</i>	0.15		

Residuals in seconds of arc

850315 046	(12.0-	1.3-)	901118 675	0.8-	0.7-	930914 801	0.4+	0.1-
850315 046	(6.5-	1.1-)	920405 894	1.1-	1.6-	930914 801	0.7+	0.0
850320 046	0.3+	0.7-	920405 894	0.3-	0.5+	930919 801	0.3+	0.7+
850320 046	0.2+	0.9+	920430 801	0.7-	1.1+	931012 691	0.6-	0.0
890702 675	0.2+	0.6-	920430 801	0.7-	0.9+	931012 691	0.6-	0.3+
890702 675	0.1-	0.6-	920502 675	0.3+	0.3+	931012 691	0.7-	0.4+
890704 675	1.3+	0.5-	920502 675	0.2-	0.9+	931020 675	0.5+	1.3-
890704 675	0.0	1.6-	920504 801	0.7-	0.3+	931020 675	(3.3+	1.2-)
890809 675	(4.0-	0.5-)	920504 801	0.3-	0.6+	931021 675	2.6+	1.3-
890809 675	0.1+	1.9+	920527 675	0.4+	0.6-	931110 675	1.0-	2.6+
890811 675	0.6-	1.1+	920527 675	2.6+	0.4-	931110 675	1.4-	0.4+
890811 675	0.8-	0.4-	920530 675	1.0+	1.2-			
901118 675	0.3+	1.3-	920530 675	0.6+	0.7-			

(5774)* 1989 NR = 1986 RD₁₀

Discovered 1989 July 2 by E. F. Helin at Palomar.

Id. C. M. Bardwell (*MPC* 15071)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		P		Q	
<i>M</i>	110.64355	(2000.0)		P		Q	
<i>n</i>	0.30068828	ω	27.47649	+0.92980976	+0.34704638		
<i>a</i>	2.2066073	Ω	311.66741	-0.36055758	+0.79215346		
<i>e</i>	0.0844045	<i>i</i>	9.44034	-0.07383797	+0.50204751		
<i>P</i>	3.28	<i>H</i>	13.0	<i>G</i>	0.15		

Residuals in seconds of arc

530815 675	0.4-	1.1-	890809 675	2.0-	0.0	931013 801	0.4-	0.2+
530815 675	0.8+	0.5-	890811 675	0.2+	0.9-	931013 801	0.5-	0.1+
860908 095	0.1-	1.6+	890811 675	0.2+	2.1-	931019 801	0.2-	0.4-
860911 095	0.7+	0.9+	901217 675	0.4+	2.1-	931019 801	0.5-	0.3+
890702 675	(2.9+	2.4-)	901217 675	0.4+	0.2+	931111 801	0.8-	0.1-
890702 675	2.4+	0.2-	910111 675	1.6+	0.6+	931111 801	0.3-	0.1-
890704 675	(2.5+	2.4-)	910111 675	0.1-	0.9-	931117 801	0.4-	0.3-
890704 675	(3.2+	2.1-)	910115 675	1.1-	1.2-			
890809 675	0.0	0.1+	910115 675	1.1-	1.1-			

(5775)* 1989 SP = 1972 LB₁ = 1981 UW₂₄

Discovered 1989 Sept. 29 by Y. Mizuno and T. Furuta at Kani.

Id. E. Bowell (k, *MPC* 20504), G. V. Williams (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(2000.0)		P		Q	
<i>M</i>	43.22691	(2000.0)		P		Q	
<i>n</i>	0.23920541	ω	135.25210	+0.93568783	+0.34310897		
<i>a</i>	2.5701318	Ω	205.03075	-0.35280844	+0.90734338		
<i>e</i>	0.1880493	<i>i</i>	11.20900	-0.00380593	+0.24290786		
<i>P</i>	4.12	<i>H</i>	12.6	<i>G</i>	0.15		

Residuals in seconds of arc

720613 095	0.2-	0.5+	891005 046	1.1+	1.2+	930724 801	1.3+	0.1-
811024 675	0.1+	1.0+	891007 403	1.0-	0.8-	930724 801	0.2+	0.1-

811025 675	0.1-	0.5+	891007 403	1.3-	2.1-	930814 801	0.1-	0.1-
890929 403	0.3-	1.0+	891008 403	(5.3-	3.4+)Y	930814 801	0.1+	0.1-
890929 403	2.4-	0.5-	891028 807	0.7+	0.2-	930822 801	0.3+	0.3+
891003 046	0.2-	1.4-	891031 807	0.6+	0.7-	930822 801	0.5+	0.2+
891003 046	0.6+	1.3-	891120 888	(6.5-	2.1+)	931016 675	0.8-	1.0+
891004 046	(3.1+	0.4+)	891120 888	(6.9-	3.9+)	931016 675	1.5-	1.0+
891004 046	1.6+	1.0-	930719 801	0.0	0.1-	931019 675	0.9-	0.8+
891005 046	1.8+	2.0+	930719 801	0.5+	0.3-	931019 675	0.3-	0.1+

(5776)* 1989 UT₂ = 1984 LH = 1988 JE₂

Discovered 1989 Oct. 29 by T. Hioki and N. Kawasato at Okutama.

Id. S. Nakano (*MPC* 15719)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.23843250	ω	58.25562	+0.21025574	+0.96634202
<i>a</i>	2.5756830	Ω	224.67071	-0.95308425	+0.16882779
<i>e</i>	0.1693525	<i>i</i>	12.17280	-0.21776807	+0.19411406
<i>P</i>	4.13	<i>H</i>	12.8	<i>G</i>	0.15

Residuals in seconds of arc

840601 688	0.1+	2.0-	891117 372	1.0-	1.5+	920504 809	0.2+	0.6+
840601 688	0.5-	0.0	891117 372	(3.9+	1.5+)	920506 801	0.5-	0.4+
840602 688	0.4+	0.2+	891120 372	0.8+	0.7-	920506 801	0.3-	0.1+
840602 688	0.1+	0.2-	891120 372	1.7+	0.4-	930914 376	0.2+	0.1-
880512 046	0.7+	0.6+	920430 801	1.0-	0.6+	930914 376	0.7+	1.5+
880512 046	0.1+	0.7-	920430 801	1.4-	0.7+	930915 801	2.1-	0.7-
891029 877	(7.6-	11.9-)	920502 809	0.6-	0.3-	930915 801	0.2+	1.0+
891029 877	(5.7-	8.5-)	920502 809	0.5-	0.1-	930916 376	0.7-	0.2-
891102 400	0.1-	1.8+	920502 809	0.1-	0.2-	930916 376	0.9-	0.3+
891102 400	1.5+	1.8+	920503 809	0.9+	0.2+	930919 801	0.2+	1.4+
891103 675	1.7-	2.1-	920503 809	1.0+	0.1-	931111 801	0.7+	0.5+
891103 675	1.0-	2.6-	920503 809	1.2+	0.4-	931111 801	0.7+	0.4+
891104 675	0.1+	1.7-	920504 809	0.4+	0.2+	931117 801	0.4+	0.3+
891104 675	0.2-	1.5-	920504 809	0.3+	0.4+	931117 801	0.5+	0.2+

(5777)* 1989 XF = 1952 YB = 1976 ON = 1982 BD₉

Discovered 1989 Dec. 3 by Y. Mizuno and T. Furuta at Kani.

Id. H. Kaneda (*MPC* 16030)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.24044948	ω	255.00002	+0.97875224	-0.15073023
<i>a</i>	2.5612589	Ω	113.51028	+0.18993670	+0.92189231
<i>e</i>	0.2071496	<i>i</i>	8.71947	-0.07725345	+0.35692431
<i>P</i>	4.10	<i>H</i>	12.7	<i>G</i>	0.15

Residuals in seconds of arc

521216 760	0.1+	0.3+	891218 403	1.9+	0.5-	910314 875	0.2-	1.5-
521216 760	0.1-	0.0	891218 403	1.2+	0.9-	910314 875	0.5+	0.0
760727 095	0.2+	0.9-	891228 046	0.9-	0.1+	920703 801	0.7-	0.5-
820119 095	1.5+	2.1+	891228 046	0.2-	0.5-	920703 801	0.6-	0.5-
891203 403	1.5-	1.4-	891229 046	0.1-	0.9-	931013 801	0.5+	0.9+
891203 403	0.8-	0.0	891229 046	0.6+	2.1-	931013 801	0.8+	1.1+
891205 403	0.4+	0.4+	891231 046	0.1-	1.9-	931110 801	0.7+	0.9+
891205 403	1.3-	0.7-	891231 046	(1.5-	3.1-)	931110 801	0.7+	0.9+

891208 403	0.6-	0.0	910309 875	2.4+	0.9+	931117 801	0.1-	0.9+
891208 403	2.2-	0.9-	910309 875	1.4-	1.0+	931117 801	0.0	1.0+

(5778)* 1989 YF₅ = 1982 BN₂ = 1983 LE = 1985 YS

Discovered 1989 Dec. 28 by E. W. Elst at Haute Provence.

Id. K. Ichikawa (*MPC* 16586), H. Kaneda (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Ichikawa			
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.23721133	ω	57.93690	+0.90074357	+0.36248049
<i>a</i>	2.5845153	Ω	279.84440	-0.43279726	+0.79557492
<i>e</i>	0.1299386	<i>i</i>	14.05691	+0.03670909	+0.48545694
<i>P</i>	4.15	<i>H</i>	12.1	<i>G</i>	0.15

Residuals in seconds of arc

820119 046	1.1+	0.9-	891229 511	1.1-	1.0-	920727 675	0.6-	1.5-
820119 046	0.5-	1.8-	891229 511	0.4+	0.8-	920727 675	0.6-	0.9-
820120 046	0.7-	1.9-	900103 511	1.5-	0.6-	920731 801	0.1+	0.8-
820120 046	2.1-	2.0-	900103 511	1.1-	0.3+	920925 801	0.3+	0.1+
820120 095	0.1+	0.9+	900104 511	(3.5-	1.1+)	920925 801	0.6-	0.3+
820121 046	0.9+	0.0	900104 511	0.2-	2.2+	921001 801	0.7+	0.4+
820121 046	0.4+	1.2-	920628 801	0.9+	0.4+	921001 801	0.8+	0.4+
830607 474	(5.3-	3.1+)	920628 801	0.9+	0.9+	931013 801	0.1-	0.1+
830607 474	0.3+	2.5+	920630 801	0.8+	0.4+	931013 801	0.2-	0.1-
851218 688	(3.4+	0.7+)	920630 801	0.9+	0.6+	931111 801	1.0+	0.2+
851218 688	0.3+	0.5-	920703 293	0.7-	1.2-	931111 801	1.0+	0.1+
891228 511	0.3-	0.9+	920703 293	0.2-	2.1-	931117 801	0.8+	0.2+
891228 511	1.2-	1.4+	920726 801	0.6-	2.3-	931117 801	0.7+	0.2+
891229 511	0.1-	1.6-	920726 801	0.4+	0.1+			

(5779)* 1990 BC₁ = 1980 DC₅ = 1985 DP₃

Discovered 1990 Jan. 23 by S. Ueda and H. Kaneda at Kushiro.

Id. H. Kaneda (*MPC* 16032)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>		
<i>n</i>	0.18882220	ω	310.36953	-0.15824196	-0.98235722
<i>a</i>	3.0090819	Ω	148.31371	+0.95366469	-0.17821469
<i>e</i>	0.0812900	<i>i</i>	10.93805	+0.25589674	+0.05669052
<i>P</i>	5.22	<i>H</i>	11.9	<i>G</i>	0.15

Residuals in seconds of arc

800221 095	0.1-	1.9+	900201 402	0.6+	0.5+	910512 801	1.0-	0.1-
850220 675	0.5-	0.2-	900201 399	0.2+	0.6-	910512 801	1.4-	0.3-
850222 675	1.1+	0.1-	900201 402	0.1+	0.2+	910513 801	0.1+	0.5-
900121 402	0.3+	0.2+	900201 399	0.7-	1.2-	910513 801	0.1-	0.6-
900121 402	0.7+	0.1-	900202 399	0.1+	1.9-	920728 801	1.0+	0.4-
900123 399	0.3+	0.2-	900202 399	0.9-	0.0	920728 801	0.1+	0.3-
900123 399	0.0	0.1+	900202 399	0.7-	0.1+	920729 801	1.0+	0.3-
900123 399	0.3+	2.3-	900214 399	1.4-	2.3+	931016 400	0.4-	0.3-
900125 399	1.5+	0.4-	900214 399	1.2-	0.1+	931016 400	0.7-	0.5-
900125 399	(0.5+	3.7-)	900214 399	(2.8-	0.5+)	931111 801	0.2+	0.9-
900125 399	(3.0-	0.9-)	910419 801	0.0	1.0-	931111 801	0.0	0.5-
900201 399	1.2+	0.0	910419 801	0.1-	0.8-	931113 801	0.5+	1.2-

(5780)* 1990 EJ₂ = 1962 TO = 1975 VT₁ = 1975 XB₇

Discovered 1990 Mar. 2 by E. W. Elst at the European Southern Observatory.

Id. H. Kaneda (*MPC* 16879), S. Nakano (*MPC* 20636)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Nakano	
<i>M</i>	49.85189	(2000.0)	P	Q	
<i>n</i>	0.15997053	ω 119.08595	+0.98417019	+0.12905899	
<i>a</i>	3.3608005	Ω 233.75712	-0.16125095	+0.93644736	
<i>e</i>	0.1147175	<i>i</i> 8.66166	+0.07353339	+0.32620565	
<i>P</i>	6.16	<i>H</i> 11.8	<i>G</i> 0.15		

Residuals in seconds of arc

621004 760	0.3-	1.3+	900302 809	0.6+	1.0+	920825 801	0.5+	0.4-
621004 760	0.1-	0.1+	900302 809	0.4-	0.2+	920901 801	0.7+	0.5+
751102 095	(4.1+	2.1-)	900304 809	0.8+	0.5+	920901 801	0.4+	0.8+
751202 330	(15.4+	1.4+)	900304 809	0.2+	0.1+	931020 399	1.1+	0.3-
871115 327	0.2+	0.6-	900304 809	0.2-	0.4-	931020 399	0.3-	0.4-
871115 327	0.1+	0.1-	920630 801	0.1-	0.3+	931111 801	0.6-	0.6+
900224 809	0.2-	0.8+	920630 801	0.2-	0.1+	931111 801	0.6-	0.4+
900224 809	0.6-	0.1-	920703 801	1.0-	0.8-	931117 801	0.1+	0.4+
900224 809	1.4-	0.2-	920703 801	0.6-	0.1-	931117 801	0.1-	0.2+
900302 809	2.0+	0.3+	920825 801	0.3+	0.5+			

(5781)* 1990 SM₂₈ = 1965 UD₁ = 1970 EU₃ = 1981 YF₁ = 1984 WN₄ = 1987 UL₉

Discovered 1990 Sept. 24 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. G. V. Williams (*MPC* 19306)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Williams	
<i>M</i>	343.29773	(2000.0)	P	Q	
<i>n</i>	0.31559976	ω 170.04171	+0.35158457	-0.93500377	
<i>a</i>	2.1365429	Ω 259.36241	+0.85562368	+0.34107115	
<i>e</i>	0.0384239	<i>i</i> 2.70808	+0.37986366	+0.09715156	
<i>P</i>	3.12	<i>H</i> 12.9	<i>G</i> 0.15		

Residuals in seconds of arc

510210 760	1.3-	0.2-	900930 095	0.4+	1.2+	930909 657	0.4-	0.4-
510210 760	0.9+	0.2-	901015 095	0.2+	0.8+	930909 657	0.3-	0.2-
651016 330	(2.9-	3.4-)	901015 095	0.4+	2.0+	930914 801	0.1-	0.3-
700304 805	0.0	0.8+	920425 809	0.9-	0.5-	930914 801	0.3+	0.4-
700304 805	0.3-	0.4+	920425 809	1.0-	0.5-	930919 801	0.0	0.5-
700304 805	0.8+	0.9-	920427 675	0.5+	1.3+	930919 801	0.2+	0.4-
811231 704	(18.4+	35.8+)	920427 675	1.3+	1.0-	931012 801	0.2+	0.4-
841122 330	1.2+	0.8-	920501 809	0.2-	0.1-	931012 801	0.1+	0.3-
841125 330	1.0-	0.2-	920501 809	0.0	0.0	931019 801	0.2+	0.4-
871028 095	1.5-	0.7-	920501 809	0.1+	0.2+			
900924 095	0.5+	0.4+	930909 657	0.2-	0.2-			

(5782)* 1991 AF = 1962 SO = 1976 YF₄ = 1986 RE₁₀

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

Id. H. Kaneda (*MPC* 18125)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Williams	
<i>M</i>	352.57271	(2000.0)	P	Q	
<i>n</i>	0.28563726	ω 180.37220	+0.37388904	-0.92310677	
<i>a</i>	2.2834569	Ω 247.67390	+0.85119116	+0.38001538	
<i>e</i>	0.0887501	<i>i</i> 5.57672	+0.36834848	+0.05884040	
<i>P</i>	3.45	<i>H</i> 13.9	<i>G</i> 0.15		

Residuals in seconds of arc

551011 760	0.9+	1.9-	860908 095	0.9-	2.0-	930913 801	0.3-	1.8+
551011 760	0.8+	2.1-	860911 095	0.8+	0.7-	930913 801	1.1+	1.4+
620930 760	0.7-	1.3+	910107 413	0.2-	0.4-	930915 801	0.1+	1.1+
620930 760	0.1+	0.8+	910108 413	0.6+	1.3-	930915 801	0.1-	0.7+
761218 095	(0.9-	3.3+)	910117 413	0.1+	1.1-	931111 801	0.5-	0.1-
761220 095	0.1+	2.2+	910209 413	1.5-	0.4+	931111 801	0.6-	0.1-
820721 413	0.1-	0.1+	920608 675	0.6+	0.5-	931117 801	0.2+	0.8-
820721 413	0.2-	0.1+	920608 675	0.4-	0.2-	931117 801	0.1+	0.7-

(5783)* 1991 CO = 1973 YB₄ = 1979 SM₂ = 1989 RD₃

Discovered 1991 Feb. 5 by T. Hioki and S. Hayakawa at Okutama.

Id. R. Nagata (*MPC* 17970), A. Lowe

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Nakano	
<i>M</i>	316.64215	(2000.0)	P	Q	
<i>n</i>	0.29162903	ω 206.34920	-0.83551621	-0.54250621	
<i>a</i>	2.2520717	Ω 300.52567	+0.52030502	-0.73015435	
<i>e</i>	0.0310311	<i>i</i> 5.80843	+0.17662206	-0.41540539	
<i>P</i>	3.38	<i>H</i> 13.1	<i>G</i> 0.15		

Residuals in seconds of arc

731226 095	0.0	0.5+	910206 877	2.1-	1.4+	931013 801	0.5+	0.5-
790922 095	1.3+	0.8+	910206 877	0.2+	0.7-	931013 801	1.1-	0.2-
790928 095	1.1-	0.1+	910217 877	0.7-	0.3-	931019 801	0.1+	0.0
890907 511	0.5-	1.5-	910217 877	1.0+	0.7-	931019 801	1.1+	1.3-
890907 511	0.0	0.2+	910306 877	0.8+	0.5+	931111 801	0.2-	0.3+
910122 675	(0.6+	3.0-)	910306 877	1.4+	2.1+	931111 801	0.2+	1.2+
910122 675	0.8+	1.9-	920722 809	0.6+	0.5+	931117 801	0.1-	0.5+
910205 877	(3.2+	3.0-)	920722 809	1.3-	0.8+	931117 801	0.1+	0.8+
910205 877	1.0-	0.4+	920722 809	0.5+	0.9+			

(5784)* 1991 CY = 1978 EK₄ = 1980 RM₅

Discovered 1991 Feb. 9 by A. Natori and T. Urata at the JCPM Yakiimo Station.

Id. E. Bowell (k, *MPC* 18299), G. V. Williams (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Williams	
<i>M</i>	248.36973	(2000.0)	P	Q	
<i>n</i>	0.22949939	ω 226.78260	-0.91317717	-0.37737904	
<i>a</i>	2.6420946	Ω 290.50542	+0.40506174	-0.79858320	
<i>e</i>	0.1209337	<i>i</i> 9.45868	+0.04508266	-0.46888157	
<i>P</i>	4.29	<i>H</i> 12.8	<i>G</i> 0.15		

Residuals in seconds of arc

780306 095	0.5-	0.6-	930909 657	0.1-	0.3+	931009 385	0.3+	0.0
800913 675	0.0	0.1+	930909 657	0.0	0.7+	931010 385	0.3-	0.3+
800914 675	0.3+	0.2-	930909 657	0.6-	0.0	931010 385	0.4-	0.2+
910117 675	0.3+	1.0-	930914 385	0.3-	0.0	931010 385	0.3-	0.1-
910117 675	1.0+	0.2-	930914 385	0.8-	0.0	931103 385	0.4+	0.3+
910209 885	1.0+	1.0+	930914 385	0.0	0.1+	931103 385	0.2-	0.5+
910209 885	1.3-	0.4+	930925 385	0.8+	0.1+	931103 385	0.3-	0.4+
910211 385	0.5+	0.7-	930925 385	0.0	0.5-	931104 385	1.0+	0.0
910217 385	0.4-	0.0	930925 385	0.2-	1.6-	931104 385	0.8+	0.2+
910217 385	0.4-	1.1+	931009 385	0.2-	0.1-	931104 385	0.3+	0.4-

(5785)* 1991 FU = 1970 ES₁ = 1989 SW₁₃

Discovered 1991 Mar. 17 by E. F. Helin at Palomar.

Id. G. V. Williams (*MPC* 18438)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	280.72305	ω	187.39762	-0.74717905	-0.64376565		
<i>a</i>	2.5874720	Ω	311.15302	+0.62046492	-0.58655876		
<i>e</i>	0.1082799	<i>i</i>	12.67351	+0.23821576	-0.49144136		
<i>P</i>	4.16	<i>H</i>	11.7	<i>G</i>	0.15		

Residuals in seconds of arc

700303 805	0.1-	0.1-	910410 675	0.6+	0.4-	930915 801	0.0	0.3+
700303 805	0.0	0.0	910410 675	0.2-	1.0-	931014 801	0.6-	0.3+
700303 805	0.0	0.1-	910412 675	1.9+	0.4+	931014 801	0.1+	0.2+
890929 675	0.5+	2.3-	910412 675	0.9+	0.0	931019 801	0.6+	0.8+
890929 675	0.8+	1.9-	910412 413	1.3+	0.5+	931019 801	0.8+	0.7+
910210 675	0.4+	0.8+	910412 413	0.6-	1.3+	931111 801	1.2-	1.0+
910210 675	0.5+	1.0+	910507 675	1.4-	1.0-	931111 801	1.0-	0.2-
910317 675	0.8-	0.3+	910507 675	1.4-	0.4-	931113 801	0.2-	0.4-
910317 675	0.1+	0.0	930914 801	0.9-	0.9+	931113 801	0.0	0.6-
910318 675	0.1-	1.2-	930914 801	0.3+	1.0+			
910318 675	0.9-	0.4+	930915 801	0.3-	0.3+			

(5786)* 1991 RC

Discovered 1991 Sept. 3 by R. H. McNaught at Siding Spring.

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	182.61488	ω	8.26850	-0.97997644	-0.15413070		
<i>a</i>	1.0815194	Ω	161.37402	+0.15252597	-0.98804686		
<i>e</i>	0.8268023	<i>i</i>	23.24577	+0.12799223	-0.00266935		
<i>P</i>	1.12	<i>H</i>	16.8	<i>G</i>	0.15		

Residuals in seconds of arc

910903 413	1.8-	0.9-	911008 658	1.3+	0.7+	930903 413	1.0-	0.4+
910903 413	(6.0-	3.9-)	911008 658	0.9+	0.2+	930903 413	0.2-	0.5+
910905 413	1.4+	0.0	921015 413	0.7+	0.4+	930903 413	1.3+	0.4-
910905 413	0.3+	1.0-	921015 413	0.6+	0.6+	930907 413	0.4-	0.3+
910912 675	0.2-	0.9-	930903 413	0.2+	0.0	930916 658	0.3-	0.7+
910913 413	(3.3+	2.3+)	930903 413	0.1+	0.3-	930916 658	0.1+	0.9+
910917 691	0.6-	0.0	930903 413	0.3+	0.4-	931027 413	0.1+	0.4+
910917 691	0.5-	0.3+	930903 413	0.6-	0.0	931027 413	0.7+	0.1-
910917 691	1.0-	0.5+	930903 413	0.0	0.9-	931027 413	0.4+	0.0

(5787)* 1992 FA₁ = 1979 OM₁₆ = 1982 KE = 1986 RC₁₀ = 1990 WA₁₃

Discovered 1992 Mar. 26 by S. Ueda and H. Kaneda at Kushiro.

Id. H. Kaneda (*MPC* 20155)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	145.45474	ω	24.35318	-0.04356989	+0.99690032		
<i>a</i>	2.2517568	Ω	243.20658	-0.92822785	-0.06464255		
<i>e</i>	0.1227385	<i>i</i>	4.20861	-0.36945193	+0.04484528		
<i>P</i>	3.38	<i>H</i>	13.3	<i>G</i>	0.15		

Residuals in seconds of arc

510104 675	1.0-	0.4-	920326 399	0.4+	1.0+	920502 809	1.6+	0.2+
510104 675	0.2-	0.7-	920326 399	2.3-	0.9-	920502 809	1.5+	0.2-
510210 760	0.1+	2.0+	920328 399	0.6+	0.6-	920503 809	1.8+	0.3+
510210 760	1.8+	0.6+	920328 399	1.5-	0.2-	920503 809	1.9+	0.4+

790731 095	0.5-	1.3+	920423 399	1.5-	0.3-	920504 809	2.0+	0.5+
790819 095	1.2+	1.8+	920427 675	0.2+	0.0	931020 399	0.3-	0.6+
820521 688	2.2-	0.1+	920427 675	1.5+	0.1+	931020 399	0.3-	0.4+
820521 688	0.7-	0.1+	920427 399	0.3-	0.4-	931113 801	1.1-	0.6+
860908 095	(0.4-	3.0-)	920427 399	1.6-	0.3-	931113 801	0.6+	0.8+
860911 095	0.6+	2.2-	920502 399	1.5-	0.6+	931116 801	0.4-	0.3+
901124 400	(4.1-	0.7-)	920502 399	1.5-	0.0	931116 801	0.5-	0.4+
901124 400	(5.5-	0.9-)	920502 809	1.3+	0.5+			

(5788)* 1992 NJ

Discovered 1992 July 1 by R. H. McNaught at Siding Spring.

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	359.71348	ω	24.53252	+0.63646775	-0.75091134		
<i>a</i>	3.1955520	Ω	27.02647	+0.62803320	+0.37193810		
<i>e</i>	0.0706225	<i>i</i>	22.81321	+0.44775340	+0.54570524		
<i>P</i>	5.71	<i>H</i>	12.2	<i>G</i>	0.15		

Residuals in seconds of arc

531031 675	0.7+	0.6-	920727 413	0.0	0.4+	921209 413	0.2+	0.2-
531031 675	0.6-	0.5+	920727 413	0.2+	0.1+	921209 413	0.7+	0.3-
740618 413	0.5-	1.4-	920805 413	0.0	0.8+	921209 413	0.3+	0.1-
740618 413	0.4-	0.0	920805 413	0.1-	0.8+	931013 675	0.2+	0.8-
750608 413	0.1+	0.1-	920820 413	0.0	0.0	931013 675	0.3-	0.9-
750608 413	0.8+	1.8-	920820 413	0.1-	0.2+	931015 675	0.2-	0.3-
920701 413	1.4-	1.8-	920821 413	0.1-	0.0	931116 801	0.2+	0.6+
920701 413	0.1+	0.8+	920821 413	0.0	0.1+	931116 801	0.0	0.6+
920703 413	0.1-	0.6-	920905 413	0.1-	0.2+	931117 801	0.1+	0.0
920704 413	0.3+	0.6+	920905 413	0.2-	0.3+	931117 801	0.9+	0.2-
920704 413	0.4+	0.6+	921006 413	0.3-	0.7+			
920711 413	0.3+	0.3-	921006 413	0.4-	0.7+			

(5789)* 4018 P-L = 1989 UV

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

Id. S. Nakano (*MPC* 15570)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		<i>P</i>		<i>Q</i>	
<i>n</i>	2.78988	ω	73.44250	+0.38520707	-0.92278208		
<i>a</i>	2.5663891	Ω	353.87610	+0.80944233	+0.34276158		
<i>e</i>	0.2423704	<i>i</i>	5.06605	+0.44319142	+0.17603332		
<i>P</i>	4.11	<i>H</i>	14.0	<i>G</i>	0.15		

Residuals in seconds of arc

600924 675	0.1-	0.3+	891028 871	1.8+	1.0-	930920 801	0.2+	0.8+
600925 675	0.3-	0.5+	891028 871	0.6-	1.6+	931010 691	0.7-	0.5+
600926 675	0.3+	0.1+	891102 374	0.1+	0.9+	931010 691	0.7-	0.6+
600928 675	0.3+	0.3-	910408 809	1.0+	1.4+	931010 691	0.6-	0.4+
601017 675	0.1+	0.1-	910408 809	1.7+	0.9+	931014 801	0.6+	0.2+
601022 675	0.7-	0.9+	910408 809	0.3-	0.9+	931014 801	0.4+	0.2+
601024 675	0.5-	0.3+	910410 809	0.4+	0.7+	931014 675	0.1+	1.0-
601026 675	0.0	0.1-	910410 809	0.5+	0.0	931014 675	0.5+	0.9-
891023 374	0.8+	0.4-	910410 809	1.0-	1.0+	931015 675	0.0	0.4-
891023 374	0.5-	1.9-	930915 801	0.1-	0.5+			
891023 374	2.3-	2.2+	930915 801	0.0	0.4+			

(5790)* 9540 P-L = 1989 TV₁

Discovered 1960 Oct. 17 by C. J. van Houten and I. van Houten-Groeneveld
on Palomar Schmidt plates taken by T. Gehrels.

Id. S. Nakano (*MPC* 15571)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Nakano	
<i>M</i>	47.05293	(2000.0)		P	Q
<i>n</i>	0.23924282	ω	331.01155	+0.97323836	+0.22953744
<i>a</i>	2.5698638	Ω	15.72998	-0.20229240	+0.87835861
<i>e</i>	0.1274575	<i>i</i>	2.31247	-0.10901779	+0.41928357
<i>P</i>	4.12	<i>H</i>	13.7	<i>G</i>	0.15

Residuals in seconds of arc

600924 675	0.8-	0.8-	710402 675	(3.2-	2.0+)	920407 675	1.6+	0.9-
601017 675	0.3+	0.7+	710416 675	0.0	0.6+	920408 675	0.2-	0.0
601022 675	0.4-	0.5-	710416 675	0.5-	0.5-	920408 675	0.4-	0.3+
601024 675	1.4+	1.1-	710513 675	1.2-	0.7-	930912 801	0.0	0.2+
601026 675	1.1+	0.7-	710514 675	0.7-	1.1+	930912 801	0.0	0.2-
710324 675	0.1+	1.1-	891008 403	0.4+	1.4-	930919 801	0.1-	0.1-
710325 675	0.7-	1.0-	891008 403	0.6-	1.0-	Y 930919 801	0.0	0.4-
710326 675	1.1-	0.1-	891009 400	0.0	0.2+	931113 801	0.6-	1.0-
710326 675	0.4-	1.0-	891009 400	1.3+	2.1+	931113 801	0.5-	0.8-
710327 675	1.3+	1.0-	891009 400	0.4+	0.4+			

(5791)* 4053 T-2 = 1976 GY₇ = 1989 YP₃

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

Id. S. Nakano (*MPC* 15906)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Nakano	
<i>M</i>	342.41365	(2000.0)		P	Q
<i>n</i>	0.20084177	ω	301.02911	+0.15416440	-0.98754005
<i>a</i>	2.8877972	Ω	140.06390	+0.92246210	+0.13240329
<i>e</i>	0.0237903	<i>i</i>	2.82080	+0.35397317	+0.08505306
<i>P</i>	4.91	<i>H</i>	12.6	<i>G</i>	0.15

Residuals in seconds of arc

710326 675	0.0	1.0-	730924 675	0.0	0.3+	760404 095	2.4-	2.6+
710326 675	0.2-	0.9-	730925 675	0.7+	0.9-	881104 327	1.6-	0.3-
710327 675	0.8+	1.6-	730925 675	0.1-	0.1-	881104 327	0.2+	0.6+
710402 675	0.7-	0.3+	730929 675	(1.7+	4.0-)	891230 413	0.9-	0.1-
710416 675	0.4-	0.7-	730929 675	(1.1+	4.1-)	891230 413	0.2-	0.2+
710416 675	1.2+	2.0-	730930 675	0.6+	1.0+	891231 413	0.1-	1.1-
710416 675	0.8-	0.0	730930 675	0.8+	0.8-	891231 413	0.9-	0.5+
710416 675	1.5+	1.3-	730930 675	0.1-	0.4+	931014 801	0.5+	0.8+
710513 675	0.6-	1.2+	730930 675	1.4+	1.0-	931014 801	0.0	0.4+
710514 675	0.6+	1.8+	731004 675	1.2-	0.3-	931019 801	0.3+	0.2+
710516 675	1.5+	0.8-	731004 675	0.6-	0.3-	931019 801	0.2-	0.9+
730919 675	0.5+	1.8-	731005 675	1.3+	1.0+	931111 801	0.4+	0.2-
730919 675	0.4-	1.5-	731005 675	0.6-	1.2-	931111 801	0.3+	0.3-
730920 675	1.0-	2.0-	731005 675	0.5-	0.8+	931116 801	0.5+	0.4+
730924 675	0.1-	1.5+	731005 675	0.1-	0.1+	931116 801	0.7+	0.4+

1972 TC = 1993 VQ₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Nakano	
<i>M</i>	29.67815	(2000.0)		P	Q
<i>n</i>	0.23809821	ω	158.95196	+0.68101842	-0.70387212
<i>a</i>	2.5780933	Ω	247.49373	+0.63674192	+0.70540387
<i>e</i>	0.1723600	<i>i</i>	12.62584	+0.36162640	+0.08348303
<i>P</i>	4.14	<i>H</i>	12.8	<i>G</i>	0.15

Residuals in seconds of arc

721004 029	0.4-	0.1+	721012 029	0.4+	0.1+	931116 399	0.6+	0.0
721004 029	0.8+	0.6-	721012 029	0.1-	0.1-	931116 399	0.4+	0.5+
721006 029	1.0-	0.3-	931111 399	0.7-	0.5-			
721008 029	0.2+	0.8+	931111 399	0.3-	0.1-			

1975 TO₂ = 1982 PP₁ = 1993 TG₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Nakano	
<i>M</i>	43.15533	(2000.0)		P	Q
<i>n</i>	0.27464708	ω	186.90383	+0.95936037	-0.28177940
<i>a</i>	2.3439736	Ω	189.50363	+0.26307515	+0.91247201
<i>e</i>	0.2097812	<i>i</i>	5.24772	+0.10207421	+0.29663984
<i>P</i>	3.59	<i>H</i>	14.1	<i>G</i>	0.15

Residuals in seconds of arc

751003 095	0.4+	2.1+	931016 400	0.7+	0.2-	931025 894	0.8+	0.5-
751013 095	0.4+	0.7+	931016 400	0.2+	1.4+	931025 894	0.0	0.5+
751106 095	1.7-	0.0	931020 400	1.0+	1.4+	931111 400	0.4-	0.5-
820815 095	0.1+	0.6-	931020 400	0.8-	0.9-	931111 400	0.2+	1.0+
931015 400	0.4-	1.3-	931024 894	0.7+	0.8-			
931015 400	0.8-	1.7-	931024 894	0.6-	0.9-			

1976 YO₂ = 1993 VJ₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Urata	
<i>M</i>	24.48545	(2000.0)		P	Q
<i>n</i>	0.28844538	ω	351.61219	+0.39791981	-0.89849956
<i>a</i>	2.2686125	Ω	74.77578	+0.85247049	+0.28745385
<i>e</i>	0.1351434	<i>i</i>	11.07547	+0.33904850	+0.33176623
<i>P</i>	3.42	<i>H</i>	13.8	<i>G</i>	0.15

Residuals in seconds of arc

761216 095	0.2+	1.3+	931114 898	0.5-	0.6+	931118 385	0.0	0.2+
761218 095	0.9-	0.4+	931114 898	0.5+	0.4+	931121 385	0.3+	0.2-
761220 095	0.3+	1.6-	931118 385	0.0	0.3-	931121 385	0.3+	0.3-
770113 095	0.4+	0.1+	931118 385	0.5-	0.6-			

1977 DS₄ = 1989 UX₆

Id. T. Kobayashi (*MPC* 15699)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

				Bowell	
<i>M</i>	46.07156	(2000.0)		P	Q
<i>n</i>	0.20197331	ω	249.25901	+0.34750616	+0.93670413
<i>a</i>	2.8770013	Ω	41.15517	-0.83435089	+0.32968154
<i>e</i>	0.1053967	<i>i</i>	3.72176	-0.42789959	+0.11787897
<i>P</i>	4.88	<i>H</i>	13.0	<i>G</i>	0.15

Residuals in seconds of arc

540630 675	0.4-	0.3-	770312 381	1.0-	0.4-	891103 675	0.2-	1.3-
540630 675	0.5+	0.1-	890930 675	1.0+	1.4+	891103 675	0.5+	0.0
770218 381	1.1+	0.7+	890930 675	1.2+	0.1-	891104 675	1.1+	0.6+
770218 381	1.3+	1.3-	891026 372	(3.7-	2.4-)	891104 675	1.5-	0.8-

770219 381 0.2- 0.4+ 891026 372 (0.1- 6.3-) 891124 675 1.3- 0.3-
 770219 381 0.7- 0.5- 891030 372 (3.0- 0.8-) 891124 675 0.0 0.9-
 770312 381 0.6- 0.6+ 891030 372 0.8- 1.1+

1978 QE₂ = 1989 RG₄ = 1992 HK₆ = 1993 VE₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Ichikawa

<i>M</i>	72.39132		(2000.0)		P		Q
<i>n</i>	0.26778417	ω	328.90610		+0.95393430		+0.29985389
<i>a</i>	2.3838529	Ω	13.65564		-0.26597856		+0.86044077
<i>e</i>	0.2287001	<i>i</i>	2.39086		-0.13879754		+0.41198219
<i>P</i>	3.68	<i>H</i>	14.2	<i>G</i>	0.15		

Residuals in seconds of arc

780831 095	0.5-	1.4+	920425 809	0.0	0.1-	931111 399	0.1+	1.1-
780905 095	1.0-	0.3+	920425 809	0.3+	0.8-	931116 399	0.4-	0.3-
780927 095	0.9+	0.4-	920425 809	1.1-	1.0-	931116 399	0.2+	0.1-
890908 095	0.8+	1.9-	931111 399	0.5+	0.0			

1978 SJ₅ = 1993 VN₄

Id. G. V. Williams, K. Ichikawa

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	65.58300		(2000.0)		P		Q
<i>n</i>	0.26647439	ω	330.77834		+0.99789473		-0.03790449
<i>a</i>	2.3916579	Ω	31.52680		+0.05838435		+0.87833643
<i>e</i>	0.2140441	<i>i</i>	5.77606		-0.02823786		+0.47653790
<i>P</i>	3.70	<i>H</i>	14.5	<i>G</i>	0.15		

Residuals in seconds of arc

780927 095	0.3-	1.9+	781003 095	0.2-	0.8+	931114 408	0.9-	0.5+
781001 049	0.4+	0.9-	781007 095	0.0	0.5+	931115 408	0.0	0.3-
781001 049	0.1+	2.2-	931114 408	1.4+	0.0	931115 408	0.4-	0.2-

1979 SO = 1993 TD₁₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	40.81836		(2000.0)		P		Q
<i>n</i>	0.21313358	ω	350.76596		+0.99971403		+0.01030295
<i>a</i>	2.7756719	Ω	8.73091		+0.00249630		+0.85253621
<i>e</i>	0.2297286	<i>i</i>	8.17334		-0.02378297		+0.52256661
<i>P</i>	4.62	<i>H</i>	14.0	<i>G</i>	0.15		

Residuals in seconds of arc

790924 095	(3.3-	7.8+)	790926 046	0.3+	0.6-	791019 046	0.7+	0.5-
790924 095	0.9+	1.0-	790927 046	0.8-	0.2-	791019 046	0.2+	0.6-
790925 046	0.5+	0.8+	790927 046	(2.7+	0.0)	931014 675	0.0	0.4-
790925 046	0.0	0.2+	791012 046	1.3-	0.7+	931014 675	0.1-	0.8+
790926 046	0.2+	0.3+	791012 046	0.9-	1.1+	931015 675	0.2+	0.6-

1980 RG₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	42.52014		(2000.0)		P		Q
<i>n</i>	0.22903376	ω	110.31269		+0.97875660		+0.19403893
<i>a</i>	2.6456743	Ω	238.55090		-0.20480735		+0.91042240
<i>e</i>	0.4709177	<i>i</i>	4.45157		-0.00945859		+0.36534906
<i>P</i>	4.30	<i>H</i>	16.0	<i>G</i>	0.15		

Residuals in seconds of arc

800913 675	0.2-	0.1-	801201 675	(4.6-	1.1-)	931108 658	0.1-	0.1-
800914 675	0.1+	0.0	931009 691	0.1-	0.2+	931108 658	0.0	0.0

801014 675	0.5+	1.3-	931009 691	0.1+	0.1+	931108 658	0.1-	0.1-
801014 675	0.3-	0.8+	931009 691	0.0	0.0	931115 385	0.1+	0.1+
801031 675	1.8+	0.5-	931103 385	0.3-	0.2-	931115 385	0.4+	0.4-
801031 675	1.5-	1.1+	931103 385	0.1+	0.4-	931115 385	0.2+	0.3-
801102 675	0.9+	0.2-	931103 385	0.2+	0.3-	931116 801	0.1-	0.0
801102 675	1.5-	0.6+	931103 360	0.1-	0.2-	931117 801	0.1+	0.5+
801129 675	0.2-	0.1+	931103 360	0.1-	0.3-	931117 801	0.3+	0.2+
801129 675	0.3-	1.3+	931103 360	0.0	0.2-			

1981 EZ₁₁ = 1993 UO₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	229.41246		(2000.0)		P		Q
<i>n</i>	0.28222241	ω	235.06890		-0.91342923		+0.40558802
<i>a</i>	2.3018396	Ω	328.81934		-0.34884415		-0.82303809
<i>e</i>	0.0563501	<i>i</i>	3.74799		-0.20965398		-0.39762628
<i>P</i>	3.49	<i>H</i>	15.5	<i>G</i>	0.15		

Residuals in seconds of arc

810212 413	0.4+	0.5-	810315 413	0.1-	0.9+	810502 413	0.5-	0.8-
810213 413	2.0+	1.0-	810315 413	1.9-	1.2+	810503 413	0.7-	0.2+
810306 413	0.7-	0.3-	810315 413	2.3+	0.7-	931016 691	0.0	0.4-
810306 413	0.3+	0.5+	810405 413	0.9+	1.2-	931016 691	0.2+	0.3-
810307 413	1.1-	0.7+	810405 413	1.5+	1.0-	931016 691	0.3+	0.5-
810307 413	1.1-	1.9+	810406 413	1.8-	0.2+	931021 691	0.3-	0.3+
810311 413	0.8-	0.6+	810406 413	2.1+	0.6-	931021 691	0.1-	0.1+
810311 413	1.1-	0.1-	810412 413	0.2-	0.6-	931021 691	0.1+	0.1-
810315 413	0.0	0.2+	810412 413	0.3+	0.4-			

1981 EF₁₈ = 1979 UL₃ = 1986 TA₅

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

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	31.19319		(2000.0)		P		Q
<i>n</i>	0.28243172	ω	206.01918		+0.86524324		-0.50130843
<i>a</i>	2.3007022	Ω	184.08583		+0.47469666		+0.82342497
<i>e</i>	0.0950837	<i>i</i>	5.34127		+0.16129854		+0.26582169
<i>P</i>	3.49	<i>H</i>	14.0	<i>G</i>	0.15		

Residuals in seconds of arc

791016 095	0.2+	0.5-	810311 413	0.6-	0.6+	810502 413	1.0+	0.8-
810209 413	1.2+	0.5-	810316 413	1.4-	0.9+	810503 413	1.1+	0.3-
810213 413	0.9-	0.3-	810316 413	(3.6+	2.1-)	861001 010	(3.0-	6.6-)
810302 413	0.4+	0.9+	810329 413	1.3-	0.2-	861001 010	(7.6+	3.1-)
810303 413	0.9-	1.5+	810329 413	0.2-	1.2-	931013 675	0.9+	0.1-
810303 413	(2.8+	1.2-)	810408 413	1.4+	1.2-	931013 675	0.6-	0.3-
810307 413	0.5+	0.8+	810411 413	1.3-	0.1+	931015 675	0.2-	0.0
810307 413	(2.3+	1.6-)	810411 413	1.3+	1.7-			

1982 BM = 1993 QN₂Id. G. V. Williams (*MPC* 22682)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Bowell

<i>M</i>	236.17743		(2000.0)		P		Q
<i>n</i>	0.22200372	ω	201.93160		-0.86384219		-0.50151015
<i>a</i>	2.7012361	Ω	307.88020		+0.47068791		-0.76985595
<i>e</i>	0.1457117	<i>i</i>	3.45627		+0.17952595		-0.39472697
<i>P</i>	4.44	<i>H</i>	13.2	<i>G</i>	0.15		

Residuals in seconds of arc

530906 675	0.6+	1.3-	820118 688	1.2+	0.8-	930816 010	0.7+	0.4+
530906 675	0.1-	0.1+	820118 046	0.0	1.0-	930816 010	0.4+	0.2-
811224 095	1.7+	2.0+	820118 046	1.6-	1.6-	930816 010	0.2+	0.1-
820116 046	0.7-	0.3+	820119 046	0.1+	0.2-	930817 010	1.3+	0.4+
820116 046	0.6-	1.4+	820119 046	0.0	0.5-	930914 691	1.3-	0.1-
820118 688	(1.2+	2.9-)	820119 095	(1.8+	3.4+)	930914 691	1.5-	0.3+

1982 QO = 1982 SB₁ = 1993 TR₁₂Id. R. E. McCrosky (d, *MPC* 7447), E. Bowell

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bowell			
<i>M</i>	21.27231	(2000.0)	P	Q		
<i>n</i>	0.18424716	ω 221.28455	+0.92238592	-0.38199528		
<i>a</i>	3.0586904	Ω 160.93695	+0.38415368	+0.89167550		
<i>e</i>	0.1100288	<i>i</i> 10.10505	+0.04037523	+0.24288765		
<i>P</i>	5.35	<i>H</i> 13.0	<i>G</i> 0.15			

Residuals in seconds of arc

820817 801	1.0+	0.2+	820920 801	1.7-	1.4+	931013 675	0.2-	0.5-
820818 801	0.0	0.6-	821011 801	0.4+	1.8-	931015 675	0.4+	0.3+
820822 801	(3.3-	1.3+)	821012 801	0.4+	0.7+			
820826 801	(3.1+	1.0+)	931013 675	0.1-	0.2+			

1983 TH = 1992 KX = 1993 UE₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Nakano			
<i>M</i>	50.67769	(2000.0)	P	Q		
<i>n</i>	0.30016097	ω 329.91132	+0.94594282	-0.30904357		
<i>a</i>	2.2091908	Ω 48.42946	+0.31758573	+0.82102643		
<i>e</i>	0.1744336	<i>i</i> 7.55847	+0.06581404	+0.48000800		
<i>P</i>	3.28	<i>H</i> 13.7	<i>G</i> 0.15			

Residuals in seconds of arc

830903 801	1.6-	1.5+	920529 474	0.0	0.8+	931109 894	0.1+	2.2+
831001 046	2.2-	0.8-	920529 474	1.1+	1.2+	931111 399	0.7-	0.1+
831001 046	1.2-	0.0	931023 408	0.0	0.2-	931111 399	0.1-	0.8-
831005 046	3.1+	0.7+	931023 408	0.9+	1.1+	931115 894	0.7-	1.7-
831005 046	3.2+	0.5-	931024 408	0.4-	0.2+	931115 894	1.1-	0.1+
831006 046	0.7+	0.6-	931024 408	0.3-	0.3+			
831006 046	1.9-	1.0-	931109 894	1.4+	1.3+			

1984 CF = 1991 SK₅

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bowell			
<i>M</i>	52.24380	(2000.0)	P	Q		
<i>n</i>	0.21181845	ω 53.43928	-0.82643582	-0.53485963		
<i>a</i>	2.7871490	Ω 93.59328	+0.44368105	-0.81096594		
<i>e</i>	0.0995877	<i>i</i> 10.14925	+0.34662799	-0.23719070		
<i>P</i>	4.65	<i>H</i> 12.4	<i>G</i> 0.15			

Residuals in seconds of arc

541120 675	0.6-	0.9-	840221 675	0.4-	0.7-	840321 675	1.5-	0.5-
541120 675	0.7+	0.6+	840222 675	0.4-	0.3-	910917 675	0.0	0.2+
840210 675	0.4-	0.2+	840226 095	0.9+	1.5+	910917 675	0.1-	0.1+
840211 675	0.6-	0.3+	840305 095	2.3+	0.5-			

1985 GS = 1990 DH₉ = 1992 OU₉Id. G. V. Williams (*MPC* 21565), T. Urata

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Nakano			
<i>M</i>	271.50715	(2000.0)	P	Q		
<i>n</i>	0.18293837	ω 26.66570	-0.87343749	-0.43504493		
<i>a</i>	3.0732615	Ω 125.82402	+0.38456946	-0.89184251		
<i>e</i>	0.1287801	<i>i</i> 15.65026	+0.29868594	-0.12390659		
<i>P</i>	5.39	<i>H</i> 11.6	<i>G</i> 0.15			

Residuals in seconds of arc

850413 675	1.7+	0.3-	900220 887	0.7-	0.0	920731 809	1.4-	1.0+
850415 688	1.6+	2.2+	920729 809	0.9+	0.2-	931105 385	0.2-	0.5+
850415 688	1.2+	1.2+	920729 809	1.2+	0.2-	931105 385	0.5-	0.6+
850423 675	2.3-	0.3+	920729 809	1.2+	0.1-	931105 385	0.4-	0.5+
850424 675	0.4+	0.6+	920730 809	0.1-	0.5-	931115 385	0.3+	0.4+
850424 688	0.1+	1.5-	920730 809	0.1+	0.5-	931115 385	0.1+	0.2+
850424 688	0.3+	0.4-	920730 809	0.3+	0.8-	931115 385	0.3+	0.2+
850425 675	2.1-	0.2+	920731 809	1.2-	0.9+			
900220 887	0.7+	0.1-	920731 809	1.4-	0.9+			

1985 JW₁ = 1939 KD = 1979 HV₅ = 1992 QJ₂ = 1993 VL

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Nakano			
<i>M</i>	169.74346	(2000.0)	P	Q		
<i>n</i>	0.17217529	ω 189.14446	-0.28463616	+0.92672719		
<i>a</i>	3.2000406	Ω 64.64040	-0.86148133	-0.13504148		
<i>e</i>	0.1466326	<i>i</i> 15.74931	-0.42051418	-0.35062873		
<i>P</i>	5.72	<i>H</i> 11.0	<i>G</i> 0.15			

Residuals in seconds of arc

390515 078	(85.0-	57.3-)	X	850524 675	1.0+	0.8+	931107 399	0.6-	1.4-
390524 024	0.3+	1.1-		850524 675	0.8+	1.7+	931109 399	0.5+	0.5+
790428 095	1.5-	1.0-		920824 675	0.6+	0.1+	931109 399	0.0	0.4+
850513 675	0.3-	0.5-		920824 675	0.6-	0.8-			
850515 675	0.2+	0.4-		931107 399	0.3+	0.8+			

1985 PG₂ = 1974 VA₁ = 1987 DC₅ = 1989 TJId. S. Nakano (*MPC* 15412), G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

			Bardwell			
<i>M</i>	38.20858	(2000.0)	P	Q		
<i>n</i>	0.25931325	ω 335.69638	+0.77911090	-0.62394493		
<i>a</i>	2.4354894	Ω 63.04660	+0.58572255	+0.69005372		
<i>e</i>	0.1733985	<i>i</i> 3.90174	+0.22341732	+0.36676775		
<i>P</i>	3.80	<i>H</i> 14.5	<i>G</i> 0.15			

Residuals in seconds of arc

741112 095	0.2-	0.2-		890928 809	0.7-	2.0+	891007 809	0.9+	0.3-
850813 095	1.7-	0.6-		890928 809	0.7-	1.8+	891007 809	0.1+	0.1-
850817 095	0.0	0.6-		891002 071	(7.9+	2.2+)	891008 809	1.2+	0.9+
850824 095	0.6-	0.5-		891002 807	1.3+	0.4-	891008 809	0.0	1.1+
870223 010	1.1+	0.7+		891003 071	(7.9+	6.7+)	891008 809	0.3+	1.2+
870223 010	0.3-	0.9+		891003 071	(7.2+	6.3+)	891028 807	2.2+	0.2-
870223 010	1.1+	0.4+		891003 809	0.6-	1.0-	931111 801	0.7-	0.8-
890926 809	0.4-	0.9+		891003 809	0.9-	1.2-	931111 801	0.4-	0.7-
890926 809	0.4-	0.7+		891003 809	1.3-	1.4-	931113 801	0.5-	0.4-
890926 809	0.0	0.3+		891006 807	1.5+	0.5-	931113 801	0.6-	0.5-
890928 809	0.0	2.0+		891007 809	0.0	0.3-			

1985 QA₁ = 1978 UB₅Id. E. Bowell (*MPC* 20813)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.26411804	ω	324.55110	-0.98952342	-0.13036786		
<i>a</i>	2.4058618	Ω	208.15081	+0.14280807	-0.94693234		
<i>e</i>	0.0758382	<i>i</i>	7.55485	-0.02119587	-0.29380836		
<i>P</i>	3.73	<i>H</i>	13.0	<i>G</i>	0.15		

Residuals in seconds of arc

781027 675	0.0	0.3-	850817 675	(3.1+	1.1+)	931019 675	1.6+	1.3+
781028 675	0.4+	0.2-	850823 675	0.8-	0.6+	931019 675	(0.3-	2.5+)
781029 675	0.1-	0.5-	850823 675	0.9+	1.3+	931021 675	0.3-	0.4+
850816 675	0.3+	0.9-	931013 675	0.0	0.8-	931021 675	1.2-	0.7+
850816 675	(3.8+	1.3+)	931013 675	0.4-	0.2-			
850817 675	0.5-	0.9-	931015 675	0.0	0.5-			

1986 CD₂ = 1991 RV₈Id. E. Bowell (*MPC* 19296)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28986733	ω	105.57845	-0.33220485	-0.94318209		
<i>a</i>	2.2611873	Ω	3.84498	+0.82122205	-0.29282653		
<i>e</i>	0.1185064	<i>i</i>	5.89826	+0.46393349	-0.15703557		
<i>P</i>	3.40	<i>H</i>	14.5	<i>G</i>	0.15		

Residuals in seconds of arc

541230 675	0.8-	0.4-	860215 809	0.0	0.4+	860220 809	0.6-	0.4-
541230 675	0.8+	0.4+	860215 809	0.3+	0.4+	910911 675	1.2+	0.6-
860212 809	0.5-	0.3+	860216 809	0.3+	0.2+	910911 675	1.3+	0.1+
860212 809	0.4-	0.2+	860216 809	0.7+	0.2+	910914 675	1.2+	0.0
860212 809	0.3-	0.2+	860217 809	0.6+	0.4-	910914 675	0.0	0.0
860213 809	1.3-	0.1-	860217 809	0.9+	0.5-	911006 691	1.4-	0.1+
860213 809	1.2-	0.1-	860217 809	1.3+	0.4-	911006 691	1.3-	0.1+
860213 809	0.9-	0.1-	860219 809	0.8+	0.0	911006 691	0.7-	0.1+
860214 809	0.3-	0.0	860219 809	1.2+	0.3+	911109 675	(1.8-	3.8-)
860214 809	0.2-	0.0	860219 809	1.4+	0.3+	911109 675	(0.2-	2.9-)
860214 809	0.0	0.1-	860220 809	1.0-	0.4-			
860215 809	0.2-	0.2+	860220 809	0.8-	0.3-			

1986 QG₂ = 1993 OO₈

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.27791946	ω	202.75793	+0.91047096	+0.40931600		
<i>a</i>	2.3255378	Ω	132.94134	-0.36591837	+0.86396104		
<i>e</i>	0.2684433	<i>i</i>	4.63744	-0.19273394	+0.29331166		
<i>P</i>	3.55	<i>H</i>	15.8	<i>G</i>	0.15		

Residuals in seconds of arc

860828 809	0.9-	0.3-	860904 809	0.0	0.7+	860908 809	0.2-	0.1-
860828 809	0.9-	0.3-	860904 809	0.2+	0.8+	860908 809	0.1+	0.0
860828 809	0.9-	0.0	860904 809	0.6+	0.9+	860908 809	0.3+	0.5-
860830 809	0.3-	0.2-	860905 809	0.1+	0.1-	860910 809	1.1-	0.4-
860830 809	0.3-	0.3-	860905 809	0.5+	0.0	860910 809	1.3-	0.3-
860830 809	0.3-	0.5-	860905 809	0.6+	0.1+	860910 809	1.3-	0.3-
860902 809	0.1-	0.2-	860906 809	0.2+	0.7+	930720 809	1.0+	0.6+
860902 809	0.2+	0.2-	860906 809	0.3+	0.6+	930720 809	0.2-	0.6+
860902 809	0.8+	0.2-	860906 809	0.3+	0.4+	930720 809	0.4-	0.1-

860903 809	0.5+	0.0	860907 809	0.1+	0.0	930724 809	0.5-	1.1-
860903 809	0.9+	0.2-	860907 809	0.1+	0.0			
860903 809	1.1+	0.2-	860907 809	0.4+	0.0			

1986 QV₃ = 1969 OD = 1993 VA₄

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.29172586	ω	237.25778	+0.99712813	-0.00104343		
<i>a</i>	2.2515734	Ω	122.69621	+0.02767856	+0.93575368		
<i>e</i>	0.2198910	<i>i</i>	5.16270	-0.07049394	+0.35265274		
<i>P</i>	3.38	<i>H</i>	13.5	<i>G</i>	0.15		

Residuals in seconds of arc

690716 095	0.6-	2.6+	860829 809	0.2-	1.1-	931115 402	0.4-	1.0-
860811 095	2.5+	0.3-	860909 095	1.9-	0.2+	931115 402	0.0	0.3-
860817 095	(7.9-	4.8-)	860929 095	0.1+	0.3+	931116 402	1.3+	1.3+
860818 095	0.9+	1.3+	861006 095	(6.0-	5.4-)	931116 402	(1.2+	3.3-)
860829 809	0.3-	1.3-	931115 403	1.3-	1.0+			
860829 809	0.0	1.3-	931115 403	0.3+	0.3+			

1986 QO₄ = 1993 UP₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28853638	ω	1.16481	+0.99709000	-0.07595511		
<i>a</i>	2.2681355	Ω	3.21307	+0.06897035	+0.86243358		
<i>e</i>	0.1853657	<i>i</i>	6.66773	+0.03247495	+0.50043894		
<i>P</i>	3.42	<i>H</i>	13.9	<i>G</i>	0.15		

Residuals in seconds of arc

860817 095	(13.0-	5.6+)	860929 095	2.7+	1.4-	931107 399	2.0-	0.0
860906 095	0.8-	2.6-	861002 095	2.6-	1.3+	931107 399	0.5-	1.3+
860909 095	0.4+	3.1+	931020 399	1.1+	0.6-	931109 399	0.8+	0.1+
860915 095	(5.1-	30.7-)	931020 399	1.5+	1.2-	931109 399	0.8-	0.0

1986 XX = 1972 YE₁ = 1981 JQ₆ = 1993 VP₄

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.28003232	ω	100.44896	-0.97259994	-0.18469489		
<i>a</i>	2.3138255	Ω	69.02121	+0.10479694	-0.89043711		
<i>e</i>	0.0523934	<i>i</i>	8.69782	+0.20752582	-0.41594417		
<i>P</i>	3.52	<i>H</i>	13.5	<i>G</i>	0.15		

Residuals in seconds of arc

721230 095	0.5-	1.6+	861202 688	0.2+	1.2-	931109 010	1.1+	1.7+
810508 675	0.5-	0.2+	861202 688	0.1-	0.6-	931110 010	0.6-	0.6-
810509 675	0.3+	0.5-	861206 054	0.7+	1.0-	931110 010	1.0-	0.5-
861130 801	0.5+	0.6-	931109 010	1.0+	1.9+	931110 010	1.2-	0.8-

1987 SS₉ = 1989 AC₄Id. S. Nakano (*MPC* 14620)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>		(2000.0)		P		Q	
<i>n</i>	0.17469133	ω	290.36789	+0.71986040	-0.69284891		
<i>a</i>	3.1692401	Ω	113.51474	+0.65269155	+0.65508246		
<i>e</i>	0.1935471	<i>i</i>	2.62333	+0.23620911	+0.30137579		
<i>P</i>	5.64	<i>H</i>	13.1	<i>G</i>	0.15		

Residuals in seconds of arc

870919 071	(0.6- 4.1-)	871001 033	1.9+	0.3+	931107 399	1.1-	0.3-
870919 071	0.5+ 2.1+	890104 413	1.3-	1.5+	931115 894	0.1-	0.7+
870920 071	2.0- 2.8-	890104 413	0.8-	0.1-	931115 894	0.1+	0.0
870921 071	2.9- 1.4+	890110 413	0.1+	0.5+	931116 894	0.1-	0.4-
870930 033	1.3+ 0.1+	890110 413	2.3+	1.0-	931116 894	1.5+	0.9-
870930 033	0.7+ 0.2-	931107 399	0.0	0.0			

1988 NR = 1993 VL₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.23279758	ω	85.92207 +0.94329263 +0.23785144
<i>a</i>	2.6170805	Ω	260.20238 -0.30890462 +0.88437234
<i>e</i>	0.1513181	<i>i</i>	13.59161 +0.12156049 +0.40163697
<i>P</i>	4.23	<i>H</i>	12.5 <i>G</i> 0.15

Residuals in seconds of arc

880712 675	0.9+ 1.5-	880808 675	0.5+	0.3-	931116 365	1.7-	0.3-
880714 675	0.7- 1.6+	931115 365	(2.8+ 5.9+)		931116 365	0.1+	0.2-
880808 675	0.6- 0.2+	931115 365	1.7+	0.4+			

1988 RM₇ = 1992 FJ₃ = 1993 OF₁₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.18522494	ω	5.92393 +0.55144109 +0.83395170
<i>a</i>	3.0479166	Ω	297.54375 -0.76634121 +0.49651198
<i>e</i>	0.1923764	<i>i</i>	1.35142 -0.32959654 +0.24083278
<i>P</i>	5.32	<i>H</i>	14.5 <i>G</i> 0.15

Residuals in seconds of arc

880909 809	1.0- 0.1-	881007 807	0.5+	0.7-	930719 809	0.7-	0.9+
880909 809	0.6- 0.0	881008 807	1.0+	0.5-	930719 809	0.4+	0.9+
880909 809	0.1+ 0.1-	920325 691	0.4-	0.8-	930719 809	0.5+	0.8-
880914 807	0.5- 0.3-	920325 691	0.4-	1.1-	930719 809	0.1-	1.3-
880915 807	0.3+ 0.1+	930712 809	0.5+	0.0	930719 809	0.5-	1.3-
880916 807	0.7+ 0.6+	930712 809	0.9-	0.5+	930723 809	0.7+	0.1+
881004 807	0.3+ 0.7-	930712 809	0.5-	0.4+	930723 809	0.2-	0.2+
881005 807	0.3+ 0.4-	930719 809	0.1-	1.1+	930723 809	0.8+	0.2-

1988 VR₂ = 1993 VB₄

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.19686963	ω	359.41835 +0.03564306 -0.97248477
<i>a</i>	2.9265115	Ω	88.52338 +0.91782654 -0.05928676
<i>e</i>	0.2797620	<i>i</i>	13.31474 +0.39537833 +0.22529636
<i>P</i>	5.01	<i>H</i>	13.2 <i>G</i> 0.15

Residuals in seconds of arc

881112 675	1.3- 0.0	890102 675	0.3+	0.5-	931116 402	1.0+	0.2+
881113 675	0.1+ 1.0-	890102 675	0.9-	0.0	931116 402	0.6-	0.9-
881206 675	0.9+ 0.6+	931115 402	0.1+	0.0			
881207 675	0.9+ 0.7+	931115 402	0.6-	0.9+			

1989 GZ₁ = 1990 TD₁₁Id. R. Nagata (*MPC* 17636); 1989 GZ₁ = 1980 WV (*ibid.*) is invalid

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.28471302	ω	47.57828 +0.52265490 +0.85185057
<i>a</i>	2.2883959	Ω	253.96276 -0.79232491 +0.47045194
<i>e</i>	0.0576870	<i>i</i>	2.05045 -0.31472702 +0.23027284
<i>P</i>	3.46	<i>H</i>	16.0 <i>G</i> 0.15

Residuals in seconds of arc

890403 809	0.7- 0.7-	890408 809	1.6+	0.3-	901011 033	0.7+	1.1-
890403 809	1.2- 0.2+	890408 809	0.9+	0.3+	901012 033	1.1-	1.1+
890403 809	0.5- 0.2-	890408 809	0.3+	0.2+	901012 033	0.0	0.8+
890405 809	0.4+ 0.2+	890410 809	0.7-	0.4-	901013 033	0.5+	0.7-
890405 809	0.9+ 0.2+	890410 809	1.6-	0.1+	901014 033	0.0	0.1-
890405 809	1.1+ 0.6+	890410 809	0.2-	0.2-			

1989 SD₁ = 1993 NE₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Marsden	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.19938610	ω	344.16375 +0.07167393 -0.99564170
<i>a</i>	2.9018356	Ω	101.69758 +0.92160966 +0.04322909
<i>e</i>	0.0345658	<i>i</i>	3.49348 +0.38144264 +0.08263683
<i>P</i>	4.94	<i>H</i>	13.0 <i>G</i> 0.15

Residuals in seconds of arc

890926 809	0.3+ 0.1-	891006 807	0.2-	0.5+	891028 807	1.2-	0.1+
890926 809	0.9- 1.7-	891007 809	0.2+	1.7+	930712 809	0.6+	0.5+
890926 809	1.0- 1.8-	891007 809	0.0	1.2+	930712 809	0.6+	0.2+
890928 809	(2.8+ 0.1-)	891007 809	0.5-	0.9+	930712 809	0.3+	0.4+
890928 809	0.8+ 1.3-	891008 809	0.9+	0.2-	930719 809	0.1-	0.2-
890928 809	(0.6- 2.7-)	891008 809	1.0+	0.1+	930719 809	0.1-	0.2-
891002 807	0.6- 0.2+	891008 809	1.0+	0.3+	930719 809	1.2-	0.5-

1989 TP₁₁ = 1978 WP₁₄ = 1993 VZ₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	0.26188740	ω	145.31937 +0.91506221 +0.40313612
<i>a</i>	2.4195038	Ω	190.92561 -0.38282074 +0.85887613
<i>e</i>	0.1580055	<i>i</i>	3.61008 -0.12692297 +0.31593205
<i>P</i>	3.76	<i>H</i>	13.6 <i>G</i> 0.15

Residuals in seconds of arc

781128 330	0.5+ 3.0-	891004 809	0.2+	0.5+	891008 809	0.1+	0.7-
891002 807	1.3+ 0.4+	891004 809	0.6+	0.3+	891029 807	0.6+	0.5+
891003 809	0.7- 0.2-	891006 809	1.1-	0.4-	891101 807	0.1+	0.7+
891003 809	0.4- 0.2-	891006 809	0.8-	0.3-	931111 399	0.4-	0.3-
891003 809	0.1+ 0.1-	891006 809	0.2-	0.1-	931111 399	0.1+	1.8+
891004 807	0.7+ 0.1+	891008 809	0.3-	0.8-	931116 399	0.4+	0.5+
891004 809	0.0 0.5+	891008 809	0.1-	0.6-	931116 399	0.8-	1.3+

1989 UQ = 1954 WZ

Id. E. Bowell, G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		(M-N) Williams	
<i>M</i>	(2000.0)	<i>P</i>	<i>Q</i>
<i>n</i>	1.12569895	ω	14.60995 -0.97292366 +0.23112618
<i>a</i>	0.9152110	Ω	178.75312 -0.21423478 -0.90102548
<i>e</i>	0.2649414	<i>i</i>	1.28115 -0.08673529 -0.36706100
<i>P</i>	0.88	<i>H</i>	19.0 <i>G</i> 0.15

Residuals in seconds of arc

541120 675	1.2-	2.0-	891031 010	0.3+	1.0+	891211 675	0.7-	0.6+
541120 675	0.8+	0.5-	891101 675	2.1+	0.7+	891211 675	0.7-	0.4+
541120 675	1.0+	0.9-	Y 891102 675	1.3-	0.6-	891211 675	0.7-	0.3+
891026 010	0.1-	0.5+	891104 474	1.8-	0.5+	891213 675	0.8-	0.3+
891026 010	2.3+	0.5+	891104 474	1.3-	0.0	891213 675	1.2-	0.5+
891026 010	2.4+	0.6+	891105 675	1.2+	0.1-	891213 675	0.8-	0.6+
891031 010	(3.4-	1.3-)	891122 413	1.9-	0.9+	900107 675	1.3+	0.1-
891031 010	2.0-	0.8-	891122 413	1.0+	0.5+	900107 675	0.4+	0.7+
891031 010	1.6-	0.5-	891129 010	1.8+	0.4-			

1989 UK₁ = 1993 UO

Id. S. Nakano, E. Bowell

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	355.69239	(2000.0)	P	Q	
<i>n</i>	0.24110579	ω 224.11081	+0.14436039	-0.98166015	
<i>a</i>	2.5566089	Ω 218.10020	+0.95454951	+0.17130984	
<i>e</i>	0.2760684	<i>i</i> 11.64170	+0.26075910	-0.08364380	
<i>P</i>	4.09	<i>H</i> 13.5	<i>G</i> 0.15		

Residuals in seconds of arc

891026 399	0.9+	2.1+	891120 399	1.4-	1.0-	931015 675	0.1-	0.9-
891026 399	0.1+	1.0+	891120 399	1.7-	1.2+	931019 400	1.6+	0.1+
891026 399	0.0	0.3+	891125 399	1.3+	1.5-	931019 400	0.0	0.2+
891029 399	0.1+	1.1-	891125 399	0.1+	1.4+	931020 399	0.6+	0.6+
891029 399	0.0	1.0-	891125 399	1.7+	0.6+	931020 399	1.6-	0.6+
891029 399	0.2-	1.1-	931014 675	0.2-	0.7-			
891120 399	0.8-	0.9-	931014 675	0.3-	0.0			

1989 UN₁ = 1985 VN₃ = 1993 TY

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Ichikawa			
<i>M</i>	22.32809	(2000.0)	P	Q	
<i>n</i>	0.24228602	ω 184.77874	+0.78072968	-0.62311570	
<i>a</i>	2.5482995	Ω 213.90883	+0.57604873	+0.74671982	
<i>e</i>	0.2872696	<i>i</i> 4.80973	+0.24213432	+0.23267216	
<i>P</i>	4.07	<i>H</i> 14.2	<i>G</i> 0.15		

Residuals in seconds of arc

851110 095	0.1+	0.5+	891028 403	2.2-	0.1-	931011 400	1.6+	0.9+
891025 033	1.1+	0.4+	891028 403	0.3-	0.3+	931011 400	1.0-	1.0-
891025 033	1.8+	0.7+	891029 403	1.3+	1.9+	931012 400	0.6+	0.0
891026 399	0.0	1.5-	891029 403	2.4-	0.4+	Y 931012 400	2.5-	0.0
891026 399	0.4+	1.0-	891029 399	0.6+	0.2-	931019 400	0.4+	0.7+
891026 399	0.1-	1.9-	891029 399	0.9-	0.1-	931019 400	0.8+	0.3+
891027 033	0.6-	0.4+	891029 399	1.5+	0.6-			

1989 UB₃ = 1952 YD = 1993 TB₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	354.98829	(2000.0)	P	Q	
<i>n</i>	0.23925790	ω 18.68337	+0.16893542	-0.98208320	
<i>a</i>	2.5697558	Ω 61.66462	+0.89177601	+0.11621744	
<i>e</i>	0.2611423	<i>i</i> 5.44409	+0.41975751	+0.14834449	
<i>P</i>	4.12	<i>H</i> 14.0	<i>G</i> 0.15		

Residuals in seconds of arc

521217 760	0.2+	1.4-	891105 494	2.1-	0.4-	891202 808	0.6+	1.7+
891030 095	(1.2-	3.6+)	891106 978	0.1+	2.3-	931011 400	1.6+	2.9+

891030 095	1.6+	0.3+	891107 399	(5.7+	2.6-)	931011 400	0.0	0.5-
891031 494	1.0+	0.3-	891107 399	2.8+	0.5-	931015 400	1.0-	1.3-
891031 494	0.7+	0.7-	891121 095	(1.8-	5.7+)	931015 400	0.1-	1.2-
891104 494	1.7-	0.9-	891121 095	2.1-	2.6+			
891104 494	2.2-	0.4+	891202 808	0.5+	1.4+			

1989 WL₁ = 1964 VW₂ = 1972 TZ₅ = 1993 UK₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	17.99313	(2000.0)	P	Q	
<i>n</i>	0.23637822	ω 173.49907	+0.66272361	-0.72741743	
<i>a</i>	2.5905844	Ω 234.82298	+0.67689315	+0.68351459	
<i>e</i>	0.1475748	<i>i</i> 12.57351	+0.32033277	+0.06059437	
<i>P</i>	4.17	<i>H</i> 12.3	<i>G</i> 0.15		

Residuals in seconds of arc

641112 330	0.3+	3.0+	891129 399	2.3+	1.9+	891223 399	0.8+	0.4-
721006 095	(14.3-	14.7+)	891201 399	1.5+	0.2-	891223 399	0.6-	1.4+
891125 399	1.2+	0.6-	891201 399	0.7+	0.3-	931020 399	0.2-	0.2+
891125 399	0.5-	1.8-	891201 399	0.3-	0.7-	931020 399	2.5+	0.7-
891125 399	1.2+	0.8-	891206 881	2.2-	0.3+	931107 399	1.4-	0.9+
891128 033	2.6-	0.3-	891206 881	0.9-	0.0	931107 399	1.3-	0.3+
891129 033	1.5+	0.2+	891206 399	1.0-	1.7-	931109 399	0.9+	0.1+
891129 881	0.2-	1.1-	891206 399	0.4-	0.6-	931109 399	0.7-	0.2-
891129 881	(3.5-	1.3+)	891206 399	2.4-	1.1-			
891129 399	2.1+	0.6+	891223 399	0.5-	1.8+			

1989 WA₂ = 1993 VH₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	43.28252	(2000.0)	P	Q	
<i>n</i>	0.23974681	ω 315.55903	+0.85892953	-0.43684632	
<i>a</i>	2.5662610	Ω 72.09839	+0.51203601	+0.72479607	
<i>e</i>	0.1467524	<i>i</i> 16.30874	+0.00769294	+0.53276257	
<i>P</i>	4.11	<i>H</i> 12.3	<i>G</i> 0.15		

Residuals in seconds of arc

891129 400	0.3+	0.7+	891206 400	0.5+	0.9-	891231 400	0.7+	0.3-
891129 400	1.1+	0.3-	891208 385	0.9-	0.9-	891231 400	1.0+	0.2-
891201 400	2.8-	0.1-	891208 385	0.1+	0.1+	931115 402	0.9+	1.9-
891201 400	2.1-	1.6+	891218 400	0.4-	0.5+	931115 402	0.7-	2.7+
891205 400	1.0+	0.9-	891218 400	1.7+	0.7-	931117 402	0.1+	1.3-
891205 400	0.0	0.9+	891224 400	0.9-	0.0	931117 402	0.1-	0.2+
891206 400	1.0+	0.6-	891224 400	0.4-	1.5+			

1989 WH₃ = 1993 VJ₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	41.39082	(2000.0)	P	Q	
<i>n</i>	0.24000502	ω 347.74686	+0.90783982	-0.41912525	
<i>a</i>	2.5644201	Ω 37.04075	+0.38647169	+0.82460917	
<i>e</i>	0.2081198	<i>i</i> 1.20653	+0.16268525	+0.37993913	
<i>P</i>	4.11	<i>H</i> 13.3	<i>G</i> 0.15		

Residuals in seconds of arc

891129 400	0.1+	0.5-	891206 400	0.8+	0.6+	931123 411	0.4+	0.2+
891129 400	0.5+	0.2+	931111 399	0.6+	0.3+	931123 411	1.5+	0.2+
891201 400	0.3-	0.1-	931111 399	0.9-	0.8+	931124 411	0.2-	0.9-
891201 400	(4.9+	4.3-)	931116 399	0.9-	0.6+	931124 411	0.1-	0.7-
891206 400	1.1-	0.2+	931116 399	0.1-	0.0	931124 411	0.2-	0.8-

1989 XM = 1988 RJ₅Id. H. Oishi (*MPC* 15898)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Bowell	
<i>M</i>	28.61368	(2000.0)	
<i>n</i>	0.19666766	ω 280.22074	+0.93161977 +0.36084773
<i>a</i>	2.9285148	Ω 58.63896	-0.31044531 +0.85204891
<i>e</i>	0.0344238	<i>i</i> 2.90555	-0.18896642 +0.37921178
<i>P</i>	5.01	<i>H</i> 12.6	<i>G</i> 0.15

Residuals in seconds of arc

530917 675	0.6+	0.1-	880910 809	0.1-	1.6-	891203 888	0.1+	0.9-
530917 675	0.1+	1.6-	880910 809	0.3-	2.0-	891203 888	0.4-	1.0-
880902 809	0.4+	1.1+	880910 809	0.2-	2.2-	891220 888	1.0+	0.4+
880902 809	0.4+	1.0+	880911 809	(0.0	2.8-)	891220 888	0.1+	0.3+
880902 809	0.2+	1.1+	880911 809	(0.2-	3.1-)	891229 888	1.4+	0.3+
880905 809	0.6-	1.0+	880911 809	(0.6-	3.8-)	891229 888	0.7+	1.4+
880905 809	1.0-	1.0+	891129 888	(0.4+	3.0-)	910321 801	0.2-	0.6-
880905 809	0.8-	1.0+	891129 888	(0.0	2.7-)	910321 801	(1.6-	1.9-)
880907 809	0.7+	0.4+	891202 888	1.3-	0.1+			
880907 809	0.7+	0.5+	891202 888	1.5-	0.0			

1990 QR₂ = 1990 RV₈ = 1990 SF₂₆Id. E. Bowell (1953, 1954 observations), G. V. Williams (d, *MPC* 17943), S. Nakano (d, *MPC* 20912)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Bowell	
<i>M</i>	321.03705	(2000.0)	
<i>n</i>	0.21398468	ω 321.39035	+0.45183440 +0.89152297
<i>a</i>	2.7683071	Ω 335.42128	-0.79811655 +0.38787812
<i>e</i>	0.0611187	<i>i</i> 4.43058	-0.39856700 +0.23396016
<i>P</i>	4.61	<i>H</i> 12.4	<i>G</i> 0.15

Residuals in seconds of arc

530906 675	0.3+	0.2+	900829 095	0.8+	0.3-	900918 095	1.4+	1.0+
530906 675	0.8-	0.7+	900829 095	1.3-	1.0-	900918 095	2.2+	0.3-
541230 675	0.8+	0.2+	900914 675	0.7+	1.4-	900920 675	(2.7-	3.3-)
541230 675	0.8-	0.1-	900914 675	2.0+	0.4-	900920 675	1.3-	0.1+
900824 675	0.3+	0.9-	900915 675	0.0	1.4+	900922 095	1.9-	0.4+
900824 675	0.5-	0.5-	900915 675	1.6-	1.5+	900922 095	1.6-	0.5+
900829 675	0.6+	0.8-	900918 675	1.3+	0.8+	901022 675	0.4-	1.2-
900829 675	(3.0+	2.0-)	900918 675	(2.6+	0.8-)	901022 675	0.5-	0.1+

1990 RS₂ = 1993 NH₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Marsden	
<i>M</i>	343.86764	(2000.0)	
<i>n</i>	0.29305348	ω 95.52333	+0.87205483 -0.48835578
<i>a</i>	2.2447680	Ω 293.71279	+0.43400993 +0.80197122
<i>e</i>	0.1468015	<i>i</i> 2.00784	+0.22617638 +0.34402150
<i>P</i>	3.36	<i>H</i> 14.0	<i>G</i> 0.15

Residuals in seconds of arc

900915 675	1.5+	1.2-	900917 675	(0.2-	2.5-)	930712 809	0.7+	0.2+
900915 095	1.6-	0.2-	900919 675	0.8-	0.2+	930712 809	0.6-	0.4+
900915 095	(0.4-	3.5+)	900919 675	0.6-	0.3+	930712 809	0.2-	0.6+
900916 675	0.6+	0.7+	900923 095	(3.6-	1.1+)	930719 809	0.4-	0.8-
900916 675	0.5+	0.6+	901011 095	(3.6-	1.2+)	930719 809	0.1-	0.0
900917 675	(0.8+	2.3-)	901015 095	0.3+	0.3-	930719 809	0.6+	0.5-

1990 RK₇ = 1973 AB₁ = 1981 UM₂₆ = 1983 HC₂Id. S. J. Bus (k, *MPC* 20507), G. V. Williams (*ibid.*; unpublished)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	156.65515	(2000.0)	
<i>n</i>	0.20649481	ω 357.20516	-0.21749709 -0.97542976
<i>a</i>	2.8348491	Ω 105.35508	+0.89622287 -0.21382064
<i>e</i>	0.1341521	<i>i</i> 2.08580	+0.38662589 -0.05308022
<i>P</i>	4.77	<i>H</i> 14.0	<i>G</i> 0.15

Residuals in seconds of arc

520915 675	0.1+	0.8-	900816 809	1.2+	0.5+	900913 809	0.8-	0.6+
520915 675	0.4+	0.4-	900816 809	0.6+	0.9-	900913 809	0.3-	0.8+
730101 095	(2.5-	4.3-)	900816 809	1.5+	1.8-	900914 809	0.5-	0.8+
811025 675	0.4+	0.8-	900820 809	0.0	1.2-	900914 809	0.4-	0.6+
811026 675	0.1-	0.6-	900820 809	0.3+	1.8-	900914 809	0.1-	0.6+
830416 033	1.2-	2.5-	900820 809	0.6+	1.2-			
830416 033	0.6-	2.2-	900913 809	1.0-	0.3+			

1990 SO₄ = 1978 EE₈

Id. T. Urata

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Bardwell	
<i>M</i>	9.39974	(2000.0)	
<i>n</i>	0.28223498	ω 52.08722	+0.98393386 +0.13155271
<i>a</i>	2.3017712	Ω 300.05301	-0.17276772 +0.87202169
<i>e</i>	0.1783968	<i>i</i> 8.01572	+0.04500521 +0.47145737
<i>P</i>	3.49	<i>H</i> 12.5	<i>G</i> 0.15

Residuals in seconds of arc

780305 095	0.2+	0.4+	901017 095	(1.3-	3.6-)	901223 385	2.1-	0.5-
900927 385	1.0-	2.1+	901021 385	1.1+	0.3+	901223 385	0.2+	0.3+
900927 385	(5.1-	1.3-)	901021 385	1.0+	2.0+	901223 385	1.5+	1.4+
901008 385	(6.9-	0.2-)	901107 385	(0.1+	3.0+)	931112 801	0.4-	0.7+
901013 385	0.2+	2.3-	901107 385	0.0	2.3+	931112 801	0.0	0.3+
901013 385	0.0	2.2-	901114 095	0.7+	1.8-			
901017 095	1.6-	1.1-	901114 095	(2.5+	3.0-)			

1991 CW = 1969 TL₃ = 1986 VN₉ = 1993 VX₄

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	21.86720	(2000.0)	
<i>n</i>	0.28970054	ω 307.79510	+0.40490076 -0.91121760
<i>a</i>	2.2620551	Ω 118.15846	+0.86359983 +0.35388953
<i>e</i>	0.1606227	<i>i</i> 4.92878	+0.30041757 +0.21081909
<i>P</i>	3.40	<i>H</i> 13.5	<i>G</i> 0.15

Residuals in seconds of arc

691009 095	0.9-	2.4+	910217 385	0.3+	0.1-	910306 881	1.3-	1.1-
861105 688	0.2-	0.6-	910217 881	0.8-	0.8-	910306 881	2.1-	1.4+
861105 688	0.5+	0.7-	910217 881	2.3+	1.4-	931115 391	0.3+	0.5-
910208 881	0.6+	0.6-	910219 385	0.9+	1.8+	931115 391	1.0-	0.3+
910208 881	0.9-	0.3-	910219 385	0.1+	2.6+	931118 391	(5.2-	4.5-)
910212 881	0.1-	1.6-	910220 385	2.3+	0.4+	931122 391	1.8+	0.6+
910212 881	0.0	1.1-	910220 385	(3.1+	0.2+)	931122 391	0.9-	1.1-
910217 385	0.4+	1.6+	910220 881	1.8-	0.4+			

1991 CM₃ = 1987 BP₂Id. T. Urata (*MPC* 18127)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	P	Q
<i>n</i>	0.26006368	ω 297.31093	+0.42048321 -0.90513139
<i>a</i>	2.4308019	Ω 127.68432	+0.85792363 +0.37416334
<i>e</i>	0.1318610	<i>i</i> 4.54403	+0.29523029 +0.20183898
<i>P</i>	3.79	<i>H</i> 12.7	<i>G</i> 0.15

Residuals in seconds of arc

510806 675	0.7+	0.3+	870202 046	1.4+	0.7-	910318 898	1.8-	2.5+
510806 675	1.3-	1.3+	870202 046	(1.4+	3.7-)	910318 898	1.5-	1.8+
870131 046	0.1-	0.6-	910214 400	1.5+	0.2-	931019 901	0.1-	1.5+
870131 046	0.8-	1.8-	910214 400	1.3+	0.3-	931019 901	1.7+	1.0+
870201 046	1.6-	1.1+	910220 400	1.3+	1.6+	931111 400	1.6-	0.1-
870201 046	0.9+	0.6-	910220 400	0.8+	0.1-	931111 400	0.7-	0.5-

1991 DK = 1951 PQ = 1972 TD₅

Id. T. Seki (1993 observations), S. Nakano

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	P	Q
<i>n</i>	0.23799995	ω 19.81353	+0.95528404 -0.29541042
<i>a</i>	2.5788028	Ω 357.26905	+0.22164149 +0.74414319
<i>e</i>	0.1443297	<i>i</i> 15.64480	+0.19572292 +0.59915240
<i>P</i>	4.14	<i>H</i> 11.6	<i>G</i> 0.15

Residuals in seconds of arc

510801 078(26.7+ 23.6-)Y	910220 372	1.1-	1.8-	910309 372	0.9-	0.6-
721006 095	910220 372	0.4+	0.0	910309 372	0.2-	0.2+
910212 372	910222 372	0.8+	0.6+	931118 372	0.5-	0.3+
910212 372	910222 372	0.3+	0.6+	931118 372	0.3+	0.0

1991 DM = 1993 VF₄

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	P	Q
<i>n</i>	0.27039982	ω 25.53863	-0.93309070 -0.35923880
<i>a</i>	2.3684607	Ω 133.39689	+0.32582064 -0.86441733
<i>e</i>	0.1475432	<i>i</i> 1.34114	+0.15225851 -0.35175299
<i>P</i>	3.65	<i>H</i> 13.7	<i>G</i> 0.15

Residuals in seconds of arc

910213 675	0.5-	0.4-	910311 809	0.7-	0.9+	910313 809	0.1-	0.2-
910213 675	0.2-	1.4+	910311 809	0.0	0.7+	931111 399	0.5+	0.4-
910220 413	1.6+	1.0-	910311 809	0.4+	0.6+	931111 399	0.1+	0.4+
910222 413	0.3-	1.1-	910313 809	0.2-	0.4-	931116 399	0.0	0.5+
910224 413	0.3-	0.3-	910313 809	0.1+	0.3-	931116 399	0.6-	0.4-

1991 EO₁

Id. J. E. Rogers (1993 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams	
<i>M</i>	(2000.0)	P	Q
<i>n</i>	0.23022100	ω 278.33503	+0.80757007 -0.58695803
<i>a</i>	2.6365707	Ω 117.62560	+0.56344391 +0.73901438
<i>e</i>	0.0887901	<i>i</i> 3.72363	+0.17424564 +0.33066300
<i>P</i>	4.28	<i>H</i> 13.5	<i>G</i> 0.15

Residuals in seconds of arc

910313 801	0.1-	0.1-	910318 801	0.4+	0.1-	931120 670	0.3+	1.1+
910313 801	0.2-	0.3-	910318 801	0.0	0.6+	931120 670	0.8-	1.0-
910313 801	0.1-	0.9+	910412 801	0.1-	0.1+	931120 670	0.7+	0.2+

910313 801	0.2-	0.4-	910412 801	0.4+	0.2+	931124 670	2.2+	1.0+
910316 801	0.1+	1.0-	910414 801	0.0	0.0	931124 670	1.7-	0.5-
910316 801	0.2+	0.1+	910414 801	0.1+	0.1-	931124 670	0.7-	0.6-
910317 801	0.0	0.3-	910511 801	0.1-	0.3+			
910317 801	0.1-	0.0	910511 801	0.3-	0.5+			

1991 GQ₃ = 1993 TT₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	P	Q
<i>n</i>	0.23521111	ω 235.76772	+0.24645645 -0.96641914
<i>a</i>	2.5991469	Ω 200.34038	+0.94372663 +0.25639632
<i>e</i>	0.1503522	<i>i</i> 12.08182	+0.22054311 -0.01717489
<i>P</i>	4.19	<i>H</i> 13.3	<i>G</i> 0.15

Residuals in seconds of arc

910408 809	2.0+	0.3+	910419 809	0.5-	0.5-	931016 400	0.7-	1.0+
910408 809	1.6+	0.7-	910419 809	2.7-	0.8+	931020 399	1.0-	2.0-
910408 809	0.3-	0.9-	910419 809	1.0-	1.7-	931020 399	0.4+	1.2-
910410 809	0.3+	1.1+	931015 400	0.7-	0.5-	931111 400	1.5+	1.1+
910410 809	0.2-	0.3+	931015 400	0.4+	0.1-	931111 400	1.5-	0.1-
910410 809	0.7+	0.3+	931016 400	1.9+	1.0+			

1991 GX₇ = 1984 WP₅ = 1993 UO₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	P	Q
<i>n</i>	0.21509634	ω 47.21779	+0.62648279 -0.77935582
<i>a</i>	2.7587607	Ω 4.03882	+0.66103389 +0.52369719
<i>e</i>	0.1325512	<i>i</i> 9.09052	+0.41298125 +0.34401419
<i>P</i>	4.58	<i>H</i> 13.5	<i>G</i> 0.15

Residuals in seconds of arc

841121 010	0.0	0.0	910410 809	1.3+	1.2-	931107 399	1.2+	0.9+
910408 809	0.6-	0.8-	910419 809	0.7-	1.2+	931107 399	1.0-	0.7+
910408 809	1.3-	0.4-	910419 809	0.2-	1.7+	931109 399	0.9-	1.7-
910408 809	(3.0-	0.1-)	910419 809	1.0-	0.8+	931109 399	2.1-	0.1+
910410 809	1.3+	1.1-	931020 399	2.3+	0.4-			
910410 809	1.0+	0.5-	931020 399	0.6+	0.1-			

1991 GQ₁₀ = 1979 SQ₄ = 1989 WR₃

Id. H. Kaneda (MPC 18826), S. Nakano

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano	
<i>M</i>	(2000.0)	P	Q
<i>n</i>	0.21685674	ω 239.29614	+0.97844298 -0.19797653
<i>a</i>	2.7438104	Ω 132.05298	+0.20596332 +0.91463446
<i>e</i>	0.1212860	<i>i</i> 4.54011	+0.01511418 +0.35248986
<i>P</i>	4.54	<i>H</i> 12.6	<i>G</i> 0.15

Residuals in seconds of arc

790924 095	0.2-	0.4+	910411 033	0.4-	0.4+	931107 399	0.8-	0.5+
891129 033	0.4-	0.4-	910411 033	0.4+	0.2+	931107 399	0.4-	1.1+
891129 033	0.4+	1.0-	910412 033	0.5+	0.2+	931109 399	0.4+	0.5+
891202 033(17.0-	1.0-)		910413 033	0.3+	0.5-	931109 399	1.1+	0.5+
910409 033	0.3-	0.8+	931024 372	(4.8-	0.3+)	931113 372	0.5-	0.7+
910409 033	0.2+	0.7+	931025 372	0.4+	2.6-	931113 372	0.8-	0.9+

1991 UC = 1990 RL₁₈

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Ichikawa			
<i>M</i>	193.94243	(2000.0)	P	Q	
<i>n</i>	0.20245700	ω 51.79673	+0.99573420	-0.09127235	
<i>a</i>	2.8724172	Ω 313.43560	+0.07776398	+0.90901141	
<i>e</i>	0.0331354	<i>i</i> 1.06675	+0.04966050	+0.40665417	
<i>P</i>	4.87	<i>H</i> 12.7	<i>G</i> 0.15		

Residuals in seconds of arc

900909	413	0.0	0.2-	911019	399	1.3+	0.8+	911029	399	0.0	1.4-
900911	413	0.0	0.2+	911019	399	1.9-	0.9+	911029	399	2.0+	1.7+
911018	399	0.2+	0.3+	911028	399	0.0	0.2+	911031	399	0.8+	1.1-
911018	399	0.1+	1.7-	911028	399	1.2-	1.2+	911031	399	1.3-	0.9-

1991 WA

Id. R. H. McNaught (1993 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	75.96172	(2000.0)	P	Q	
<i>n</i>	0.49844053	ω 241.75232	+0.43649701	+0.68234859	
<i>a</i>	1.5754108	Ω 66.76517	-0.42087339	+0.73092342	
<i>e</i>	0.6424107	<i>i</i> 39.65495	-0.79519554	-0.01230276	
<i>P</i>	1.98	<i>H</i> 17.5	<i>G</i> 0.15		

Residuals in seconds of arc

911129	413	(0.8- 10.0+)	911205	801	0.4+	0.2+	931121	413	1.2-	2.1+
911129	413	(0.6+ 7.7-)	911220	413	0.3-	0.5-	931121	413	0.3-	1.4+
911201	413	1.3- 2.1+	911220	413	0.1-	0.2+	931122	413	0.7+	0.8-
911201	413	1.3- 2.3+	911220	413	1.3-	0.5-	931122	413	0.3+	0.1+
911201	413	(0.9+ 3.5+)	911220	413	0.3-	0.8-	931122	413	0.8+	0.4-
911202	413	0.2+ 1.4+	911220	413	0.1-	0.1-	931123	658	0.1+	0.4-
911202	413	0.2+ 1.1-	911220	413	0.1-	0.0	931123	658	0.8+	1.7-
911204	413	0.1- 1.7-	911220	413	0.4+	0.1+	931123	658	1.2+	2.0-
911204	413	0.1+ 0.8+	920102	801	0.1+	0.9+				
911204	413	0.4+ 1.9-	920102	801	0.7-	0.3-				

1992 AE₁ = 1954 WE₁ = 1983 EA₃

Id. E. Bowell, G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	168.21697	(2000.0)	P	Q	
<i>n</i>	0.21811032	ω 27.43160	-0.56781196	-0.80241322	
<i>a</i>	2.7332871	Ω 97.71842	+0.71720062	-0.59174392	
<i>e</i>	0.1946587	<i>i</i> 10.67956	+0.40399611	-0.07727974	
<i>P</i>	4.52	<i>H</i> 12.5	<i>G</i> 0.15		

Residuals in seconds of arc

541120	675	0.2-	0.2-	920117	877	0.3-	0.3-	920128	877	(3.1- 1.8-)
541120	675	0.1+	0.4+	920117	877	1.8+	0.9-	920224	877	0.1+ 0.4+
830314	095	0.1+	0.4+	920125	877	0.4-	1.3+	920224	877	1.1- 0.1+
920110	877	0.6+	0.5+	920125	877	1.1-	1.2+			
920110	877	0.5-	0.3-	920128	877	0.8+	2.3-			

1992 GF₄ = 1960 WE₁ = 1993 UM

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	42.42440	(2000.0)	P	Q	
<i>n</i>	0.29753696	ω 338.84587	+0.95584455	-0.28534523	
<i>a</i>	2.2221606	Ω 37.95834	+0.28335761	+0.83149829	
<i>e</i>	0.1821823	<i>i</i> 6.56095	+0.07790800	+0.47664316	
<i>P</i>	3.31	<i>H</i> 14.4	<i>G</i> 0.15		

Residuals in seconds of arc

601124	033	0.3+	0.8-	920425	809	0.6-	1.6-	931019	364	1.5+	0.9+
920404	809	0.1+	1.5+	931010	364	1.0-	0.7-	931023	894	1.0-	0.4+
920404	809	0.3+	1.8+	931010	364	0.2-	0.0	931023	894	1.1+	2.7-
920404	809	0.8+	0.8+	931013	675	1.9+	0.5-	931024	894	2.0-	0.6+
920406	809	0.9-	1.5+	931013	675	0.3+	0.2-	931024	894	1.1-	1.8+
920406	809	1.4-	0.0	931015	675	0.7+	0.0	931115	565	0.7+	0.5+
920406	809	0.1-	1.2-	931018	894	0.8-	0.5+	931115	565	0.4-	0.4+
920425	809	1.0+	1.8-	931018	894	0.7-	0.7-				
920425	809	0.8+	0.5-	931019	364	0.8+	0.4+				

1992 HE

Id. D. D. Balam (1993 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	178.03506	(2000.0)	P	Q	
<i>n</i>	0.29390680	ω 262.57857	+0.24693492	+0.92812467	
<i>a</i>	2.2404209	Ω 27.32038	-0.45735326	+0.36507635	
<i>e</i>	0.5720016	<i>i</i> 37.37125	-0.85431325	+0.07282754	
<i>P</i>	3.35	<i>H</i> 14.0	<i>G</i> 0.15		

Residuals in seconds of arc

920425	413	0.5+	0.8-	920821	413	0.2-	0.1-	921009	413	0.2+	0.5-
920425	413	0.6-	0.1+	920822	413	0.1-	0.2-	921009	413	0.2+	0.5-
920427	413	(0.9- 2.6+)	920822	413	0.2-	0.2-	921019	400	(6.3- 0.8+)		
920428	413	1.4-	0.5+	920824	801	0.2-	0.1+	921019	400	0.7-	0.1+
920429	413	0.4+	1.0+	920824	801	0.2-	0.0	921019	400	(2.9- 0.2+)	
920429	413	1.3+	0.8-	920828	657	0.0	0.1+	921019	400	(2.5+ 3.8-)	
920429	474	(0.2+ 3.2+)	920828	657	0.4-	0.2-	921020	675	1.3+ 1.3-		
920429	474	0.4-	0.3+	920828	657	0.5-	0.0	921020	675	2.0+ 0.0	
920430	413	0.8+	0.3+	920830	801	0.8-	0.2-	921022	801	0.5+ 0.3+	
920430	413	0.4+	0.4+	920830	801	0.8-	0.2-	921022	801	0.3+ 0.3+	
920430	474	0.8-	0.0	920905	596	1.7-	0.6+	921022	675	0.6+ 0.0	
920430	474	0.7-	0.6+	920905	596	0.9-	0.1+	921022	675	0.8+ 0.1-	
920430	474	0.6-	0.4-	920905	596	1.3-	1.1+	921028	801	0.2+ 0.4-	
920430	474	0.9-	0.1+	920905	596	0.1-	0.4-	921028	801	0.3+ 0.5-	
920503	413	0.1-	0.4+	920905	413	0.2-	1.1-	921101	670	0.9- 0.8-	
920503	413	0.1+	0.9+	920905	413	0.2-	1.2-	921101	670	1.4+ 0.9+	
920503	413	1.1+	0.2+	920906	596	1.0-	0.3-	921101	670	0.9- 1.3+	
920504	413	0.3-	1.0+	920906	596	1.3-	0.2-	921121	801	0.1+ 0.0	
920505	413	0.3-	0.9+	920906	596	1.5-	1.7+	921121	801	0.1- 0.3+	
920507	413	0.3-	1.5-	920906	413	0.7-	0.2-	921129	801	0.1+ 0.6+	
920509	413	0.0	0.3+	920906	413	0.6-	0.3-	921129	801	0.5+ 0.6+	
920509	413	0.1-	0.3-	920906	413	0.7-	0.3-	921209	413	0.6- 0.1-	
920509	413	0.2-	0.1+	920906	413	0.7-	0.4-	921209	413	1.0- 0.1+	
920704	413	0.2+	0.5+	920907	413	0.3-	0.7-	921210	413	0.5- 0.0	
920704	413	0.2+	0.6+	920925	801	0.4+	0.4-	921210	413	0.4- 0.0	
920704	413	0.1+	0.7+	920925	801	0.2+	0.7-	921227	801	1.0+ 0.4-	

920729 413 1.3+ 0.6-	920926 410 0.3+ 0.6+	921227 801 0.8+ 0.3-
920729 413 0.2+ 0.4+	920926 410 0.9+ 0.4-	930226 658 0.4+ 0.6+
920730 413 1.7+ 1.0-	920926 410 1.0+ 0.3+	930226 658 0.2+ 0.4+
920802 413 0.8+ 0.6-	920927 670 0.6- 2.0+	930226 658 1.1+ 0.8+
920804 413 0.9+ 0.2-	920927 670 0.7- 0.4+	931123 658 0.1+ 0.1+
920804 413 0.0 0.2-	920927 670 0.7+ 1.2-	931123 658 0.1+ 0.1+
920809 413 0.3- 0.2-	920927 658 0.1- 0.1+	931123 658 0.6+ 0.0
920809 413 0.2- 0.3-	920927 658 0.1- 0.2+	931125 658 0.3- 0.7+
920820 413 0.0 0.1-	920927 658 0.2- 0.1+	931125 658 0.0 0.4+
920820 413 0.1- 0.2-	920930 801 0.5+ 0.6+	931125 658 0.1- 0.4-
920821 413 0.1- 0.1+	920930 801 0.6+ 0.7+	931125 658 0.0 0.5+

1992 JB

Id. R. H. McNaught (1993 observations), D. D. Balam (1993 observations)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	0.67059	(2000.0)	P	Q
<i>n</i>	0.50747403	ω 306.76154	-0.94774717	-0.26843473
<i>a</i>	1.5566591	Ω 218.53154	+0.29865776	-0.93652786
<i>e</i>	0.3599029	<i>i</i> 16.06530	-0.11215544	-0.22551797
<i>P</i>	1.94	<i>H</i> 18.0	<i>G</i> 0.15	

Residuals in seconds of arc

920109 413 1.0- 1.9-	920508 596 0.2+ 0.6+	920529 801 0.1- 0.2-
920109 413 0.1+ 2.0+	920508 589 0.0 0.7+	920529 801 0.2- 0.2-
920325 413 0.9+ 1.5-	920508 596 0.2+ 0.1-	920530 675 0.6+ 0.4-
920325 413 0.3+ 0.7+	920508 589 0.3+ 0.6+	920530 675 0.5+ 1.4-
920426 675 0.0 0.4-	920508 596 1.2+ 1.2+	920602 675 1.8+ 0.7+
920426 675 0.6- 1.0-	920508 596 0.2+ 0.5+	920603 801 0.4+ 0.4-
920501 675 (1.0+ 3.4-)	920509 589 0.5- 0.5+	920603 801 0.1+ 0.2-
920501 675 (0.0 2.8-)	920509 589 0.6- 0.2+	920629 801 0.2- 0.2+
920502 675 (0.6- 2.6-)	920509 589 0.7- 0.3+	920629 801 0.0 0.5+
920502 675 0.6+ 0.8-	920509 589 0.3- 0.5-	920703 801 0.1- 0.2+
920503 675 1.2+ 1.1+	920509 589 1.2- 0.2+	920703 801 0.5- 0.0
920503 413 0.8- 0.1-	920512 657 1.1+ 0.4+	920821 413 0.3- 0.3-
920504 402 0.7- 0.2-	920512 657 0.5- 0.3+	920821 413 0.6+ 0.7-
920504 402 1.4- 1.6+	920512 657 0.1- 0.0	931120 413 0.5+ 0.3-
920504 402 1.1- 0.7-	920523 688 0.0 0.0	931120 413 0.4- 0.8-
920504 413 0.4+ 0.1-	920523 776 0.4- 0.1-	931123 658 0.3- 0.1+
920505 894 (0.5- 3.5-)	920524 413 0.5- 0.2-	931123 658 0.3+ 0.3-
920507 801 0.2+ 1.8-	920524 413 0.5- 0.2-	931123 658 0.1- 0.8+
920507 801 0.2+ 1.5-	920527 675 1.4+ 0.7-	
920508 589 0.1- 1.2+	920527 675 2.1+ 0.2+	

1992 RF₇ = 1990 FF₂Id. A. Lowe (*MPC* 21586), B. G. Marsden (*ibid.*)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Bowell

<i>M</i>	172.37035	(2000.0)	P	Q
<i>n</i>	0.17274599	ω 219.90336	-0.14460742	+0.98770253
<i>a</i>	3.1929888	Ω 41.88056	-0.88360734	-0.10186674
<i>e</i>	0.0790021	<i>i</i> 5.10775	-0.44533893	-0.11860387
<i>P</i>	5.71	<i>H</i> 12.6	<i>G</i> 0.15	

Residuals in seconds of arc

560508 675 0.6- 0.0	920902 809 0.4+ 0.8+	920922 809 0.0 0.8-
560508 675 0.5+ 0.3-	920902 809 0.7- 0.7+	920923 809 0.6+ 0.4-

900317 046 1.6+ 0.3-	920902 809 2.1- 0.4+	920923 809 0.0 1.2-
900317 046 0.7- 0.1-	920903 809 0.4+ 1.3+	920923 809 0.7+ 1.3-
900318 046 1.3- 1.0-	920922 809 0.6+ 0.4-	
900318 046 0.1+ 0.9+	920922 809 0.4+ 0.0	

1992 SA₂₂ = 1978 NC₇

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Ichikawa

<i>M</i>	186.27840	(2000.0)	P	Q
<i>n</i>	0.21782511	ω 244.28115	+0.06907305	+0.99687994
<i>a</i>	2.7356724	Ω 29.75579	-0.88549275	+0.07890223
<i>e</i>	0.0474240	<i>i</i> 4.41446	-0.45949048	-0.00219767
<i>P</i>	4.52	<i>H</i> 13.5	<i>G</i> 0.15	

Residuals in seconds of arc

780710 675 0.7+ 0.8+ Y	920922 809 0.3- 0.4-	920923 809 0.1+ 0.5+
780711 675 0.8- 0.8- Y	920922 809 0.6- 0.9-	920929 691 0.6- 0.3+
780713 675(11.0+ 0.7+)Y	920923 809 0.3+ 0.3+	920929 691 0.2- 0.2-
920922 809 0.3+ 0.1+	920923 809 0.2+ 0.4+	920929 691 0.8+ 0.1-

1992 SB₂₂ = 1977 XL₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Ichikawa

<i>M</i>	174.52055	(2000.0)	P	Q
<i>n</i>	0.18340049	ω 138.15703	-0.13967055	+0.98902806
<i>a</i>	3.0680968	Ω 123.76038	-0.92315709	-0.11248277
<i>e</i>	0.0995777	<i>i</i> 3.31824	-0.35815237	-0.09576602
<i>P</i>	5.37	<i>H</i> 12.7	<i>G</i> 0.15	

Residuals in seconds of arc

771207 675 0.9+ 0.9-	920922 809 0.9- 0.2-	920929 691 1.3+ 0.1-
771208 675 0.6- 1.0+	920923 809 1.3- 0.7-	920929 691 1.6+ 0.6-
920922 809 0.0 1.3+	920923 809 1.1- 0.0	920929 691 2.1+ 0.5-
920922 809 0.4- 1.3+	920923 809 1.2- 0.5-	

1993 OB

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Bardwell

<i>M</i>	16.03789	(2000.0)	P	Q
<i>n</i>	0.26338681	ω 84.25428	+0.92782877	-0.10321447
<i>a</i>	2.4103126	Ω 281.27886	-0.06854571	+0.89740883
<i>e</i>	0.2974027	<i>i</i> 21.43841	+0.36665414	+0.42895706
<i>P</i>	3.74	<i>H</i> 13.0	<i>G</i> 0.15	

From 13 observations 1993 June 21–Nov. 16, mean residual 1''00.

1993 OV

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Bardwell

<i>M</i>	323.91265	(2000.0)	P	Q
<i>n</i>	0.37275336	ω 171.03569	+0.50507408	-0.80518821
<i>a</i>	1.9121487	Ω 248.07200	+0.76964368	+0.58313014
<i>e</i>	0.1180048	<i>i</i> 19.57231	+0.39057493	-0.10784802
<i>P</i>	2.64	<i>H</i> 12.5	<i>G</i> 0.15	

From 9 observations 1993 July 16–Nov. 12, mean residual 0''87.

1993 OZ₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	22.72421	(2000.0)	P Q
<i>n</i>	0.19010935	ω 247.62457	+0.93755721 -0.11380216
<i>a</i>	2.9954845	Ω 117.52512	+0.19075830 +0.95840645
<i>e</i>	0.4341714	<i>i</i> 21.75516	-0.29085692 +0.26173677
<i>P</i>	5.18	<i>H</i> 14.5	<i>G</i> 0.15

From 17 observations 1993 July 23–Oct. 27, mean residual 0^{''}.94.

1993 QN

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	38.93655	(2000.0)	P Q
<i>n</i>	0.23154478	ω 48.13988	+0.92127740 -0.10850094
<i>a</i>	2.6265120	Ω 314.07429	-0.18782101 +0.71675054
<i>e</i>	0.2902558	<i>i</i> 31.32069	+0.34054548 +0.68883685
<i>P</i>	4.26	<i>H</i> 12.5	<i>G</i> 0.15

From 15 observations 1993 Aug. 20–Nov. 23, mean residual 0^{''}.90.

1993 QO

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Bardwell	
<i>M</i>	15.01126	(2000.0)	P Q
<i>n</i>	0.28289154	ω 77.61523	+0.79998693 -0.53665321
<i>a</i>	2.2982084	Ω 314.08642	+0.29181849 +0.73879956
<i>e</i>	0.2856929	<i>i</i> 21.93951	+0.52427367 +0.40765002
<i>P</i>	3.48	<i>H</i> 13.0	<i>G</i> 0.15

From 14 observations 1993 Aug. 20–Nov. 10, mean residual 0^{''}.61.

1993 QS

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Bardwell	
<i>M</i>	40.04505	(2000.0)	P Q
<i>n</i>	0.25732377	ω 176.29975	+0.94271656 +0.32764263
<i>a</i>	2.4480265	Ω 164.13244	-0.31165590 +0.93207774
<i>e</i>	0.2530262	<i>i</i> 13.26490	-0.11897937 +0.15453607
<i>P</i>	3.83	<i>H</i> 13.0	<i>G</i> 0.15

From 10 observations 1993 Aug. 19–Nov. 11, mean residual 0^{''}.70.

1993 QZ

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Bardwell	
<i>M</i>	36.73610	(2000.0)	P Q
<i>n</i>	0.27024696	ω 182.91532	+0.97362521 +0.20427651
<i>a</i>	2.3693479	Ω 164.14908	-0.20107919 +0.97872155
<i>e</i>	0.1582117	<i>i</i> 21.84037	-0.10780127 +0.01937108
<i>P</i>	3.65	<i>H</i> 13.0	<i>G</i> 0.15

From 13 observations 1993 Aug. 20–Nov. 17, mean residual 0^{''}.69.

1993 RR

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	22.88574	(2000.0)	P Q
<i>n</i>	0.23969603	ω 36.82556	+0.75521836 -0.65540484
<i>a</i>	2.5666235	Ω 4.16249	+0.56597456 +0.64474294
<i>e</i>	0.3491054	<i>i</i> 7.49836	+0.33063277 +0.39338407
<i>P</i>	4.11	<i>H</i> 16.0	<i>G</i> 0.15

From 45 observations 1993 Sept. 16–Nov. 20, mean residual 0^{''}.64.

1993 RR₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	48.18023	(2000.0)	P Q
<i>n</i>	0.22715236	ω 161.91987	+0.73354129 +0.67453133
<i>a</i>	2.6602629	Ω 155.04781	-0.64537827 +0.72970335
<i>e</i>	0.4896683	<i>i</i> 11.37651	-0.21308228 +0.11198442
<i>P</i>	4.34	<i>H</i> 15.0	<i>G</i> 0.15

From 23 observations 1993 Sept. 10–Oct. 27, mean residual 0^{''}.75.

1993 SV₁ = 1979 WH₇ = 1988 RU₁₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Nakano	
<i>M</i>	86.22156	(2000.0)	P Q
<i>n</i>	0.20652628	ω 210.97596	+0.62393415 +0.77940007
<i>a</i>	2.8345612	Ω 97.68984	-0.70471548 +0.59264158
<i>e</i>	0.0468254	<i>i</i> 3.29361	-0.33776067 +0.20325229
<i>P</i>	4.77	<i>H</i> 11.8	<i>G</i> 0.15

Residuals in seconds of arc

791117 095	0.5+ 1.3-	930916 400	1.2- 0.4+	931011 400	0.8- 0.3+
880915 095	1.7- 3.0-	930918 400	0.1- 2.2+	931015 400	0.5- 0.8-
880915 095	2.6+ 0.8+	930918 400	0.8+ 0.2+	931015 400	1.9+ 1.2+
930916 400	0.9- 1.0-	931011 400	0.6- 0.5+		

1993 SS₂ = 1954 WX = 1963 KB = 1963 LA = 1970 TB = 1983 RS₅ = 1984 YU₆

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Williams	
<i>M</i>	119.75988	(2000.0)	P Q
<i>n</i>	0.30150254	ω 168.87162	+0.09743356 +0.99077072
<i>a</i>	2.2026326	Ω 106.66816	-0.92050262 +0.12571112
<i>e</i>	0.1556063	<i>i</i> 5.64517	-0.37839347 -0.05069615
<i>P</i>	3.27	<i>H</i> 13.0	<i>G</i> 0.15

Residuals in seconds of arc

541116 210	(67.1+ 14.1+)X	830903 808	0.8+ 0.2-	930924 413	0.3+ 0.1-
630519 760	(26.8- 16.5-)X	830909 808	0.1+ 1.2+	930924 413	0.6- 0.0
630615 760	0.3- 0.0	830909 808	0.1- 0.6+	930925 413	0.5+ 0.4-
701001 095	0.0 0.1-	841220 010	0.5+ 0.8+	930925 413	0.4- 0.0
830902 095	0.3- 0.2+	930923 413	0.4+ 0.7-	931009 413	0.3- 0.2-
830903 808	(6.0- 3.9-)	930923 413	0.3- 0.3-		

1993 SM₃ = 1987 QW₅

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5		Nakano	
<i>M</i>	17.99300	(2000.0)	P Q
<i>n</i>	0.17809651	ω 248.34381	+0.88855689 -0.45829321
<i>a</i>	3.1287133	Ω 138.92536	+0.43176249 +0.82004263
<i>e</i>	0.1895730	<i>i</i> 1.81693	+0.15507353 +0.34277896
<i>P</i>	5.53	<i>H</i> 12.7	<i>G</i> 0.15

Residuals in seconds of arc

870828 809	0.1+ 0.8+	870829 809	0.1+ 1.3-	931109 372	0.3+ 0.5-
870828 809	0.3- 0.9+	930922 303	1.6- 1.1-	931109 372	(3.3- 0.4+)
870828 809	0.5- 1.1+	930922 303	0.5- 0.0	931113 372	(3.5+ 0.7+)
870829 809	0.4+ 0.9-	930922 303	0.3+ 0.6-	931113 372	0.4- 0.8+
870829 809	0.3+ 0.5-	930923 303	1.9+ 1.4+		

1993 SR₃ = 1935 SE₂ = 1985 YG = 1989 UE₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	49.99602	(2000.0)	P	Q	
<i>n</i>	0.23796002	ω 160.13380	+0.98120248	+0.18803258	
<i>a</i>	2.5790913	Ω 189.35222	-0.19235152	+0.97108314	
<i>e</i>	0.2055737	<i>i</i> 15.49807	+0.01557539	+0.14710979	
<i>P</i>	4.14	<i>H</i> 12.5	<i>G</i> 0.15		

Residuals in seconds of arc

350928 078	0.3-	3.1+	891026 675	0.2-	0.4+	931013 675	0.0	0.5-
851217 688	1.9-	1.1-	891028 675	1.1+	1.3+	931013 675	0.3+	0.5-
851217 688	1.5+	0.7-	930918 675	0.1+	1.2-	931015 675	0.1-	0.7-
891026 675	0.5-	1.2+	930922 675	0.1-	1.8-			

1993 TA = 1985 FF

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Marsden			
<i>M</i>	5.99044	(2000.0)	P	Q	
<i>n</i>	0.21488807	ω 271.62356	+0.30245298	-0.93621422	
<i>a</i>	2.7605430	Ω 158.01304	+0.94676144	+0.31680416	
<i>e</i>	0.4200803	<i>i</i> 28.55392	-0.11029495	+0.15211200	
<i>P</i>	4.59	<i>H</i> 13.0	<i>G</i> 0.15		

Residuals in seconds of arc

850317 511	0.6+	1.8+	931008 413	1.2+	0.6-	931027 413	1.4-	0.2-
850323 511	1.7-	2.1-	931008 413	1.2+	0.8+	931027 413	1.1-	0.2-
850324 511	1.2+	0.0	931009 413	0.5+	0.8+	931027 413	1.1-	0.3-
880804 413	1.2-	1.0-	931023 413	1.6+	0.1-			
880804 413	1.0+	0.7+	931027 413	1.3-	0.3-			

1993 TN = 1975 VT₉ = 1989 NN

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Ichikawa			
<i>M</i>	63.56909	(2000.0)	P	Q	
<i>n</i>	0.27294773	ω 253.17299	+0.94885597	+0.30944712	
<i>a</i>	2.3536925	Ω 88.76691	-0.26056743	+0.87949704	
<i>e</i>	0.1275254	<i>i</i> 3.58809	-0.17826093	+0.36156249	
<i>P</i>	3.61	<i>H</i> 13.6	<i>G</i> 0.15		

Residuals in seconds of arc

751109 381	0.2-	1.0+	890704 675	0.5-	1.0-	931011 400	1.1-	1.0-
751109 381	0.6-	1.0+	890704 675	1.4+	0.4+	931011 400	2.0+	0.1-
890702 675	0.3-	0.8+	931008 400	0.7+	0.4+	931019 400	(3.4+	0.1+)
890702 675	0.8-	0.4+	931008 400	(3.1-	0.9-)	931019 400	0.8-	1.1-

1993 TQ = 1971 WC = 1977 AL₂ = 1980 WV

Id. S. Nakano; see also MPC 22811

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	44.60431	(2000.0)	P	Q	
<i>n</i>	0.22324211	ω 292.53272	+0.99065317	+0.00709033	
<i>a</i>	2.6912371	Ω 67.28310	+0.05489688	+0.89347791	
<i>e</i>	0.2067760	<i>i</i> 8.49231	-0.12487042	+0.44905116	
<i>P</i>	4.41	<i>H</i> 13.1	<i>G</i> 0.15		

Residuals in seconds of arc

711119 029	0.1+	0.1-	931009 868	0.1+	0.4+	931016 868	1.6+	0.5+
770113 095	0.1-	0.6-	931009 868	0.7-	0.2+	931016 868	0.4-	0.5-
770120 095	0.1+	0.0	931010 868	(4.6-	2.6-)	931022 868	0.0	0.5+
801130 095	0.4-	0.8+	931010 868	0.1-	2.1-	931022 868	0.2-	0.6+

1993 TJ₁ = 1955 QT₁ = 1986 SD₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	69.27001	(2000.0)	P	Q	
<i>n</i>	0.28742888	ω 316.70324	+0.93859009	+0.34252238	
<i>a</i>	2.2739581	Ω 23.36302	-0.28103223	+0.82879847	
<i>e</i>	0.1923246	<i>i</i> 6.01549	-0.20017374	+0.44246075	
<i>P</i>	3.43	<i>H</i> 13.7	<i>G</i> 0.15		

Residuals in seconds of arc

550825 839	0.0	0.0	931016 400	1.5-	0.5+	931020 399	0.2+	0.1+
860929 095	0.9+	1.1+	931016 400	1.3+	0.1+	931110 400	0.7-	0.2-
861002 095	1.0-	1.1-	931019 403	0.3-	1.6-	931110 400	0.3-	0.3+
931015 400	0.7+	0.8+	931019 403	1.6+	1.6-			
931015 400	0.5-	0.2-	931020 399	0.5-	1.6+			

1993 TN₁ = 1974 TO₁ = 1974 VX₂ = 1977 QQ₁ = 1990 WM₁₂

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

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	59.04979	(2000.0)	P	Q	
<i>n</i>	0.31113203	ω 237.96797	+0.99561541	+0.08106243	
<i>a</i>	2.1569474	Ω 117.34498	-0.05774343	+0.92519199	
<i>e</i>	0.2067400	<i>i</i> 3.01229	-0.07359117	+0.37074070	
<i>P</i>	3.17	<i>H</i> 14.3	<i>G</i> 0.15		

Residuals in seconds of arc

741012 808	0.0	0.4+	901123 889	0.1+	1.3+	Y 931016 400	0.5+	1.1-
741012 808	0.4+	0.4+	901123 889	0.1-	0.4-	Y 931020 400	0.4+	0.1-
741109 808	0.2-	0.8-	931015 400	0.6-	0.7+	931111 400	0.8-	0.7+
741109 808	0.0	0.7-	931015 400	0.8+	0.3-	931111 400	0.6+	1.5-
770819 095	0.1-	0.1+	931016 400	0.9-	1.6+			

1993 TX₁ = 1978 TR₄ = 1992 KR

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	185.36821	(2000.0)	P	Q	
<i>n</i>	0.26555176	ω 42.08160	-0.56587068	+0.82226569	
<i>a</i>	2.3971945	Ω 193.81854	-0.80782069	-0.56762976	
<i>e</i>	0.1154877	<i>i</i> 14.69179	-0.16497306	-0.04093386	
<i>P</i>	3.71	<i>H</i> 12.4	<i>G</i> 0.15		

Residuals in seconds of arc

781007 095	0.0	0.2+	931015 400	1.7-	0.2-	931020 400	(1.3-	4.6-)
920531 675	0.6+	1.2+	931015 400	(4.3-	3.4-)	931111 400	0.3+	0.4-
920531 675	0.1+	0.5+	931016 400	0.3-	1.4-	931111 400	0.2+	0.8+
920602 675	0.3-	0.4-	931016 400	0.1-	0.5+			
920602 675	0.4-	1.3-	931020 400	1.6+	0.6+			

1993 TF₂ = 1978 EA₅ = 1986 PS₃ = 1989 AA₁ = 1990 HS₄ = 1990 HX₄

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	296.55128	(2000.0)	P	Q	
<i>n</i>	0.17078586	ω 57.07930	-0.72773973	-0.68470248	
<i>a</i>	3.2173732	Ω 79.67421	+0.61500984	-0.67710605	
<i>e</i>	0.1568380	<i>i</i> 2.31367	+0.30357501	-0.26964775	
<i>P</i>	5.77	<i>H</i> 11.5	<i>G</i> 0.15		

Residuals in seconds of arc

780306 095	1.6+	2.8+	890106 399	1.4-	0.6-	900422 675	0.9-	0.5-
860801 675	3.3-	1.1-	890112 897	1.4-	0.0	931015 400	1.7+	0.1-
860801 675	2.0+	2.7+	890112 897	1.4-	0.8+	931015 400	1.3+	0.2+

890104 399	0.2-	0.2+	890113 399	1.9+	0.8-	931016 400	0.0	2.8+
890104 399	0.6+	0.9-	890113 399	0.8+	0.8+	931016 400	1.4-	1.2-
890105 897	1.2-	1.1+	890113 399	1.2-	1.8+	931020 400	0.4-	0.9+
890105 897	0.1+	0.0	900417 095	1.0-	1.0-	931020 400	0.3+	1.3-
890106 399	2.8+	1.2-	900417 095	0.2-	1.6-	931111 400	0.1+	0.3-
890106 399	0.4-	1.5-	900422 675	1.0+	0.2-	931111 400	0.1+	2.2-

1993 TL₂ = 1975 TZ₄ = 1977 EO₃ = 1977 FB₁ = 1989 TW₁₃

Id. S. Nakano, H. Oishi (d, JAM 1263)

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	247.29323	(2000.0)	P	Q	
<i>n</i>	0.27228967	ω 165.61824	-0.99907859	-0.03430413	
<i>a</i>	2.3574832	Ω 12.50152	+0.01674639	-0.86489858	
<i>e</i>	0.0473848	<i>i</i> 6.84289	+0.03951609	-0.50077307	
<i>P</i>	3.62	<i>H</i> 13.5	<i>G</i> 0.15		

Residuals in seconds of arc

751014 095	0.9-	2.3+	891002 809	0.1-	1.0+	931015 400	0.4-	0.3-
770315 381	0.8+	1.7+	891002 809	0.0	1.0+	931016 400	1.2+	0.4-
770315 381	0.2+	2.2+	891002 809	0.4-	0.2-	931016 400	1.4+	0.1+
770325 095	0.7+	1.8-	891003 809	0.4-	0.5-	931020 399	0.7-	0.4-
770326 095	1.1-	1.1-	891003 809	0.3+	0.7-	931020 399	0.7-	1.4-
891002 809	0.3-	0.9+	931015 400	0.5+	0.1+			

1993 TC₃ = 1980 WW₄ = 1983 RY₇

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Ichikawa			
<i>M</i>	53.25819	(2000.0)	P	Q	
<i>n</i>	0.29971222	ω 193.38176	+0.99993844	+0.00505062	
<i>a</i>	2.2113955	Ω 166.31736	-0.00115303	+0.93287548	
<i>e</i>	0.2075058	<i>i</i> 2.39376	-0.01103575	+0.36016362	
<i>P</i>	3.29	<i>H</i> 14.6	<i>G</i> 0.15		

Residuals in seconds of arc

801129 675	0.2+	0.2-	931011 400	1.3+	0.9+	931015 400	1.5-	0.1-
801201 675	0.1-	0.4-	931011 400	2.3+	1.1+	931019 400	1.1-	1.4+
830911 095	0.2+	0.5-	931015 400	1.6-	2.5-	931019 400	0.4+	0.1+

1993 TJ₃ = 1973 YS₂ = 1976 SK₅ = 1986 QR₄ = 1986 RP₁₇ = 1986 SQ₂ = 1988 ET

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

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams			
<i>M</i>	3.52211	(2000.0)	P	Q	
<i>n</i>	0.29058011	ω 37.29097	+0.34906333	-0.93602710	
<i>a</i>	2.2574880	Ω 32.34861	+0.83832709	+0.29054511	
<i>e</i>	0.1114262	<i>i</i> 4.80407	+0.41876303	+0.19858702	
<i>P</i>	3.39	<i>H</i> 13.0	<i>G</i> 0.15		

Residuals in seconds of arc

731220 095	1.9+	0.2+	880313 054	0.6+	0.4+	931016 400	(3.1+ 0.2-)
760924 095	2.3-	2.1-	880313 054	0.0	0.1-	931016 400	1.7+ 0.5+
860817 095	(12.1- 3.3+)		880314 054	1.8-	0.1-	931107 399	1.6- 0.1-
860909 095	0.1+	1.0+	931015 400	1.0+	0.3+	931107 399	1.7- 1.3-
860929 095	1.8+	0.8+	931015 400	0.3+	0.3+		

1993 TE₅ = 1980 TV₁₃ = 1983 RA₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	83.45311	(2000.0)	P	Q	
<i>n</i>	0.30232257	ω 46.24793	+0.83918426	+0.54147189	
<i>a</i>	2.1986478	Ω 280.90625	-0.51264905	+0.75642282	
<i>e</i>	0.2267587	<i>i</i> 2.96395	-0.18155088	+0.36692330	
<i>P</i>	3.26	<i>H</i> 13.9	<i>G</i> 0.15		

Residuals in seconds of arc

801012 095	0.2+	1.1-	931009 691	0.4+	0.5-	931016 691	0.4-	0.1+
830903 071	1.3-	0.7-	931012 691	0.1+	0.0	931016 691	0.1-	0.1+
830903 071	1.4+	0.5+	931012 691	0.4+	0.1+	931104 894	0.2+	0.8+
931008 691	0.2-	0.1+	931012 691	0.3-	1.0+	931104 894	0.6+	0.7-
931008 691	0.4-	0.1+	931013 691	0.0	0.1+	931105 894	0.6-	0.7-
931008 691	0.2-	0.1+	931013 691	0.2-	0.1+	931105 894	0.1+	0.1+
931009 691	0.2+	0.1+	931013 691	(2.6- 1.4-)				
931009 691	0.4+	0.1+	931016 691	0.2-	0.3+			

1993 US = 1979 OB₇

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Ichikawa			
<i>M</i>	11.21595	(2000.0)	P	Q	
<i>n</i>	0.22192714	ω 239.06617	+0.73385376	-0.67925769	
<i>a</i>	2.7018575	Ω 163.71465	+0.63283226	+0.67919518	
<i>e</i>	0.1173765	<i>i</i> 1.68074	+0.24694531	+0.27803399	
<i>P</i>	4.44	<i>H</i> 14.1	<i>G</i> 0.15		

Residuals in seconds of arc

790724 675	(3.0+ 7.0+)	931023 385	0.4-	0.4-	931104 385	0.1-	0.1-	
790724 413	0.9-	0.6+	931023 385	1.1+	0.1-	931104 385	0.3+	0.0
790725 675	0.8+	0.6-	931023 385	0.4-	0.7+	931104 385	0.0	0.3-
931022 385	1.6+	0.3+	931024 385	1.7-	0.2-	931105 385	0.9-	0.3+
931022 385	1.5+	0.5+	931024 385	1.2-	0.4-	931105 385	0.6+	0.3-
931022 385	0.8+	0.4-	931024 385	1.7-	0.2-	931105 385	0.6+	0.4+

1993 UX = 1976 GW₈ = 1977 RB₁₄

Id. T. Kobayashi

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano			
<i>M</i>	220.66509	(2000.0)	P	Q	
<i>n</i>	0.31563534	ω 200.78273	-0.71896941	+0.69492796	
<i>a</i>	2.1363823	Ω 23.25367	-0.63310865	-0.64733163	
<i>e</i>	0.0688305	<i>i</i> 1.82518	-0.28680381	-0.31310844	
<i>P</i>	3.12	<i>H</i> 12.9	<i>G</i> 0.15		

Residuals in seconds of arc

760401 095	0.6+	0.1+	931024 411	1.1+	0.7+	931026 411	0.2+	1.2+
760402 095	(7.0- 0.5-)		931025 411	1.0-	0.7-	931111 399	(4.3- 0.2+)	
760404 095	0.5-	0.2+	931025 411	0.0	0.5+	931111 399	2.3-	0.4-
770909 675	1.4-	0.7-	931025 411	0.0	1.6+	931114 411	0.0	0.2-
770910 675	1.3+	1.0+	931026 411	0.4+	2.3-	931114 411	0.1-	0.2-
931024 411	0.2+	0.6-	931026 411	1.5+	0.4+	931114 411	0.2+	0.1+

1993 UB₁ = 1954 UP₁ = 1961 UF = 1988 EW₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	53.65262	(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.27815001	ω	356.22345	+0.99569174	-0.07163995
<i>a</i>	2.3242526	Ω	8.57904	+0.09200220	+0.68414870
<i>e</i>	0.1556312	<i>i</i>	23.24359	+0.01155682	+0.72581559
<i>P</i>	3.54	<i>H</i>	13.0	<i>G</i>	0.15

Residuals in seconds of arc

541024	760	0.0	0.5+	880314	054	0.9+	0.9+	931021	675	0.1-	1.1+
611017	760	0.3+	0.7+	880318	054	0.1-	0.1-	931109	675	0.8+	0.3-
611017	760	0.8+	2.3-	931019	675	0.5+	1.2+	931109	675	0.3+	1.3-
880313	054	0.0	0.7-	931019	675	0.6-	0.3+	931110	675	0.2+	0.6-
880313	054	1.2-	0.4-	931021	675	1.6-	0.4+				

1993 UC₁ = 1962 RC = 1976 EJ = 1986 XW₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	65.98028	(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.25556495	ω	79.97154	+0.92552517	+0.31339443
<i>a</i>	2.4592453	Ω	261.52153	-0.37229833	+0.85569807
<i>e</i>	0.1758635	<i>i</i>	12.41091	+0.06926118	+0.41178239
<i>P</i>	3.86	<i>H</i>	12.0	<i>G</i>	0.15

Residuals in seconds of arc

620906	760	(85.5+ 18.7+)X	861201	010	0.1+	1.4+	931021	675	0.7-	0.9-	
760307	808	0.0	0.3-	861201	010	1.4+	1.0-	931021	675	0.4+	0.8+
760307	808	0.0	0.3+	931019	675	0.6-	0.1+	931109	675	1.6+	1.0+
861201	010	1.5-	0.4-	931019	675	0.2-	0.1-	931109	675	0.5-	0.8-

1993 UA₃ = 1933 SK = 1980 RS₃ = 1984 ND = 1989 UV₆

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	48.75955	(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.22951905	ω	123.60587	+0.84499349	+0.52689425
<i>a</i>	2.6419437	Ω	204.97177	-0.53365196	+0.81969988
<i>e</i>	0.1855591	<i>i</i>	12.51453	-0.03466382	+0.22466543
<i>P</i>	4.29	<i>H</i>	12.0	<i>G</i>	0.15

Residuals in seconds of arc

330918	012	0.4+	0.1-	891023	364	0.7-	1.1-	931109	675	0.5-	0.6-
800906	095	(5.9- 3.1+)		891023	364	0.1-	0.9-	931109	675	0.0	0.9+
800911	095	2.1-	1.3+	931016	675	0.4-	0.8+	931110	675	0.2+	1.3-
840702	095	0.5+	1.9-	931016	675	0.8+	0.1+	931110	675	0.5+	0.9+
891021	364	0.2+	1.0-	931019	675	2.0+	0.1+				
891021	364	0.0	0.9+	931019	675	0.7-	0.1+				

1993 UB₃ = 1975 VM = 1979 XV₁ = 1986 TC₁₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Williams

<i>M</i>	349.18548	(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.27148163	ω	171.29028	+0.62053365	-0.77955886
<i>a</i>	2.3621588	Ω	240.30847	+0.71344828	+0.60622686
<i>e</i>	0.0866460	<i>i</i>	5.61558	+0.32546820	+0.15740707
<i>P</i>	3.63	<i>H</i>	13.0	<i>G</i>	0.15

Residuals in seconds of arc

751101	095	(6.5- 3.8+)	861011	095	(4.6+ 0.9+)	931109	675	0.3-	1.1-		
791214	095	0.3+	1.1-	931016	675	0.7-	1.4+	931109	675	0.6+	0.8+
791218	095	0.1-	2.7+	931016	675	1.0-	0.7+	931110	675	0.1-	1.6-

861003	095	0.3+	2.4-	931019	675	0.0	1.7+	931110	675	1.9+	0.3+
861007	095	0.0	0.7-	931019	675	0.9-	0.4+				

1993 UM₃ = 1980 FV₉ = 1987 OX = 1987 PN = 1988 VL₇ = 1991 GF₁

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Nakano

<i>M</i>	146.58239	(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.18878550	ω	62.52442	-0.13348507	+0.98949373
<i>a</i>	3.0094719	Ω	200.03686	-0.95684891	-0.14326966
<i>e</i>	0.0549007	<i>i</i>	9.32770	-0.25811218	+0.01938993
<i>P</i>	5.22	<i>H</i>	11.7	<i>G</i>	0.15

Residuals in seconds of arc

800316	095	0.3+	0.3-	881106	033	0.1+	0.4+	931020	399	0.3+	1.4-
870727	511	0.4-	1.2+	910414	400	2.2+	1.9+	931107	399	0.0	1.2+
870801	511	(7.4- 3.0-)		910414	400	2.5-	1.9+	931107	399	0.3-	2.0+
881103	033	0.1+	0.7+	910418	400	(3.0+ 4.6+)		931109	399	0.3+	1.5+
881103	033	0.7-	0.4+	910418	400	1.3+	2.5+	931109	399	1.7-	0.9+
881105	033	0.5-	0.5+	931020	399	1.2+	0.0				

1993 UN₃ = 1962 WD = 1975 GT = 1987 QM₁₁ = 1988 XW₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Ichikawa

<i>M</i>	347.61904	(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.18929055	ω	219.28105	+0.25620832	-0.96087837
<i>a</i>	3.0041165	Ω	216.22777	+0.92564320	+0.27524574
<i>e</i>	0.1008423	<i>i</i>	10.25496	+0.27846359	-0.03086334
<i>P</i>	5.21	<i>H</i>	11.7	<i>G</i>	0.15

Residuals in seconds of arc

621123	760	0.4-	1.5+	881207	054	0.1-	2.3+	931020	399	1.4+	1.3-
621123	760	(0.4+ 3.2+)		881207	054	1.1+	0.2+	931107	399	0.8+	0.5-
750415	805	0.5-	0.4-	881212	054	0.6+	0.5+	931107	399	1.2-	0.6-
750420	805	0.6+	2.0+	881212	054	0.2+	0.1-	931109	399	1.5-	0.4+
870831	095	0.1-	2.4+	931020	399	0.9+	1.0-	931109	399	1.9-	0.3-

1993 VM = 1952 QM = 1985 FP = 1986 TW₄ = 1989 ON₁ = 1992 KK

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5 Ichikawa

<i>M</i>	171.33047	(2000.0)		<i>P</i>	<i>Q</i>
<i>n</i>	0.29267750	ω	78.70465	-0.11208016	+0.99368308
<i>a</i>	2.2466900	Ω	184.87077	-0.93570747	-0.10745304
<i>e</i>	0.1165767	<i>i</i>	3.81850	-0.33449899	-0.03236946
<i>P</i>	3.37	<i>H</i>	13.5	<i>G</i>	0.15

Residuals in seconds of arc

520828	024	0.8-	2.9+	861001	010	(5.3+ 5.4-)	931107	399	1.2+	0.1-	
850324	688	(3.7+ 0.4-)		890731	675	0.8+	1.9-	931107	399	1.3+	0.9+
850324	688	2.2+	0.6+	890801	675	0.1-	2.6-	931109	399	0.6-	0.6+
850324	046	1.0-	1.6-	920528	894	0.1+	1.3+	931109	399	0.2-	0.3-
850325	046	1.7-	0.5+	920528	894	0.2+	1.0+	931111	399	0.5-	1.0+
861001	010	(0.2+ 5.5-)		920602	894	0.4+	0.8+	931111	399	1.4-	1.2+
861001	010	(5.1- 6.1-)		920602	894	0.3+	0.9+				

1993 VN = 1978 UQ = 1992 GB₄

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano		P		Q	
<i>M</i>	78.11706	(2000.0)					
<i>n</i>	0.26502265	ω	161.60370	+0.91883233	+0.39463602		
<i>a</i>	2.4003840	Ω	175.14968	-0.36652061	+0.85622508		
<i>e</i>	0.2317076	<i>i</i>	2.09681	-0.14632088	+0.33337820		
<i>P</i>	3.72	<i>H</i>	13.8	<i>G</i>	0.15		

Residuals in seconds of arc

781028 688	0.0	0.0	Y	920406 809	0.2+	0.1-	931109 399	0.8+	0.1-
920404 809	0.6+	0.5+		920406 809	0.1-	0.6-	931111 399	1.6-	0.2-
920404 809	0.7+	0.5-		931107 399	0.2+	0.2+	931111 399	0.0	0.1+
920404 809	0.7-	0.5+		931107 399	0.6+	1.2-			
920406 809	0.7-	0.1+		931109 399	0.0	1.1+			

1993 VM₁ = 1990 QC

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		P		Q	
<i>M</i>	21.50250	(2000.0)					
<i>n</i>	0.37339949	ω	264.85887	+0.23691025	-0.96943820		
<i>a</i>	1.9099422	Ω	170.66878	+0.97151563	+0.23677134		
<i>e</i>	0.1398410	<i>i</i>	23.14932	-0.00555922	+0.06425656		
<i>P</i>	2.64	<i>H</i>	14.0	<i>G</i>	0.15		

Residuals in seconds of arc

900816 675	0.2-	0.2+		900819 675	0.0	0.3-	931114 413	0.1-	0.6-
900816 675	0.1-	0.6+		931105 413	(2.1-	9.3-)	931120 413	0.1+	0.0
900819 675	0.2+	0.5-		931105 413	0.1+	0.5+	931120 413	0.1-	0.1+

2020 P-L = 1993 UJ₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		P		Q	
<i>M</i>	30.46519	(2000.0)					
<i>n</i>	0.24038724	ω	60.74500	+0.72178748	-0.69162097		
<i>a</i>	2.5617011	Ω	342.96827	+0.60000081	+0.64410376		
<i>e</i>	0.2409906	<i>i</i>	5.12007	+0.34499546	+0.32678860		
<i>P</i>	4.10	<i>H</i>	13.5	<i>G</i>	0.15		

Residuals in seconds of arc

600924 675	0.4-	0.8+		601017 675	0.1+	0.7+	931019 675	0.6-	0.2-
600926 675	0.1+	0.9-		601022 675	0.2-	0.3+	931019 675	1.0+	0.2+
600928 675	0.0	0.5-		601025 675	0.1-	0.7-	931020 675	0.4-	0.1-
600929 675	0.3+	0.2+		601026 675	0.1+	0.0			

3081 P-L = 1955 UX₁ = 1992 TT₁

Id. E. Bowell, G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		P		Q	
<i>M</i>	103.74698	(2000.0)					
<i>n</i>	0.18559251	ω	133.42644	+0.99112256	-0.02694097		
<i>a</i>	3.0438909	Ω	228.56621	-0.01156549	+0.95807050		
<i>e</i>	0.1527665	<i>i</i>	10.00042	+0.13244735	+0.28526321		
<i>P</i>	5.31	<i>H</i>	12.5	<i>G</i>	0.15		

Residuals in seconds of arc

551025 675	0.6-	0.0		600926 675	0.7+	0.1-	601022 675	0.4-	0.1+
551025 675	0.6+	0.1+		600927 675	0.5-	0.2-	921002 675	0.0	0.4-
600924 675	0.2+	0.2+		600928 675	1.0-	0.5-	921002 675	0.2+	0.5-
600925 675	0.6+	0.3-		600928 675	0.5+	0.4+			
600925 675	0.5+	0.4+		600929 675	0.8-	0.6+			

4014 P-L = 1988 DZ = 1993 TH₁₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		P		Q	
<i>M</i>	17.04294	(2000.0)					
<i>n</i>	0.29953238	ω	67.81022	+0.60987667	-0.79201251		
<i>a</i>	2.2122805	Ω	344.51278	+0.68355425	+0.54339608		
<i>e</i>	0.1421257	<i>i</i>	5.95176	+0.40100378	+0.27827482		
<i>P</i>	3.29	<i>H</i>	14.5	<i>G</i>	0.15		

Residuals in seconds of arc

600924 675	0.3+	1.1+		601017 675	0.2+	0.3+	931014 675	0.4-	0.2-
600925 675	1.1-	0.1+		601022 675	0.1+	0.2-	931014 675	0.0	0.1-
600926 675	0.3-	0.5+		601024 675	0.8+	0.1-	931015 675	1.0+	1.1-
600928 675	0.3-	0.0		880217 809	0.0	0.1+			
600928 675	0.7-	0.3+		880217 809	0.5+	0.9+			

4524 P-L = 1953 RX₁ = 1983 HU = 1991 RM₃₂

Id. E. Bowell, G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		P		Q	
<i>M</i>	243.51772	(2000.0)					
<i>n</i>	0.28692185	ω	155.00405	+0.92152994	-0.38824373		
<i>a</i>	2.2766362	Ω	227.84309	+0.35465297	+0.84889202		
<i>e</i>	0.0855741	<i>i</i>	0.54305	+0.15812602	+0.35867694		
<i>P</i>	3.44	<i>H</i>	14.0	<i>G</i>	0.15		

Residuals in seconds of arc

530906 675	0.8+	0.3-		600928 675	0.1+	0.8+	601026 675	1.3-	1.1-
530906 675	0.6-	0.9-		600928 675	0.1+	0.4+	830416 046	0.4+	1.2+
600924 675	1.0+	0.9+		601017 675	0.1+	0.7+	830416 046	(2.5+	3.2+)
600926 675	0.9+	0.7+		601022 675	1.3-	0.5+	910911 402	1.1+	1.5-
600927 675	0.9+	1.6+		601024 675	2.3-	0.4-	910911 402	0.3-	1.1-

4604 P-L = 1953 SQ = 1991 RL₄₁

Id. E. Bowell, G. V. Williams

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Williams		P		Q	
<i>M</i>	279.97473	(2000.0)					
<i>n</i>	0.28641044	ω	305.07418	+0.89057564	+0.45443755		
<i>a</i>	2.2793454	Ω	27.91135	-0.40296348	+0.80770801		
<i>e</i>	0.1138903	<i>i</i>	2.32798	-0.21093948	+0.37562518		
<i>P</i>	3.44	<i>H</i>	15.5	<i>G</i>	0.15		

Residuals in seconds of arc

530917 675	0.9-	0.3-		601017 675	0.1+	0.5-	910909 691	0.2-	0.4+
530917 675	1.0+	0.1+		601022 675	0.9+	1.1-	911007 691	0.4-	1.1+
600924 675	0.2+	0.7-		601025 675	0.6+	0.9-	911007 691	0.3-	0.8+
600926 675	0.2-	0.1-		601026 675	0.8+	0.5+	911007 691	0.3-	0.9+
600927 675	0.5+	0.7-		910909 691	0.4-	0.5+			
600928 675	0.7-	0.5-		910909 691	0.2-	0.6+			

6038 P-L = 1952 UF₁ = 1993 UL₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

		Nakano		P		Q	
<i>M</i>	14.65189	(2000.0)					
<i>n</i>	0.24035343	ω	58.25994	+0.54910028	-0.83574978		
<i>a</i>	2.5619413	Ω	358.42286	+0.71980981	+0.47495148		
<i>e</i>	0.2102292	<i>i</i>	6.97826	+0.42469132	+0.27557827		
<i>P</i>	4.10	<i>H</i>	13.4	<i>G</i>	0.15		

Residuals in seconds of arc

521024 760(43.0+ 86.9-)X	601017 675 0.1- 0.6+	931020 399 1.0- 0.0
600924 675 0.6- 0.2-	601022 675 0.2+ 0.1-	931107 399 0.3+ 0.0
600925 675 0.6+ 0.1-	601024 675 0.1+ 0.3-	931107 399 0.7+ 0.3+
600926 675 0.0 0.7-	601026 675 0.1- 0.1-	931109 399 0.1+ 0.9-
600928 675 0.1- 0.9+	931020 399 0.7+ 0.0	931109 399 0.7- 0.6+

7081 P-L = 1993 TH₉

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>	342.43811	(2000.0)	P	Q
<i>n</i>	0.29973560	ω 105.56970	-0.07926074	-0.99671554
<i>a</i>	2.2112805	Ω 348.93650	+0.87822602	-0.06193597
<i>e</i>	0.1145197	<i>i</i> 4.96526	+0.47163206	-0.05217335
<i>P</i>	3.29	<i>H</i> 16.0	<i>G</i> 0.15	

Williams

Residuals in seconds of arc

600924 675 0.2+ 0.3-	600928 675 0.5- 0.6+	931012 691 0.4- 0.1-
600925 675 1.2+ 0.1+	601017 675 1.8- 0.3-	931020 691 0.0 0.1+
600925 675 1.8+ 0.3+	601022 675 0.9+ 0.8+	931020 691 0.3+ 0.1+
600926 675 1.6- 0.3-	601026 675 0.5+ 0.7-	931020 691 0.1+ 0.2+
600926 675 0.1- 0.1+	931012 691 0.1+ 0.2-	
600928 675 0.6- 0.2-	931012 691 0.1- 0.1-	

9058 P-L = 1982 SM₈ = 1993 TT

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

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

<i>M</i>	46.07423	(2000.0)	P	Q
<i>n</i>	0.18116456	ω 85.88115	+0.98916883	+0.13583087
<i>a</i>	3.0932894	Ω 266.30574	-0.14675122	+0.90737868
<i>e</i>	0.1699314	<i>i</i> 3.19582	-0.00301873	+0.39776112
<i>P</i>	5.44	<i>H</i> 12.5	<i>G</i> 0.15	

Williams

Residuals in seconds of arc

601017 675 0.6+ 0.0	931012 400 1.3+ 1.3+	931015 675 0.6+ 0.8-
601022 675 0.5- 0.8-	931012 400 0.6+ 1.1-	931015 691 0.6- 0.3+
601024 675 0.5+ 0.1-	931014 675 0.6+ 0.8-	931015 691 0.6- 0.2+

601026 675 0.2- 0.2+	931014 675 0.1+ 0.2-	931015 691 0.3- 0.0
820919 095 0.4- 1.1+	931015 691 0.3- 0.4+	931020 399 0.2- 0.3+
931011 400 (4.5+ 2.2-)	931015 691 0.7- 0.3+	931020 399 1.1- 0.4+
931011 400 0.9+ 0.9-	931015 691 0.1- 0.3+	

2114 T-3 = 1993 VH₂

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Nakano

<i>M</i>	97.64117	(2000.0)	P	Q
<i>n</i>	0.19051757	ω 112.70211	+0.84859930	+0.52107895
<i>a</i>	2.9912040	Ω 216.07799	-0.52422323	+0.80497749
<i>e</i>	0.0954412	<i>i</i> 8.92996	-0.07119860	+0.28370403
<i>P</i>	5.17	<i>H</i> 12.7	<i>G</i> 0.15	

Residuals in seconds of arc

771007 675 0.7+ 1.5-	771016 675 0.1- 0.9-	771022 675 0.1- 0.1-
771011 675 1.3- 0.2-	771016 675 1.0+ 1.2-	931113 372 0.3- 0.4-
771011 675 0.5- 0.2+	771021 675 1.2+ 0.0	931113 372 1.6- 0.4-
771012 675 0.4- 1.7+	771021 675 1.0+ 0.2+	931118 372 1.7+ 0.2+
771012 675 0.7- 2.0+	771022 675 0.8- 0.2-	931118 372 0.2+ 0.6+

2326 T-3 = 1993 TQ₃

Epoch 1994 Feb. 17.0 TT = JDT 2449400.5

Williams

<i>M</i>	51.18335	(2000.0)	P	Q
<i>n</i>	0.24655310	ω 78.76090	+0.99923328	-0.00023749
<i>a</i>	2.5188119	Ω 281.24398	-0.01563533	+0.91435957
<i>e</i>	0.0467554	<i>i</i> 2.28769	+0.03589408	+0.40490311
<i>P</i>	4.00	<i>H</i> 14.5	<i>G</i> 0.15	

Residuals in seconds of arc

771007 675 1.0+ 1.1-	771017 675 1.6- 0.4+	931008 691 0.3- 0.0
771011 675 0.2+ 0.9+	771017 675 1.6- 1.3+	931008 691 0.5- 0.2+
771011 675 0.7- 0.6+	771021 675 1.1+ 0.3+	931013 691 0.2- 0.7+
771012 675 0.7+ 0.0	771021 675 0.0 1.0-	931013 691 0.1+ 0.6+
771012 675 1.0+ 0.1+	771022 675 0.6+ 0.1+	931013 691 0.5+ 0.6+
771016 675 1.7+ 1.9-	771022 675 1.1- 0.6-	
771016 675 0.1- 1.7-	931008 691 0.6- 0.4+	

Object	<i>H</i>	Epoch	<i>M</i>	ω	Ω	<i>i</i>	<i>e</i>	<i>a</i>	Obs.	Opp.	Arc	rms	Computer	MPC	Object
1930 UX	14.5	940217	48.70730	57.06856	334.30112	4.73861	0.2042153	2.2993108	16	5	1930-1993	0.73	Bardwell	22696	1930 UX
1934 GA	10.5	940217	329.00677	77.13325	68.71001	24.59177	0.2134930	2.6580977	19	3	1934-1993	1.03	Williams	22696	1934 GA
1949 PN	11.0	940217	53.48596	7.27230	325.92316	11.97236	0.1743914	2.6762141	18	3	1949-1993	0.85	Williams	22598	1949 PN
1953 GH	11.5	940217	221.19137	95.51052	183.87347	10.15177	0.0849955	3.0106501	9	3	1953-1992	0.74	Williams	20138	1953 GH
1957 JP	12.0	940217	187.00643	212.51937	54.61757	14.10263	0.1391787	2.6357954	12	3	1957-1993	0.58	Williams	22586	1957 JP
1964 UP	13.9	940217	159.85995	357.09882	299.85095	3.21645	0.1472022	2.1624601	16	4	1954-1989	0.99	Bowell	21925	1964 UP
1969 TR ₁	13.5	940217	73.10767	346.64748	353.31956	1.94688	0.2693797	2.2670660	53	4	1928-1993	1.06	Williams	21925	1969 TR ₁
1971 OV	14.5	940217	70.68427	143.95513	193.49619	4.57639	0.3328054	2.3571276	17	5	1971-1993	0.82	Williams	16693	1971 OV
1971 UK	14.0	940217	79.96555	116.91329	222.68153	5.35016	0.1690903	2.3710384	24	5	1971-1993	0.79	Williams	22072	1971 UK
1971 UM	13.3	940217	346.88164	334.49666	29.97262	2.66235	0.1924697	2.4245987	14	3	1952-1990	0.44	Bowell	22072	1971 UM
1972 RU ₁	14.5	940217	85.30159	119.25971	209.29598	4.63683	0.1761600	2.2944091	19	4	1971-1993	1.02	Williams	22072	1972 RU ₁
1972 RF ₂	15.2	940217	69.26686	148.31711	187.24709	3.85163	0.2470758	2.2995249	12	6	1971-1993	1.49	Nakano	21250	1972 RF ₂
1972 TF	14.3	940217	101.19773	189.31999	179.49176	4.50476	0.1886390	2.2633787	27	4	1962-1991	0.86	Bowell	21963	1972 TF
1973 EK	12.9	940217	252.91983	321.76848	197.77295	1.63075	0.0669177	2.7009912	12	5	1973-1991	1.05	Bowell	21963	1973 EK
1973 SF ₆	14.0	940217	91.91297	146.47625	180.58733	6.19354	0.1987492	2.2140240	28	3	1973-1993	0.91	Williams	22429	1973 SF ₆
1974 RY ₁	14.3	940217	156.88536	134.95851	183.72274	2.73379	0.2282199	2.3534952	23	5	1949-1992	1.13	Bowell	21097	1974 RY ₁
1974 SJ ₃	12.0	940217	305.91301	141.62198	5.08657	16.96734	0.0831789	2.7600682	18	7	1951-1993	0.96	Williams	22696	1974 SJ ₃

1975 SJ	12.6	940217	330.50106	27.95469	30.76539	3.77809	0.1031223	2.7538501	15	5	1975-1991	0.85	Bowell	18280	1975 SJ
1975 TK ₆	12.5	940217	100.53115	259.68827	78.54327	13.45280	0.1769906	2.6528212	22	5	1975-1993	0.66	Bardwell	21963	1975 TK ₆
1975 VW ₂	13.5	940217	236.84137	148.34502	141.24792	4.81560	0.0909903	2.2491870	17	5	1950-1992	0.87	Bowell	22072	1975 VW ₂
1976 QR	12.6	940217	357.38224	238.94355	160.98351	14.38445	0.1805989	2.6181924	13	4	1976-1993	0.79	Bowell	22681	1976 QR
1976 QC ₁	14.7	940217	203.07690	340.50114	332.84198	1.86650	0.1865132	2.1593297	13	3	1973-1991	0.67	Bowell	22072	1976 QC ₁
1976 SQ ₇	13.5	940217	54.78133	142.09049	197.63586	5.36650	0.2106903	2.2625881	19	3	1952-1993	0.98	Williams	22681	1976 SQ ₇
1977 EA ₆	14.5	940217	306.33499	111.52278	307.61367	4.10779	0.1060377	2.3977713	18	4	1977-1993	0.88	Williams	22598	1977 EA ₆
1977 RF ₂	14.1	940217	342.75233	318.63895	353.10055	4.82491	0.1929398	2.2453396	13	4	1930-1987	0.88	Bowell	21964	1977 RF ₂
1978 ON	12.0	940217	98.40594	341.82123	25.81565	3.35886	0.1057095	2.7461235	25	5	1977-1993	1.12	Williams	21964	1978 ON
1978 PD ₃	14.0	940217	72.17867	44.90133	327.28583	6.20769	0.1207051	2.3571499	13	3	1978-1993	0.83	Bardwell	22696	1978 PD ₃
1978 RZ	12.9	940217	31.70377	249.38385	122.24771	3.00932	0.0802268	2.9058695	33	6	1971-1993	0.93	Bowell	20140	1978 RZ
1978 RE ₃	15.0	940217	347.12926	82.16916	302.38498	1.56079	0.1883612	2.4421753	21	3	1978-1993	0.59	Marsden	12452	1978 RE ₃
1978 RD ₁₀	13.8	940217	344.41289	222.89977	168.64785	2.07811	0.1116826	2.9340340	32	4	1971-1991	0.86	Bowell	22073	1978 RD ₁₀
1978 SE ₁	13.7	940217	304.24231	273.71823	84.03900	7.50787	0.1958415	2.5250256	12	4	1954-1990	0.69	Bowell	21964	1978 SE ₁
1978 UA ₇	13.0	940217	206.96977	197.54911	22.84701	7.63394	0.0962665	2.3947346	24	6	1951-1993	0.90	Williams	20807	1978 UA ₇
1978 VR ₄	14.0	940217	211.59697	239.29150	227.79889	4.09818	0.1150513	2.1965309	23	5	1954-1993	0.65	Williams	22491	1978 VR ₄
1978 VK ₅	13.0	940217	10.93635	59.34183	343.85558	1.97244	0.0629049	2.4509508	18	5	1954-1993	0.62	Williams	18415	1978 VK ₅
1978 VE ₉	13.0	940217	150.86758	350.02073	295.25282	1.13939	0.0984187	2.9304148	18	4	1978-1993	0.57	Williams	22222	1978 VE ₉
1978 VL ₁₁	12.5	940217	244.60467	143.38599	75.31922	5.72105	0.1653350	2.4146500	38	4	1978-1993	0.74	Bardwell	21926	1978 VL ₁₁
1979 MF	14.3	940217	171.13985	70.76563	161.08743	6.05761	0.2113807	2.2271165	15	4	1949-1993	0.86	Bowell	21965	1979 MF
1979 QT ₈	14.5	940217	88.24024	1.89793	338.43222	2.57855	0.1617434	2.2696733	10	5	1979-1993	0.80	Williams	22073	1979 QT ₈
1979 WX ₃	14.0	940217	296.72428	267.23057	124.67319	1.93130	0.1777094	2.4341326	28	5	1975-1993	1.06	Williams	22491	1979 WX ₃
1979 XQ	13.9	940217	114.37026	326.77733	36.01527	3.62557	0.1309030	2.2597415	44	5	1950-1989	1.00	Bowell	22491	1979 XQ
1980 GO	13.0	940217	162.53825	53.21505	147.31353	1.79166	0.1056573	3.1722681	18	5	1953-1991	0.86	Bowell	22492	1980 GO
1980 PB ₃	11.0	940217	240.49166	119.01058	55.59008	20.99228	0.1303845	3.2528265	23	4	1980-1993	0.76	Bardwell	21966	1980 PB ₃
1980 RP	12.4	940217	170.53736	344.42154	336.03970	17.06509	0.2145725	3.1181984	23	4	1950-1991	0.88	Bowell	21966	1980 RP
1980 RU	13.0	940217	65.10319	29.71711	344.94978	15.31301	0.1431505	2.5759908	13	5	1980-1993	1.02	Williams	22074	1980 RU
1980 RL ₇	12.5	940217	66.72201	142.78160	247.58806	8.72736	0.0975539	2.5741662	20	6	1943-1993	0.61	Bardwell	22598	1980 RL ₇
1981 EB ₁	13.0	940217	69.77175	86.66770	134.28873	2.55572	0.0781962	3.1571534	27	4	1979-1993	1.02	Williams	21966	1981 EB ₁
1981 EK ₇	13.5	940217	8.22588	74.39549	221.88862	4.33246	0.1459586	3.1491493	29	4	1978-1993	0.95	Williams	22492	1981 EK ₇
1981 EA ₉	15.0	940217	35.33192	21.70683	333.05853	6.86512	0.2429582	2.3483724	17	3	1977-1993	0.95	Bardwell	22696	1981 EA ₉
1981 EB ₉	13.5	940217	289.98013	306.97295	342.80104	12.65459	0.1662799	2.6081003	26	5	1955-1990	0.86	Bowell	21966	1981 EB ₉
1981 EY ₉	15.0	940217	331.69969	176.60566	298.94178	3.69341	0.1420441	2.2665145	29	3	1981-1993	0.84	Williams	21966	1981 EY ₉
1981 EA ₁₂	15.5	940217	15.39742	243.92741	222.31856	2.16661	0.0802524	2.2351783	30	4	1971-1991	0.97	Bowell	21966	1981 EA ₁₂
1981 EY ₁₄	15.0	940217	302.73136	215.76456	278.27866	3.68436	0.1152009	2.2875570	32	4	1979-1993	0.68	Williams	21967	1981 EY ₁₄
1981 EC ₁₆	14.0	940217	142.66299	350.93189	271.43882	3.65433	0.2053525	2.3648132	21	3	1978-1993	0.79	Williams	21967	1981 EC ₁₆
1981 EY ₁₇	14.2	940217	230.42595	247.48940	169.26103	2.22495	0.1587987	2.4534803	31	6	1950-1992	0.83	Bowell	21967	1981 EY ₁₇
1981 EU ₁₈	14.0	940217	44.88764	199.43186	88.82078	0.21487	0.1582362	3.0842728	30	3	1981-1993	0.95	Williams	22697	1981 EU ₁₈
1981 ED ₁₉	12.8	940217	216.12669	140.80602	168.04901	2.29662	0.0756400	2.6733943	57	5	1952-1992	0.74	Bowell	21967	1981 ED ₁₉
1981 EH ₁₉	14.5	940217	292.36075	201.93584	2.73646	3.43793	0.0929687	2.2295016	25	3	1979-1991	0.79	Bowell	18107	1981 EH ₁₉
1981 EU ₂₀	14.0	940217	266.35015	2.10041	308.68555	1.03161	0.0999310	2.5973609	17	3	1953-1985	0.85	Bowell	22429	1981 EU ₂₀
1981 EW ₂₄	13.2	940217	50.22925	194.83749	162.21578	2.35003	0.0770626	2.8867514	26	5	1953-1993	0.91	Bowell	22492	1981 EW ₂₄
1981 EX ₃₀	15.5	940217	358.89877	224.38946	150.52602	2.93413	0.2181774	2.3599956	15	5	1977-1993	0.84	Williams	21967	1981 EX ₃₀
1981 ER ₃₅	14.0	940217	305.48084	109.18515	290.53359	8.07212	0.1119744	3.0043277	22	4	1979-1993	1.47	Marsden	22271	1981 ER ₃₅
1981 EJ ₄₀	14.0	940217	34.31248	57.13193	346.49821	32.65308	0.3231450	2.7803749	17	3	1981-1993	1.05	Williams	22271	1981 EJ ₄₀
1981 QT ₃	12.0	940217	157.48337	246.53661	0.19602	5.91896	0.0749485	3.1590904	67	5	1953-1993	0.76	Williams	22483	1981 QT ₃
1981 SE	13.5	940217	304.49319	337.28242	162.34341	1.60844	0.0680642	2.4570785	13	4	1981-1993	0.77	Williams	21968	1981 SE
1981 SN	13.5	940217	57.12502	156.05838	216.25464	5.17979	0.1585021	2.4832175	24	4	1981-1993	1.16	Williams	22697	1981 SN
1981 SA ₅	12.5	940217	221.93950	144.52875	195.62485	1.47715	0.0863448	2.8621403	18	7	1952-1993	0.85	Williams	22074	1981 SA ₅
1981 SC ₇	13.5	940217	20.99138	344.65847	40.57381	8.65447	0.2434929	2.5302091	13	5	1969-1993	1.02	Bardwell	21968	1981 SC ₇
1981 XM ₂	13.0	940217	337.06216	172.64039	258.60083	10.81885	0.1094980	2.5988013	9	3	1981-1993	0.99	Bardwell	17956	1981 XM ₂
1982 BS	13.0	940217	22.24193	118.83496	296.43208	12.74824	0.1703566	2.5909895	17	4	1953-1993	1.06	Bardwell	22697	1982 BS

1982 BE ₁	13.5	940217	28.43217	301.94526	131.30981	6.48303	0.1896021	2.5542015	14	4	1982-1993	0.87	Williams	21968	1982 BE ₁
1982 JE ₁	14.0	940217	52.07861	291.24473	73.00703	5.26178	0.1834938	2.2585172	22	5	1976-1993	1.26	Williams	22075	1982 JE ₁
1982 QK ₃	14.0	940217	62.81760	23.15709	326.87072	2.48535	0.1872614	2.3470807	19	4	1982-1993	0.58	Williams	22075	1982 QK ₃
1982 RW	14.2	940217	176.19287	353.59446	327.07537	2.12224	0.1881433	2.2233465	14	4	1972-1992	0.65	Bowell	22075	1982 RW
1982 SX ₅	12.5	940217	265.95813	351.06319	317.64519	2.17573	0.1962813	2.6562079	14	4	1950-1991	0.75	Bowell	22075	1982 SX ₅
1982 UJ ₇	12.5	940217	9.86711	327.65091	111.64568	2.55066	0.1511920	3.0962360	19	3	1982-1993	1.27	Williams	21969	1982 UJ ₇
1983 RB	15.5	940217	73.77222	114.77106	169.50575	19.42312	0.5060633	2.2223464	47	2	1983-1993	0.84	Williams	22697	1983 RB
1983 VN ₇	13.0	940217	334.66251	236.62265	146.35359	1.64625	0.1857694	3.0802611	34	5	1983-1993	0.94	Williams	22599	1983 VN ₇
1983 XW	12.5	940217	305.44652	10.17289	35.26206	0.40845	0.2057401	3.1934365	27	5	1953-1993	0.77	Williams	22492	1983 XW
1984 AR	12.4	940217	292.21472	88.35799	25.26617	1.10718	0.1383976	3.1332878	36	10	1954-1992	0.71	Bowell	22599	1984 AR
1984 DY	12.5	940217	316.68115	128.10363	359.78578	0.72866	0.1359376	3.1395808	50	3	1984-1993	0.70	Bardwell	14191	1984 DY
1984 DZ	14.0	940217	242.95964	259.65868	345.85530	7.78821	0.2090638	2.3167536	41	3	1953-1991	0.61	Bowell	22271	1984 DZ
1984 EY	13.5	940217	214.61136	196.62752	31.96755	7.03235	0.0737979	2.3656364	24	6	1955-1993	0.97	Williams	22492	1984 EY
1984 HL ₁	13.5	940217	0.06604	123.12237	19.42466	2.40520	0.1555473	2.2715138	20	6	1951-1993	0.64	Williams	22589	1984 HL ₁
1984 KB	15.0	940217	354.44785	336.50953	169.95589	4.84600	0.7643335	2.2162799	39	2	1984-1993	0.79	Williams	22682	1984 KB
1984 SG ₁	12.7	940217	349.81985	95.56861	287.63338	3.27684	0.0845360	2.7814317	26	5	1984-1993	1.16	Nakano	22697	1984 SG ₁
1984 UT	13.0	940217	341.69693	201.71003	232.57713	16.19693	0.2303399	2.7825909	32	3	1984-1993	0.79	Williams	22698	1984 UT
1984 UX ₂	12.6	940217	78.64794	323.48059	15.78261	11.98884	0.2018435	2.6820183	16	5	1931-1993	0.97	Bowell	22698	1984 UX ₂
1985 CH ₁	13.8	940217	219.36886	116.96668	17.05860	3.74250	0.1187783	2.3030296	26	6	1950-1992	0.87	Bowell	22076	1985 CH ₁
1985 QX ₄	11.0	940217	33.43292	172.39325	175.91829	8.68044	0.0503006	3.9296603	9	2	1985-1993	0.95	Williams	22683	1985 QX ₄
1985 QD ₆	15.0	940217	22.37734	225.55307	121.88572	5.17866	0.2950806	2.5536280	10	2	1985-1993	1.08	Marsden	22683	1985 QD ₆
1985 RL ₁	13.5	940217	94.87169	122.27999	213.58216	9.78937	0.1663934	2.4244913	38	5	1970-1993	0.89	Williams	21970	1985 RL ₁
1985 RU ₂	14.4	940217	151.48060	8.06056	17.00579	2.66879	0.1587835	2.2397883	39	4	1950-1992	0.60	Bowell	21970	1985 RU ₂
1985 TU	14.0	940217	340.63948	152.86581	239.79747	1.55631	0.2209314	2.6211652	17	2	1985-1993	0.99	Williams	22590	1985 TU
1985 TA ₂	11.8	940217	185.92175	102.64605	304.81581	8.97859	0.0959024	3.0288577	17	4	1954-1990	0.84	Bowell	21970	1985 TA ₂
1986 AH	14.0	940217	89.89427	263.46521	125.48661	24.00719	0.1169384	1.9284610	18	5	1978-1993	0.95	Williams	22077	1986 AH
1986 AG ₁	13.0	940217	55.47867	96.74588	301.03468	20.81780	0.0366967	1.9628427	25	4	1954-1993	0.84	Williams	22077	1986 AG ₁
1986 AA ₂	13.2	940217	237.35497	55.72387	116.49892	5.77853	0.0217316	2.7101927	18	6	1978-1993	0.79	Bowell	21970	1986 AA ₂
1986 CP ₁	13.6	940217	295.02413	129.31029	35.90477	4.10146	0.1214616	2.6633486	45	4	1954-1986	1.04	Bowell	22698	1986 CP ₁
1986 PX ₄	13.7	940217	333.31969	313.18233	28.74182	1.15829	0.2124268	2.4430514	22	5	1971-1993	1.22	Bowell	22272	1986 PX ₄
1986 QQ	13.3	940217	327.88544	84.71217	359.21025	4.32621	0.1489793	2.2805568	77	7	1950-1993	0.65	Bowell	22698	1986 QQ
1986 QN ₃	15.0	940217	65.32115	288.50442	83.05758	3.12602	0.1452686	2.2262462	48	5	1979-1993	0.68	Williams	22077	1986 QN ₃
1986 RK	13.5	940217	72.31479	88.40899	235.82370	7.56575	0.2025265	2.2862291	16	2	1986-1993	0.80	Williams	22683	1986 RK
1986 RS ₁	15.0	940217	65.35908	176.03303	163.65568	5.97716	0.1989340	2.2721917	11	3	1979-1993	1.05	Bardwell	14949	1986 RS ₁
1986 RB ₅	13.0	940217	79.64416	210.03956	122.84495	5.66791	0.1790996	2.2426849	34	4	1949-1993	0.61	Williams	22698	1986 RB ₅
1986 RN ₅	14.5	940217	51.88470	343.40989	359.57278	6.49195	0.2244812	2.2869247	25	3	1955-1993	0.78	Nakano	22684	1986 RN ₅
1986 SF	13.5	940217	136.24933	280.12910	348.62155	4.01200	0.1824193	2.2620152	15	5	1975-1993	0.72	Williams	22077	1986 SF
1986 UG	14.3	940217	80.63422	266.00157	131.39972	2.38611	0.1474426	2.2103832	13	5	1976-1991	0.60	Bowell	22078	1986 UG
1986 UQ	13.8	940217	187.79285	93.62557	235.53452	2.23238	0.1244815	2.1176004	21	5	1976-1992	0.91	Bowell	22078	1986 UQ
1987 BB	14.7	940217	324.52922	354.86862	145.02419	0.38208	0.1605189	2.3766967	28	3	1987-1993	0.64	Urata	18626	1987 BB
1987 BS ₂	14.1	940217	341.70327	314.65354	146.47868	2.53551	0.1621533	2.3947387	33	4	1982-1991	0.62	Bowell	21970	1987 BS ₂
1987 QS ₁	13.0	940217	321.28405	248.18717	329.05474	6.53460	0.1717029	2.4480995	33	5	1954-1992	0.62	Bowell	22272	1987 QS ₁
1987 QZ ₁	13.9	940217	200.89920	79.25147	319.16055	5.45424	0.1525356	2.4306803	32	4	1953-1991	0.80	Bowell	19862	1987 QZ ₁
1987 QW ₂	12.6	940217	65.39137	259.37948	41.57117	1.34967	0.1484015	3.1923431	16	6	1952-1993	0.59	Bowell	22698	1987 QW ₂
1987 QV ₁₀	12.0	940217	83.63741	209.51386	144.10261	10.87859	0.1121323	2.9982450	15	4	1987-1993	0.61	Bardwell	20814	1987 QV ₁₀
1987 RG	12.5	940217	91.17670	205.09494	120.80054	3.52711	0.1798301	3.0943522	40	5	1981-1993	1.09	Williams	22078	1987 RG
1987 RJ	14.0	940217	337.43805	287.53291	74.04307	2.84669	0.1200331	2.2227392	30	5	1956-1993	0.87	Williams	22493	1987 RJ
1987 RC ₁	11.5	940217	80.50103	254.29203	36.44260	1.25072	0.1342645	3.2035804	51	5	1953-1993	0.75	Williams	22698	1987 RC ₁
1987 RQ ₂	14.1	940217	208.00288	298.07062	60.30412	3.04811	0.2637356	2.5348341	9	4	1955-1991	0.82	Bowell	20014	1987 RQ ₂
1987 RT ₅	15.5	940217	52.49689	194.89589	119.53006	3.00398	0.1833374	2.1311801	18	3	1981-1993	0.54	Williams	22493	1987 RT ₅
1987 SZ ₆	10.5	940217	55.38339	78.02411	277.52293	8.94081	0.1676307	3.1375201	9	3	1965-1993	0.37	Williams	22698	1987 SZ ₆
1987 SV ₁₂	13.0	940217	54.93860	278.04980	75.11125	2.49770	0.2160263	3.1341695	17	4	1976-1993	0.60	Bardwell	22078	1987 SV ₁₂

1987 SE ₁₃	12.2	940217	14.79567	305.23947	97.07765	2.86659	0.1868352	3.1601917	26	3	1987-1993	0.77	Nakano	21567	1987 SE ₁₃
1987 SS ₁₇	12.0	940217	87.01434	328.21585	0.05746	6.95152	0.1669204	3.1458159	15	3	1981-1993	0.99	Bardwell	22079	1987 SS ₁₇
1987 VA ₁	11.0	940217	281.37998	178.62958	32.20866	13.92358	0.0802514	2.9859442	19	6	1971-1993	1.24	Williams	18428	1987 VA ₁
1987 WV ₁	15.0	940217	327.66015	267.39863	138.14620	0.93555	0.1600629	2.2552294	19	3	1987-1993	0.68	Marsden	22079	1987 WV ₁
1988 AE ₅	12.3	940217	284.38581	107.03137	146.34396	10.29342	0.0329771	3.0357060	54	5	1953-1991	0.58	Bowell	22493	1988 AE ₅
1988 GD	13.0	940217	168.77289	127.85993	100.52543	5.21335	0.1057707	2.4304910	12	3	1988-1993	0.98	Williams	20501	1988 GD
1988 KC	13.5	940217	88.06589	95.33202	228.15838	10.27646	0.3055952	2.5970343	24	7	1951-1993	1.05	Marsden	22493	1988 KC
1988 LH	13.4	940217	73.55221	321.55255	237.78758	5.85413	0.2165145	3.0204392	17	5	1956-1993	0.63	Bowell	22493	1988 LH
1988 PG ₁	13.4	940217	79.66720	21.25436	315.25837	12.19120	0.2004145	2.7130223	16	4	1970-1991	0.93	Bowell	18289	1988 PG ₁
1988 PJ ₁	13.0	940217	140.40623	340.50030	317.14397	14.61783	0.1180179	2.5976859	43	6	1970-1993	0.94	Williams	22079	1988 PJ ₁
1988 QD ₁	12.5	940217	74.73790	69.61930	249.67285	15.85349	0.3740532	2.7625561	19	3	1988-1993	0.44	Williams	22698	1988 QD ₁
1988 RE	14.9	940217	110.81842	105.52344	202.29149	35.06581	0.2523044	1.8211786	42	3	1980-1993	0.92	Nakano	22684	1988 RE
1988 RS ₄	13.0	940217	99.26197	311.02484	357.75768	1.12429	0.0740337	2.7445781	35	2	1988-1991	0.46	Bowell	19301	1988 RS ₄
1988 RD ₅	12.4	940217	318.66846	330.05016	53.22572	1.93934	0.1762763	3.1374825	33	7	1954-1992	0.90	Bowell	22272	1988 RD ₅
1988 RU ₆	13.5	940217	203.71997	25.83748	198.72394	1.81560	0.1416181	2.6356814	57	4	1987-1992	0.69	Bowell	22079	1988 RU ₆
1988 RF ₉	15.5	940217	293.18988	148.19864	97.82532	2.52027	0.1668817	2.2500838	24	4	1950-1991	0.82	Bowell	22079	1988 RF ₉
1988 RV ₁₀	13.0	940217	133.84938	35.15141	148.75193	2.87119	0.1193936	3.1994021	19	2	1988-1993	1.02	Marsden	22684	1988 RV ₁₀
1988 RW ₁₀	14.5	940217	341.43898	35.15965	335.95729	0.46276	0.1509360	3.0759934	17	2	1988-1993	0.94	Williams	22590	1988 RW ₁₀
1988 RA ₁₁	13.5	940217	329.10950	209.33684	121.49198	3.10978	0.0807195	3.3318979	14	3	1977-1993	0.50	Williams	20815	1988 RA ₁₁
1988 TQ ₄	12.5	940217	65.33770	256.92057	128.26170	1.34328	0.0824602	2.7796298	28	7	1974-1993	0.75	Williams	22080	1988 TQ ₄
1988 UC	12.6	940217	56.29167	314.83731	39.39604	2.54039	0.0940298	2.9154495	24	6	1953-1993	1.10	Nakano	22599	1988 UC
1988 UH	12.1	940217	231.69386	325.84466	203.44241	3.69616	0.1113576	3.0994040	24	6	1977-1993	1.15	Nakano	21972	1988 UH
1988 VD ₁	11.4	940217	90.48094	330.01929	357.53646	13.48926	0.1146221	2.8932022	23	5	1953-1993	0.55	Bowell	22698	1988 VD ₁
1988 VN ₄	17.0	940217	27.81850	230.50545	228.09029	17.93664	0.3206641	1.8122038	15	3	1977-1993	0.51	Williams	18814	1988 VN ₄
1988 WF	12.6	940217	0.82096	310.65298	90.05657	1.86872	0.1897384	3.1360764	24	4	1954-1993	0.99	Nakano	22685	1988 WF
1988 XU ₁	11.7	940217	181.64004	172.81335	84.85126	11.15028	0.0573933	2.9974034	26	6	1955-1993	0.88	Nakano	22698	1988 XU ₁
1988 XW ₁	11.2	940217	41.76744	312.48913	69.62850	10.68643	0.1091155	3.0212705	27	6	1951-1993	0.73	Nakano	22493	1988 XW ₁
1988 YB	12.2	940217	315.31655	44.89879	70.37634	1.86887	0.1479790	3.2258040	22	4	1978-1993	1.14	Nakano	22698	1988 YB
1989 AH	12.0	940217	92.03524	242.15055	98.69251	22.89279	0.0417412	3.1866908	26	5	1989-1993	0.93	Williams	22080	1989 AH
1989 CJ ₁	13.0	940217	129.26967	208.58818	141.40349	27.52064	0.0719043	1.9101555	24	4	1989-1993	0.88	Williams	21972	1989 CJ ₁
1989 CE ₂	13.5	940217	110.35146	59.65797	320.29448	20.35293	0.0713533	1.8616726	26	5	1974-1993	1.02	Williams	21972	1989 CE ₂
1989 GA ₃	14.5	940217	149.59286	279.94853	227.19468	1.64655	0.1548432	2.4156210	29	5	1970-1993	1.03	Williams	22493	1989 GA ₃
1989 JF	13.5	940217	135.52561	281.19048	0.72068	4.43803	0.1698401	2.1818001	22	3	1989-1993	0.96	Williams	22699	1989 JF
1989 OL	14.0	940217	46.94394	250.09117	46.94208	13.05579	0.1357732	2.5387186	16	3	1977-1993	0.51	Williams	22685	1989 OL
1989 RD ₂	14.5	940217	78.58250	166.44541	167.07230	2.82898	0.2429714	2.3783433	21	4	1978-1993	0.85	Williams	21973	1989 RD ₂
1989 SE	14.5	940217	33.89473	347.29247	8.15627	7.62493	0.2898874	2.5463113	15	3	1981-1993	0.88	Williams	22699	1989 SE
1989 SU	13.2	940217	60.85031	31.90830	292.31823	4.10723	0.2369140	2.5322894	17	3	1976-1993	1.14	Nakano	22685	1989 SU
1989 SR ₂	13.5	940217	260.15170	342.29037	99.71682	3.37141	0.0429239	2.8942872	26	2	1989-1993	0.67	Williams	22699	1989 SR ₂
1989 SR ₄	15.6	940217	17.76078	356.27876	44.22181	4.79276	0.1803452	2.5244803	13	3	1977-1993	1.01	Bowell	18293	1989 SR ₄
1989 TJ ₁	13.0	940217	324.48970	70.93934	313.05413	1.68462	0.0913168	2.8118695	26	5	1951-1993	0.96	Marsden	22686	1989 TJ ₁
1989 TT ₁	13.4	940217	23.88840	205.10427	223.79775	5.11703	0.1027762	2.4051136	34	3	1978-1993	0.87	Nakano	22699	1989 TT ₁
1989 TX ₁₅	13.5	940217	312.56299	147.02146	16.20686	5.70402	0.0845800	2.2643002	21	4	1986-1993	0.56	Bardwell	17962	1989 TX ₁₅
1989 UL ₁	12.6	940217	70.05525	294.43105	44.66466	10.26199	0.1127283	2.5600608	31	3	1971-1993	0.83	Nakano	22699	1989 UL ₁
1989 UO ₁	14.1	940217	158.78237	145.55810	194.30458	4.11966	0.2178361	2.1907651	26	3	1989-1992	0.85	Bowell	22081	1989 UO ₁
1989 UG ₃	13.5	940217	358.78009	320.21692	87.91675	4.91598	0.1638750	2.6097322	21	4	1982-1993	0.89	Williams	22699	1989 UG ₃
1989 UZ ₄	13.5	940217	1.24829	276.85392	151.87662	5.60128	0.1642007	2.5287847	13	5	1969-1993	0.71	Williams	22081	1989 UZ ₄
1989 VV	14.1	940217	63.47120	292.09713	85.61108	1.69411	0.1404417	2.4485632	29	4	1954-1993	0.80	Nakano	22081	1989 VV
1989 WD	12.5	940217	301.24312	127.41641	63.45279	7.62964	0.0660318	2.3496221	29	3	1989-1993	0.99	Bardwell	22081	1989 WD
1989 WQ ₁	15.0	940217	318.34593	41.36902	69.21438	15.90213	0.1265958	1.6542663	16	3	1978-1993	0.93	Williams	22591	1989 WQ ₁
1989 WC ₂	13.1	940217	4.80749	18.43704	65.02273	9.33087	0.1748315	2.5579111	13	3	1982-1993	1.15	Nakano	15725	1989 WC ₂
1989 YH	12.6	940217	25.75099	88.13388	309.06582	7.98680	0.1638135	2.7732474	32	5	1984-1993	0.97	Nakano	21973	1989 YH
1989 YO ₅	12.0	940217	157.40818	120.14877	93.91626	2.59870	0.1114713	3.1488989	20	5	1952-1991	0.96	Bowell	18119	1989 YO ₅

1990 BX	12.5	940217	17.44198	301.40164	123.75195	6.51566	0.0629085	2.7503775	20	3	1989-1993	0.98	Williams	22699	1990 BX
1990 BG ₁	12.3	940217	283.16963	77.72451	75.75065	6.09154	0.1719324	2.8865111	26	6	1964-1993	1.00	Nakano	22699	1990 BG ₁
1990 BZ ₁	13.0	940217	11.28447	227.18977	223.80020	2.76257	0.1622432	2.6552091	52	8	1953-1993	0.80	Williams	22272	1990 BZ ₁
1990 BN ₂	13.1	940217	355.76133	16.62665	89.92493	14.28865	0.1325901	2.6449726	14	3	1977-1993	0.78	Bardwell	22699	1990 BN ₂
1990 DB	11.5	940217	182.11273	94.34873	157.80257	2.47212	0.1349772	3.0764090	24	9	1958-1993	0.91	Williams	22592	1990 DB
1990 FR	13.0	940217	344.69459	58.58363	115.07989	13.73474	0.3027483	2.5905173	18	3	1986-1993	0.81	Williams	21974	1990 FR
1990 HM ₁	11.2	940217	309.84180	55.07237	77.39733	10.80068	0.1266767	3.1564344	13	5	1978-1993	0.98	Nakano	22699	1990 HM ₁
1990 QP ₂	12.4	940217	193.65286	62.19371	0.92462	1.71035	0.0519064	2.8459297	30	5	1954-1993	0.76	Bowell	22272	1990 QP ₂
1990 RQ ₂	13.6	940217	319.39832	69.44511	344.49560	5.17670	0.2258873	2.2889759	38	7	1950-1992	0.87	Bowell	21974	1990 RQ ₂
1990 SK ₁₁	14.0	940217	346.54730	107.21655	271.34386	2.41654	0.1097225	2.2585440	13	3	1987-1993	1.18	Williams	20927	1990 SK ₁₁
1990 TN ₁	13.0	940217	301.57202	196.28960	317.65609	16.98159	0.0652715	1.9784093	15	3	1986-1993	0.82	Williams	22699	1990 TN ₁
1990 TJ ₂	12.7	940217	171.82388	223.93040	219.12857	9.04035	0.0779762	3.0376851	21	6	1956-1993	0.56	Bowell	22494	1990 TJ ₂
1990 UR ₁	13.5	940217	95.80506	150.74296	234.42861	20.45904	0.1476838	1.9101018	32	3	1990-1993	0.89	Williams	21975	1990 UR ₁
1990 VC ₁	12.8	940217	251.77672	304.74005	109.10245	11.86846	0.2262300	2.6921293	14	6	1952-1990	0.73	Bowell	22083	1990 VC ₁
1990 VL ₂	13.5	940217	278.02215	306.73253	130.99940	3.36657	0.1167739	2.5119804	24	5	1956-1993	1.03	Williams	22699	1990 VL ₂
1990 VF ₃	13.5	940217	58.53316	236.08767	106.06425	4.33194	0.1364007	2.2066209	19	3	1980-1993	0.92	Williams	22700	1990 VF ₃
1990 VG ₃	14.5	940217	36.11036	261.41860	118.17487	4.50803	0.1495953	2.1664244	16	3	1982-1993	0.96	Nakano	22700	1990 VG ₃
1990 VY ₁₃	12.0	940217	191.09753	31.81166	61.13207	3.62876	0.1452439	3.1219956	13	2	1990-1993	0.73	Williams	22486	1990 VY ₁₃
1990 VB ₁₄	13.5	940217	314.35236	123.92647	293.67191	1.61527	0.2006330	2.4230026	15	2	1990-1993	0.85	Marsden	22686	1990 VB ₁₄
1990 VB ₁₅	13.5	940217	21.21745	283.54566	105.53625	3.70266	0.1306867	2.1845264	17	5	1980-1993	1.08	Williams	21975	1990 VB ₁₅
1990 WU ₅	14.5	940217	232.51161	343.08282	133.61581	4.15930	0.0594440	2.5940142	19	3	1971-1993	0.73	Williams	22593	1990 WU ₅
1990 XF	12.0	940217	240.27824	218.68965	293.29817	11.04859	0.1999898	2.5540719	27	4	1983-1993	1.15	Nakano	22700	1990 XF
1990 XM	13.5	940217	44.91160	257.98080	114.65679	2.34716	0.1742010	2.1627479	24	4	1974-1993	0.90	Williams	22700	1990 XM
1990 YC	14.0	940217	14.82039	335.95966	82.17042	2.76691	0.1600510	2.2182622	26	3	1988-1993	1.05	Nakano	22687	1990 YC
1990 YK	14.0	940217	316.10892	322.18135	172.43453	2.29059	0.1561392	2.2452462	19	4	1981-1993	0.82	Williams	17829	1990 YK
1991 AA	11.7	940217	275.74860	323.63621	33.23365	5.40003	0.1326778	3.2081903	26	7	1909-1991	0.94	Bowell	17830	1991 AA
1991 AM	16.5	940217	107.50563	152.53145	125.61631	30.02850	0.6956013	1.6978724	34	4	1982-1993	0.61	Williams	22083	1991 AM
1991 AF ₁	12.0	940217	239.71912	158.58427	299.33913	9.42392	0.0745187	2.9921739	35	5	1934-1993	1.12	Marsden	22700	1991 AF ₁
1991 AO ₃	13.5	940217	55.63724	250.24983	89.33661	7.28838	0.1169952	2.3933529	18	3	1989-1993	0.83	Williams	22700	1991 AO ₃
1991 BD	13.5	940217	9.64082	121.79744	282.98417	5.79422	0.0941567	2.3586072	28	3	1982-1993	0.85	Nakano	22687	1991 BD
1991 BJ	13.0	940217	9.98489	356.84670	60.24050	4.55978	0.0303177	2.3497172	17	5	1950-1993	1.03	Williams	22600	1991 BJ
1991 CN	13.5	940217	298.65849	162.92869	1.41975	3.98510	0.0727587	2.2734041	33	3	1991-1993	0.85	Bardwell	21575	1991 CN
1991 CC ₁	13.0	940217	280.45208	54.96153	148.38522	6.55951	0.1504400	2.3077133	16	3	1979-1992	0.92	Williams	20928	1991 CC ₁
1991 CL ₁	13.5	940217	353.87295	161.50093	287.52146	2.45858	0.1409602	2.3251887	26	3	1986-1993	0.99	Nakano	22700	1991 CL ₁
1991 DO	12.7	940217	173.84835	247.10897	336.33335	8.53957	0.0917812	2.7574280	26	4	1978-1993	0.63	Nakano	22687	1991 DO
1991 EA	13.4	940217	296.44552	151.57071	350.57532	6.28183	0.0750960	2.4625489	26	3	1955-1991	0.94	Bowell	22494	1991 EA
1991 EG	14.2	940217	336.36678	81.01712	48.53376	5.27343	0.2026243	2.2739420	24	4	1981-1993	0.99	Nakano	21975	1991 EG
1991 EA ₁	12.0	940217	213.79155	160.64426	40.38694	10.01311	0.2003232	2.7383919	13	4	1988-1993	0.90	Williams	22431	1991 EA ₁
1991 ES ₁	12.0	940217	322.87116	264.72354	165.66576	14.13393	0.1814798	2.6430567	35	3	1976-1993	0.74	Bowell	22593	1991 ES ₁
1991 FC	13.5	940217	47.44622	334.86030	189.02869	23.72163	0.0256446	1.9087955	31	3	1989-1992	0.84	Williams	21975	1991 FC
1991 FG	13.0	940217	235.03134	325.01541	204.92271	13.48864	0.3376798	2.7601685	23	3	1987-1993	0.65	Williams	22700	1991 FG
1991 FJ ₁	12.0	940217	294.07942	279.99405	200.03021	12.55895	0.1303696	2.6827841	18	3	1978-1993	1.00	Williams	22687	1991 FJ ₁
1991 FS ₁	14.3	940217	233.92144	178.64376	51.71580	0.41571	0.1523097	2.4211154	15	2	1991-1992	0.55	Bowell	21110	1991 FS ₁
1991 GQ ₁	11.5	940217	116.78904	232.76091	88.04231	12.73412	0.1618857	3.0101546	14	3	1991-1993	0.50	Bardwell	21110	1991 GQ ₁
1991 GC ₇	15.0	940217	330.81064	138.11522	28.47784	5.18517	0.1082277	2.2664117	14	4	1955-1991	0.82	Bowell	18637	1991 GC ₇
1991 HA	14.0	940217	246.52977	28.52812	196.67094	1.67810	0.0672010	2.4378330	35	3	1983-1992	0.97	Williams	21577	1991 HA
1991 JG	12.0	940217	215.55668	165.93357	64.10959	12.77726	0.1405963	2.6894943	19	6	1938-1993	0.64	Williams	22494	1991 JG
1991 LE ₁	11.0	940217	130.27356	262.18304	110.84747	28.18501	0.1184171	2.6240002	19	4	1984-1993	0.77	Williams	21975	1991 LE ₁
1991 NV ₃	12.4	940217	146.83922	267.86726	85.92951	3.21523	0.0850393	2.8424953	23	5	1953-1992	1.01	Bowell	21264	1991 NV ₃
1991 PQ	10.5	940217	20.44853	132.80500	307.41473	19.41499	0.0395434	3.4871496	31	4	1972-1993	0.81	Williams	21976	1991 PQ
1991 PJ ₇	15.4	940217	233.59474	24.05707	338.08301	5.49338	0.1721156	2.2886581	20	3	1953-1991	0.93	Bowell	20930	1991 PJ ₇
1991 RJ	13.4	940217	235.82382	331.18232	338.16744	13.20004	0.1619810	2.6215526	27	6	1951-1992	0.99	Bowell	22494	1991 RJ

1992 BB	15.5	940217	258.09096	330.33763	194.67320	45.28681	0.2668867	1.8817975	34	2	1992-1993	0.50	Williams	22688	1992 BB
1992 CH ₁	17.5	940217	352.68165	355.47752	145.97337	21.56937	0.2891534	1.6245998	23	2	1992-1993	0.79	Williams	22688	1992 CH ₁
1992 CA ₂	14.0	940217	248.45595	328.88287	139.86659	4.27520	0.0543830	2.2660504	12	2	1992-1993	0.74	Marsden	22688	1992 CA ₂
1992 EL ₁	11.5	940217	249.61595	334.39877	75.35427	10.76806	0.0825832	2.9932017	20	5	1964-1993	1.19	Williams	20035	1992 EL ₁
1992 FS	12.2	940217	72.26315	245.43679	36.36318	5.71685	0.1399171	2.7240395	11	4	1951-1992	0.73	Bowell	22495	1992 FS
1992 FP ₁	12.8	940217	124.22173	79.99155	179.11605	11.81970	0.2589594	2.5914619	14	4	1976-1993	0.82	Bowell	20156	1992 FP ₁
1992 KE	13.0	940217	124.47658	184.77514	106.54718	7.56889	0.1373063	2.4546092	17	4	1977-1993	0.78	Williams	20645	1992 KE
1992 LP	13.5	940217	101.07702	243.72951	101.99824	2.93000	0.1832455	2.2573033	22	3	1969-1993	0.92	Williams	22085	1992 LP
1992 MA	11.9	940217	88.65095	91.65011	202.63010	0.37860	0.1544537	3.0895885	23	8	1953-1993	0.82	Bowell	22700	1992 MA
1992 SZ ₁₄	12.0	940217	161.13109	62.75923	229.87790	10.35103	0.1004940	2.8924675	20	6	1972-1993	0.79	Bardwell	21118	1992 SZ ₁₄
1992 TY	13.6	940217	206.87013	166.49791	133.90914	5.11907	0.1797991	2.2153076	17	4	1962-1992	0.76	Bowell	22085	1992 TY
1992 WW ₅	13.0	940217	144.83982	175.56054	178.33384	1.84019	0.0882399	2.8435368	26	5	1953-1992	0.69	Bowell	21597	1992 WW ₅
1993 KP	13.8	940217	57.12525	78.53183	185.21546	3.60083	0.1902122	2.3815412	15	4	1953-1993	0.86	Bowell	22412	1993 KP
1993 MF	14.0	940217	51.48561	74.76145	241.17427	8.03192	0.5317101	2.4442893	335	3	1981-1993	0.66	Williams	22689	1993 MF
1993 MO	16.0	940217	106.08094	167.07967	111.59641	22.63389	0.2207401	1.6261992	75	1	149 days	0.81	Williams	22700	1993 MO
1993 MA ₁	12.0	940217	41.55433	207.95142	55.29289	9.27824	0.1167349	2.7434894	14	4	1954-1993	1.06	Bowell	22489	1993 MA ₁
1993 MG ₁	13.5	940217	50.81346	15.49510	277.79121	14.64730	0.3836848	2.6874105	27	1	141 days	0.73	Williams	22690	1993 MG ₁
1993 MS ₁	12.0	940217	132.11821	350.25448	229.09750	11.33472	0.1325197	2.4759965	24	5	1974-1993	0.94	Bardwell	22700	1993 MS ₁
1993 NH	14.5	940217	36.82490	80.97725	246.03567	22.26874	0.3112169	2.3049817	23	3	1983-1993	1.09	Williams	22596	1993 NH
1993 OD	13.5	940217	359.58606	104.58736	302.14957	20.29171	0.1502141	1.8204895	28	2	1992-1993	0.73	Williams	22700	1993 OD
1993 OP	13.0	940217	13.73526	95.54859	286.26970	23.90522	0.1992581	2.2873770	16	1	122 days	0.77	Williams	22690	1993 OP
1993 OV ₁	16.5	940217	69.37552	323.32213	311.02069	11.18302	0.4370435	2.3388293	58	3	1975-1993	0.75	Williams	22700	1993 OV ₁
1993 OC ₂	14.0	940217	191.14850	224.44059	334.75827	18.40762	0.0540453	1.9344293	17	1	88 days	0.88	Williams	22691	1993 OC ₂
1993 QP	17.5	940217	47.07459	46.54063	297.44745	7.24938	0.4692492	2.3077714	49	1	76 days	0.70	Williams	22691	1993 QP
1993 QT	13.5	940217	77.05452	336.88044	342.15582	18.69483	0.0696703	1.9567347	17	2	1990-1993	0.71	Williams	22691	1993 QT
1993 RF ₂	14.0	940217	72.48676	326.09537	353.93131	4.80984	0.1821801	2.2586840	10	2	1976-1993	1.15	Williams	22692	1993 RF ₂
1993 SG	14.0	940217	38.32465	24.87622	347.52522	4.77122	0.2106088	2.3735185	38	3	1949-1993	0.95	Williams	22692	1993 SG
1993 SL ₃	12.6	940217	91.26712	285.34538	16.34459	23.98277	0.2188328	2.2734644	18	4	1982-1993	0.97	Nakano	22693	1993 SL ₃
1993 TE	14.3	940217	46.14607	161.66060	192.47935	8.68690	0.2738715	2.5425941	14	4	1985-1993	0.93	Nakano	22693	1993 TE
1993 TF	13.9	940217	14.87005	324.04706	87.43333	1.76789	0.1888601	2.3800140	19	3	1982-1993	0.81	Nakano	22693	1993 TF
1993 TX	12.5	940217	34.85276	329.89204	42.27033	11.54974	0.2960004	2.6158333	10	2	1972-1993	0.96	Nakano	22693	1993 TX
2604 P-L	14.6	940217	251.03300	226.51707	8.16146	3.04206	0.1903239	2.3320414	24	4	1950-1991	0.82	Bowell	22601	2604 P-L
3526 P-L	11.5	940217	14.80622	51.66249	336.57039	11.46988	0.1127530	3.1110658	17	4	1960-1993	0.95	Williams	22694	3526 P-L
4019 P-L	14.5	940217	10.74991	54.95769	262.39278	2.16934	0.1035642	2.4111350	18	3	1960-1993	0.57	Williams	22490	4019 P-L
4068 P-L	14.5	940217	48.27722	51.18449	340.54619	3.18951	0.0721595	2.2054516	24	3	1960-1993	0.81	Williams	22086	4068 P-L
4116 P-L	15.0	940217	106.96485	109.24257	227.01912	1.17994	0.2438253	2.1970670	21	3	1960-1993	0.69	Williams	21978	4116 P-L
4121 P-L	12.8	940217	28.23963	184.03697	199.14715	8.74153	0.1797506	3.0978325	17	3	1960-1993	0.74	Nakano	22694	4121 P-L
4600 P-L	13.1	940217	225.13519	341.05794	136.93131	1.89263	0.1645179	3.1775605	29	6	1949-1993	0.72	Bowell	22601	4600 P-L
4837 P-L	13.4	940217	113.85768	183.00662	9.28720	0.38099	0.1501137	3.1999795	11	3	1955-1977	0.58	Bowell	17975	4837 P-L
6045 P-L	13.0	940217	28.30409	239.05344	205.26570	7.23506	0.1976918	2.7696826	27	5	1960-1993	0.51	Williams	22087	6045 P-L
6583 P-L	14.7	940217	167.07445	274.79438	173.32794	4.14385	0.0991460	2.2834889	12	3	1953-1981	0.65	Bowell	20515	6583 P-L
6615 P-L	14.0	940217	159.83138	180.22675	19.18803	4.70769	0.0931799	2.2327295	14	3	1954-1992	0.65	Bowell	19876	6615 P-L
9511 P-L	13.0	940217	64.85436	101.02403	160.64135	0.85227	0.1293692	3.1623603	36	6	1954-1993	1.02	Williams	22701	9511 P-L
9512 P-L	14.2	940217	301.80727	80.58337	129.47565	1.79534	0.1266743	2.1694300	16	3	1960-1992	0.76	Bowell	21978	9512 P-L
1047 T-1	13.0	940217	256.44115	284.13471	224.55729	5.01305	0.0532306	2.2860827	19	2	1971-1993	0.93	Williams	22694	1047 T-1
1295 T-1	13.9	940217	351.28195	218.07020	193.80633	5.42099	0.0489391	2.9087510	21	4	1953-1991	0.75	Bowell	19878	1295 T-1
2258 T-1	12.9	940217	163.29015	331.82630	27.46636	8.22207	0.2443247	2.4589771	19	4	1956-1992	0.78	Bowell	22087	2258 T-1
3057 T-1	14.5	940217	169.80983	41.86169	230.97515	2.45138	0.0450697	2.5280934	17	3	1971-1991	0.98	Williams	21601	3057 T-1
3196 T-1	13.6	940217	0.33025	315.73613	242.56086	1.82699	0.1504067	2.7481222	20	6	1955-1991	0.90	Bowell	22087	3196 T-1
3271 T-1	13.5	940217	312.59806	286.17902	347.12019	2.03883	0.0251591	2.7244497	17	4	1954-1990	0.90	Williams	22701	3271 T-1
1063 T-2	14.5	940217	138.83476	255.78932	198.23575	1.80129	0.1785332	2.3713420	23	3	1955-1988	0.81	Bowell	15075	1063 T-2
1269 T-2	13.5	940217	299.63668	145.11255	296.29400	0.95681	0.0075983	2.9411014	44	5	1971-1993	1.07	Bowell	22701	1269 T-2

2155 T-2	14.8	940217	38.50217	72.49904	184.39244	4.06289	0.1122831	2.3023257	22	4	1952–1983	0.84	Bowell	15728	2155 T-2
2222 T-2	12.0	940217	170.81861	100.05879	160.07578	4.07000	0.0811537	3.4344866	39	6	1973–1993	1.21	Nakano	21978	2222 T-2
5211 T-2	12.5	940217	357.18603	206.96590	229.09298	9.20835	0.2151488	2.9005373	18	2	1973–1993	0.64	Williams	22695	5211 T-2
1214 T-3	12.5	940217	45.55021	64.92052	326.90691	9.11774	0.0979826	2.9997829	20	4	1977–1993	0.93	Williams	22702	1214 T-3
2158 T-3	14.5	940217	111.60420	358.27475	284.44925	1.75919	0.1277123	2.1786184	43	4	1977–1993	1.00	Williams	22702	2158 T-3
3137 T-3	12.3	940217	16.80351	12.86742	25.07338	10.74491	0.1366982	3.0424512	23	2	1977–1993	0.89	Nakano	22695	3137 T-3
3398 T-3	15.0	940217	259.58248	266.90699	151.66623	2.23228	0.1285089	2.2610681	22	4	1950–1991	0.86	Bowell	20649	3398 T-3
4086 T-3	16.5	940217	47.43974	205.85379	111.94651	3.73753	0.1873695	2.2000346	27	3	1977–1993	0.85	Williams	21978	4086 T-3
5192 T-3	12.5	940217	359.92887	6.50756	69.00968	11.27592	0.0544678	3.0092234	24	4	1977–1993	0.82	Williams	21978	5192 T-3

NEW NAMES OF MINOR PLANETS

(2559) Svoboda = 1981 UH

Discovered 1981 Oct. 23 by A. Mrkos at Kleť.

Named in memory of Jindřich Svoboda (1884–1941), professor of astronomy and geodesy at Prague Polytechnic.

(2643) Bernhard = 1973 SD

Discovered 1973 Sept. 19 by T. Gehrels at Palomar.

Named in honor of H.R.H. Prince Bernhard of the Netherlands, in recognition of his interest in comets and minor planets.

(2747) Český Krumlov = 1980 DW

Discovered 1980 Feb. 19 by A. Mrkos at Kleť.

Named for the historical town on the Vltava river. Kleť Observatory is situated 700 m above the town.

(2811) Střemchoví = 1980 JA

Discovered 1980 May 10 by A. Mrkos at Kleť.

Named for the small village in Moravia where the discoverer was born.

(2847) Parvati = 1959 CC₁

Discovered 1959 Feb. 1 at the Lowell Observatory.

Named for the daughter of the Himalayas and wife of Siva in the mythology of India. She was often portrayed as a beautiful young woman at Siva's side and was instructed by him in the arts of asceticism and dancing. Named by the Minor Planet Names Committee following a suggestion by F. Pilcher.

(2881) Meiden = 1983 AA₁

Discovered 1983 Jan. 12 by B. A. Skiff at the Anderson Mesa Station of the Lowell Observatory.

Named for the hare-god of ancient Lithuanian mythology, Meiden was also deity of animals and forests. Named by the Minor Planet Names Committee following a suggestion by F. Pilcher.

(2886) Tinkaping = 1965 YG

Discovered 1965 Dec. 20 at the Purple Mountain Observatory.

Named in honor of Tinkaping, well-known Hong Kong industrialist, who has made important contributions to health and education.

(2889) Brno = 1981 WT₁

Discovered 1981 Nov. 17 by A. Mrkos at Kleť.

Named for the capital of Moravia.

(2936) Nechvíle = 1979 SF

Discovered 1979 Sept. 17 by A. Mrkos at Kleť.

Named in memory of V. Nechvíle (1890–1964), professor of astronomy at Charles University. During a stay in France he collaborated with J. W. Ritchey and the Henry brothers.

(2971) Mohr = 1980 YL

Discovered 1980 Dec. 30 by A. Mrkos at Kleť.

Named in memory of Josef M. Mohr (1901–1979), professor of astronomy at Charles University, founder of modern stellar astronomy in the former Czechoslovakia.

(3003) Konček = 1983 YH

Discovered 1983 Dec. 28 by A. Mrkos at Kleť.

Named in memory of academician Mikuláš Konček (1900–1982), founder of the Meteorological Institute in Bratislava.

(3014) Huangshushu = 1979 TM

Discovered 1979 Oct. 11 at the Purple Mountain Observatory.

Named in memory of Su-Shu Huang (1915–1977), professor of physics and astronomy at Northwestern University and well-known theoretical astrophysicist. He made many pioneering studies and important contributions, especially on close binary systems. Huang died on a visit to his native China.

(3017) Petrovič = 1981 UL

Discovered 1981 Oct. 25 by A. Mrkos at Kleť.

Named in honor of Štefan Petrovič (1906–), organizer of modern climatology in Slovakia.

(3137) Horoky = 1982 SM₁

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

Named for the hill where the discoverer installed his first telescope in 1939.

(3141) Buchar = 1984 RH

Discovered 1984 Sept. 2 by A. Mrkos at Kleť.

Named in memory of Emil Buchar (1901–1979), professor of astronomy and geodesy at Prague Polytechnic. He was one of the pioneers of satellite geodesy.

(3296) Bosque Alegre = 1975 SF

Discovered 1975 Sept. 30 at the Felix Aguilar Observatory's El Leoncito Station.

Named in honor of the Astrophysical Station of the Córdoba Astronomical Observatory, founded in 1942 some 40 km southwest of Córdoba.

(3388) Tsanghinchi = 1981 YR₁

Discovered 1981 Dec. 21 at the Purple Mountain Observatory.

Named in honor of Tsanghinchi, well-known Chinese industrialist, honorary principal of the Life Science College of Zhongshan University. He has made important contributions to education and culture.

(3399) Kobzon = 1979 SZ₉

Discovered 1979 Sept. 22 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Named in honor of Iosif Davidovich Kobzon, well-known singer in the former Soviet Union.

(3451) Mentor = 1984 HA₁

Discovered 1984 Apr. 19 by A. Mrkos at Kleť.

Named for the father of Imbrius and son of Imbrus at Pedaseus, who allied with the Trojans. Name proposed by A. Mrkos following a suggestion by F. Pilcher.

(3494) Purple Mountain = 1980 XW

Discovered 1980 Dec. 7 at the Purple Mountain Observatory.

Named in honor of the Purple Mountain Observatory (PMO), established in 1934 in the eastern part of Nanjing, near the Yangtse River. Research undertaken at PMO includes celestial mechanics, astrophysics, and radio and space astronomy. Four comets and over one hundred numbered minor planets have been discovered at PMO. The observatory has also played an important role in developing modern Chinese astronomy.

(3764) Holmesacourt = 1980 TL₁₅

Discovered 1980 Oct. 10 by A. McNay at the Perth Observatory.

Named in honor of Robert Holmes a Court (1937–1990), a leading Australian lawyer, businessman and collector. Holmes a Court was born in South Africa and studied in New Zealand and Australia. He practised law for a number of years before embarking on a business career and developed a world-ranking reputation for original and lateral thinking in every pursuit, from art and bloodstock to corporate management and philanthropy. He was described by his peers as a renaissance man and a citizen of the world.

(3872) Akirafujii = 1983 AV

Discovered 1983 Jan. 12 by B. Skiff at the Anderson Mesa Station of the Lowell Observatory.

Named for Japan's highly talented and renowned astrophotographer, Akira Fujii of Koriyama. He edited the quarterly magazine *Hoshi No Techou* ('star handbook') and is the author of a beautifully illustrated series of popular astronomy books for young people. Fujii has fostered public awareness of astronomy through television broadcasts from his Chiro Observatory in Shirakawa (Fukushima prefecture), and he toured Japan in 1986, offering the public views of Halley's Comet with a trailer-mounted 60-cm reflector. Fujii is best known outside of Japan for his stunning celestial photographs, a hallmark of which is technical perfection. Name proposed by D. di Cicco and R. W. Sinnott and endorsed by the discoverer.

(3913) Chemin = 1986 XO₂

Discovered 1986 Dec. 2 at Caussols.

Named in honor of Henriette and Robert Chemin, who, after many years at the Paris Observatory as librarian and engineer, respectively, observed, discovered and measured many asteroids on plates taken at the Caussols Schmidt Telescope. After Henriette's death in 1991, Robert retired and started popularizing and teaching astronomy. Name suggested by J.-L. Heudier and C. Pollas.

(4328) Valina = 1982 SQ₂

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

Named in honor of Valentina Arkadievna Andreichenko (and her daughter Alina Eduardovna) for her collaboration with the discoverer in the Tomsk-Observatory-Brussels-Program, which was created in order to realize observations, in particular at the European Southern Observatory at La Silla, as well as orbital improvements and theoretical works in astrometry and celestial mechanics. Valentina has participated in expeditions to the site of the 1908 Tunguska event.

(4362) Carlisle = 1978 PR₄

Discovered 1978 Aug. 1 by P. Jekabsons at the Perth Observatory.

Named in honor of Albert John Carlisle (1917–1993), who spent his life working in the Australian Bush. As a consequence, John Carlisle found more than 9000 meteorites on the Nullarbor Plain of Western Australia during the past 52 years. In 1982 he was awarded an Order of Australia Medal for his contribution to science.

(4410) Kamuimintara = 1989 YA

Discovered 1989 Dec. 17 by S. Ueda and H. Kaneda at Kushiro.

Kamuimintara is the name given by the Ainu, Hokkaido's indigenous people, to Hokkaido's highest peak, Mt. Taisetsu. In the Ainu language the name means 'Playground of the Gods'. Name proposed by J. Ueda.

(4469) Utting = 1978 PS₄

Discovered 1978 Aug. 1 by P. Jekabsons at the Perth Observatory.

Named in honor of Muriel Janet Utting (1914–), the Perth Observatory's honorary historian since 1985. Her researches include a history of the observatory since its foundation to the present day, and these will form theses for higher degrees at Murdoch University in 1994 and 1996, the observatory's centenary year.

(4742) Caliumi = 1986 WG

Discovered 1986 Nov. 26 at the Osservatorio San Vittore.

Named in memory of Ferdinando Caliumi (1915–1993), well-known Italian amateur astronomer, generous constructor and restorer of astronomical telescopes. He was a great friend to the amateur astronomers at the discovery site, and he was also a member of both the Italian Astronomical Society and of the Unione Astrofili Italiani.

(4747) Jujo = 1989 WB

Discovered 1989 Nov. 19 by S. Ueda and H. Kaneda at Kushiro.

Named for the place where the first discoverer works.

(4957) Brucemurray = 1990 XJ

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

Named in honor of Bruce C. Murray, professor of planetary science at the California Institute of Technology and former director of the NASA/Caltech Jet Propulsion Laboratory. As co-founder of The Planetary Society, he has been instrumental in making science accessible and understandable to the general public. This minor planet is a deep Mars-crosser, coming within 0.2 AU of the earth at perihelion, and it is a particularly appropriate object for Murray, who has so diligently championed a mission to Mars. Future spacecraft missions could flyby or rendezvous with (4957) on the way to Mars. This tribute to 'BC' is hailed by his family, friends and colleagues.

(5053) Chladni = 1985 FB₂

Discovered 1985 Mar. 22 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Ernst Florens Friedrich Chladni (1756–1827), German meteoriticist. Generally regarded as the ‘Father of Meteoritics’, Chladni was initially trained as a lawyer. He never held a permanent position, but he traveled among the great cities of Europe giving lectures. It was on these travels that Chladni’s interest turned to meteorites, and in 1794 he published a pioneering book in which he presented convincing evidence that meteorites originate in space. Never before or since has the birth of a scientific discipline been so closely associated with the publication of a single book. Name suggested and citation prepared by T. J. McCoy, who also recently recognized Chladni by the naming of a mineral—chladniite.

(5054) Keil = 1986 AO₂

Discovered 1986 Jan. 12 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Klaus Keil (1934–), American meteoriticist. An authority on the petrology of enstatite meteorites, Keil has also studied almost every other group of meteorites. He has headed active meteorite research groups at the University of New Mexico and the University of Hawaii. He was awarded the Leonard Medal of the Meteoritical Society, the highest award bestowed by that body, in 1988. Recently, Keil has been actively involved in spectral studies of meteorites as asteroid analogues. His work on shock-darkened meteorites and gas-rich regolith breccias has increased our understanding of the spectral properties of asteroidal surfaces. Name suggested and citation prepared by T. J. McCoy.

(5058) Tarrega = 1987 OM

Discovered 1987 July 28 by T. Seki at Geisei.

Named in honor of Francisco Tarrega, modern Spanish guitarist.

(5095) Escalante = 1983 NL

Discovered 1983 July 10 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Jaime Escalante, a mathematics teacher who has inspired thousands of underprivileged high school students to use academic accomplishment to rise above the harsh realities of the inner city. In 1982, his work at Garfield High School in Los Angeles attracted national attention when fourteen of his students passed the mathematics Advanced Placement exam, were accused of cheating, were retested, and passed again. Escalante, an immigrant from Bolivia, had been acclaimed as a teacher in his native country, but in the U.S. he was required to repeat college to obtain teaching credentials. Citation by S. Ostro, who assisted the making of the movie *Stand and Deliver*, which dramatized the story of Escalante’s calculus students at Garfield.

(5105) Westerhout = 1986 TM₁

Discovered 1986 Oct. 4 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Gart Westerhout, radio astronomer, on the occasion of his retirement as scientific director of the U.S. Naval Observatory. Westerhout developed the astronomy program at the University of Maryland into one of the best in the U.S. At the Naval Observatory, his incisive leadership and pioneering work in interferometric astrometry, including development of the first radio interferometer dedicated to astrometry, led to substantial advances in precise position, motion and time determination. Name suggested and citation prepared by R. H. McCracken.

(5111) Jacliff = 1987 SE₄

Discovered 1987 Sept. 29 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Clifford (1929–1993) and Jackie (1935–) Holmes. With his wife Jackie’s backing and support, Cliff was for decades an astronomical observer, organizer and educator. Cliff and Jackie founded the Riverside Telescope Makers’ Conference in 1969; from small beginnings it has become a leading event for amateur astronomers and is known worldwide. After retirement, Cliff began a second career as an educator, teaching astronomy courses at Riverside City College. Name suggested by D. H. Levy, J. Young and S. J. Edberg, citation prepared by Edberg.

(5141) Tachibana = 1990 YB

Discovered 1990 Dec. 16 by T. Seki at Geisei.

Tachibana is a Kendo club formed in 1950 in Kochi prefecture. Kendo is a sport similar to fencing in the same category as judo in Japan. The discoverer is a member of this club, the name of which means ‘mandarin orange’.

(5169) Duffell = 1986 RU₂

Discovered 1986 Sept. 6 by E. Bowell at the Anderson Mesa Station of Lowell Observatory.

Named in honor of Stephen Duffell (1943–), a long-time friend of the discoverer, on the occasion of his 50th birthday in November 1993.

(5170) Sissons = 1987 EH

Discovered 1987 Mar. 3 by E. Bowell at the Anderson Mesa Station of Lowell Observatory.

Named in honor of Anthony Sissons (1943–), a long-time friend of the discoverer, on the occasion of his 50th birthday in November 1993.

(5203) Pavarotti = 1984 SF₁

Discovered 1984 Sept. 27 by Z. Vávrová at Kleť.

Named in honor of Luciano Pavarotti (1935–), world-famous Italian opera singer.

(5279) Arthuradel = 1988 LA

Discovered 1988 June 8 by T. Rodriguez at Palomar.

Named in honor of Arthur Adel, a pioneer in the field of infrared spectroscopy and upper atmospheric research. Much of his work was pursued at the Atmospheric Research Observatory, built for his use in 1952 on the campus of Northern Arizona University at Flagstaff. In the 1950s and 1960s he discovered atmospheric nitrous oxide, atmospheric heavy water and the 20-micron window, and he prepared the first maps of the solar-telluric spectrum from 7 to 14 microns. Name endorsed by E. M. and C. S. Shoemaker.

(5393) Goldstein = 1986 ET

Discovered 1986 Mar. 5 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Named in honor of Richard M. Goldstein (1927–), radar astronomer at the Jet Propulsion Laboratory, on the occasion of the twenty-fifth anniversary of his detection of the first radar echoes from a minor planet (1566 Icarus in June 1968). Goldstein also led observations that resulted in the first radar detections of Mars and of Saturn’s rings and in the discovery of the anomalous rotation of Venus. Name suggested and citation provided by S. J. Ostro.

(5498) Gustafsson = 1980 FT₃

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

Named in honor of Bengt Gustafsson, professor of theoretical astrophysics at and director of the Uppsala Astronomical Observatory, on the completion of his first half centennial.

(5518) Mariobotta = 1989 YF

Discovered 1989 Dec. 30 by J. M. Baur at Chions.

Named in honor of Mario Botta, Swiss architect. His buildings are influenced by his early meetings with Le Corbusier and Louis Kahn and are inspired by the belief that 'every building has its own individual surroundings'. Botta also lectures and is an honorary fellow of the American Institute of Architects.

(5553) Chodas = 1984 CM₁

Discovered 1984 Feb. 6 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Paul W. Chodas (1952–) is a member of the Solar System Dynamics Group at the Jet Propulsion Laboratory. His work has contributed to the understanding of cometary nongravitational forces, the use of radar data in asteroidal and cometary orbits, orbital error analyses, earth close approaches and impact probabilities. He developed the system that allowed the use of radar landmark data on the surface of Venus for improved orbital solutions of the Magellan spacecraft. Citation prepared by D. K. Yeomans, a colleague of the honoree.

(5554) Keesey = 1985 TW₁

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

Michael S. W. Keesey (1937–) is a member of the Solar System Dynamics Group at the Jet Propulsion Laboratory. He began his career at JPL in 1970, and his knowledge of fundamental astronomy and celestial mechanics has been put to good use in the ephemeris development efforts for those planets, comets and minor planets that have been mission candidates or targets of ground-based observations. Citation prepared by D. K. Yeomans, a colleague of the honoree.

(5555) Wimberly = 1986 VF₅

Discovered 1986 Nov. 5 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Ravenel N. Wimberly (1946–) is a member of the Solar System Dynamics Group at the Jet Propulsion Laboratory. His intimate knowledge of various computer systems has proven invaluable in helping organize and carry out the ephemeris development efforts for the comet and asteroid targets of several flyby missions. Citation prepared by D. K. Yeomans, a colleague of the honoree.

(5593) Jonsujatha = 1991 JN₁

Discovered 1991 May 9 by E. F. Helin at Palomar.

Named in honor of Jonathan Brian Marsden and Sujatha Nagarajan on the occasion of their wedding on 1993 Nov. 14 in Lexington, Massachusetts. Jon and Sujatha are talented young professionals who are friends and neighbors of the discoverer in California. Hearty good wishes are extended to them for a long, healthy and happy life together.

(5616) Vogtland = 1987 ST₁₀

Discovered 1987 Sept. 29 by F. Börngen at Tautenburg.

Named after the mountainous district of Germany that lies partly in Saxony, Thuringia, Bavaria and Bohemia.

(5624) Shirley = 1991 AY₁

Discovered 1991 Jan. 11 by E. F. Helin at Palomar.

Named in honor of Mr. and Mrs. William J. Shirley in recognition of their generous, enthusiastic support of Caltech and Mt. Wilson Observatory. They have preserved and restored the Hale Solar Observatory in San Marino, a landmark of scientific and historical significance that they share generously with the community and educational groups for visits and study. Name endorsed by their many friends.

(5630) Billschaefer = 1993 FZ

Discovered 1993 Mar. 21 by J. B. Child on films taken at Palomar by E. F. Helin *et al.*

Named in honor of William Schaefer, telescope maker and amateur astronomer. For over forty years Bill Schaefer has been producing precision telescopes for amateur astronomers throughout the United States. His enthusiasm, skill and creativity have sparked the interest and involvement of hundreds of people, young and old, and have raised the quality of amateur astronomy in the Southern California community. He has patiently shared his knowledge with other telescope makers, and his award-winning telescopes will serve serious observers throughout the world for many years to come.

(5636) Jacobson = 1985 QN

Discovered 1985 Aug. 22 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Robert A. Jacobson (1944–) is a noted authority on spacecraft navigation techniques, and he is currently developing ephemerides for natural satellites at the Jet Propulsion Laboratory. He was instrumental in generating the accurate satellite ephemerides used by the Voyager 2 spacecraft project during its encounters with Uranus and Neptune. These ephemerides were developed using both ground-based astrometry and spacecraft optical navigation data. Citation prepared by D. K. Yeomans, a colleague of the honoree.

(5689) Rhön = 1991 RZ₂

Discovered 1991 Sept. 9 by F. Börngen and L. D. Schmadel at Tautenburg.

Named for the range of young volcanic mountains that lie across Bavaria, Hesse and Thuringia. Name proposed by the first discoverer, who considers this region to be one of the most beautiful in Germany.

EPHEMERIDES

1993 UB		<i>a, e, i = 2.27, 0.46, 25</i>				Elements <i>MPC 22796</i>	
Date TT	α_{2000}	δ_{2000}	Δ	<i>r</i>	ϵ	ϕ	<i>V</i>
1993 11 19	23 51.86	+25 41.6	0.343	1.229	127.8	39.4	16.2
1993 11 29	23 45.19	+34 44.5	0.396	1.228	119.1	44.6	16.6
1993 12 09	23 47.61	+41 42.9	0.457	1.237	112.9	47.2	17.0
1993 12 19	23 58.67	+47 14.5	0.522	1.254	108.8	48.0	17.4
1993 12 29	00 18.09	+51 46.0	0.590	1.279	106.0	47.7	17.7
1994 01 08	00 45.85	+55 29.4	0.660	1.311	104.1	46.7	18.0
1994 01 18	01 22.14	+58 26.7	0.732	1.350	102.8	45.3	18.2
1994 01 28	02 06.49	+60 33.3	0.806	1.394	101.7	43.8	18.4
1994 02 07	02 57.08	+61 40.5	0.886	1.442	100.6	42.2	18.7
1994 02 17	03 50.71	+61 43.1	0.971	1.494	99.4	40.7	18.9
1994 02 27	04 43.44	+60 43.6	1.062	1.548	97.9	39.3	19.1
1994 03 09	05 32.13	+58 51.4	1.162	1.605	95.9	38.0	19.4
1994 03 19	06 15.47	+56 20.4	1.270	1.662	93.6	36.7	19.6
1994 03 29	06 53.43	+53 24.3	1.386	1.721	90.9	35.4	19.8
1994 04 08	07 26.65	+50 13.9	1.511	1.780	87.8	34.2	20.1
1994 04 18	07 56.03	+46 56.9	1.643	1.839	84.3	32.9	20.3

1992 JB								$a, e, i = 1.56, 0.36, 16$				Elements <i>MPC</i> 22816								
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V												
1993 11 19		08 11.19	-04 54.8	0.596	1.306	108.6	45.8	19.2	1994 01 18	01 57.36	+17 16.1	1.801	2.135	95.6	27.3	17.6				
1993 11 29		08 37.85	-12 49.6	0.526	1.254	108.1	48.4	18.9	1994 01 28	02 11.44	+18 29.1	1.910	2.133	89.0	27.5	17.7				
1993 12 09		09 07.12	-21 46.2	0.472	1.203	105.8	52.0	18.7	1994 02 07	02 27.28	+19 45.7	2.020	2.134	82.8	27.3	17.8				
1993 12 19		09 40.71	-31 15.6	0.434	1.155	101.9	56.5	18.5	1994 02 17	02 44.68	+21 03.4	2.131	2.138	77.0	26.8	17.9				
1993 12 29		10 21.36	-40 31.5	0.410	1.110	96.9	61.6	18.5	1994 02 27	03 03.41	+22 19.5	2.242	2.145	71.5	26.0	18.1				
1994 01 08		11 12.73	-48 39.3	0.397	1.071	91.6	66.6	18.5	1994 03 09	03 23.28	+23 31.7	2.353	2.155	66.3	25.0	18.2				
1994 01 18		12 17.91	-54 40.4	0.392	1.039	86.8	71.0	18.5	1994 03 19	03 44.13	+24 37.9	2.462	2.167	61.2	23.8	18.3				
1994 01 28		13 35.54	-57 42.9	0.393	1.015	83.0	74.4	18.6	1994 03 29	04 05.79	+25 36.2	2.570	2.181	56.3	22.4	18.4				
1994 02 07		14 55.70	-57 26.0	0.396	1.000	80.5	76.5	18.7	1994 04 08	04 28.09	+26 24.9	2.675	2.198	51.6	20.9	18.6				
1994 02 17		16 05.90	-54 16.4	0.400	0.997	79.5	77.2	18.7	1994 04 18	04 50.88	+27 02.9	2.778	2.217	47.0	19.3	18.7				
1994 02 27		17 01.22	-49 08.5	0.405	1.003	80.1	76.5	18.7	1994 04 28	05 13.99	+27 29.3	2.877	2.239	42.4	17.7	18.8				
1994 03 09		17 43.23	-42 52.6	0.410	1.020	82.0	74.5	18.7	1994 05 08	05 37.25	+27 43.3	2.972	2.263	37.9	15.9	18.9				
1994 03 19		18 14.73	-36 02.0	0.414	1.047	85.3	71.5	18.7	1994 05 18	06 00.52	+27 44.9	3.063	2.288	33.4	14.1	19.0				
1994 03 29		18 38.00	-28 56.4	0.417	1.081	89.8	67.5	18.6	Periodic Comet Shoemaker-Levy 9 (1993e)							Elements <i>MPC</i> 22793				
1994 04 08		18 54.39	-21 48.6	0.420	1.121	95.4	62.7	18.6	Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1			
1994 04 18		19 04.30	-14 47.3	0.421	1.167	102.0	57.3	18.5	1993 11 29		13 58.25	-12 58.8	6.185	5.405	34.8	6.0	14.3			
1994 04 28		19 07.91	-08 01.6	0.424	1.216	109.5	51.3	18.5	1993 12 09		14 05.83	-13 38.6	6.081	5.403	43.0	7.1	14.2			
1994 05 08		19 05.20	-01 43.5	0.430	1.268	117.7	44.8	18.4	1993 12 19		14 12.99	-14 15.2	5.960	5.400	51.3	8.2	14.2			
1994 05 18		18 56.30	+03 49.0	0.441	1.320	126.1	38.2	18.4	1993 12 29		14 19.59	-14 48.1	5.825	5.398	59.8	9.1	14.1			
1994 05 28		18 42.23	+08 14.4	0.460	1.373	134.0	32.1	18.4	1994 01 08		14 25.52	-15 16.8	5.678	5.396	68.5	9.8	14.1			
1994 06 07		18 24.90	+11 14.4	0.490	1.426	140.1	27.1	18.4	1994 01 18		14 30.67	-15 40.9	5.522	5.394	77.4	10.3	14.0			
1994 06 17		18 06.99	+12 41.4	0.533	1.479	143.4	24.2	18.6	1994 01 28		14 34.90	-16 00.0	5.361	5.392	86.5	10.5	14.0			
1994 06 27		17 51.28	+12 44.0	0.590	1.530	143.1	23.5	18.9	1994 02 07		14 38.11	-16 13.7	5.199	5.390	95.8	10.5	13.9			
1994 07 07		17 39.50	+11 42.2	0.659	1.579	139.9	24.5	19.2	1994 02 17		14 40.19	-16 21.7	5.040	5.388	105.4	10.2	13.8			
1994 07 17		17 32.42	+09 58.3	0.742	1.627	134.9	26.2	19.6	1994 02 27		14 41.07	-16 23.8	4.889	5.387	115.3	9.6	13.8			
1994 07 27		17 29.96	+07 52.5	0.836	1.673	129.1	28.1	20.0	1994 03 09		14 40.74	-16 19.7	4.749	5.386	125.4	8.6	13.7			
1994 08 06		17 31.57	+05 38.9	0.939	1.718	123.0	29.7	20.3	1994 03 19		14 39.22	-16 09.7	4.626	5.385	135.8	7.4	13.6			
1992 HE								$a, e, i = 2.24, 0.57, 37$				Elements <i>MPC</i> 22815								
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V	1994 03 29		14 36.62	-15 53.8	4.524	5.384	146.4	5.9	13.6			
1993 11 19		08 40.44	+63 17.4	2.940	3.458	113.7	15.2	19.9	1994 04 08		14 33.13	-15 32.9	4.447	5.383	157.1	4.1	13.5			
1993 11 29		08 37.05	+65 22.8	2.870	3.470	120.1	14.2	19.8	1994 04 18		14 29.00	-15 07.9	4.397	5.383	168.0	2.2	13.5			
1993 12 09		08 27.66	+67 24.8	2.816	3.482	125.5	13.3	19.7	1994 04 28		14 24.54	-14 40.3	4.377	5.383	178.9	0.2	13.5			
1993 12 19		08 11.32	+69 12.4	2.783	3.492	129.4	12.6	19.7	1994 05 08		14 20.11	-14 11.7	4.387	5.384	170.2	1.8	13.5			
1993 12 29		07 48.2	+70 32.5	2.771	3.500	131.4	12.2	19.7	1994 05 18		14 16.04	-13 44.0	4.426	5.385	159.4	3.8	13.5			
1994 01 08		07 20.3	+71 13.9	2.782	3.507	131.1	12.2	19.7	1994 05 28		14 12.64	-13 18.8	4.493	5.386	148.9	5.6	13.6			
1994 01 18		06 51.9	+71 11.1	2.815	3.513	128.5	12.7	19.7	1994 06 07		14 10.13	-12 57.6	4.585	5.389	138.6	7.1	13.6			
1994 01 28		06 27.3	+70 28.1	2.869	3.517	124.1	13.4	19.8	1994 06 17		14 08.70	-12 41.2	4.698	5.392	128.7	8.5	13.7			
1994 02 07		06 09.30	+69 15.5	2.942	3.520	118.4	14.3	19.9	1994 06 27		14 08.47	-12 30.2	4.829	5.396	119.0	9.5	13.7			
1994 02 17		05 58.53	+67 45.0	3.030	3.522	112.0	15.1	20.0	1994 07 07		14 09.51	-12 24.3	4.973	5.401	109.7	10.2	13.8			
1994 02 27		05 54.25	+66 06.8	3.129	3.522	105.3	15.7	20.1	1994 07 17		14 11.96	-12 22.0	5.128	5.410	100.7	10.6	13.9			
1994 03 09		05 55.25	+64 27.6	3.237	3.521	98.3	16.2	20.2	1991 NR₂							Elements <i>MPC</i> 19506				
1994 03 19		06 00.39	+62 50.9	3.350	3.518	91.4	16.4	20.2	Date	TT	α_{2000}	δ_{2000}	Δ	r	Variation		V			
Periodic Comet Spitaler (1993r)								Elements <i>MPC</i> 22793				1993 12 09		10 18.69	-01 09.4	3.415	3.713	-0.39	+3.7	20.4
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1	1993 12 19		10 18.88	-02 02.0	3.261	3.706	-0.41	+3.9	20.2			
1993 11 29		01 23.96	+13 30.5	1.351	2.182	137.4	17.8	17.0	1993 12 29		10 17.22	-02 46.0	3.116	3.698	-0.43	+4.1	20.1			
1993 12 09		01 24.74	+13 50.9	1.421	2.167	127.6	21.1	17.1	1994 01 08		10 13.65	-03 19.7	2.984	3.690	-0.45	+4.3	19.9			
1993 12 19		01 28.71	+14 24.7	1.504	2.155	118.6	23.6	17.2	1994 01 18		10 08.21	-03 41.2	2.871	3.680	-0.47	+4.5	19.8			
1993 12 29		01 35.69	+15 11.5	1.597	2.146	110.3	25.5	17.3	1994 01 28		10 01.15	-03 49.2	2.781	3.670	-0.49	+4.7	19.6			
1994 01 08		01 45.34	+16 09.3	1.696	2.139	102.6	26.7	17.4	1994 02 07		09 52.87	-03 43.4	2.719	3.659	-0.50	+4.9	19.4			
									1994 02 17		09 43.97	-03 24.6	2.687	3.647	-0.50	+5.0	19.3			
									1994 02 27		09 35.17	-02 55.1	2.686	3.634	-0.50	+5.0	19.4			
									1994 03 09		09 27.14	-02 18.4	2.715	3.620	-0.48	+4.9	19.5			

1994 03 19	09 20.48	-01 38.4	2.771	3.606	-0.47	+4.8	19.6
1994 03 29	09 15.60	-00 59.1	2.851	3.590	-0.44	+4.7	19.8
1994 04 08	09 12.69	-00 23.6	2.949	3.574	-0.42	+4.5	19.9
1994 04 18	09 11.81	+00 05.6	3.061	3.556	-0.40	+4.3	20.0
1994 04 28	09 12.87	+00 26.9	3.181	3.538	-0.38	+4.1	20.1

1989 CC₁		$a, e, i = 2.79, 0.42, 29$				Elements <i>MPC</i> 22431		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1993 12 09	12 45.17	+02 38.9	2.772	2.568	67.8	20.8	18.3	
1993 12 19	12 56.87	+02 53.8	2.683	2.614	75.4	21.4	18.3	
1993 12 29	13 07.16	+03 25.2	2.588	2.660	83.3	21.5	18.2	
1994 01 08	13 15.84	+04 14.7	2.491	2.705	91.7	21.3	18.2	
1994 01 18	13 22.65	+05 23.7	2.394	2.749	100.5	20.6	18.1	
1994 01 28	13 27.37	+06 52.7	2.303	2.793	109.7	19.4	18.0	
1994 02 07	13 29.76	+08 41.0	2.220	2.835	119.2	17.7	17.9	
1994 02 17	13 29.65	+10 45.9	2.151	2.878	129.0	15.5	17.8	
1994 02 27	13 27.04	+13 02.3	2.101	2.919	138.7	12.9	17.7	
1994 03 09	13 22.10	+15 22.4	2.075	2.960	147.4	10.4	17.6	
1994 03 19	13 15.24	+17 36.7	2.075	3.000	153.7	8.4	17.6	
1994 03 29	13 07.16	+19 35.4	2.103	3.039	155.4	7.9	17.6	
1994 04 08	12 58.70	+21 10.6	2.159	3.078	151.7	8.9	17.7	
1994 04 18	12 50.72	+22 17.8	2.242	3.115	144.6	10.8	17.9	
1994 04 28	12 43.98	+22 56.2	2.349	3.152	136.1	12.8	18.1	
1994 05 08	12 38.95	+23 08.0	2.475	3.188	127.2	14.6	18.3	
1994 05 18	12 35.90	+22 57.0	2.616	3.224	118.5	16.0	18.5	
1994 05 28	12 34.88	+22 27.4	2.769	3.258	110.0	17.0	18.7	
1994 06 07	12 35.78	+21 43.5	2.929	3.292	101.9	17.6	18.8	
1994 06 17	12 38.45	+20 48.7	3.094	3.325	94.1	17.7	19.0	
1994 06 27	12 42.66	+19 45.9	3.259	3.357	86.6	17.6	19.1	

1992 CC₁		$a, e, i = 1.39, 0.37, 37$				Elements <i>MPC</i> 21977		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1993 12 29	13 35.21	-17 21.8	2.010	1.897	69.1	29.0	18.7	
1994 01 08	13 45.98	-20 45.2	1.893	1.906	75.7	30.0	18.6	
1994 01 18	13 55.34	-24 17.6	1.771	1.911	82.5	30.7	18.5	
1994 01 28	14 02.85	-28 01.7	1.648	1.913	89.6	31.0	18.3	
1994 02 07	14 07.89	-32 00.0	1.525	1.913	96.8	30.8	18.1	
1994 02 17	14 09.49	-36 13.6	1.408	1.909	104.2	30.1	18.0	
1994 02 27	14 06.36	-40 40.8	1.299	1.902	111.6	28.9	17.7	
1994 03 09	13 56.76	-45 14.3	1.203	1.892	118.7	27.4	17.5	
1994 03 19	13 38.55	-49 36.7	1.123	1.879	124.9	25.8	17.3	
1994 03 29	13 10.22	-53 18.1	1.063	1.863	129.2	24.5	17.1	
1994 04 08	12 32.74	-55 41.7	1.026	1.844	130.9	24.2	17.0	
1994 04 18	11 51.63	-56 20.9	1.011	1.822	129.5	25.2	17.0	
1994 04 28	11 14.98	-55 22.7	1.015	1.797	125.4	27.2	17.0	
1994 05 08	10 48.08	-53 21.9	1.036	1.769	119.7	29.7	17.1	
1994 05 18	10 31.88	-50 58.8	1.068	1.737	113.3	32.3	17.2	
1994 05 28	10 24.84	-48 43.3	1.106	1.703	106.9	34.7	17.3	
1994 06 07	10 24.96	-46 51.1	1.145	1.666	100.8	36.8	17.4	
1994 06 17	10 30.67	-45 29.2	1.182	1.625	95.1	38.5	17.5	
1994 06 27	10 40.85	-44 39.1	1.215	1.582	89.9	40.0	17.5	

(5693) 1993 EA		$a, e, i = 1.27, 0.59, 5$				Elements <i>MPC</i> 22585		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	V
1994 01 08	00 14.14	+02 18.8	0.154	0.959	76.6	94.4	16.2	
1994 01 18	02 48.00	+21 03.4	0.203	1.065	108.1	61.5	15.9	
1994 01 28	04 15.14	+27 03.7	0.308	1.164	118.6	47.9	16.6	
1994 02 07	05 04.13	+28 42.4	0.433	1.258	119.5	43.1	17.3	
1994 02 17	05 37.25	+29 05.7	0.571	1.345	116.7	41.0	18.0	
1994 02 27	06 03.33	+29 00.3	0.716	1.426	112.4	40.0	18.6	
1994 03 09	06 25.95	+28 40.2	0.867	1.501	107.4	39.2	19.1	
1994 03 19	06 46.79	+28 10.0	1.024	1.570	102.0	38.3	19.6	
1994 03 29	07 06.63	+27 31.9	1.183	1.633	96.6	37.4	19.9	
1994 04 08	07 25.84	+26 46.8	1.344	1.692	91.1	36.3	20.3	

Periodic Comet Smirnova-Chernykh						Elements <i>MPC</i> 14593		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1
1994 01 08	16 37.67	-20 36.1	4.697	3.954	36.8	8.6	19.3	
1994 01 18	16 48.97	-21 02.4	4.610	3.966	44.3	10.0	19.3	
1994 01 28	16 59.67	-21 24.7	4.509	3.978	51.9	11.2	19.3	
1994 02 07	17 09.64	-21 43.5	4.395	3.991	59.8	12.3	19.2	
1994 02 17	17 18.71	-21 59.2	4.271	4.003	67.7	13.2	19.2	
1994 02 27	17 26.74	-22 12.3	4.139	4.015	75.9	13.8	19.1	
1994 03 09	17 33.55	-22 23.4	4.002	4.028	84.4	14.2	19.1	
1994 03 19	17 38.98	-22 33.2	3.862	4.040	93.1	14.2	19.0	
1994 03 29	17 42.88	-22 42.2	3.724	4.053	102.1	13.9	18.9	
1994 04 08	17 45.12	-22 50.9	3.591	4.065	111.4	13.3	18.9	
1994 04 18	17 45.57	-22 59.5	3.467	4.078	121.1	12.2	18.8	
1994 04 28	17 44.23	-23 08.3	3.356	4.090	131.2	10.7	18.7	
1994 05 08	17 41.16	-23 16.9	3.264	4.103	141.6	8.8	18.7	
1994 05 18	17 36.53	-23 24.9	3.193	4.115	152.3	6.6	18.7	
1994 05 28	17 30.67	-23 32.0	3.147	4.128	163.2	4.1	18.6	
1994 06 07	17 24.03	-23 37.7	3.129	4.140	174.3	1.4	18.6	
1994 06 17	17 17.15	-23 41.9	3.140	4.153	174.5	1.3	18.7	
1994 06 27	17 10.59	-23 44.8	3.180	4.165	163.5	4.0	18.7	
1994 07 07	17 04.85	-23 47.0	3.248	4.178	152.6	6.4	18.8	
1994 07 17	17 00.36	-23 49.4	3.341	4.190	142.1	8.6	18.8	
1994 07 27	16 57.39	-23 52.6	3.456	4.202	131.9	10.4	18.9	
1994 08 06	16 56.08	-23 57.3	3.588	4.215	122.0	11.8	19.0	
1994 08 16	16 56.47	-24 03.6	3.734	4.227	112.5	12.8	19.1	
1994 08 26	16 58.52	-24 11.8	3.890	4.239	103.4	13.4	19.2	
1994 09 05	17 02.12	-24 21.4	4.051	4.251	94.5	13.7	19.3	
1994 09 15	17 07.17	-24 32.1	4.214	4.263	86.0	13.6	19.4	
1994 09 25	17 13.49	-24 43.3	4.376	4.275	77.7	13.2	19.5	
1994 10 05	17 20.96	-24 54.4	4.533	4.287	69.6	12.6	19.6	
1994 10 15	17 29.44	-25 04.9	4.683	4.299	61.6	11.8	19.7	
1994 10 25	17 38.78	-25 14.0	4.823	4.311	53.8	10.7	19.8	
1994 11 04	17 48.84	-25 21.4	4.951	4.323	46.1	9.5	19.8	
1994 11 14	17 59.52	-25 26.4	5.065	4.335	38.5	8.2	19.9	
1994 11 24	18 10.67	-25 28.9	5.163	4.346	30.9	6.7	19.9	

1993 VA		$a, e, i = 1.37, 0.40, 7$				Elements <i>MPC</i> 22796		
Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	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 07 07	00 56.02	+12 33.6	1.652	1.894	87.0	32.4	18.8
1994 02 17	16 46.17	-12 21.2	0.547	1.013	76.7	71.6	18.2	1994 07 17	01 11.88	+14 59.2	1.569	1.899	92.0	32.3	18.7
1994 02 27	17 03.60	-11 03.3	0.567	1.075	82.5	66.0	18.3	1994 07 27	01 26.27	+17 15.4	1.489	1.907	97.4	31.9	18.6
1994 03 09	17 17.50	-09 41.3	0.575	1.139	89.1	60.6	18.2	1994 08 06	01 38.82	+19 20.2	1.413	1.919	103.3	30.9	18.5
1994 03 19	17 27.07	-08 13.9	0.573	1.203	96.4	55.3	18.2	1994 08 16	01 49.07	+21 11.6	1.341	1.935	109.8	29.5	18.4
1994 03 29	17 31.54	-06 42.3	0.564	1.266	104.9	49.6	18.1	1994 08 26	01 56.58	+22 47.2	1.275	1.954	117.0	27.4	18.2
1994 04 08	17 30.12	-05 09.4	0.551	1.328	114.5	43.3	18.0	1994 09 05	02 00.92	+24 04.3	1.217	1.977	125.0	24.7	18.1
1994 04 18	17 22.13	-03 41.2	0.539	1.387	125.4	36.2	17.8	1994 09 15	02 01.79	+24 59.1	1.170	2.002	133.8	21.3	17.9
1994 04 28	17 07.65	-02 27.1	0.533	1.444	137.2	28.3	17.7	1994 09 25	01 59.27	+25 28.3	1.136	2.030	143.2	17.2	17.7
1994 05 08	16 47.93	-01 38.0	0.539	1.498	149.2	20.2	17.5	1994 10 05	01 53.86	+25 29.3	1.119	2.061	153.0	12.7	17.6
1994 05 18	16 25.63	-01 23.6	0.563	1.549	158.6	13.8	17.5	1994 10 15	01 46.60	+25 02.2	1.123	2.095	162.1	8.4	17.4
								1994 10 25	01 38.95	+24 12.1	1.149	2.130	167.0	6.0	17.4
								1994 11 04	01 32.30	+23 07.7	1.199	2.167	163.1	7.7	17.6
								1994 11 14	01 27.80	+21 59.9	1.273	2.207	154.3	11.2	17.9
								1994 11 24	01 26.05	+20 58.3	1.368	2.247	144.6	14.7	18.3
								1994 12 04	01 27.18	+20 09.4	1.483	2.289	135.1	17.7	18.6
								1994 12 14	01 31.05	+19 36.3	1.615	2.333	125.9	20.0	18.9
								1994 12 24	01 37.34	+19 19.3	1.760	2.377	117.3	21.6	19.2
								1995 01 03	01 45.68	+19 17.2	1.916	2.422	109.0	22.6	19.4
								1995 01 13	01 55.74	+19 27.8	2.080	2.468	101.3	23.0	19.6
								1995 01 23	02 07.19	+19 48.7	2.250	2.515	93.8	23.0	19.9
								1995 02 02	02 19.80	+20 17.2	2.423	2.562	86.7	22.6	20.0
								1995 02 12	02 33.35	+20 51.2	2.597	2.609	79.8	21.9	20.2
								1995 02 22	02 47.65	+21 28.4	2.771	2.657	73.1	20.9	20.4
								1995 03 04	03 02.57	+22 07.2	2.942	2.704	66.5	19.7	20.5
								1995 03 14	03 17.99	+22 45.8	3.108	2.752	60.2	18.3	20.6
								1995 03 24	03 33.78	+23 23.0	3.269	2.800	53.9	16.7	20.7

Comet Helin-Alu (1992a)

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1
1994 01 18		17 53.12	-40 15.6	6.729	5.931	33.3	5.2	20.4
1994 01 28		18 01.89	-40 09.9	6.714	6.001	40.6	6.1	20.4
1994 02 07		18 09.88	-40 05.4	6.681	6.071	48.4	7.0	20.5
1994 02 17		18 16.98	-40 02.4	6.632	6.141	56.5	7.7	20.5
1994 02 27		18 23.08	-40 00.9	6.568	6.212	64.8	8.3	20.5
1994 03 09		18 28.08	-40 01.0	6.493	6.282	73.4	8.7	20.5
1994 03 19		18 31.88	-40 02.5	6.410	6.352	82.2	8.9	20.6
1994 03 29		18 34.40	-40 05.4	6.323	6.422	91.2	8.9	20.6
1994 04 08		18 35.59	-40 09.1	6.236	6.492	100.4	8.7	20.6
1994 04 18		18 35.40	-40 13.0	6.154	6.562	109.8	8.3	20.6
1994 04 28		18 33.84	-40 16.2	6.081	6.632	119.3	7.6	20.6
1994 05 08		18 31.00	-40 17.8	6.022	6.702	128.9	6.7	20.7
1994 05 18		18 27.00	-40 16.5	5.981	6.772	138.5	5.7	20.7
1994 05 28		18 22.06	-40 11.2	5.963	6.842	147.8	4.5	20.7
1994 06 07		18 16.44	-40 01.2	5.970	6.912	156.3	3.4	20.8
1994 06 17		18 10.46	-39 45.8	6.006	6.981	162.5	2.5	20.8
1994 06 27		18 04.47	-39 25.0	6.070	7.051	163.5	2.4	20.9
1994 07 07		17 58.79	-38 59.3	6.164	7.120	158.5	3.0	21.0
1994 07 17		17 53.73	-38 29.5	6.287	7.190	150.6	4.0	21.1
1994 07 27		17 49.51	-37 56.9	6.436	7.259	141.6	5.0	21.2
1994 08 06		17 46.29	-37 22.5	6.608	7.328	132.2	5.9	21.3
1994 08 16		17 44.16	-36 47.6	6.801	7.397	122.7	6.6	21.4
1994 08 26		17 43.16	-36 13.2	7.009	7.466	113.3	7.1	21.5

Elements MPC 22196

Periodic Comet Encke

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_2
1994 02 27		20 50.55	-23 55.3	1.106	0.559	30.3	63.4	15.7
1994 03 09		21 13.10	-22 53.9	1.292	0.744	35.0	49.9	16.3
1994 03 19		21 34.20	-21 28.5	1.431	0.922	39.8	43.7	16.8
1994 03 29		21 52.47	-20 02.6	1.531	1.088	45.1	40.6	17.2
1994 04 08		22 07.95	-18 44.1	1.599	1.243	51.0	38.8	17.5
1994 04 18		22 20.77	-17 36.9	1.640	1.388	57.5	37.6	17.8
1994 04 28		22 31.02	-16 43.3	1.657	1.525	64.5	36.6	18.0
1994 05 08		22 38.67	-16 05.0	1.654	1.654	72.2	35.5	18.1
1994 05 18		22 43.55	-15 44.0	1.635	1.776	80.6	34.2	18.2
1994 05 28		22 45.41	-15 41.8	1.604	1.892	89.7	32.4	18.3
1994 06 07		22 43.96	-15 59.7	1.565	2.003	99.6	30.0	18.3
1994 06 17		22 38.81	-16 38.2	1.526	2.108	110.5	26.8	18.2
1994 06 27		22 29.74	-17 35.7	1.492	2.209	122.3	22.9	18.2
1994 07 07		22 16.81	-18 47.8	1.472	2.305	134.9	18.2	18.1
1994 07 17		22 00.50	-20 06.6	1.472	2.397	148.3	12.9	18.0
1994 07 27		21 42.01	-21 22.0	1.501	2.486	161.7	7.4	17.9
1994 08 06		21 22.95	-22 24.5	1.561	2.570	172.8	2.9	17.8
1994 08 16		21 05.11	-23 08.4	1.654	2.652	167.4	4.8	18.1
1994 08 26		20 49.93	-23 32.6	1.779	2.730	155.3	8.9	18.5
1994 09 05		20 38.18	-23 39.8	1.931	2.805	143.2	12.4	18.9
1994 09 15		20 30.09	-23 33.7	2.106	2.877	131.9	15.1	19.2
1994 09 25		20 25.46	-23 18.0	2.299	2.946	121.2	16.9	19.6
1994 10 05		20 23.88	-22 55.5	2.503	3.013	111.2	18.0	19.8

Elements MPC 18256

Periodic Comet Reinmuth 2

Date	TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_2
1994 02 27		20 30.70	-19 27.3	2.911	2.150	33.1	14.6	19.8
1994 03 09		20 53.30	-17 41.5	2.814	2.113	37.4	16.6	19.8
1994 03 19		21 15.68	-15 43.7	2.713	2.079	41.7	18.6	19.7
1994 03 29		21 37.78	-13 35.0	2.612	2.047	45.9	20.5	19.7
1994 04 08		21 59.58	-11 16.4	2.510	2.017	50.0	22.3	19.6
1994 04 18		22 21.03	-08 49.3	2.407	1.990	54.0	24.1	19.5
1994 04 28		22 42.12	-06 15.2	2.306	1.966	57.9	25.7	19.5
1994 05 08		23 02.84	-03 35.6	2.206	1.945	61.8	27.2	19.4
1994 05 18		23 23.14	-00 52.4	2.108	1.927	65.8	28.6	19.3
1994 05 28		23 42.98	+01 52.8	2.012	1.913	69.7	29.8	19.2
1994 06 07		00 02.31	+04 37.9	1.918	1.903	73.8	30.8	19.1
1994 06 17		00 21.02	+07 21.0	1.827	1.896	78.0	31.6	19.0
1994 06 27		00 38.98	+10 00.2	1.738	1.893	82.4	32.2	18.9

Elements MPC 18258

1994 10 15	20 24.90	-22 27.7	2.716	3.077	101.7	18.5	20.1
1994 10 25	20 28.06	-21 55.8	2.932	3.138	92.6	18.5	20.3
1994 11 04	20 32.95	-21 20.2	3.148	3.197	83.8	18.0	20.4

Periodic Comet Helin-Lawrence (1993I)

Elements MPC 22663

Date TT	α_{2000}	δ_{2000}	Δ	r	ϵ	ϕ	m_1
1994 03 09	21 11.99	-20 44.4	4.139	3.366	34.3	9.6	18.4
1994 03 19	21 25.73	-20 01.7	4.074	3.386	41.0	11.1	18.3
1994 03 29	21 38.77	-19 20.3	3.997	3.407	47.7	12.5	18.3
1994 04 08	21 51.03	-18 41.2	3.909	3.428	54.6	13.8	18.3
1994 04 18	22 02.44	-18 05.9	3.812	3.450	61.6	14.8	18.3
1994 04 28	22 12.90	-17 35.5	3.706	3.472	68.8	15.7	18.3
1994 05 08	22 22.31	-17 11.3	3.594	3.495	76.2	16.3	18.2
1994 05 18	22 30.56	-16 54.7	3.478	3.517	83.9	16.6	18.2
1994 05 28	22 37.52	-16 46.8	3.360	3.541	91.8	16.6	18.1
1994 06 07	22 43.07	-16 48.6	3.243	3.564	100.1	16.3	18.1
1994 06 17	22 47.04	-17 00.9	3.130	3.588	108.7	15.6	18.0
1994 06 27	22 49.34	-17 23.9	3.025	3.612	117.8	14.4	18.0
1994 07 07	22 49.88	-17 57.2	2.932	3.637	127.1	12.9	17.9
1994 07 17	22 48.62	-18 39.6	2.853	3.662	136.9	10.9	17.9
1994 07 27	22 45.66	-19 28.6	2.795	3.687	146.8	8.7	17.9
1994 08 06	22 41.22	-20 20.9	2.759	3.712	156.6	6.2	17.9
1994 08 16	22 35.65	-21 12.4	2.749	3.737	165.1	4.0	17.9
1994 08 26	22 29.47	-21 58.8	2.768	3.763	168.3	3.1	18.0
1994 09 05	22 23.25	-22 36.5	2.814	3.788	162.6	4.6	18.0
1994 09 15	22 17.58	-23 02.7	2.888	3.814	153.4	6.8	18.1
1994 09 25	22 12.96	-23 16.3	2.988	3.840	143.4	8.9	18.2
1994 10 05	22 09.76	-23 17.1	3.110	3.866	133.4	10.8	18.3
1994 10 15	22 08.20	-23 05.9	3.250	3.893	123.6	12.3	18.5
1994 10 25	22 08.34	-22 44.0	3.406	3.919	114.1	13.4	18.6
1994 11 04	22 10.14	-22 12.9	3.572	3.945	104.9	14.1	18.7
1994 11 14	22 13.48	-21 33.9	3.744	3.971	96.0	14.3	18.9
1994 11 24	22 18.21	-20 48.2	3.920	3.998	87.4	14.3	19.0
1994 12 04	22 24.13	-19 56.9	4.095	4.024	79.0	13.9	19.1
1994 12 14	22 31.10	-19 00.8	4.266	4.051	70.8	13.3	19.2
1994 12 24	22 38.91	-18 00.9	4.431	4.077	62.9	12.4	19.3
1995 01 03	22 47.44	-16 57.9	4.586	4.103	55.1	11.3	19.4
1995 01 13	22 56.52	-15 52.4	4.731	4.130	47.5	10.1	19.5
1995 01 23	23 06.04	-14 45.1	4.862	4.156	40.0	8.8	19.6

OPPOSITION DATA

Planet	Opposition	α_{2000}	δ_{2000}	V	$\dot{\alpha}$	$\dot{\delta}$	ϕ_{MIN}	MPC
1982 QK ₃	93 10 29.0	02 13.88	+18 20.2	15.8	-1.01	- 4.6	2.3/30.4	22824
1988 YB	93 10 29.1	02 14.03	+11 47.0	16.3	-0.79	- 3.6	0.5/28.7	22825
4121 P-L	93 10 29.1	02 14.05	+09 17.9	16.0	-0.72	- 7.7	1.5/27.8	22827
1985 GS	93 10 29.3	02 14.73	-10 03.4	16.5	-0.77	- 3.5	6.6/22.4	22809
1986 QO ₄	93 10 29.3	02 15.07	+21 52.5	15.5	-1.13	- 0.6	4.2/31.3	22810
(5773)	93 10 29.3	02 15.12	+19 05.6	16.1	-1.12	- 4.1	2.1/30.8	22803
1991 BJ	93 10 29.7	02 16.22	+10 05.6	15.5	-1.04	- 2.9	1.5/28.9	22826
1989 WL ₁	93 10 29.7	02 16.58	+20 52.0	14.8	-0.82	-11.5	2.9/01.2	22812
1981 EM ₁₉	93 10 29.7	02 16.58	+15 29.5	17.7	-0.87	- 4.2	0.6/30.3	22074
6038 P-L	93 10 29.8	02 16.60	+22 51.1	15.5	-1.03	- 0.4	4.3/31.9	22821
1987 SE ₁₃	93 10 29.8	02 16.68	+09 20.5	15.5	-0.80	- 3.4	1.6/28.7	22825

1972 RF ₂	93 10 30.1	02 17.85	+09 42.9	16.7	-0.93	- 7.3	2.0/29.0	22822
1981 EY ₁₉	93 10 30.3	02 18.72	+15 02.6	18.7	-0.85	- 4.5	0.4/30.7	22697
1991 DK	93 10 30.3	02 18.95	+34 25.8	14.5	-1.27	+ 1.9	8.7/03.8	22814
1978 NN ₁	93 10 30.4	02 19.03	+00 36.2	16.8	-0.86	- 4.5	5.0/26.9	22696
1993 TF ₂	93 10 30.5	02 19.35	+11 29.8	15.9	-0.79	- 3.6	0.7/29.9	22818
(5253)	93 10 30.6	02 19.82	-24 39.7	16.6	-1.65	+ 6.3	17.1/23.2	20490
1992 HJ	93 10 30.6	02 19.95	+05 39.7	16.7	-1.02	- 4.6	3.1/28.6	22700
5211 T-2	93 10 30.9	02 21.19	+17 15.3	15.2	-0.78	- 8.8	1.2/32.0	22828
1975 TO ₂	93 10 31.0	02 21.34	+08 38.9	15.5	-0.80	- 8.3	2.7/29.4	22807
1990 BG ₁	93 10 31.0	02 21.40	+08 00.3	16.5	-0.87	- 3.0	1.9/29.5	22826
1991 BR	93 10 31.1	02 21.88	+06 43.4	17.8	-0.87	- 5.8	2.2/29.1	21975
1978 UA ₇	93 10 31.2	02 22.32	+17 42.3	16.3	-1.08	- 2.4	1.3/01.1	22823
(5021)	93 10 31.3	02 22.86	+10 38.2	15.7	-0.80	- 3.6	1.2/30.5	19487
1989 YH	93 10 31.4	02 23.05	+28 52.1	15.6	-0.94	- 4.0	5.9/04.5	22825
1989 WG ₇	93 10 31.4	02 23.26	+15 12.9	16.2	-0.92	- 5.3	0.4/31.8	22699
1986 QA ₃	93 10 31.5	02 23.25	+11 44.7	16.5	-1.07	- 4.8	1.0/30.9	22077
1993 TX ₁	93 10 31.7	02 24.28	+04 37.5	16.0	-0.89	- 9.3	3.3/28.9	22818
1979 QJ ₁	93 10 31.9	02 24.77	+01 36.9	17.1	-0.99	- 6.0	4.9/28.5	13598
(5347)	93 11 01.0	02 25.37	+01 34.0	16.1	-0.75	- 5.6	3.9/28.3	20916
(5316)	93 11 01.5	02 27.41	+18 57.3	15.9	-0.76	- 7.8	1.3/02.9	20791
1986 AJ	93 11 01.7	02 28.39	+50 01.0	15.9	-1.32	- 8.1	17.3/15.5	22698
1989 WB ₂	93 11 01.8	02 28.31	+23 45.0	15.9	-0.98	- 4.9	3.8/04.2	22600
1986 TB ₃	93 11 01.8	02 28.69	+07 38.8	15.7	-1.01	- 6.4	2.9/31.1	22078
1987 BS ₂	93 11 01.9	02 29.10	+10 01.1	16.4	-0.97	- 5.3	2.0/31.8	22824
1988 ER ₁	93 11 02.0	02 29.13	+17 31.2	16.5	-1.11	- 2.2	1.1/02.6	22698
(5336)	93 11 02.0	02 29.40	+04 18.5	16.7	-0.73	- 5.3	2.8/30.1	20800
1981 EZ ₁₁	93 11 02.2	02 30.30	+21 10.2	18.5	-1.08	- 4.4	2.5/03.9	22808
1981 EY ₉	93 11 02.4	02 30.88	+21 56.0	17.3	-1.08	- 5.2	3.1/04.2	22823
(5245)	93 11 02.5	02 31.28	+09 16.4	16.4	-1.06	- 5.5	2.2/01.2	20487
1986 QT	93 11 02.6	02 31.44	+09 43.8	17.2	-1.07	- 4.8	2.1/01.4	22077
(5353)	93 11 02.7	02 31.94	+15 38.0	15.2	-1.03	- 2.2	11.0/23.0	20918
1978 RZ ₉	93 11 02.7	02 32.02	-15 43.5	17.7	-0.92	- 6.8	10.7/24.8	22073
1981 ES ₃₂	93 11 03.1	02 33.65	+29 18.2	18.7	-1.07	- 5.1	6.5/06.9	22271
1986 RB ₅	93 11 03.5	02 35.29	+03 39.3	15.1	-1.02	- 3.4	5.4/31.9	22824
1991 EA	93 11 03.7	02 35.77	+23 58.1	16.6	-1.08	- 2.9	3.3/05.7	22826
(5791)	93 11 03.8	02 36.47	+10 48.0	16.4	-0.84	- 4.1	1.5/02.7	22807
1985 GO	93 11 03.9	02 36.84	+08 34.8	17.1	-1.05	- 4.0	2.6/02.4	21969
1989 JF	93 11 04.4	02 38.96	+20 58.4	16.2	-1.19	- 3.8	2.2/05.7	22825
1991 CN ₁	93 11 04.5	02 39.02	+13 26.8	17.0	-0.98	- 5.5	0.8/04.0	22083
1981 ET ₂₄	93 11 04.5	02 39.04	+07 48.4	17.7	-0.97	- 6.9	3.0/02.5	22492
1989 WL ₇	93 11 04.5	02 39.18	-12 17.4	15.1	-0.92	- 0.4	11.3/29.0	21973
1993 TE ₅	93 11 04.5	02 39.42	+20 48.8	15.6	-1.10	- 6.6	2.5/06.0	22819
1991 CL ₁	93 11 04.7	02 40.16	+20 02.3	15.5	-1.02	- 5.2	2.0/05.9	22826
(5701)	93 11 04.8	02 40.51	+17 08.3	14.6	-0.98	- 0.6	0.7/05.2	22668
1990 YK	93 11 05.3	02 42.22	+12 23.8	16.3	-1.05	- 5.8	1.4/04.5	22826
6097 P-L	93 11 05.5	02 43.38	+17 42.6	17.9	-1.06	- 5.3	0.8/06.1	22087
1991 EO ₁	93 11 05.8	02 44.37	+09 29.3	16.4	-0.91	- 3.6	2.5/04.3	22814
1989 SM ₈	93 11 05.9	02 44.51	+16 44.0	16.4	-1.02	- 3.4	0.4/06.1	20505
1972 RU ₁	93 11 06.0	02 45.01	+13 44.4	16.6	-1.00	- 7.4	1.0/05.4	22822
1981 EE ₃₈	93 11 06.0	02 45.19	+19 42.0	18.0	-0.90	- 4.0	1.4/07.0	21967
(5755)	93 11 06.4	02 46.68	+31 18.0	14.7	-0.93	- 4.0	5.3/10.4	22681

1992 JQ ₃	93 11 06.6	02 47.28	+19 08.1	16.9	-1.11	- 5.7	1.1/07.3	22057	1983 XN ₁	93 11 14.1	03 18.02	+31 43.8	16.9	-0.96	- 3.6	4.6/17.2	21969
(5337)	93 11 06.6	02 47.69	+18 27.6	16.4	-0.77	- 4.8	0.6/07.3	20800	4047 P-L	93 11 14.2	03 18.02	+21 24.7	18.2	-0.94	- 3.3	1.1/14.9	21978
1978 VP ₁₀	93 11 07.2	02 49.71	+12 08.0	17.4	-1.02	- 2.9	1.7/06.3	22073	3033 T-2	93 11 14.2	03 18.40	+16 21.0	17.2	-0.91	- 2.5	0.7/13.9	16243
1987 SZ ₆	93 11 07.2	02 49.78	+27 34.4	14.3	-0.86	- 5.7	3.8/10.3	22824	1262 T-2	93 11 14.4	03 19.20	+24 25.7	19.3	-1.20	- 2.9	2.3/15.6	15078
1988 RU ₆	93 11 07.3	02 50.28	+15 06.1	17.5	-0.91	- 4.5	0.4/07.0	22825	1988 RN ₄	93 11 14.6	03 19.94	+34 45.0	17.7	-1.11	- 3.0	4.9/18.1	22079
1990 EF ₇	93 11 07.4	02 50.75	+13 25.6	17.7	-0.77	- 3.4	0.8/06.7	20925	1978 QE ₂	93 11 14.6	03 20.05	+21 19.7	16.2	-1.11	- 3.0	1.4/15.3	22808
1991 GA ₆	93 11 07.5	02 51.04	+17 42.3	17.4	-0.88	- 4.0	0.4/08.0	21942	1981 SE	93 11 14.9	03 21.12	+15 48.9	16.4	-1.01	- 4.1	1.0/14.4	22823
4031 P-L	93 11 07.8	02 52.48	+26 14.7	16.3	-1.06	- 2.1	4.7/10.0	22274	1985 YH	93 11 14.9	03 21.23	+31 22.6	16.3	-1.04	- 6.4	4.5/18.0	22698
(5216)	93 11 08.4	02 54.78	-07 40.3	14.9	-0.89	- 2.7	9.4/03.0	20315	1989 TP ₁₁	93 11 15.3	03 22.60	+14 09.5	16.2	-1.00	- 5.1	1.8/14.4	22811
(5351)	93 11 08.5	02 55.17	+08 15.1	16.9	-0.96	- 4.7	2.9/06.6	20918	1982 BS	93 11 15.3	03 22.95	+39 32.9	15.7	-1.06	- 6.6	9.0/20.9	22823
(5270)	93 11 08.5	02 55.28	+09 11.5	17.1	-0.88	- 6.9	2.4/06.6	20616	1992 NR	93 11 15.5	03 23.40	-02 34.3	17.5	-0.88	- 2.9	6.6/11.1	21582
(5288)	93 11 08.8	02 56.28	+32 18.0	14.6	-0.99	- 7.5	6.1/13.0	20623	1984 DY	93 11 15.5	03 23.68	+19 30.5	16.4	-0.86	- 3.0	0.3/15.8	22824
1992 OB	93 11 08.8	02 56.37	+15 12.2	18.6	-0.94	+ 0.1	0.5/08.6	22407	1988 XW ₁	93 11 15.5	03 23.73	+13 26.4	14.8	-0.94	+ 0.5	1.8/14.7	22825
1982 UV ₁	93 11 08.9	02 56.75	+12 13.1	15.9	-0.84	- 3.0	1.7/07.9	22697	1990 HM ₁	93 11 15.7	03 24.23	+11 32.9	15.4	-0.88	- 0.4	2.2/14.5	22826
1981 JS ₂	93 11 09.1	02 57.68	+19 36.6	17.5	-1.09	- 4.0	1.0/09.8	21968	1969 TR ₁	93 11 15.7	03 24.38	+22 11.0	15.1	-1.17	- 3.8	1.7/16.4	22822
1988 VD ₁	93 11 09.2	02 57.98	+34 08.6	15.5	-1.09	- 1.1	5.8/13.0	22825	1987 SN ₁₁	93 11 15.8	03 24.97	+15 46.4	16.8	-0.84	- 3.4	1.0/15.3	22698
(5723)	93 11 09.4	02 58.97	+05 50.8	15.7	-0.91	- 5.2	5.7/06.9	22673	1993 UX	93 11 15.9	03 25.05	+20 22.8	15.4	-1.19	- 3.5	0.7/16.2	22819
1992 FS ₁	93 11 09.5	02 59.12	+06 15.3	16.2	-1.08	- 2.6	4.2/07.4	21977	1989 WH ₃	93 11 16.4	03 27.07	+19 30.5	15.1	-0.97	- 2.7	0.3/16.5	22812
(5280)	93 11 09.7	02 59.74	+07 13.7	17.4	-0.87	- 6.4	3.0/07.2	20620	1989 RD ₂	93 11 16.4	03 27.36	+13 52.1	16.7	-1.06	- 4.2	2.2/15.5	22825
(5478)	93 11 09.7	02 59.75	+18 28.5	15.8	-0.94	- 7.8	0.6/10.1	21775	1989 SG	93 11 16.6	03 27.96	+30 11.0	15.1	-1.15	- 0.9	5.3/18.5	22699
1992 KE	93 11 09.8	03 00.13	+05 47.9	16.4	-1.00	- 2.3	4.2/07.5	22827	4068 P-L	93 11 16.9	03 29.32	+25 02.6	16.5	-1.16	- 3.4	2.8/18.1	22827
1985 TM ₁	93 11 09.8	03 00.56	+28 26.7	14.8	-1.22	+ 4.6	5.7/11.4	22698	2023 P-L	93 11 17.0	03 29.56	+19 54.1	17.5	-0.88	- 3.1	0.3/17.2	22086
1981 EB ₂₄	93 11 09.9	03 00.79	+21 22.4	17.9	-0.96	- 2.4	1.5/10.9	21967	1992 LE	93 11 17.0	03 29.67	-02 33.6	18.2	-0.85	- 2.8	6.5/12.9	20826
(5169)	93 11 10.0	03 01.22	+22 15.5	15.3	-1.06	- 3.4	2.5/11.2	19996	1973 SF ₆	93 11 17.2	03 30.76	+09 24.3	16.3	-1.07	- 5.5	4.4/15.4	22822
5193 T-3	93 11 10.1	03 01.65	+00 00.7	18.3	-0.76	- 3.6	4.5/06.1	22702	1985 JW ₁	93 11 17.4	03 31.31	+15 01.1	16.1	-0.86	+ 0.0	1.1/16.8	22809
1980 TG ₄	93 11 10.4	03 02.64	+30 22.6	16.2	-1.20	+ 0.5	5.3/13.0	15702	(5745)	93 11 17.4	03 31.49	+24 53.8	15.3	-1.16	+ 0.1	3.1/18.3	22678
1169 T-2	93 11 10.6	03 03.43	+20 25.5	18.4	-0.90	- 3.4	1.0/11.3	22701	1980 FH ₁	93 11 17.6	03 32.19	+36 37.2	17.3	-1.07	- 1.5	5.6/20.9	21965
3020 T-2	93 11 10.6	03 03.68	+34 33.9	17.1	-1.17	- 0.1	6.4/14.2	22701	1988 PG ₁	93 11 17.7	03 32.45	+38 59.8	17.0	-1.15	- 4.6	7.3/22.3	22825
1983 TH	93 11 10.8	03 04.58	+17 23.8	14.8	-1.19	+ 2.4	0.0/10.9	22809	(5441)	93 11 17.7	03 32.46	+03 10.4	16.3	-0.81	- 2.0	4.7/14.7	21555
3178 T-2	93 11 10.9	03 04.60	+19 02.3	17.4	-0.92	- 2.6	0.6/11.3	19329	1993 VM	93 11 18.0	03 34.05	+14 10.9	16.6	-1.07	- 4.7	2.0/17.1	22820
1990 TN ₁	93 11 10.9	03 04.78	+50 52.6	15.6	-1.67	- 2.8	15.3/19.1	22826	3181 T-2	93 11 18.1	03 34.30	+15 46.1	17.7	-0.91	- 2.2	1.2/17.5	21978
(5403)	93 11 10.9	03 04.96	+02 00.8	16.0	-0.81	- 2.5	4.7/07.5	21248	(5368)	93 11 18.3	03 35.11	+11 02.0	16.5	-0.67	- 2.6	2.0/16.7	21089
1981 JE ₂	93 11 10.9	03 05.01	+16 04.7	16.7	-1.09	- 3.0	0.5/10.7	22697	1987 SS ₉	93 11 18.3	03 35.22	+15 33.7	16.3	-0.84	- 2.2	1.4/17.7	22810
1992 HR ₄	93 11 11.0	03 05.23	+08 15.7	17.8	-1.04	- 3.9	3.4/09.1	21582	1981 EO ₂₀	93 11 18.4	03 35.79	+15 08.8	18.4	-1.07	- 4.0	1.5/17.7	22697
1981 EV ₁₀	93 11 11.1	03 05.43	+18 45.4	18.6	-1.02	- 7.2	0.6/11.4	22270	1991 GQ ₁₀	93 11 18.5	03 35.84	+11 46.8	15.8	-0.92	- 2.5	2.9/17.2	22814
1976 SA ₆	93 11 11.2	03 05.93	+18 44.8	16.8	-1.13	- 3.5	0.5/11.5	22072	1993 VN	93 11 18.6	03 36.31	+15 54.0	16.1	-1.06	- 4.0	1.5/18.0	22821
4069 P-L	93 11 12.0	03 09.11	+11 46.4	17.9	-0.78	- 5.4	1.8/10.6	22274	1984 EY	93 11 18.7	03 36.82	+24 26.5	16.7	-1.16	- 1.2	1.9/19.5	22824
2532 P-L	93 11 12.2	03 10.13	+09 06.2	16.9	-0.83	- 5.2	2.9/10.2	21977	1992 PX ₂	93 11 18.8	03 37.51	+32 16.9	17.3	-1.05	- 5.1	4.1/21.6	21584
1991 DM	93 11 12.2	03 10.30	+15 24.9	16.6	-1.05	- 4.2	0.9/11.8	22814	1987 SS ₁₇	93 11 19.0	03 38.32	+28 25.4	16.3	-0.94	- 2.0	2.8/20.8	22825
1979 TY ₁	93 11 12.2	03 10.31	+23 07.2	16.1	-1.21	+ 2.3	2.7/13.1	22073	1984 UX ₂	93 11 19.6	03 40.54	+33 40.6	15.9	-1.21	+ 0.1	5.4/21.9	22824
1987 SV ₁₂	93 11 12.4	03 10.76	+16 01.0	16.4	-0.87	- 2.5	0.6/12.1	22824	5192 T-3	93 11 19.6	03 40.64	+15 48.7	16.3	-0.95	+ 0.6	1.3/19.1	22828
(5305)	93 11 13.1	03 13.62	+18 01.2	16.9	-1.01	- 4.5	0.0/13.1	21764	2020 P-L	93 11 19.9	03 41.66	+29 53.7	15.3	-1.01	- 2.1	5.0/21.8	22821
6299 P-L	93 11 13.2	03 14.11	+05 37.4	18.0	-0.83	- 8.0	4.5/09.9	22087	1989 YB	93 11 20.0	03 42.22	+28 27.6	14.2	-0.92	- 8.4	4.4/22.2	22699
(5720)	93 11 13.2	03 14.23	+20 55.1	15.6	-1.75	+12.2	1.5/13.3	22673	1988 QD ₁	93 11 20.0	03 42.41	+24 58.3	15.7	-1.06	-10.1	2.0/21.4	22825
1979 KG	93 11 13.2	03 14.26	-06 19.4	15.3	-0.91	+ 0.0	10.1/08.8	22073	1978 QC ₃	93 11 20.4	03 43.95	-01 39.7	14.8	-0.87	- 0.9	8.5/16.8	16575
(5408)	93 11 13.7	03 15.96	+15 18.2	16.8	-1.06	- 5.8	1.1/13.1	21250	(5746)	93 11 20.5	03 44.19	+29 10.8	14.7	-1.15	- 1.9	4.7/22.1	22678
1992 JN ₁	93 11 13.9	03 16.98	+03 01.2	16.6	-1.03	+ 0.8	5.6/11.6	21977	1984 DB	93 11 20.5	03 44.25	-19 48.3	17.1	-0.93	- 4.1	17.9/08.9	22271
1992 HG ₄	93 11 13.9	03 17.21	+17 40.7	17.0	-1.07	- 4.5	0.2/13.9	22085	1990 FR ₁	93 11 20.5	03 44.39	-00 08.3	17.1	-0.84	+ 0.5	6.1/17.5	19303
1971 UK	93 11 14.0	03 17.40	+16 38.9	16.2	-1.01	- 7.1	0.7/13.7	22822	1972 TC	93 11 20.9	03 46.05	+23 25.7	15.0	-0.93	-11.3	1.5/21.9	22807
1981 EF ₄₈	93 11 14.1	03 17.78	+17 55.4	18.3	-0.69	- 2.9	0.1/14.1	21968	1989 WA ₂	93 11 21.2	03 47.08	+12 28.9	14.8	-1.18	+ 5.9	3.3/20.7	22812
1981 EV ₄₅	93 11 14.1	03 17.91	+21 44.0	20.0	-0.89	- 3.7	1.0/14.9	20811	5016 P-L	93 11 21.5	03 48.68	+26 06.6	18.5	-1.23	- 2.1	2.4/22.5	22701

1992 ME	93 11 21.7	03 49.24	-14 20.5	18.4	-1.07	+ 1.2	11.3/17.3	21112	4041 P-L	93 11 27.3	04 13.26	+23 53.6	17.2	-1.07	- 3.7	1.3/28.0	15903
1989 TN	93 11 21.8	03 49.84	+16 08.6	17.7	-1.09	- 1.9	1.6/21.3	19025	1987 BB	93 11 27.6	04 14.46	+20 32.3	17.0	-1.10	- 2.8	0.3/27.6	22824
1980 SD	93 11 21.8	03 50.01	+33 36.8	16.9	-1.20	- 0.3	4.7/23.9	21966	1986 QN ₃	93 11 27.6	04 14.56	+19 19.5	16.7	-1.15	- 0.6	0.9/27.5	22824
1992 PD ₂	93 11 22.1	03 50.82	+14 33.7	17.0	-0.84	- 3.9	1.6/21.1	20934	1985 SR	93 11 27.7	04 14.92	+23 19.7	17.4	-1.13	- 1.9	0.8/28.0	22077
(5299)	93 11 22.1	03 51.22	+27 42.7	15.9	-0.92	- 2.8	2.5/23.5	20785	1992 SB ₂₂	93 11 27.7	04 15.04	+17 10.4	17.4	-0.85	- 1.7	1.2/27.2	22816
1978 NU ₃	93 11 22.2	03 51.41	+09 26.7	17.8	-1.08	- 2.0	4.5/20.7	21964	1983 GU	93 11 27.8	04 15.07	+03 24.7	16.3	-0.98	+ 0.8	6.1/26.0	17957
(5303)	93 11 22.2	03 51.71	+20 49.9	16.2	-0.94	- 2.0	0.2/22.4	20786	1988 DO ₁	93 11 27.8	04 15.48	+12 52.0	15.7	-1.11	- 1.4	3.3/26.9	21971
1974 SJ ₃	93 11 22.5	03 52.96	+43 23.3	16.0	-1.29	+ 0.9	8.1/25.8	22822	1978 SJ ₅	93 11 28.4	04 17.92	+27 47.8	16.6	-1.20	+ 0.1	3.0/29.2	22808
1981 EN ₁₅	93 11 22.5	03 52.98	+23 26.9	18.0	-1.10	- 4.4	1.5/23.0	21967	1990 BX	93 11 28.4	04 17.94	+12 15.1	15.9	-0.94	- 0.8	3.4/27.4	22826
1991 EG	93 11 22.5	03 52.99	+22 26.0	16.0	-1.21	+ 0.3	1.1/22.9	22826	1988 XU ₁	93 11 28.5	04 18.48	+15 58.0	16.1	-0.91	+ 0.5	1.7/28.0	22825
1981 SN	93 11 22.6	03 53.37	+16 21.6	15.8	-0.97	- 5.8	1.7/21.9	22823	(5777)	93 11 28.7	04 19.21	+09 30.8	15.3	-1.02	+ 1.7	5.3/27.8	22804
1988 NR	93 11 22.7	03 53.63	+27 50.1	15.6	-1.03	- 9.0	2.9/24.5	22811	1986 XX	93 11 28.9	04 20.07	+20 50.7	16.1	-1.19	+ 1.5	0.3/28.9	22810
1988 EA ₂	93 11 22.8	03 54.18	+13 47.7	16.8	-1.08	- 3.5	2.7/21.8	21971	1993 VM ₁	93 11 29.1	04 20.94	-28 11.5	15.9	-0.92	- 4.7	26.2/13.0	22821
1976 SW ₃	93 11 22.8	03 54.22	+12 24.4	16.0	-0.83	- 3.3	2.9/21.5	22696	1979 MA ₄	93 11 29.2	04 21.02	+16 28.4	17.2	-0.80	- 2.4	1.5/28.5	21927
(5769)	93 11 23.0	03 54.79	+31 06.8	16.4	-0.96	- 4.3	3.4/25.1	22802	1986 GV	93 11 29.3	04 21.43	+03 46.3	17.7	-0.92	+ 0.7	5.4/27.4	18626
1989 WC ₂	93 11 23.0	03 54.91	+18 58.8	15.2	-1.10	+ 3.0	0.6/22.9	22825	1214 T-3	93 11 29.3	04 21.85	+35 33.4	16.4	-1.03	- 2.8	4.9/01.5	22828
4283 T-1	93 11 23.1	03 55.21	+28 59.4	16.0	-1.26	+ 1.5	4.2/24.1	19327	1975 XP ₃	93 11 29.4	04 21.86	+26 33.5	15.9	-1.12	- 1.5	2.4/30.0	21964
(5220)	93 11 23.1	03 55.54	+26 02.0	16.6	-1.23	- 1.9	2.2/24.0	20317	1991 EL ₄	93 11 29.4	04 21.99	+04 25.7	17.5	-0.89	- 3.2	5.3/26.9	21576
1989 UF ₇	93 11 23.4	03 56.71	+21 07.4	16.8	-1.07	- 2.2	0.3/23.6	21973	1978 VE ₉	93 11 29.8	04 23.82	+22 50.3	17.3	-0.92	- 2.3	0.4/30.0	22823
1979 QT ₈	93 11 23.5	03 56.82	+25 14.6	16.8	-1.18	- 3.4	2.2/24.3	22823	1988 BS ₃	93 11 29.9	04 24.33	+13 13.7	17.5	-1.10	- 2.6	3.1/28.9	21971
2114 T-3	93 11 23.8	03 58.19	+14 44.3	16.8	-0.85	- 4.9	1.9/22.8	22822	1986 CP ₁	93 11 30.1	04 24.88	+25 11.0	17.0	-1.06	- 1.0	1.3/30.5	22824
2222 T-2	93 11 24.0	03 58.89	+14 55.9	17.2	-0.75	- 2.3	1.5/23.1	22828	1989 AH	93 11 30.3	04 26.00	+02 58.8	16.7	-0.90	+ 3.2	5.7/29.0	22825
1971 OV	93 11 24.0	03 58.90	+13 47.4	16.4	-1.11	- 4.6	3.2/23.0	22822	1991 HO	93 11 30.4	04 26.62	+16 21.1	16.6	-1.00	+ 1.7	1.6/30.0	21975
1985 PG ₂	93 11 24.1	03 59.28	+20 23.4	16.2	-1.06	- 0.1	0.1/24.1	22809	1989 VQ ₁	93 11 30.4	04 26.66	+09 37.2	17.7	-1.02	- 1.7	4.7/29.0	21572
1986 QV ₃	93 11 24.1	03 59.66	+11 07.6	15.2	-1.09	- 0.3	4.7/23.0	22810	(5535)	93 11 30.5	04 27.10	+15 22.2	15.9	-1.14	- 1.0	2.9/29.9	22036
1991 GP ₁	93 11 24.2	04 00.11	+00 33.9	16.5	-0.86	- 1.4	5.6/21.2	21110	1992 JF	93 11 30.7	04 27.48	+23 22.8	17.2	-1.19	- 1.0	0.6/30.9	20346
1992 RF ₇	93 11 24.4	04 00.64	+23 12.3	17.3	-0.87	- 1.4	0.7/24.8	22816	1988 PJ ₁	93 11 30.8	04 28.32	+42 35.7	17.1	-1.24	- 4.0	7.1/04.2	22825
1990 DB	93 11 24.5	04 01.29	+17 08.5	16.3	-0.83	- 2.4	1.0/24.0	22826	1988 KC	93 11 30.9	04 28.48	+15 54.3	16.8	-1.05	- 5.8	2.2/30.0	22825
(5374)	93 11 24.5	04 01.39	+35 31.0	15.7	-0.94	- 3.7	4.3/27.3	21092	1989 PT	93 12 01.0	04 28.92	+11 13.5	17.1	-1.09	- 1.5	4.2/29.9	20503
1981 ES ₄₇	93 11 24.6	04 01.45	+21 21.5	17.7	-1.13	- 1.4	0.3/24.7	22697	1976 YO ₂	93 12 01.6	04 31.40	+19 43.3	15.4	-1.23	+ 6.3	1.1/01.6	22807
1360 T-2	93 11 25.1	04 03.66	+19 28.6	17.9	-0.92	- 2.8	0.4/24.9	22087	1990 EZ ₅	93 12 01.7	04 32.24	+21 57.4	17.7	-0.86	- 1.8	0.0/01.8	21940
1991 JG	93 11 25.1	04 03.68	+20 20.3	16.0	-1.03	+ 0.6	0.1/25.1	22826	(5301)	93 12 01.8	04 32.47	+20 32.2	15.6	-0.82	- 4.6	0.4/01.6	20785
1988 RU ₃	93 11 25.1	04 03.93	+16 02.0	18.2	-0.95	- 2.6	1.7/24.5	22272	1991 GP ₁₀	93 12 01.9	04 32.68	+17 35.7	17.7	-1.00	- 1.1	1.6/01.5	22431
1344 T-2	93 11 25.2	04 03.96	+17 06.7	17.4	-0.92	- 2.3	1.3/24.6	22087	(5251)	93 12 02.1	04 33.82	+22 05.4	15.9	-1.24	-14.0	11.0/23.0	20489
1991 CU ₁	93 11 25.3	04 04.39	+24 43.1	16.0	-1.14	- 4.8	1.7/26.0	22600	3134 T-3	93 12 02.2	04 34.24	+16 08.4	17.5	-1.19	- 3.1	2.6/01.6	22088
2312 T-1	93 11 25.3	04 04.46	+22 39.2	17.3	-0.96	- 1.7	0.7/25.6	22490	1985 RL ₁	93 12 02.3	04 34.65	+12 05.0	16.5	-1.03	- 5.5	4.0/30.9	22824
1987 RG	93 11 25.4	04 04.90	+16 18.1	16.7	-0.88	- 1.8	1.4/24.8	22824	5065 T-2	93 12 02.4	04 34.89	+20 01.0	18.2	-1.03	- 7.0	0.8/02.1	22701
1991 CW	93 11 25.9	04 06.96	+12 20.3	15.1	-1.03	- 0.2	4.4/24.9	22813	1981 EF ₁₂	93 12 02.4	04 34.96	+24 27.3	19.2	-1.15	- 4.2	0.9/02.8	21966
1992 OB ₉	93 11 25.9	04 07.21	+06 15.5	17.4	-0.92	- 0.3	4.6/24.1	21583	1981 EN ₂₆	93 12 02.5	04 35.30	+10 58.0	17.6	-0.91	- 3.1	3.7/01.1	21967
(5278)	93 11 26.0	04 07.41	+18 37.5	16.0	-1.12	- 5.2	1.0/25.6	20619	1987 QS ₇	93 12 02.8	04 36.66	+18 59.5	17.1	-0.91	- 1.9	1.0/02.5	22078
1986 AG ₁	93 11 26.0	04 07.85	+55 25.7	15.3	-1.79	-10.4	16.3/05.6	22824	4072 P-L	93 12 02.8	04 36.84	+21 02.5	19.2	-1.09	- 2.9	0.3/02.7	20829
(5411)	93 11 26.1	04 07.82	+28 58.2	16.2	-0.93	- 2.7	2.5/27.4	21543	1317 T-2	93 12 02.9	04 37.12	+30 38.0	19.7	-1.16	- 0.9	3.0/03.8	22432
1977 RZ ₈	93 11 26.1	04 08.25	+42 47.6	17.5	-1.12	- 1.8	6.2/29.7	19495	6214 P-L	93 12 02.9	04 37.24	+18 09.0	17.1	-1.04	- 4.7	1.8/02.4	14629
1983 PX	93 11 26.2	04 08.42	+11 29.4	17.5	-0.93	- 4.1	3.2/24.7	21969	1986 QX ₁	93 12 03.4	04 39.29	+26 34.1	16.8	-1.26	- 1.5	1.8/03.9	22430
(5759)	93 11 26.4	04 09.18	+21 30.3	16.0	-0.94	- 1.5	0.2/26.5	22800	(5342)	93 12 03.5	04 39.66	+00 56.4	18.0	-0.96	- 1.8	6.8/01.3	20802
2496 T-3	93 11 26.6	04 10.00	+15 56.9	17.0	-0.86	- 4.6	1.7/25.7	16038	1981 EN ₁₇	93 12 03.8	04 40.96	+16 30.1	16.0	-1.08	- 4.2	2.7/03.1	21967
6761 P-L	93 11 27.0	04 11.60	+07 27.9	17.8	-0.82	- 3.2	4.4/24.8	22087	(5428)	93 12 03.9	04 41.35	+22 39.8	16.4	-0.94	- 2.0	0.1/04.0	21549
1987 QW ₁	93 11 27.1	04 12.16	+18 06.8	16.8	-0.90	- 2.4	1.0/26.7	22078	4257 P-L	93 12 03.9	04 41.66	+32 53.0	18.7	-1.22	- 2.7	4.7/05.2	16035
1968 OL	93 11 27.2	04 12.77	-09 49.4	18.4	-1.08	+ 1.7	10.1/24.1	20627	1981 ET ₁₃	93 12 03.9	04 41.72	+26 30.2	18.6	-1.18	- 3.1	1.5/04.5	21966
1988 VR ₂	93 11 27.3	04 12.93	+10 42.8	15.6	-0.99	+ 5.5	4.8/26.7	22811	1981 EY ₃₅	93 12 04.1	04 42.58	+28 12.9	17.8	-1.21	- 1.6	2.3/04.8	21967
3057 T-1	93 11 27.3	04 13.12	+20 11.8	17.8	-1.02	- 3.5	0.4/27.2	22827	1978 VL ₁₁	93 12 04.1	04 42.62	+21 43.9	15.9	-1.12	- 0.2	0.2/04.1	22823

1930 UX	93 12 04.2	04 42.64	+31 58.7	16.2	-1.17	- 3.0	4.9/05.4	22822	(5256)	93 12 10.2	05 08.86	+08 45.0	16.1	-0.99	- 4.5	4.9/08.8	20491
1988 XK	93 12 04.6	04 44.69	+19 25.6	16.6	-0.93	- 4.4	1.1/04.3	22272	1977 RC ₉	93 12 10.3	05 09.63	+24 58.8	17.8	-1.13	- 1.6	0.8/10.5	21964
1991 CN	93 12 04.8	04 45.66	+29 05.5	16.1	-1.23	- 1.3	2.9/05.5	22826	1989 VQ	93 12 10.4	05 10.14	+24 03.8	15.8	-1.17	+ 0.0	0.5/10.5	22081
(5380)	93 12 04.9	04 45.69	+19 55.6	17.2	-0.99	- 4.0	0.8/04.6	21094	1973 QR ₁	93 12 10.4	05 10.19	+19 00.0	16.5	-1.20	- 2.0	1.6/10.2	22221
1979 KD	93 12 05.1	04 46.87	+10 52.5	17.8	-0.96	- 1.2	3.7/04.1	21965	1989 RC ₁	93 12 10.4	05 10.23	+05 46.8	15.1	-1.14	+ 8.9	8.5/11.5	22699
(5213)	93 12 05.2	04 47.23	+10 40.0	15.9	-0.85	- 3.3	4.0/03.8	20137	(5771)	93 12 10.5	05 10.14	+29 41.6	15.8	-0.98	- 4.4	2.6/11.2	22803
1992 OO ₁	93 12 05.3	04 47.86	+00 24.9	16.7	-0.97	+ 0.9	8.2/03.8	22273	(5774)	93 12 10.5	05 10.19	+36 24.3	15.7	-1.35	- 4.8	5.9/11.9	22803
1991 FL	93 12 05.4	04 48.34	+22 44.8	16.9	-1.12	- 2.5	0.1/05.5	22083	1986 RF ₇	93 12 11.0	05 12.36	+19 25.1	17.5	-1.20	- 0.9	1.5/10.8	20332
1985 RV	93 12 05.5	04 48.78	+24 10.4	19.0	-1.14	- 5.2	0.6/05.8	22430	5023 P-L	93 12 11.1	05 13.25	+16 23.3	18.8	-1.09	- 3.1	2.5/10.7	15905
1986 TK ₁	93 12 05.8	04 49.62	+25 57.5	16.5	-1.23	- 4.5	1.5/06.2	22077	(5451)	93 12 11.2	05 13.42	+25 29.6	18.0	-1.08	- 1.0	0.8/11.4	21558
(5382)	93 12 05.8	04 49.91	+02 31.1	16.6	-0.93	- 2.1	7.1/03.7	21095	(5371)	93 12 11.2	05 13.59	+23 52.7	16.1	-0.90	- 3.5	0.3/11.4	21091
(5778)	93 12 05.9	04 50.25	+32 22.3	15.5	-1.14	- 7.0	3.7/07.5	22804	1989 YM	93 12 11.3	05 13.66	+36 49.4	15.5	-1.18	- 5.9	5.7/12.9	21973
6600 P-L	93 12 06.1	04 50.89	+23 04.3	17.4	-1.21	- 1.0	0.3/06.2	22701	1957 JP	93 12 11.3	05 14.04	+32 08.8	16.2	-1.15	+ 2.3	3.0/11.6	22822
3553 P-L	93 12 06.3	04 51.81	+30 23.3	16.7	-1.05	- 3.5	3.1/07.2	21977	1986 QJ ₂	93 12 11.6	05 15.11	+29 10.5	18.1	-0.92	- 0.7	1.7/12.0	22698
1980 RU	93 12 06.3	04 52.03	+48 26.8	16.3	-1.41	- 2.0	10.4/09.5	22823	1987 SO ₅	93 12 11.7	05 15.51	+35 28.6	16.4	-1.04	- 0.8	4.1/12.5	22698
5061 T-2	93 12 06.4	04 52.30	+30 54.0	17.5	-1.33	- 4.7	3.7/08.0	15258	1992 RA ₄	93 12 12.1	05 17.19	+25 31.8	18.7	-1.13	- 1.3	0.9/12.2	21586
1989 EE	93 12 06.4	04 52.51	-23 00.7	17.0	-0.82	- 1.6	16.1/27.8	21107	1991 GA	93 12 12.1	05 17.22	+32 04.3	16.6	-1.22	+ 1.2	3.3/12.4	22600
1986 PQ ₁	93 12 06.4	04 52.53	+21 42.8	16.7	-0.89	- 0.8	0.3/06.4	22698	3219 T-1	93 12 12.2	05 17.80	+28 43.0	18.7	-1.23	- 1.6	2.2/12.6	21601
(5211)	93 12 06.5	04 53.14	-17 19.6	16.7	-1.15	+ 6.1	15.6/08.1	20136	1991 LW	93 12 12.3	05 18.24	+19 28.1	17.0	-1.09	+ 2.6	1.3/12.3	22486
1991 CD ₁	93 12 06.8	04 54.21	-09 45.8	16.4	-1.10	+ 2.6	11.8/04.6	22083	1188 T-1	93 12 12.6	05 19.54	+33 19.5	17.3	-1.30	- 1.0	4.0/13.2	22087
(5252)	93 12 07.0	04 55.11	+09 40.1	16.9	-1.05	- 0.4	4.8/06.1	20489	(5783)	93 12 12.8	05 20.37	+29 45.9	15.6	-1.24	- 3.6	2.9/13.3	22805
1989 TT ₁	93 12 07.1	04 55.64	+17 43.6	15.7	-1.04	- 4.3	2.2/06.6	22825	1992 LK	93 12 12.9	05 20.85	+24 07.7	17.3	-1.21	+ 1.1	9.1/02.0	21977
1982 UJ ₇	93 12 07.2	04 55.84	+20 10.3	15.8	-0.90	- 0.5	0.9/07.0	22824	1982 UE ₇	93 12 12.9	05 20.88	+21 01.4	16.8	-0.92	- 0.8	0.8/13.0	22075
1978 TU ₈	93 12 07.2	04 55.91	+21 01.1	16.0	-0.94	- 1.9	0.6/07.1	20806	1990 BR ₁	93 12 13.0	05 21.51	+03 25.5	15.1	-0.93	+ 2.3	8.7/12.7	22272
(5247)	93 12 07.2	04 56.17	+02 10.0	16.2	-1.04	- 7.7	7.2/04.2	20487	1979 SK	93 12 13.1	05 21.96	+26 29.9	17.2	-1.24	- 2.7	1.5/13.4	21965
1981 EM ₃₈	93 12 07.3	04 56.39	+27 53.7	19.1	-1.02	- 2.7	2.1/07.9	22430	4272 T-2	93 12 13.2	05 22.57	+20 01.5	16.7	-1.16	+ 0.4	1.5/13.2	17978
1991 GB ₂	93 12 07.4	04 57.03	+04 46.1	16.9	-0.93	+ 0.3	5.8/06.2	21975	1985 JX ₁	93 12 13.5	05 23.60	+18 20.4	17.5	-1.16	- 0.2	1.9/13.4	21969
1980 GG	93 12 07.5	04 57.26	+18 30.9	16.9	-1.14	+ 0.5	1.6/07.3	18620	1179 T-2	93 12 13.6	05 24.11	+21 10.9	18.7	-1.07	- 1.3	0.7/13.5	22432
1978 RV ₇	93 12 07.5	04 57.43	+17 48.5	19.5	-0.94	- 1.8	1.5/07.1	21251	1990 BN ₂	93 12 13.7	05 24.57	+19 33.6	15.8	-1.10	+ 6.5	1.5/13.9	22826
(5279)	93 12 07.6	04 57.70	+13 28.8	16.9	-1.08	+ 1.9	3.1/07.3	20620	7072 P-L	93 12 13.7	05 24.61	-15 24.3	17.8	-1.11	- 7.8	19.1/07.2	22087
1990 QM ₂	93 12 07.6	04 57.75	-21 44.9	16.0	-1.13	+ 2.0	21.5/06.2	22699	(5314)	93 12 13.9	05 25.44	+10 54.7	15.7	-0.87	- 2.7	4.3/13.1	20790
1981 ED ₃₇	93 12 07.7	04 58.36	+27 43.5	17.5	-1.25	- 0.7	2.0/08.2	21967	1989 UM	93 12 14.0	05 25.59	+24 56.9	17.2	-1.18	- 1.5	0.7/14.1	22081
1989 VV	93 12 07.8	04 58.34	+22 09.7	16.4	-1.10	- 0.6	10.6/28.0	22825	1988 CA ₁	93 12 14.0	05 25.81	+16 27.6	17.5	-1.18	+ 0.7	3.0/13.8	21971
(5282)	93 12 07.9	04 59.23	+13 35.2	16.6	-0.95	- 4.9	3.2/06.9	20621	1182 T-3	93 12 14.2	05 26.75	+35 02.0	18.4	-1.04	- 1.6	3.8/14.9	22702
1989 AF ₇	93 12 08.2	05 00.41	+21 56.4	17.5	-0.89	- 1.3	0.3/08.2	21972	(5306)	93 12 14.2	05 26.84	+23 23.0	16.1	-0.98	+ 0.2	0.1/14.3	20787
1934 GA	93 12 08.2	05 00.48	+28 57.9	13.3	-1.40	+10.5	2.6/08.0	22822	1991 GQ ₁	93 12 14.3	05 27.11	+21 22.2	15.9	-0.96	+ 2.4	0.6/14.3	22826
(5430)	93 12 08.3	05 00.59	-04 55.8	17.1	-1.05	+ 2.9	9.1/07.3	21550	1981 EY ₃₈	93 12 14.9	05 29.56	+20 01.1	18.7	-1.13	- 3.5	1.1/14.7	22271
(5346)	93 12 08.3	05 00.63	+23 01.5	16.1	-0.92	- 0.6	0.1/08.4	20916	(5383)	93 12 14.9	05 29.70	+22 24.7	16.8	-0.98	+ 0.4	0.3/14.9	21095
1982 TF ₂	93 12 08.3	05 00.76	+24 20.2	16.4	-1.17	- 2.4	0.7/08.5	22075	2716 P-L	93 12 14.9	05 29.76	+18 57.7	19.7	-1.15	- 0.4	1.7/14.8	15901
(5355)	93 12 08.5	05 01.80	+21 40.7	15.8	-1.16	- 1.8	0.4/08.5	20919	(5405)	93 12 15.2	05 31.04	+37 03.6	17.9	-1.14	+ 0.2	4.1/15.7	21249
1981 EB ₂₈	93 12 08.6	05 02.04	+19 48.3	18.4	-1.13	- 1.3	1.1/08.4	22074	1978 SV ₇	93 12 15.3	05 31.37	+33 38.8	16.3	-1.08	- 1.2	3.7/15.8	21965
7082 P-L	93 12 08.6	05 02.08	-17 00.9	17.6	-1.07	- 7.7	20.1/01.6	22087	(5325)	93 12 15.3	05 31.47	-05 12.9	16.8	-1.04	+ 3.2	9.4/15.4	20795
4195 T-1	93 12 08.7	05 02.37	+21 10.7	17.8	-0.96	- 0.4	0.5/08.6	19879	1969 TX ₅	93 12 15.6	05 33.13	+50 30.6	16.6	-1.25	+ 1.8	7.5/16.1	22491
1978 PD ₃	93 12 08.8	05 02.93	+33 19.2	16.6	-1.23	- 3.0	4.6/09.9	22823	1144 T-3	93 12 15.7	05 33.13	+35 59.0	17.5	-1.07	- 1.5	4.4/16.4	22088
2225 T-2	93 12 09.0	05 03.77	+25 48.4	18.5	-1.12	- 1.1	1.1/09.3	22701	1986 JT	93 12 15.8	05 33.83	+14 52.8	17.7	-0.86	- 1.3	2.3/15.5	21970
1991 FS ₁	93 12 09.2	05 04.52	+23 06.5	17.7	-1.11	- 1.3	0.1/09.2	22826	1975 SJ ₁	93 12 15.9	05 34.48	+06 57.4	16.7	-0.80	- 1.7	4.6/15.2	21097
1992 QM	93 12 09.4	05 05.68	+29 02.7	17.3	-1.00	- 1.7	1.8/10.0	22488	6313 P-L	93 12 16.0	05 34.55	+26 17.6	18.5	-1.02	- 1.3	1.1/16.2	16036
9519 P-L	93 12 09.4	05 05.71	+28 10.2	18.8	-1.04	- 0.3	1.8/09.8	14631	7607 P-L	93 12 16.0	05 34.55	+21 24.7	16.8	-1.03	+ 2.4	1.0/16.0	22274
1984 SN ₄	93 12 09.5	05 06.15	+25 17.5	17.9	-1.10	- 1.6	0.9/09.8	18109	1991 JJ	93 12 16.0	05 34.89	+31 26.7	16.0	-1.17	+ 3.5	2.8/16.0	18442
1988 RJ ₁₃	93 12 09.9	05 07.97	+37 52.6	18.4	-1.26	+ 2.3	5.3/10.5	21972	1975 TK ₆	93 12 16.1	05 35.39	+25 30.4	16.0	-1.13	+ 4.0	0.8/16.2	22823
1987 QV ₁₀	93 12 10.0	05 08.02	+07 47.3	16.2	-0.87	+ 0.5	5.0/09.2	22824	1989 NH ₁	93 12 16.3	05 35.89	+17 33.7	17.6	-1.20	+ 1.4	2.3/16.3	22081

1991 EJ ₁	93 12 16.3	05 36.05	+12 49.2	15.4	-1.08	+ 1.2	4.4/16.2	22083	1983 RV ₃	93 12 22.2	06 02.40	+15 23.7	17.7	-0.96	+ 0.3	2.7/22.4	20331
1990 QC ₁₉	93 12 16.9	05 38.47	+55 04.9	16.3	-2.12	-15.4	16.5/23.4	20148	1978 PU ₂	93 12 22.2	06 02.43	+10 15.9	17.0	-0.94	+ 2.1	4.5/23.0	21964
1986 PC ₁	93 12 17.1	05 39.47	+21 03.9	17.0	-0.86	- 0.3	0.6/17.1	18810	(5326)	93 12 22.4	06 03.09	+01 00.8	17.1	-0.95	+ 1.0	7.6/22.9	20795
1988 TQ ₄	93 12 17.2	05 39.78	+21 54.1	15.8	-0.99	- 0.1	0.5/17.2	22825	1992 LP	93 12 23.2	06 06.47	+22 29.6	16.0	-1.21	+ 1.7	0.4/23.2	22827
1992 UP	93 12 17.3	05 40.32	+24 18.8	16.4	-0.88	+ 0.1	0.3/17.3	22085	1991 HA	93 12 23.2	06 06.56	+20 47.4	17.2	-1.09	+ 0.0	1.0/23.3	22826
1987 MM ₁	93 12 17.5	05 41.53	+11 07.0	16.8	-0.93	- 1.0	4.0/17.2	22493	1991 CC ₁	93 12 23.3	06 07.08	+14 07.1	16.0	-1.12	+ 1.6	3.8/23.5	22826
4171 T-2	93 12 17.6	05 41.52	+16 20.1	18.5	-1.05	+ 0.7	2.6/17.5	22701	(5375)	93 12 23.4	06 07.77	+23 32.2	17.7	-0.90	+ 0.7	0.0/23.5	21092
1982 RW ₁	93 12 18.0	05 43.84	+32 08.5	17.1	-1.29	- 0.1	3.8/18.3	21968	1982 VB ₁	93 12 23.5	06 07.75	+15 45.9	16.7	-1.11	- 1.5	3.3/23.5	22075
1981 EX ₁₄	93 12 18.1	05 44.13	+12 32.2	20.4	-0.91	- 1.5	3.4/17.8	22270	1981 TP	93 12 23.6	06 08.25	+24 47.2	16.9	-0.95	+ 0.3	0.5/23.6	20811
1992 PF ₂	93 12 18.2	05 44.41	+16 37.0	16.8	-1.13	- 1.5	2.5/18.0	22600	1990 DM ₂	93 12 23.6	06 08.60	+24 52.2	16.2	-1.01	- 0.6	0.5/23.7	22082
1978 TR ₂	93 12 18.3	05 44.71	+24 00.0	16.6	-0.99	- 0.7	0.2/18.3	17954	1982 DK	93 12 23.7	06 08.76	+21 09.5	15.8	-1.14	+ 5.7	0.9/23.9	22075
1977 AZ ₁	93 12 18.3	05 45.14	+22 18.3	15.4	-0.92	+ 3.2	0.4/18.4	22681	(5372)	93 12 23.8	06 09.32	+40 03.1	16.1	-1.08	+ 1.0	5.0/23.5	21091
3282 T-2	93 12 18.4	05 45.30	+30 26.6	18.9	-1.17	+ 0.8	2.6/18.5	15085	1981 EZ ₂₈	93 12 24.3	06 11.47	+63 33.7	18.6	-2.28	- 4.4	15.4/27.2	15409
1992 SZ ₁₄	93 12 18.5	05 45.62	+14 21.5	16.5	-0.90	- 2.4	2.8/18.1	22827	6531 P-L	93 12 24.4	06 11.93	+31 58.7	17.2	-1.29	+ 0.9	4.0/24.3	22701
(5367)	93 12 18.6	05 46.07	+19 09.3	15.8	-0.93	- 3.9	1.5/18.4	21089	1981 EW ₃₆	93 12 24.5	06 12.41	+25 20.7	19.7	-1.02	- 1.4	0.7/24.6	22271
1991 DM ₁	93 12 18.6	05 46.35	+04 11.7	16.4	-0.94	+ 0.6	6.2/18.6	22083	1992 PD ₆	93 12 24.6	06 13.00	+24 38.4	17.7	-1.14	+ 1.8	0.5/24.6	22407
1987 WJ ₁	93 12 18.9	05 47.34	+32 10.8	16.4	-1.00	+ 1.0	3.0/19.0	15250	1991 OK ₁	93 12 24.7	06 13.34	+30 52.3	16.6	-0.96	- 1.7	2.2/24.8	20930
1987 ML ₁	93 12 18.9	05 47.44	+08 54.8	16.3	-0.98	+ 2.9	4.7/19.2	21970	1989 WJ ₁	93 12 24.9	06 14.33	+14 40.6	16.1	-1.06	- 1.3	3.8/25.0	15724
1981 EJ ₄₀	93 12 19.0	05 47.9	+79 30.2	17.2	-3.93	- 6.0	23.3/07.2	22823	1980 RL ₇	93 12 25.2	06 15.72	+16 56.0	15.5	-1.05	- 3.1	2.6/25.2	22823
1969 QR	93 12 19.0	05 48.10	+17 47.6	17.1	-1.17	- 2.9	2.2/18.8	21963	1988 VB	93 12 25.4	06 16.31	+34 31.5	16.4	-1.15	+ 2.4	4.3/25.0	22080
1976 YA ₆	93 12 19.1	05 48.22	+28 37.6	15.8	-1.13	+ 4.0	1.8/19.0	21964	4116 P-L	93 12 25.5	06 16.67	+21 53.6	17.6	-1.26	+ 0.2	0.6/25.5	22827
1964 UP	93 12 19.2	05 49.11	+26 18.8	16.8	-1.27	- 1.5	1.2/19.4	22822	1991 PY ₅	93 12 25.9	06 18.55	+06 15.5	18.9	-0.81	+ 2.4	4.5/26.8	22083
1989 YP ₅	93 12 19.4	05 49.61	+17 33.2	16.8	-1.05	+ 1.6	2.3/19.5	21973	1982 SG ₁₂	93 12 26.1	06 19.27	+11 10.0	16.8	-1.05	+ 0.8	5.7/26.5	22697
1992 SA ₂₂	93 12 19.6	05 50.64	+29 07.9	17.4	-1.06	+ 0.5	2.0/19.7	22816	1282 T-2	93 12 26.2	06 20.20	+22 39.8	17.6	-0.98	+ 0.1	0.2/26.3	22087
1990 BZ ₁	93 12 19.6	05 50.65	+19 58.8	15.4	-0.99	- 1.4	1.5/19.6	22826	1981 EV ₂₇	93 12 26.4	06 20.82	+15 51.8	18.3	-0.95	+ 0.7	2.6/26.7	21101
1991 GV ₈	93 12 19.7	05 50.99	+25 11.9	17.7	-1.13	- 1.1	0.7/19.8	18637	1981 EZ ₁₀	93 12 26.5	06 21.51	+22 31.0	17.6	-0.99	- 0.5	0.3/26.6	22492
1986 EZ	93 12 19.7	05 51.02	+43 23.9	16.3	-1.29	- 0.3	7.3/20.0	22077	1989 BR ₁	93 12 26.6	06 21.66	+24 00.7	16.5	-0.86	+ 0.5	0.2/26.6	21972
1983 WJ	93 12 19.7	05 51.14	+22 33.8	15.8	-0.97	+ 1.1	0.3/19.8	22076	1992 OT	93 12 26.8	06 22.80	+05 17.0	16.8	-1.02	+ 2.8	6.5/28.1	20934
1978 RR	93 12 19.7	05 51.33	+34 08.5	18.2	-1.07	- 0.1	3.2/19.9	21964	1992 PJ ₂	93 12 26.9	06 23.14	+15 58.9	18.9	-1.05	+ 0.1	2.3/27.2	22085
1992 QB	93 12 19.8	05 51.35	+44 01.4	18.1	-1.52	+ 5.3	7.1/19.0	22432	1980 FO ₁	93 12 27.1	06 24.10	+24 32.4	16.0	-0.98	+ 0.2	0.4/27.1	22074
1989 AL ₅	93 12 19.9	05 52.10	+25 08.6	17.4	-0.88	+ 0.0	0.5/20.0	22080	1139 T-2	93 12 27.2	06 24.29	+13 41.8	19.2	-0.90	+ 0.6	2.9/27.6	22701
1985 UH ₃	93 12 20.2	05 53.42	+19 05.0	16.1	-1.12	+ 0.6	1.7/20.3	22493	1992 RK ₇	93 12 27.2	06 24.43	+21 12.8	17.4	-1.02	+ 2.2	0.8/27.4	21586
1981 EV ₈	93 12 20.3	05 53.83	+15 24.4	17.7	-1.15	- 1.4	3.4/20.2	21966	2604 P-L	93 12 27.2	06 24.49	+28 10.7	18.0	-1.21	+ 0.8	1.8/27.1	22827
(5328)	93 12 20.5	05 54.45	+13 52.2	16.0	-1.07	- 2.2	4.2/20.3	22476	1989 RO ₂	93 12 27.3	06 24.75	+67 30.1	15.5	-2.27	- 6.2	21.1/03.1	22599
(5765)	93 12 20.5	05 54.96	+31 32.5	15.1	-1.57	+20.7	3.7/19.2	22801	2257 T-2	93 12 27.3	06 25.03	+29 17.1	16.9	-1.14	+ 1.3	2.7/27.1	22701
1990 BH ₁	93 12 20.6	05 55.02	+26 18.0	16.0	-1.09	+ 2.4	1.2/20.6	22600	1992 SP ₂₄	93 12 27.5	06 25.50	+20 19.9	16.5	-0.90	- 1.3	1.1/27.6	22689
1976 YL ₃	93 12 20.8	05 55.71	+19 35.4	16.5	-0.90	+ 0.1	1.4/20.8	22222	1991 PQ	93 12 27.5	06 25.95	+38 13.0	15.4	-1.03	- 3.4	4.3/27.7	22826
1953 TD ₁	93 12 21.0	05 56.83	+15 35.6	16.1	-1.10	- 0.6	4.0/21.0	19494	1982 EF	93 12 27.6	06 26.02	+01 49.2	16.8	-0.94	+ 1.6	7.9/28.6	21968
(5118)	93 12 21.0	05 56.99	+18 16.3	15.6	-1.04	- 3.3	1.7/20.9	20784	1985 RS ₁	93 12 27.7	06 26.40	+27 24.8	17.2	-1.20	+ 1.0	1.6/28.0	22076
1970 JB	93 12 21.1	05 57.44	+35 20.8	17.7	-1.46	- 7.0	4.6/21.9	18412	1979 FA ₃	93 12 27.9	06 27.69	-03 37.9	16.5	-0.82	+ 0.5	7.8/29.0	21965
1987 QY ₁₀	93 12 21.2	05 57.94	+10 11.6	15.0	-0.89	+ 2.5	4.6/21.7	21971	(5268)	93 12 28.0	06 28.01	+05 01.8	17.0	-0.99	- 1.3	6.3/28.6	20615
1984 HP ₁	93 12 21.3	05 58.21	+25 38.2	16.6	-0.90	+ 0.3	0.6/21.4	21969	1992 SH	93 12 28.2	06 28.79	+05 29.9	17.4	-0.91	+ 0.6	5.5/29.0	21268
1981 QJ ₃	93 12 21.3	05 58.31	+20 30.7	17.9	-0.90	+ 0.4	0.9/21.4	21101	1986 QP ₂	93 12 28.2	06 29.00	+21 33.9	17.8	-0.87	+ 1.0	0.5/28.4	22077
1981 EM ₂₄	93 12 21.4	05 58.39	+27 31.5	17.2	-1.04	- 0.6	1.5/21.4	22697	(5398)	93 12 28.3	06 29.31	+30 53.0	15.5	-1.02	- 1.9	2.5/28.3	21246
1985 GA ₁	93 12 21.4	05 58.43	+16 56.0	17.3	-1.15	+ 1.5	2.5/21.5	22492	1981 EX ₃	93 12 28.4	06 29.88	+14 19.8	17.7	-0.97	- 1.9	3.5/28.6	22696
(5334)	93 12 21.6	05 59.27	+11 15.5	16.0	-1.11	+ 0.3	4.9/21.6	20799	1967 UT	93 12 28.5	06 30.37	+23 15.3	16.2	-1.12	+ 2.3	0.0/28.6	22072
4820 P-L	93 12 21.7	05 59.84	+36 23.2	18.3	-1.05	+ 1.0	4.2/21.6	21121	(5330)	93 12 28.5	06 30.40	+52 05.6	16.2	-1.69	- 7.3	9.3/30.3	20797
1989 TX ₁₅	93 12 21.8	06 00.50	+33 20.5	16.0	-1.29	+ 1.1	4.4/21.7	22825	1982 BE ₁	93 12 29.1	06 32.63	+16 27.2	15.7	-0.98	+ 4.6	3.1/29.7	22824
1978 WB	93 12 21.9	06 00.66	+25 45.5	16.5	-1.13	+ 1.2	1.1/21.9	18620	1987 SJ ₃	93 12 29.1	06 32.79	+67 12.5	16.4	-2.74	+ 1.0	19.6/27.5	22698
1188 T-2	93 12 21.9	06 00.71	+21 38.2	17.2	-1.10	- 0.8	0.7/21.9	22087	1988 RW ₁₂	93 12 29.4	06 34.05	+23 28.3	18.9	-1.07	+ 0.0	0.1/29.4	21972
1981 ER ₁₀	93 12 22.1	06 01.50	+22 27.5	17.4	-1.19	- 1.1	0.4/22.1	21966	1989 TE	93 12 29.4	06 34.29	+22 17.4	17.3	-1.22	- 0.5	0.4/29.5	21973

4040 P-L	93 12 29.4	06 34.32	+14 23.8	19.1	-0.94	+ 0.1	2.7/29.9	22694	1964 BF	94 01 05.0	07 03.26	+22 26.7	15.7	-1.12	+ 5.4	0.1/05.1	21963
1989 SR ₁	93 12 29.6	06 35.21	+25 32.1	17.4	-1.20	+ 2.9	0.9/29.5	21572	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 SC ₁	93 12 29.7	06 35.19	+23 27.4	16.8	-1.20	+ 0.3	0.1/29.7	22081	1987 RG ₆	94 01 05.1	07 03.57	+22 06.9	16.4	-0.94	+ 2.5	0.2/05.2	22430
1981 UM ₂₂	93 12 29.7	06 35.21	+18 46.4	15.8	-0.87	+ 1.3	1.4/30.0	21968	1352 T-2	94 01 05.1	07 03.79	+21 45.6	16.5	-1.10	+ 1.6	0.4/05.2	15080
1983 EB ₁	93 12 29.7	06 35.54	+18 40.6	15.6	-1.06	+ 1.4	2.0/30.0	22484	6058 P-L	94 01 05.1	07 03.93	+31 24.7	19.4	-1.14	+ 0.6	2.9/04.5	19875
1978 RQ ₉	93 12 30.0	06 36.51	+34 05.0	17.2	-1.29	+ 0.1	4.5/29.5	21251	1989 BA ₁	94 01 05.3	07 04.69	-18 32.0	16.9	-1.15	- 8.7	15.0/05.3	21972
1985 TR	93 12 30.0	06 36.81	+30 03.6	16.2	-1.15	+ 1.1	3.2/29.7	21566	1991 CX	94 01 05.4	07 04.73	+18 16.5	16.2	-1.16	+ 0.8	2.0/05.7	22273
1189 T-3	93 12 30.4	06 38.32	+24 33.4	19.3	-1.12	- 0.2	0.5/30.4	21604	1992 PH ₁	94 01 05.4	07 04.96	+25 08.9	18.3	-1.26	+ 0.1	1.0/05.3	22085
1989 AO ₆	93 12 30.5	06 38.80	+31 25.1	16.0	-1.02	- 1.4	2.8/30.3	22699	1981 EY ₃₉	94 01 05.5	07 05.31	+20 48.0	19.1	-1.16	+ 1.8	0.8/05.7	20629
(5400)	93 12 30.6	06 39.41	+23 59.7	16.1	-0.94	+ 0.9	0.3/30.6	21247	3175 T-3	94 01 05.6	07 05.68	+25 51.6	19.0	-0.97	+ 1.6	1.1/05.3	21127
1989 TY ₄	93 12 30.9	06 40.55	+14 27.8	18.9	-1.12	+ 2.1	3.3/31.5	20818	(5387)	94 01 05.7	07 06.32	+20 47.0	17.9	-1.08	+ 1.4	0.6/05.9	21242
1991 CT ₁	93 12 30.9	06 40.92	+33 29.4	16.2	-1.30	- 0.1	4.9/30.5	22273	1992 UO ₄	94 01 06.0	07 07.81	+33 18.7	15.7	-0.95	+ 4.2	3.0/04.7	21591
1985 RG	93 12 31.1	06 41.67	+24 53.6	16.8	-1.16	+ 1.1	0.8/31.1	22076	1981 RF	94 01 06.5	07 10.04	+21 18.0	16.5	-1.11	+ 3.3	9.6/27.0	21933
1991 PW ₁₂	93 12 31.1	06 41.89	+24 03.4	15.8	-0.89	+ 0.9	0.3/31.1	22273	1989 SB	94 01 06.8	07 11.15	+27 01.6	17.3	-1.25	+ 1.4	1.7/06.5	22081
1984 SU ₃	93 12 31.2	06 41.82	+30 54.8	17.3	-1.19	+ 2.0	3.0/30.7	9415	1990 TN ₃	94 01 06.8	07 11.25	+62 48.6	16.5	-2.31	+ 0.9	19.4/02.9	21974
1986 RB ₁₂	93 12 31.3	06 42.37	+17 38.2	15.6	-0.90	- 2.5	1.6/31.4	22698	(5313)	94 01 07.1	07 12.48	+21 40.0	15.8	-1.18	+ 4.0	0.3/07.2	20790
3212 T-2	93 12 31.3	06 42.46	+12 29.0	18.3	-1.03	+ 2.7	4.5/01.2	22088	1992 RC ₇	94 01 07.1	07 12.50	+20 32.6	16.9	-0.93	+ 2.5	0.6/07.4	22594
1054 T-3	93 12 31.4	06 43.27	+59 57.3	19.7	-2.32	- 0.9	17.2/30.1	19330	1987 VR	94 01 07.3	07 13.31	+09 01.9	16.3	-0.86	+ 0.8	4.5/08.6	21787
4592 P-L	93 12 31.5	06 43.27	+16 17.8	18.8	-0.94	+ 1.8	2.1/32.0	21600	(5594)	94 01 07.9	07 15.94	+16 58.4	16.2	-0.84	+ 3.9	1.6/08.6	22214
1992 OG ₂	93 12 31.5	06 43.62	+18 31.0	16.4	-1.00	+ 3.4	1.9/32.0	22057	1981 EF ₁₄	94 01 08.1	07 16.90	+20 45.4	18.3	-1.18	+ 1.1	0.6/08.3	22429
1992 SR ₂	93 12 31.6	06 43.79	+42 35.2	16.5	-1.23	+ 1.5	6.2/30.2	21977	1992 GH	94 01 08.3	07 17.42	+57 47.4	16.8	-2.32	- 5.3	17.6/07.6	21977
1992 RZ	93 12 31.8	06 44.87	+23 02.8	16.5	-0.97	+ 0.7	0.0/31.9	21977	1951 SY	94 01 08.3	07 17.43	-07 04.8	18.6	-0.98	+ 6.8	10.9/14.2	22491
1989 CL ₁	94 01 01.0	06 45.39	+24 38.7	16.2	-0.95	+ 1.9	0.6/31.9	22080	1979 SN ₄	94 01 08.3	07 17.76	+04 44.6	16.7	-0.92	+ 3.3	5.8/10.7	22073
1985 RJ ₅	94 01 01.1	06 46.27	+26 58.5	16.7	-1.17	+ 2.3	1.8/31.9	16697	(5243)	94 01 08.3	07 17.83	+11 20.7	17.3	-0.91	+ 1.7	3.3/09.5	20326
1978 US ₅	94 01 01.2	06 46.28	+45 54.0	19.2	-1.23	+ 1.1	6.3/30.8	21965	1989 CX ₂	94 01 08.4	07 18.13	+18 52.0	17.0	-0.93	- 0.7	1.1/08.7	21972
1984 DZ	94 01 01.2	06 46.62	+34 14.5	17.7	-1.29	+ 0.4	4.1/31.6	22824	(5246)	94 01 08.6	07 19.00	+13 41.9	18.0	-1.14	+ 2.9	3.1/09.6	20487
1979 MB ₆	94 01 01.2	06 46.63	+18 11.8	17.9	-1.19	+ 2.8	2.1/02.0	22270	1981 EQ ₂₈	94 01 08.7	07 19.32	+17 45.5	16.3	-0.97	+ 3.1	1.8/09.3	21967
3189 T-2	94 01 01.5	06 47.77	+33 49.8	19.1	-1.20	+ 1.9	4.7/31.8	22701	1991 RJ ₁₁	94 01 08.7	07 19.33	+22 20.0	18.7	-0.86	+ 2.1	0.0/08.7	20640
1978 VT ₁₀	94 01 01.7	06 48.84	+21 01.3	18.7	-1.12	+ 0.9	0.7/02.0	15876	1981 RJ ₅	94 01 08.7	07 19.54	+21 09.3	16.6	-0.92	+ 2.5	0.4/08.9	21254
1992 QG	94 01 01.9	06 49.63	+12 25.3	16.4	-1.04	+ 2.6	4.0/02.8	22085	(5298)	94 01 08.8	07 19.80	+24 12.5	16.5	-0.97	+ 2.3	0.7/08.6	20784
1991 NL ₁	94 01 02.1	06 50.40	+24 23.1	16.7	-0.88	+ 1.5	0.4/02.0	22273	1992 RT	94 01 08.8	07 19.95	+20 45.4	16.7	-0.94	+ 2.7	0.5/09.0	21267
1989 TF ₄	94 01 02.2	06 50.89	+14 36.1	17.8	-1.14	+ 2.6	3.5/02.9	22081	1992 SB ₁	94 01 08.9	07 20.11	+45 38.4	16.5	-1.16	+ 0.2	6.7/06.7	22085
1987 SM ₁₂	94 01 02.4	06 51.53	+24 32.8	17.2	-0.97	+ 1.0	0.6/02.3	22078	1989 TD	94 01 09.2	07 21.45	+23 44.6	17.8	-1.23	+ 1.0	0.7/09.1	21973
1989 SZ ₁	94 01 02.4	06 51.66	+17 08.2	17.8	-1.16	+ 2.3	2.2/02.9	22699	1981 EG ₂₄	94 01 09.2	07 21.55	+23 10.9	19.6	-0.98	+ 1.5	0.3/09.1	21967
1967 KB	94 01 02.4	06 51.69	+27 13.3	17.9	-1.07	+ 1.1	1.3/02.1	21963	(5055)	94 01 09.3	07 21.79	+20 28.2	16.9	-0.85	+ 2.2	0.4/09.5	19665
1992 PJ	94 01 02.4	06 51.83	+21 53.9	18.0	-1.23	+ 0.1	0.4/02.5	21584	1991 EU	94 01 09.3	07 22.22	+23 04.2	15.7	-1.12	+ 5.7	0.5/09.2	22083
1992 MB	94 01 02.5	06 52.04	+15 04.7	16.6	-1.14	+ 1.8	3.1/03.1	21977	1980 PB ₂	94 01 09.9	07 24.82	+07 32.2	17.2	-0.79	+ 2.0	4.0/11.8	22074
1986 PW ₄	94 01 02.5	06 52.31	+21 17.4	17.4	-0.87	+ 1.1	0.4/02.7	22077	1989 SS ₂	94 01 10.0	07 25.17	+16 15.5	18.2	-1.13	+ 4.4	2.3/10.8	20817
1986 WM ₅	94 01 02.6	06 52.50	+26 25.3	16.7	-0.93	- 1.1	1.0/02.4	22272	1985 JU ₁	94 01 10.2	07 25.75	+24 45.7	17.5	-1.20	+ 4.4	1.1/09.8	21934
1991 GV ₁	94 01 03.0	06 54.44	+17 15.9	16.4	-0.99	+ 3.1	1.7/03.6	21975	(5361)	94 01 10.4	07 26.74	+26 45.1	15.9	-0.91	+ 3.5	1.5/09.8	21086
(5360)	94 01 03.0	06 54.45	+53 29.3	16.4	-1.29	+ 1.4	9.0/31.3	21086	1981 ES ₂₇	94 01 10.5	07 27.49	+34 37.3	19.7	-1.35	+ 1.9	5.5/09.1	19859
1981 EX ₂₃	94 01 03.1	06 55.04	+21 13.0	19.1	-0.97	+ 0.7	0.5/03.3	21967	(5434)	94 01 10.6	07 27.69	-00 29.5	15.5	-0.79	+ 3.8	7.2/14.1	21909
3100 T-3	94 01 03.2	06 55.54	+19 14.5	18.3	-1.08	+ 2.2	1.3/03.6	22088	2040 P-L	94 01 10.6	07 27.82	+29 43.2	19.7	-1.33	+ 1.6	3.2/09.9	22700
1992 ST ₁	94 01 03.5	06 56.68	+28 37.9	16.7	-1.01	- 0.1	1.7/03.2	21117	1978 WC	94 01 10.6	07 27.89	+28 08.6	16.6	-1.15	+ 7.3	2.9/09.7	22073
1990 HF ₁	94 01 03.5	06 56.74	+07 57.2	15.2	-0.84	+ 6.2	4.5/05.6	22082	1987 HK	94 01 10.8	07 28.53	+22 31.2	17.0	-1.05	+ 1.9	0.2/10.8	21970
1981 EP ₄₀	94 01 03.8	06 58.15	+11 24.4	18.6	-1.10	+ 1.8	4.2/04.9	21968	1992 PW ₁	94 01 10.8	07 28.61	+19 23.2	16.3	-1.11	+ 2.8	1.1/11.2	22085
1981 EK ₄₁	94 01 03.9	06 58.56	+12 22.4	16.9	-1.10	+ 1.7	4.4/04.8	21968	1975 XF	94 01 10.8	07 28.69	+13 58.2	17.5	-1.10	+ 4.6	3.1/12.0	21964
1986 QO ₂	94 01 04.0	06 58.62	+21 58.8	17.3	-0.87	+ 1.6	0.2/04.1	21105	1991 ED	94 01 10.8	07 28.76	+33 27.6	17.7	-1.26	+ 3.1	4.4/09.4	18128
1979 MU ₈	94 01 04.7	07 01.98	+14 24.9	16.3	-1.01	+ 6.6	3.1/05.9	21965	1978 ON	94 01 10.9	07 28.78	+27 06.0	15.7	-1.03	+ 2.1	1.8/10.3	22823
1982 ST	94 01 04.9	07 02.53	+58 56.1	16.2	-2.33	- 8.0	18.4/06.3	22697	1989 EH ₆	94 01 11.2	07 30.47	+21 28.2	17.8	-0.85	+ 2.3	0.1/11.3	22080
3067 T-2	94 01 04.9	07 02.82	+20 44.8	16.7	-1.19	+ 2.9	0.9/05.1	22701	1981 EP ₁₉	94 01 11.4	07 31.01	+17 17.5	16.9	-1.13	+ 3.6	2.0/12.0	22074

1981 US ₁₄	94 01 11.4	07 31.12	+24 07.3	16.6	-1.11	+ 3.3	0.9/11.1	22075	(5275)	94 01 16.4	07 52.94	+12 01.4	16.8	-1.17	+ 2.3	3.4/17.7	20618
1990 FM ₁	94 01 11.7	07 32.69	+19 15.1	15.5	-0.95	+ 5.8	1.0/12.0	16437	1988 RR ₂	94 01 16.5	07 53.20	+18 31.4	17.8	-1.05	+ 3.5	0.8/16.9	22079
1981 EA ₁₂	94 01 11.8	07 32.96	+17 47.1	17.5	-1.12	+ 2.0	1.9/12.3	22823	(5022)	94 01 16.5	07 53.29	+05 40.9	16.8	-0.80	+ 1.4	4.2/18.9	19488
1981 SE ₂	94 01 12.0	07 33.66	+22 11.7	17.4	-1.12	+ 3.8	0.2/12.0	12325	1986 TR ₃	94 01 16.7	07 53.81	+21 46.8	18.0	-0.84	+ 2.2	0.2/16.6	22078
1981 EF ₄₂	94 01 12.1	07 34.31	+24 01.8	19.1	-0.99	+ 2.4	0.7/11.9	21968	1987 YL ₁	94 01 16.9	07 54.68	+11 42.5	17.1	-0.79	+ 5.0	2.4/18.6	21971
1987 KD ₁	94 01 12.2	07 34.57	+04 19.5	17.2	-0.91	+ 4.3	5.1/14.9	21970	1981 EV ₇	94 01 17.0	07 55.30	+16 21.0	18.9	-0.95	+ 1.7	1.5/17.7	22270
4186 P-L	94 01 12.2	07 34.78	+18 37.0	19.3	-1.03	+ 2.3	1.0/12.7	22086	1989 WL	94 01 17.2	07 55.94	+27 17.2	15.5	-1.05	+ 6.1	3.1/16.0	22081
1981 TJ ₃	94 01 12.2	07 34.80	+21 34.7	16.2	-0.90	+ 3.0	0.0/12.3	22074	1991 CX ₂	94 01 17.2	07 56.33	+13 36.0	17.2	-1.11	+ 4.6	2.7/18.4	22083
1991 HM	94 01 12.3	07 35.35	+36 07.7	17.1	-1.22	+ 4.9	5.3/10.1	20508	3005 P-L	94 01 17.2	07 56.39	+16 35.6	18.4	-0.91	+ 0.2	1.3/17.8	22700
1981 PF	94 01 12.4	07 35.31	+10 34.9	18.5	-1.03	+ 5.5	3.7/14.2	20811	1981 SJ	94 01 17.3	07 56.56	+21 29.7	18.3	-1.11	+ 2.6	0.3/17.2	22697
6602 P-L	94 01 12.4	07 35.41	+33 30.9	19.1	-1.34	+ 1.6	5.3/11.1	22701	1990 HR	94 01 17.7	07 58.46	+42 11.5	16.4	-1.00	+ 3.5	5.6/13.8	22082
1986 CV ₁	94 01 12.7	07 36.71	+22 57.0	16.4	-1.15	- 2.4	0.5/12.6	22077	1992 UG ₂	94 01 17.9	07 59.03	+40 36.1	16.7	-1.21	+ 3.2	6.5/14.4	21589
1986 QB ₃	94 01 12.7	07 36.95	+23 21.9	17.3	-0.88	+ 2.6	0.5/12.5	21935	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 ₁₀	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	22825
1986 UY	94 01 12.9	07 37.92	+29 48.9	16.4	-1.27	+ 0.7	3.9/12.1	22272	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 ₅	94 01 13.0	07 37.89	-00 07.0	15.6	-0.90	+ 2.2	8.9/16.1	16029	1981 EF ₁₃	94 01 18.0	07 59.31	+33 39.3	18.0	-1.17	- 1.1	4.9/16.5	21100
1978 VE ₁₅	94 01 13.0	07 38.06	+25 09.6	16.2	-1.15	+ 3.9	1.6/12.5	22073	1974 RY ₁	94 01 18.0	07 59.31	+16 43.7	18.1	-1.06	+ 3.4	1.3/18.6	22822
1986 TB ₅	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	1988 TQ	94 01 18.5	08 01.77	+21 55.6	16.9	-1.01	+ 4.0	0.5/18.3	22080
1992 RQ	94 01 13.1	07 38.45	+21 13.7	18.0	-0.89	+ 2.7	0.1/13.2	21114	1977 AL ₁	94 01 18.6	08 02.05	+30 56.9	16.6	-1.06	+ 5.2	3.4/16.7	21964
1981 EO ₃₂	94 01 13.1	07 38.76	+19 37.0	19.8	-0.98	+ 1.1	0.6/13.4	22271	1981 EH ₁₉	94 01 18.6	08 02.40	+26 12.9	16.9	-1.22	+ 2.6	2.5/17.8	22823
1991 FO	94 01 13.3	07 39.28	+10 50.4	16.3	-1.06	+ 3.2	4.5/14.8	21109	4262 T-2	94 01 18.7	08 02.63	+24 27.8	18.7	-1.21	+ 4.9	1.7/18.1	22088
1981 EZ ₁₅	94 01 13.3	07 39.68	+23 18.2	17.3	-1.21	- 0.8	0.9/13.2	21967	1988 RB ₁₂	94 01 18.8	08 03.08	+27 02.6	18.6	-1.10	+ 2.0	2.1/17.9	22079
1991 PB ₁₂	94 01 13.5	07 40.11	+14 58.8	17.2	-0.82	+ 0.9	1.7/14.3	22273	1287 T-1	94 01 18.9	08 03.26	+17 16.4	18.0	-1.12	+ 3.2	1.3/19.4	22701
1991 GG ₁₀	94 01 13.5	07 40.46	+21 04.2	15.8	-1.06	+ 5.8	0.2/13.6	18826	1983 CZ ₂	94 01 18.9	08 03.31	+25 06.5	15.9	-1.16	- 1.1	2.2/18.4	8138
1988 VQ ₂	94 01 13.6	07 40.51	+42 38.6	17.0	-1.24	+ 4.2	6.7/10.4	21972	1986 PN ₄	94 01 18.9	08 03.46	+25 24.0	16.9	-0.95	- 0.3	1.4/18.3	22698
1992 UK ₁	94 01 13.7	07 41.11	+15 50.2	17.1	-0.94	+ 0.6	1.7/14.4	21945	1991 PS ₆	94 01 19.8	08 07.01	+21 20.3	16.2	-0.88	+ 4.1	0.4/19.6	22083
1981 EW ₃₈	94 01 13.9	07 42.09	+20 02.3	18.9	-0.99	+ 1.0	0.5/14.1	22697	(5412)	94 01 19.8	08 07.31	+24 01.6	17.9	-1.09	+ 3.1	1.3/19.2	21543
1992 RM ₂	94 01 13.9	07 42.19	+37 19.8	18.1	-1.25	- 0.5	5.4/12.3	22432	6073 P-L	94 01 19.9	08 07.43	+24 25.5	18.4	-1.00	+ 2.0	1.4/19.2	22087
1038 T-2	94 01 14.5	07 44.68	+18 14.5	19.4	-1.17	+ 2.9	1.4/15.0	16242	1931 TC ₂	94 01 20.2	08 08.90	+29 38.3	17.2	-1.08	+ 1.5	2.9/18.8	22696
3081 P-L	94 01 14.5	07 44.68	+07 42.2	17.1	-0.85	+ 1.2	4.1/16.5	22821	1981 EA ₂₂	94 01 20.2	08 09.07	+05 07.2	18.0	-0.87	+ 5.3	5.0/23.3	22598
1989 CJ ₁	94 01 14.6	07 45.06	-03 08.2	15.3	-1.24	+19.3	11.0/21.5	22825	1992 NM	94 01 20.4	08 09.91	+20 20.9	16.4	-1.13	+ 5.5	0.1/20.4	22085
1992 RJ	94 01 14.9	07 46.05	+09 09.5	16.5	-0.91	+ 4.7	4.3/17.0	21114	1989 YA ₂	94 01 20.4	08 09.96	+16 27.6	15.8	-1.03	- 0.4	1.7/21.0	22699
1970 OF	94 01 14.9	07 46.05	+25 42.5	17.4	-1.10	+ 0.9	1.5/14.4	22072	1991 PE ₁	94 01 20.4	08 10.01	+12 35.2	19.0	-0.77	+ 5.3	1.8/22.0	22083
1977 RD ₂	94 01 14.9	07 46.42	+25 41.7	16.4	-0.98	+ 2.8	1.6/14.3	22073	1976 SK ₃	94 01 20.5	08 10.15	+34 51.9	16.8	-1.01	+ 1.9	4.3/18.0	22270
6045 P-L	94 01 15.1	07 47.26	+08 16.8	15.8	-0.90	+ 2.5	5.4/17.1	22827	1981 ED ₄₃	94 01 21.0	08 12.32	+30 21.6	18.4	-1.00	+ 2.3	2.9/19.3	21968
1981 EA ₅	94 01 15.2	07 47.61	+11 51.2	18.0	-0.99	- 0.5	3.7/16.3	20497	1989 EC ₂	94 01 21.0	08 12.49	+28 15.8	16.6	-0.91	+ 2.6	2.5/19.6	21973
2280 T-2	94 01 15.3	07 47.85	+15 51.7	17.1	-1.12	+ 3.8	2.4/16.1	22274	1987 VA ₁	94 01 21.0	08 12.57	+40 59.7	15.4	-1.09	+ 2.8	6.6/17.0	22825
1977 EK ₁	94 01 15.3	07 47.90	+11 48.4	17.0	-1.08	+ 3.0	4.1/16.6	21559	1990 BZ	94 01 21.3	08 13.41	+24 17.9	16.4	-1.22	- 3.0	1.8/20.9	21108
7063 P-L	94 01 15.5	07 48.77	+15 46.3	18.3	-1.08	+ 2.1	1.8/16.2	22087	1983 RY ₄	94 01 21.3	08 13.72	+11 01.2	16.1	-0.97	+ 1.3	2.9/22.8	22076
1988 RE ₁₀	94 01 15.8	07 50.21	+17 46.1	19.4	-1.02	+ 3.4	1.1/16.4	22272	2636 P-L	94 01 21.3	08 13.85	+16 28.6	17.6	-1.09	+ 4.2	1.3/22.0	22086
1981 EL ₁₂	94 01 15.8	07 50.25	+21 19.2	18.4	-1.18	+ 0.6	0.1/15.8	22270	1988 RN ₁₁	94 01 21.4	08 13.98	+18 31.1	18.9	-0.54	+ 1.8	0.2/21.7	20146
1976 UP ₂	94 01 15.9	07 50.50	+30 13.8	17.9	-1.29	+ 2.7	4.0/14.7	15699	1989 CW ₂	94 01 21.4	08 14.22	+10 21.0	16.6	-0.87	+ 1.1	2.9/23.0	21972
(5379)	94 01 15.9	07 50.56	+27 21.2	15.9	-1.14	+ 3.1	2.5/15.0	21094	4119 P-L	94 01 21.5	08 14.45	+12 57.7	18.9	-1.12	+ 4.3	2.6/22.8	22086
1987 WT ₁	94 01 16.1	07 51.27	+23 28.7	16.7	-0.87	+ 3.7	0.8/15.7	19021	(5345)	94 01 21.9	08 16.08	+20 20.2	17.5	-1.04	+ 1.1	8.5/11.0	20915
2093 P-L	94 01 16.1	07 51.69	+07 50.5	17.6	-0.83	+ 1.9	3.9/18.2	21977	1981 EU ₈	94 01 22.0	08 16.30	+25 44.5	16.7	-1.09	- 0.3	2.2/21.2	22074
1992 OO	94 01 16.3	07 52.26	+16 07.1	17.1	-1.09	+11.3	1.7/17.4	22407	1988 RT ₁₁	94 01 22.1	08 16.99	+22 03.9	18.6	-1.04	+ 3.1	1.0/21.7	18114
1984 SC ₁	94 01 16.3	07 52.28	+40 31.4	17.7	-1.28	+ 0.5	6.6/13.9	22599	3295 T-2	94 01 22.1	08 17.13	+13 01.3	18.6	-0.99	+ 5.2	2.4/23.5	21126
5004 P-L	94 01 16.3	07 52.42	+05 32.4	17.4	-0.81	+ 2.2	4.1/18.8	21600	1992 UG ₄	94 01 22.2	08 17.48	+28 01.9	17.0	-0.91	+ 3.5	2.4/20.7	21590
3474 T-3	94 01 16.4	07 52.83	+25 36.8	17.7	-1.13	+ 4.0	1.9/15.7	20519	1991 GU ₉	94 01 22.2	08 17.52	+27 54.4	16.2	-1.06	+ 7.3	3.0/20.5	18440
3196 T-3	94 01 16.4	07 52.85	+23 00.3	18.3	-1.07	+ 3.4	0.7/16.1	22088	1987 BB ₂	94 01 22.4	08 18.23	+15 43.6	16.0	-1.02	+ 2.8	2.0/23.1	12207

1991 JH ₁	94 01 22.5	08 18.71	+17 38.7	16.3	-1.09	+ 4.7	0.8/22.9	22431	1992 OY ₂	94 01 28.4	08 43.03	+17 24.7	17.9	-1.01	+ 5.6	0.3/28.6	21977
1981 VK	94 01 22.5	08 18.83	+20 40.4	17.4	-0.86	+ 2.8	0.3/22.4	21102	1992 SX ₁₇	94 01 28.4	08 43.17	+39 15.8	15.9	-1.17	- 1.4	6.7/25.0	21270
1981 EL ₃₃	94 01 22.7	08 19.56	+18 13.7	19.3	-1.13	+ 2.2	0.4/23.0	22599	1991 NE ₁	94 01 28.5	08 43.44	+17 25.0	16.6	-0.88	+ 1.1	0.2/28.7	22231
1990 UR ₁	94 01 22.7	08 19.60	-19 11.0	16.0	-1.27	- 1.0	18.2/30.5	22826	1981 EL ₁₀	94 01 28.5	08 43.53	+17 16.1	18.9	-0.95	+ 2.3	0.3/28.7	22696
2140 P-L	94 01 22.8	08 19.66	+32 26.9	17.3	-1.10	+ 1.1	4.1/20.7	21977	1992 SV ₁₂	94 01 28.7	08 44.28	+28 38.8	17.3	-1.21	+ 2.9	3.8/26.7	21118
1972 TF	94 01 22.8	08 20.01	+13 00.0	17.2	-1.10	+ 5.1	2.6/24.1	22822	1976 SG ₂	94 01 28.8	08 44.81	+08 49.0	15.7	-1.04	+ 6.4	4.2/31.0	22482
1978 OP	94 01 22.8	08 20.04	+24 31.1	18.3	-0.95	+ 6.7	1.5/21.8	22696	1988 TN ₂	94 01 29.0	08 45.47	-04 07.3	17.3	-0.89	+ 5.4	7.1/03.4	22080
2908 T-2	94 01 23.0	08 20.56	+09 30.2	17.3	-0.98	+ 4.1	4.1/24.9	21978	2319 T-2	94 01 29.0	08 45.48	+14 06.0	18.5	-1.12	+ 4.5	1.5/29.8	21125
1986 AH	94 01 23.3	08 21.84	+17 27.9	15.4	-1.25	+23.3	0.9/23.9	22824	(5358)	94 01 29.3	08 46.97	+26 49.7	14.9	-1.09	- 0.5	3.3/27.9	20920
1981 UT ₇	94 01 23.5	08 22.62	+18 48.9	17.3	-0.83	+ 3.1	0.2/23.6	22271	1986 UG	94 01 29.3	08 47.09	+17 45.2	16.4	-1.11	+ 5.8	0.1/29.4	22824
1990 BU	94 01 23.5	08 22.70	+26 37.2	15.9	-1.14	- 0.1	2.5/22.5	22082	1991 PE	94 01 29.6	08 47.97	+18 22.5	17.8	-0.79	+ 3.6	0.1/29.5	22083
2221 P-L	94 01 23.5	08 22.81	+13 43.5	20.0	-1.13	+ 3.3	2.2/24.5	22274	5175 T-3	94 01 29.6	08 48.04	+27 16.9	16.7	-0.96	+11.0	4.2/26.9	22702
1991 GC ₇	94 01 23.5	08 22.85	+29 27.6	17.2	-1.19	+ 3.5	4.6/21.7	22826	1986 TL	94 01 29.6	08 48.13	+16 10.5	16.6	-0.84	+ 1.7	0.4/30.0	21970
2150 T-2	94 01 23.8	08 24.04	+04 25.7	18.6	-0.84	+ 3.7	4.1/26.9	16037	(5668)	94 01 29.8	08 49.11	+29 13.5	16.1	-1.19	+ 3.3	5.1/27.5	22579
1989 SL ₁	94 01 24.0	08 24.88	+19 35.0	15.4	-1.08	+ 6.8	0.1/24.0	22081	1981 QE	94 01 29.8	08 49.12	+16 00.9	17.2	-1.06	+ 4.4	0.7/30.2	21563
(5536)	94 01 24.4	08 26.79	+09 14.5	15.5	-1.11	+ 2.0	4.1/26.2	22037	1953 GH	94 01 29.9	08 49.25	+05 50.1	16.1	-0.79	+ 4.6	3.5/01.7	22822
1992 SR ₁₂	94 01 24.4	08 26.85	+23 14.9	16.3	-0.94	+ 3.4	1.4/23.7	22085	1989 EQ	94 01 29.9	08 49.28	+18 57.0	15.3	-0.96	+ 0.4	0.4/29.7	22431
1981 QE ₁	94 01 24.5	08 26.91	+17 22.6	16.5	-1.08	+ 3.2	0.8/24.9	21563	1977 EX	94 01 30.0	08 49.78	+15 46.9	15.4	-1.10	- 1.5	0.8/30.3	19856
1986 WB ₁	94 01 24.7	08 27.84	+12 45.6	15.8	-1.07	+ 2.1	3.1/25.8	22078	1988 VL	94 01 30.0	08 49.96	+02 34.4	16.7	-0.89	+ 5.2	4.9/02.7	22080
1979 XQ	94 01 25.0	08 28.88	+25 24.1	16.8	-1.18	+ 3.8	2.5/23.8	22823	1978 VB ₆	94 01 30.1	08 49.99	-18 50.7	18.0	-1.09	- 1.4	12.9/05.2	22270
1986 EQ ₅	94 01 25.1	08 29.58	+38 01.3	15.5	-1.17	+ 2.4	6.5/21.4	22077	(5373)	94 01 30.2	08 50.39	+21 08.3	16.9	-0.98	+ 3.8	1.2/29.5	21091
1992 OK	94 01 25.2	08 29.99	+09 35.1	19.1	-0.94	+ 2.6	2.8/27.1	21267	(5144)	94 01 30.2	08 50.50	+20 14.4	16.8	-0.51	+ 1.4	0.4/29.6	19850
1981 EO ₃₅	94 01 25.3	08 30.16	+13 26.3	19.6	-1.12	+ 2.4	2.1/26.3	22430	1977 FN	94 01 30.4	08 51.54	+03 30.9	16.9	-0.96	+ 0.8	4.7/02.1	19012
1988 XH ₁	94 01 25.3	08 30.38	+33 40.8	16.5	-1.04	+ 5.4	4.4/22.1	22080	1988 QY	94 01 30.9	08 53.54	-19 35.5	18.0	-0.52	+ 1.4	6.0/09.9	20814
1985 RK ₅	94 01 25.3	08 30.55	+22 25.4	19.3	-1.09	+ 4.8	1.2/24.7	14350	1991 FT	94 01 30.9	08 53.66	+27 48.2	16.9	-1.18	+ 2.8	3.8/28.9	21975
1987 DF	94 01 25.4	08 30.97	-01 56.1	16.1	-0.98	+ 9.7	7.5/30.6	22078	1991 NA ₂	94 01 31.0	08 53.70	+18 02.8	17.0	-0.93	+ 7.0	0.2/30.9	21976
1982 SH ₁	94 01 25.5	08 30.96	-17 05.2	18.9	-1.08	+ 9.9	16.4/05.7	8393	6783 P-L	94 01 31.1	08 54.17	+25 50.9	19.4	-1.00	+ 3.2	2.8/29.3	21600
1991 PR ₁₂	94 01 25.8	08 32.20	+18 19.7	17.9	-0.80	+ 2.9	0.1/25.9	22273	6519 P-L	94 01 31.1	08 54.29	+23 12.6	16.2	-0.90	+ 3.2	2.2/29.9	22274
1992 SO ₂₄	94 01 25.8	08 32.48	+05 46.5	17.3	-0.96	+ 3.2	5.5/28.4	22689	1974 OE	94 01 31.2	08 54.75	+28 26.5	17.4	-1.18	+ 3.2	4.1/28.9	21963
1991 GA ₁	94 01 25.9	08 32.64	-08 53.2	17.5	-0.96	+ 5.0	8.7/31.9	21975	1989 WR	94 01 31.2	08 54.87	+28 43.5	17.3	-1.21	+ 3.5	4.2/29.0	15723
4250 T-3	94 01 26.0	08 33.47	+16 58.8	18.1	-1.03	+ 5.2	0.7/26.5	16884	(5476)	94 01 31.6	08 56.31	+01 45.0	17.6	-0.50	+ 2.5	2.7/04.5	21774
1986 QS ₃	94 01 26.1	08 33.60	+14 33.0	17.5	-0.82	+ 5.8	1.2/27.1	21970	1989 SB ₃	94 01 31.6	08 56.36	+17 04.3	18.6	-1.09	+ 6.4	0.1/31.7	20818
1986 RD ₅	94 01 26.3	08 34.73	+22 21.0	17.1	-0.88	+ 2.5	1.0/25.7	22077	1989 TU ₅	94 01 31.6	08 56.50	+18 16.4	17.5	-0.54	+ 2.4	0.2/31.4	22431
1985 UQ	94 01 26.5	08 35.42	+22 59.5	18.1	-1.08	+ 5.0	1.5/25.7	21970	1985 QL ₄	94 02 01.2	08 58.81	+19 40.7	16.8	-0.79	+ 4.7	0.7/31.6	21970
1981 EJ ₂₃	94 01 26.7	08 36.15	+23 09.8	17.3	-1.01	+ 2.3	1.7/25.9	22430	1991 JL	94 02 01.3	08 58.98	+08 29.7	16.9	-1.04	+ 5.6	3.6/03.2	18442
1981 EM ₃₀	94 01 27.0	08 37.28	+17 46.7	17.8	-0.95	+ 4.4	0.3/27.2	20810	1981 EA ₂₉	94 02 01.4	08 59.47	+05 01.4	18.2	-0.89	+ 5.5	4.2/04.4	22697
1983 AB	94 01 27.1	08 38.07	+22 29.8	15.9	-1.02	+ 5.8	1.8/26.3	21969	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 TZ ₁	94 01 27.3	08 38.47	+24 27.6	16.1	-1.19	+ 6.2	2.5/26.1	22493	1992 QA	94 02 02.3	09 03.16	+68 29.5	17.5	-2.43	+ 5.9	23.4/17.0	22600
(5014)	94 01 27.5	08 39.52	+19 38.1	17.5	-0.79	+ 3.3	0.3/27.3	19485	(5130)	94 02 02.4	09 03.90	-02 39.6	17.0	-0.51	+ 1.6	3.4/07.3	22203
(5312)	94 01 27.7	08 40.26	+20 33.3	17.6	-0.89	+ 3.9	0.7/27.3	20789	3104 T-3	94 02 02.6	09 04.28	-03 50.6	17.6	-0.49	+ 2.9	3.5/08.1	22601
1986 QA ₄	94 01 27.7	08 40.51	+18 12.5	17.1	-0.83	+ 3.6	0.0/27.8	22077	1988 VH	94 02 02.7	09 04.84	-01 44.9	17.3	-0.92	+ 2.7	5.8/06.9	22080
1936 NB	94 01 27.8	08 40.51	+13 31.2	17.9	-0.88	+ 0.2	1.2/28.6	22072	9512 P-L	94 02 02.7	09 04.88	+16 57.6	16.0	-1.10	+ 6.0	0.1/02.7	22827
1981 EA ₇	94 01 27.8	08 40.57	+12 36.4	18.1	-1.14	+ 2.6	2.2/28.9	21966	1991 GE ₂	94 02 02.7	09 04.89	+28 20.0	16.9	-1.05	+ 8.0	3.8/30.6	21793
1982 PC	94 01 27.9	08 41.16	+14 56.2	18.0	-1.08	+ 5.3	1.2/28.7	22075	1989 CE ₂	94 02 02.7	09 05.15	+22 33.1	15.0	-1.85	- 9.0	3.0/02.4	22825
1981 EO ₁₅	94 01 28.0	08 41.42	+07 11.8	16.7	-0.90	+ 3.4	3.9/30.3	22074	(5309)	94 02 02.9	09 05.83	+10 34.7	17.8	-1.04	+ 5.1	2.1/04.4	20788
1982 SA ₄	94 01 28.0	08 41.71	+26 26.4	17.0	-1.17	+ 3.9	2.9/26.4	22075	1981 EM ₄₅	94 02 03.1	09 06.34	+21 54.2	19.6	-1.01	+ 1.3	1.7/02.0	22271
1979 PA	94 01 28.1	08 41.76	+00 18.9	18.7	-0.91	+ 2.7	5.3/31.7	21965	1978 UJ ₄	94 02 03.1	09 06.44	+08 59.4	19.5	-1.05	+ 4.4	2.7/04.9	20921
1989 XO	94 01 28.1	08 41.97	+14 01.1	15.1	-1.10	+ 1.0	1.8/28.9	21973	1977 XZ ₂	94 02 03.1	09 06.68	+17 31.8	16.8	-0.86	+ 3.5	0.3/03.0	21783
(5365)	94 01 28.1	08 42.11	+20 19.9	16.9	-1.13	+ 4.8	0.8/27.7	21088	1981 EE ₁₁	94 02 03.2	09 07.21	+17 03.8	18.9	-1.13	+ 3.7	0.2/03.2	22270
1989 RZ	94 01 28.2	08 42.68	+46 27.6	14.4	-1.94	-15.1	14.8/29.1	22699	1981 EV ₄₁	94 02 03.5	09 08.11	+17 27.5	18.2	-0.96	+ 3.1	0.4/03.3	22430
1992 UV	94 01 28.3	08 42.74	+06 35.6	16.1	-0.84	+ 2.8	3.5/30.8	22085	(5540)	94 02 03.5	09 08.17	+09 34.3	18.6	-0.92	+ 4.2	2.0/05.2	22038

1985 RL ₃	94 02 03.6	09 08.39	+26 21.0	16.5	-1.12	+ 6.9	3.9/01.1	22076	1983 CO ₃	94 02 08.3	09 27.38	-00 17.1	16.6	-0.92	- 0.8	5.6/11.5	15708
1992 UT ₅	94 02 03.7	09 08.86	+14 05.6	15.5	-0.87	+ 4.0	0.7/04.3	22085	1981 ET ₂₃	94 02 08.3	09 27.45	+23 07.7	18.5	-1.19	+ 3.4	3.1/06.5	15703
1992 UB ₁	94 02 03.7	09 09.09	+05 57.8	16.5	-1.02	+ 3.4	3.8/06.0	22085	1985 PQ	94 02 08.3	09 27.61	+12 54.9	17.0	-1.06	+ 7.1	0.8/08.9	18426
(5677)	94 02 04.0	09 10.02	+14 07.1	16.0	-0.88	+ 4.2	0.7/04.5	22581	1991 GZ	94 02 08.4	09 27.65	+07 35.7	16.7	-1.03	+ 4.8	3.0/10.2	22083
(5419)	94 02 04.0	09 10.10	+14 04.4	16.9	-0.83	+ 2.6	0.6/04.6	21546	1982 UD ₂	94 02 08.4	09 27.69	+18 57.3	16.8	-0.87	+ 4.0	1.2/07.4	21968
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 RQ ₇	94 02 08.4	09 27.77	+11 29.6	17.9	-0.82	+ 2.4	0.9/09.3	19314
1988 RO ₁₀	94 02 04.1	09 10.58	+04 13.9	20.5	-0.49	+ 4.3	2.1/07.5	15891	6074 P-L	94 02 08.5	09 28.07	+15 23.4	19.4	-1.11	+ 5.0	0.2/08.4	21121
1989 SL	94 02 04.1	09 10.68	+04 58.0	16.5	-1.07	+ 4.0	4.5/06.7	22081	1992 UK ₅	94 02 08.6	09 28.55	+23 05.4	17.5	-1.07	+ 5.0	2.6/06.6	21592
1988 SW ₁	94 02 04.1	09 10.71	+37 40.0	19.3	-0.64	+ 1.9	3.7/29.4	21972	1985 UJ ₃	94 02 08.6	09 28.75	+15 57.3	18.2	-1.03	+ 5.2	0.3/08.4	22077
9535 P-L	94 02 04.2	09 10.79	+10 53.3	18.4	-0.87	+ 5.7	1.8/05.6	22087	1978 VU ₇	94 02 08.6	09 28.76	+15 22.4	16.4	-0.89	+ 3.9	0.2/08.6	22270
1991 NU	94 02 04.4	09 11.60	-06 25.5	16.3	-0.90	+ 3.1	7.3/09.8	22083	1987 QM	94 02 08.7	09 28.89	+22 15.2	17.8	-1.01	+ 1.1	2.0/07.1	21971
1982 RW	94 02 04.5	09 12.23	+16 52.5	17.5	-1.11	+ 4.2	0.3/04.4	22824	(5366)	94 02 08.8	09 29.47	+12 43.5	17.5	-1.03	+ 6.3	0.7/09.4	21088
1980 RP	94 02 04.6	09 12.84	+25 33.5	17.8	-0.91	+ 1.0	2.4/02.6	22823	1983 RT ₄	94 02 08.9	09 30.00	+01 25.6	17.8	-0.86	+ 5.5	4.1/12.6	21969
1991 QE	94 02 05.1	09 14.85	+47 42.4	17.6	-1.14	+ 1.2	7.8/28.3	22084	1986 PS ₄	94 02 09.0	09 30.22	+14 12.0	17.4	-0.89	+ 2.0	0.2/09.2	22077
1992 SQ ₂₃	94 02 05.4	09 15.95	+03 53.3	19.3	-0.98	+ 4.7	3.7/08.4	21798	1988 SK ₂	94 02 09.1	09 30.40	+14 05.6	19.3	-0.52	+ 2.7	0.1/09.3	21972
(5404)	94 02 05.5	09 16.02	+31 19.7	15.5	-1.26	+ 2.3	6.1/02.2	21248	1984 HL ₁	94 02 09.1	09 30.49	+19 15.5	15.0	-1.03	+ 3.8	2.2/08.0	22824
1991 LC ₁	94 02 05.5	09 16.33	+00 28.9	16.9	-0.95	+ 4.7	5.2/09.3	21975	1982 FN	94 02 09.1	09 30.55	-12 42.2	17.1	-0.82	+12.7	10.5/18.7	21968
1987 BC ₂	94 02 05.6	09 16.83	+10 58.1	16.6	-1.11	+ 3.8	2.0/06.8	22078	1981 ED ₂₈	94 02 09.3	09 31.59	+13 39.2	18.6	-0.88	+ 5.1	0.3/09.7	22598
1988 VR ₅	94 02 05.7	09 17.07	-05 51.1	17.7	-0.89	+ 4.3	7.0/11.4	22080	(5087)	94 02 09.4	09 31.86	+08 31.9	16.6	-0.86	+ 5.3	2.1/11.1	19827
(5257)	94 02 05.8	09 17.51	+16 23.8	19.1	-0.53	+ 2.7	0.1/05.7	20491	1975 UF	94 02 09.5	09 32.24	+16 00.3	18.0	-0.80	+ 4.3	0.4/09.2	22072
1991 PO ₂	94 02 05.9	09 17.61	+18 35.9	17.5	-0.83	+ 4.1	0.9/05.2	21976	1978 PE	94 02 09.5	09 32.45	+15 38.3	18.0	-1.02	+ 6.7	0.4/09.3	21964
1988 RR ₁₀	94 02 06.1	09 18.40	+06 06.1	20.6	-0.49	+ 3.8	1.7/08.8	15560	1991 PE ₅	94 02 09.6	09 32.46	+12 41.2	16.3	-0.86	+ 4.1	0.6/10.1	22083
(5385)	94 02 06.2	09 18.99	+29 37.3	17.6	-0.87	+ 3.3	3.5/02.7	21241	1981 EL ₂₁	94 02 09.8	09 33.36	+11 23.3	16.0	-0.88	+ 4.6	1.0/10.7	20810
1992 TY	94 02 06.2	09 19.10	+16 08.5	16.7	-1.06	+ 6.8	0.2/06.1	22827	1975 VB ₁	94 02 09.8	09 33.45	+22 09.4	17.3	-0.81	+ 4.5	2.1/07.8	21250
1989 TY ₁₀	94 02 06.2	09 19.13	+08 10.6	17.8	-1.05	+ 6.2	2.9/08.1	17444	1980 FH ₂	94 02 09.9	09 33.73	+15 19.0	17.0	-1.07	+ 3.7	0.3/09.7	22074
1992 ON	94 02 06.3	09 19.36	+40 08.1	19.4	-2.03	- 4.4	10.5/02.6	21267	1984 SZ ₁	94 02 09.9	09 33.73	+13 25.6	16.7	-1.00	+ 3.6	0.4/10.2	22430
(5414)	94 02 06.4	09 19.75	+18 36.0	16.8	-0.88	+ 3.8	0.9/05.7	21544	1988 MG	94 02 10.0	09 34.26	+11 00.2	17.3	-1.05	+ 4.5	1.2/10.9	22079
1992 UP ₆	94 02 06.5	09 20.10	-03 16.7	17.3	-0.79	+ 4.1	5.4/11.6	22085	1992 SF ₁₃	94 02 10.0	09 34.33	+09 16.6	16.1	-0.91	+ 5.6	2.0/11.5	22237
1988 RN ₁₀	94 02 06.5	09 20.23	+09 57.2	19.6	-0.50	+ 4.2	1.0/08.1	15891	1975 TQ ₃	94 02 10.1	09 34.40	+34 27.9	17.5	-1.08	+ 3.1	6.1/05.0	21963
1070 T-2	94 02 06.5	09 20.49	+08 02.5	18.8	-0.96	+ 5.9	2.7/08.5	22274	1992 UH ₄	94 02 10.1	09 34.75	+33 14.4	17.5	-1.00	+ 5.2	5.5/04.9	21590
1981 EH ₂₀	94 02 06.6	09 20.41	+12 43.0	19.2	-0.91	+ 4.8	0.9/07.3	21967	1992 PS ₆	94 02 10.1	09 34.83	+04 23.7	16.2	-1.01	+ 4.3	4.1/12.7	21585
1982 RO ₁	94 02 06.6	09 20.42	+10 33.1	16.9	-1.07	+ 4.9	2.0/07.8	20630	1991 OH ₁	94 02 10.2	09 35.06	+17 11.0	17.4	-0.85	+ 4.9	0.8/09.5	21265
4631 P-L	94 02 06.6	09 20.60	+26 54.0	16.8	-1.17	+ 2.8	4.7/04.1	21120	1974 SF	94 02 10.3	09 35.56	+08 31.6	18.6	-0.99	+ 6.2	2.0/11.9	22072
1992 UY ₅	94 02 06.6	09 20.66	+07 22.2	16.7	-0.78	+ 6.2	2.4/08.9	21276	1989 XB	94 02 10.5	09 36.10	+15 41.3	16.0	-0.95	+ 9.5	0.6/10.1	22081
(5638)	94 02 06.7	09 21.08	+11 18.7	16.8	-0.50	+ 3.4	0.7/07.9	22477	1992 UE ₃	94 02 10.7	09 37.00	+18 13.0	16.7	-0.88	+ 4.9	1.3/09.7	21273
1981 ET	94 02 06.9	09 21.67	+25 15.4	17.4	-0.96	+ 2.7	2.7/04.6	21966	1990 FD ₁	94 02 10.9	09 37.67	+28 33.5	15.2	-0.91	+ 9.8	5.4/06.3	21974
1975 SF ₁	94 02 06.9	09 21.83	+28 33.6	17.0	-1.05	+ 3.7	4.3/03.7	18281	1978 VD ₇	94 02 10.9	09 37.92	+18 47.1	18.1	-0.89	+ 4.7	1.5/09.8	22696
1988 RH ₁₁	94 02 06.9	09 21.99	+13 41.0	20.6	-0.50	+ 2.4	0.3/07.5	15713	1976 QN	94 02 10.9	09 38.00	+14 20.5	17.3	-1.11	+ 5.5	9.9/22.0	22270
1987 RT ₃	94 02 06.9	09 22.07	+15 32.7	16.0	-0.99	+ 1.0	0.0/07.0	22078	1978 SS ₇	94 02 11.0	09 38.08	+18 59.9	16.2	-1.12	+ 2.2	2.2/10.0	22073
1975 LR	94 02 07.0	09 22.36	+29 45.6	16.2	-0.88	+ 5.0	4.1/03.2	21963	2480 T-3	94 02 11.0	09 38.40	+22 15.4	16.4	-1.15	+ 2.2	3.3/09.2	22432
1992 SD ₁	94 02 07.0	09 22.44	+31 14.6	16.9	-1.07	+ 4.2	5.3/03.1	22085	2651 P-L	94 02 11.2	09 38.94	+18 29.5	20.0	-1.01	+ 3.7	1.4/10.2	21977
(5233)	94 02 07.2	09 23.05	+15 01.1	18.7	-0.53	+ 2.9	0.1/07.3	20323	(5377)	94 02 11.3	09 39.51	+15 38.2	15.4	-1.12	+ 3.5	0.7/11.0	21093
5191 T-3	94 02 07.2	09 23.09	+14 34.1	17.9	-0.48	+ 3.3	0.1/07.5	22432	1977 RD	94 02 11.4	09 39.75	+38 11.0	19.0	-1.31	- 0.9	6.6/06.0	20139
1991 OL ₁	94 02 07.2	09 23.17	+16 59.4	17.5	-0.78	+ 4.1	0.4/06.8	22273	1992 WW ₅	94 02 11.6	09 40.47	+12 16.0	17.1	-0.85	+ 4.7	0.5/12.1	22827
1985 RZ ₁	94 02 07.5	09 24.27	+20 11.6	17.1	-1.11	+ 4.3	1.9/06.4	22271	1982 UF ₂	94 02 11.6	09 40.64	+04 21.1	17.1	-1.01	+ 5.6	3.7/14.2	22075
(5439)	94 02 07.6	09 24.70	+16 09.7	17.8	-0.64	+ 2.9	0.2/07.4	21554	1992 UZ ₃	94 02 11.8	09 41.28	+16 30.6	17.7	-0.84	+ 3.8	0.7/11.2	21275
1977 RR ₆	94 02 07.7	09 25.22	+20 01.7	17.4	-1.07	+ 3.4	1.7/06.7	22073	1991 SK	94 02 11.8	09 41.33	+22 08.3	16.8	-0.83	+ 2.9	2.2/09.7	21266
1987 WU ₂	94 02 07.7	09 25.25	+12 04.3	17.5	-0.92	+ 2.3	0.9/08.5	22272	1986 EJ ₁	94 02 11.9	09 41.57	+34 53.2	16.8	-1.21	+ 1.3	7.3/06.7	22077
1986 RX ₂	94 02 07.9	09 25.73	+16 07.8	17.8	-0.81	+ 3.5	0.3/07.7	22272	4035 T-3	94 02 11.9	09 41.86	+36 14.7	19.2	-0.63	+ 1.8	3.9/05.3	22088
1992 SW ₁₇	94 02 07.9	09 25.84	+00 31.9	15.8	-0.95	+ 1.3	4.6/11.2	21798	3108 T-3	94 02 12.0	09 41.92	+15 56.0	18.6	-0.51	+ 2.5	0.4/11.4	22414
1992 TD ₁	94 02 07.9	09 26.03	-04 28.1	17.4	-0.87	+ 6.2	6.2/13.5	22600	1992 UO ₃	94 02 12.0	09 42.24	+32 11.5	17.2	-1.07	+ 3.2	5.6/07.3	22273

(5363)	94 02 12.1	09 42.52	+08 52.9	16.5	-1.07	+ 5.3	1.9/13.4	21087	1992 RG ₄	94 02 16.7	10 00.49	+08 52.2	19.5	-0.95	+ 7.5	1.1/17.7	21586
(5523)	94 02 12.3	09 43.20	+18 06.4	16.0	-0.87	+ 5.0	1.4/11.1	21921	1981 EM ₁₃	94 02 16.7	10 00.53	+02 02.8	18.1	-0.99	+ 5.3	4.6/19.5	22270
1991 HH	94 02 12.6	09 44.35	+05 41.5	17.2	-0.99	+ 4.9	2.7/14.7	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
1989 SN ₅	94 02 12.6	09 44.41	+07 30.2	17.3	-1.04	+ 6.6	2.6/14.3	21973	1983 RC ₄	94 02 16.8	10 01.03	+11 50.1	18.9	-0.88	+ 6.6	0.1/17.0	22076
1992 WP ₃	94 02 12.7	09 45.01	+03 13.3	16.9	-0.83	+ 2.5	3.0/15.4	21945	1988 RG ₁₀	94 02 16.9	10 01.36	+13 16.2	18.4	-0.52	+ 2.4	0.2/16.6	21972
1989 UO ₁	94 02 12.8	09 45.06	+08 15.4	17.5	-1.04	+ 6.3	1.9/14.2	22825	1981 EW ₉	94 02 17.0	10 01.60	+11 01.1	18.0	-1.10	+ 4.0	0.4/17.3	22397
1990 FR	94 02 12.8	09 45.34	+27 28.7	14.7	-0.70	+15.8	6.4/07.4	22826	1991 JA	94 02 17.1	10 01.85	+26 48.8	16.7	-1.10	+ 5.5	6.0/12.9	18441
1981 EU ₃₇	94 02 13.0	09 46.25	+06 38.2	19.9	-0.91	+ 3.8	2.5/14.9	22430	1992 OF	94 02 17.1	10 02.18	+17 39.3	18.9	-0.97	+ 5.2	1.7/15.6	22432
4232 T-1	94 02 13.3	09 47.04	+25 03.6	16.9	-1.00	+ 1.8	4.7/10.4	22087	1990 FS ₁	94 02 17.2	10 02.56	+21 04.2	15.5	-0.84	+10.9	3.4/14.2	22082
1991 NG ₁	94 02 13.3	09 47.38	+09 14.3	17.1	-0.85	+ 2.3	1.2/14.4	22273	1989 AL ₇	94 02 17.3	10 02.99	+11 49.7	16.9	-0.82	+ 5.1	0.0/17.4	22226
1981 SL	94 02 13.3	09 47.40	+04 53.3	18.6	-0.94	+ 6.1	2.6/15.7	21968	3034 P-L	94 02 17.5	10 03.63	-02 13.6	17.9	-0.77	+ 4.1	3.9/21.7	22086
1989 XD ₁	94 02 13.6	09 48.19	+12 27.3	18.0	-1.02	+ 7.5	0.3/13.8	16031	1982 VY ₂	94 02 17.6	10 03.77	+13 59.1	16.7	-0.82	+ 5.4	0.7/17.0	22075
1992 WO ₄	94 02 13.6	09 48.28	+25 02.7	17.4	-0.89	+ 4.9	3.2/10.3	22085	1949 QL	94 02 17.6	10 03.81	+13 19.5	16.1	-1.13	+ 3.6	0.5/17.3	21559
1978 SQ ₄	94 02 13.6	09 48.52	+17 21.5	17.4	-1.12	+ 3.7	1.6/12.7	22050	1979 QK ₆	94 02 17.7	10 04.10	+15 06.4	17.6	-1.05	+ 7.0	1.1/16.8	22073
1992 RV ₁	94 02 13.7	09 48.59	+12 11.2	16.0	-0.98	+ 2.3	0.5/14.0	21585	1983 NR	94 02 17.7	10 04.10	+04 08.6	16.4	-1.04	+ 0.8	2.6/19.5	22076
1981 EC ₂₇	94 02 13.8	09 49.01	+13 50.2	17.7	-0.89	+ 5.1	0.2/13.6	22074	1981 EA ₂₆	94 02 17.8	10 04.70	+08 12.0	17.3	-0.85	+ 5.1	1.5/18.9	21967
1988 SY ₁	94 02 13.9	09 49.63	+26 02.7	17.3	-1.08	+ 4.9	4.7/10.5	20502	1981 VU	94 02 17.9	10 04.89	+09 01.8	17.4	-0.98	+ 6.0	1.0/18.7	22430
(5228)	94 02 14.0	09 50.06	+11 41.4	17.3	-0.77	+ 4.2	0.4/14.5	20320	1981 ER ₂₄	94 02 18.0	10 05.43	+09 03.3	18.7	-1.03	+ 6.1	1.1/18.8	22697
(5432)	94 02 14.1	09 50.41	+17 08.7	16.7	-0.93	+ 5.5	1.4/13.0	21551	(5120)	94 02 18.1	10 05.74	-09 33.8	17.4	-0.53	+ 0.9	3.3/24.4	19841
1992 QC	94 02 14.1	09 50.41	+46 17.2	19.3	-1.39	+ 1.7	9.6/05.4	22237	(5443)	94 02 18.1	10 05.87	+08 24.5	15.0	-1.11	- 0.3	1.4/18.9	21555
(5495)	94 02 14.2	09 50.89	+25 50.7	16.5	-0.80	+ 3.1	3.3/10.7	21909	1989 EC	94 02 18.1	10 05.94	+25 05.0	14.4	-2.05	-11.7	7.2/17.1	17207
1991 NG	94 02 14.6	09 52.21	-05 31.7	15.8	-0.95	+ 1.8	5.8/19.2	22083	1978 SP ₅	94 02 18.1	10 06.08	+07 54.9	17.2	-0.84	+ 5.6	1.2/19.3	22696
1988 RT ₁₂	94 02 14.7	09 52.44	+06 34.6	20.1	-0.46	+ 2.8	1.0/16.6	21972	1992 SG ₁	94 02 18.3	10 06.77	+06 29.1	17.1	-0.85	+ 9.6	1.7/20.0	21116
1992 WA ₄	94 02 14.7	09 52.74	+21 54.5	17.4	-0.81	+ 4.4	2.5/12.2	22274	1978 SA ₇	94 02 18.5	10 07.43	+15 21.7	17.2	-0.94	+ 3.1	1.2/17.6	22073
(5613)	94 02 14.7	09 52.81	+14 46.5	16.7	-0.83	+ 4.0	0.6/14.3	22389	(5319)	94 02 18.5	10 07.61	+03 05.6	16.3	-0.99	+ 6.9	3.2/21.0	20792
1988 PK	94 02 14.8	09 53.03	+10 53.3	18.5	-0.94	+ 6.1	0.6/15.4	22430	1976 QC ₁	94 02 18.7	10 08.35	+11 38.3	17.7	-1.09	+ 5.3	0.1/18.7	22823
1990 TV ₁₂	94 02 14.8	09 53.10	-17 54.5	18.1	-0.50	+ 1.8	4.9/24.6	19867	1978 UL ₆	94 02 18.8	10 08.42	+08 24.5	19.1	-1.01	+ 5.7	1.1/19.7	21560
1971 SX ₃	94 02 14.8	09 53.14	-02 57.3	15.7	-0.81	+ 8.5	6.0/20.0	22696	1989 YR	94 02 19.0	10 09.21	+15 02.1	16.2	-0.95	+ 6.9	1.6/18.0	22081
1991 NV ₃	94 02 14.9	09 53.48	+17 09.0	16.6	-0.86	+ 4.9	1.3/13.7	22826	1107 T-2	94 02 19.0	10 09.25	+08 38.0	18.9	-0.85	+ 4.4	0.8/19.8	21978
(5391)	94 02 14.9	09 53.57	+13 34.4	16.6	-1.05	+ 4.8	0.3/14.8	21243	1982 UF ₇	94 02 19.0	10 09.36	-00 00.8	17.1	-0.78	+ 5.0	3.2/22.5	21564
1975 VV ₂	94 02 15.0	09 53.62	+36 46.9	18.5	-0.93	+ 2.8	6.0/08.1	21963	1992 UC ₄	94 02 19.2	10 10.00	+14 22.2	16.1	-0.79	+ 5.6	1.0/18.3	21590
(5449)	94 02 15.0	09 53.69	+13 10.8	16.4	-0.89	+ 2.0	0.1/14.9	21557	(5423)	94 02 19.3	10 10.59	+12 04.7	15.4	-1.00	+ 3.4	0.4/19.2	21548
2251 T-1	94 02 15.1	09 54.04	+17 31.6	18.0	-0.91	+ 3.8	1.7/13.8	22087	1988 RY ₁₀	94 02 19.4	10 10.91	+13 01.1	19.1	-0.49	+ 2.9	0.3/18.9	21972
1991 JY ₁	94 02 15.2	09 54.61	-20 02.4	16.7	-0.86	+ 5.4	9.2/25.8	20639	1975 TR ₂	94 02 19.5	10 11.31	+13 04.6	17.2	-0.76	+ 5.1	0.5/19.0	21963
2035 T-3	94 02 15.3	09 55.05	+14 23.0	19.4	-0.51	+ 2.1	0.3/14.9	22432	(5397)	94 02 19.6	10 11.71	-06 41.5	17.2	-0.87	+ 5.9	5.5/25.1	21245
1978 QA ₂	94 02 15.3	09 55.10	+08 42.2	18.7	-0.99	+ 6.2	1.3/16.5	21964	1983 RM ₂	94 02 19.7	10 11.83	+15 48.8	18.3	-0.89	+ 5.4	1.3/18.3	22271
1991 NQ	94 02 15.4	09 55.24	-12 10.1	16.2	-1.27	- 4.6	10.1/19.3	22273	1988 RD ₁₂	94 02 19.7	10 12.21	+11 57.1	19.0	-0.50	+ 2.4	0.1/19.5	15560
1989 GB ₁	94 02 15.4	09 55.34	+04 05.0	16.1	-0.77	+ 4.5	2.7/17.9	21973	1985 UF ₅	94 02 19.8	10 12.33	+04 51.4	16.6	-0.95	+ 6.9	2.5/21.7	22077
1975 SK	94 02 15.4	09 55.39	+16 12.8	17.0	-0.81	+ 4.3	1.0/14.4	21963	(5315)	94 02 20.0	10 13.28	+07 08.9	16.9	-0.99	+ 8.1	1.4/21.2	20791
(5386)	94 02 15.7	09 56.70	+25 53.5	16.4	-1.08	+ 7.7	4.9/11.8	21241	1988 SG ₃	94 02 20.1	10 13.68	+33 46.9	19.9	-0.56	+ 3.1	3.6/12.4	15892
1988 RG ₁	94 02 15.8	09 56.87	+06 13.2	17.7	-0.47	+ 4.7	1.0/17.9	21972	1992 PT ₂	94 02 20.1	10 13.76	+03 58.9	17.3	-1.00	+ 5.8	2.6/22.2	22495
1991 JD ₁	94 02 16.1	09 57.90	-03 16.1	16.4	-1.01	+ 3.5	5.9/20.1	22083	1986 TQ	94 02 20.3	10 14.14	+20 06.1	17.2	-0.93	+ 1.1	2.6/18.0	21970
1988 RA ₂	94 02 16.2	09 58.61	+10 39.8	17.7	-0.94	+ 5.8	0.5/16.7	22079	1977 QN ₂	94 02 20.3	10 14.20	+09 46.4	19.0	-0.98	+ 4.8	0.4/20.6	22429
1991 GR ₂	94 02 16.2	09 58.65	+15 15.9	17.6	-1.04	+ 5.0	1.0/15.5	21793	1977 EG ₇	94 02 20.4	10 14.90	+06 09.1	17.9	-0.96	+ 7.4	1.6/21.9	21964
1987 SG ₁	94 02 16.3	09 59.07	+03 37.5	18.4	-0.86	+ 7.2	2.6/19.0	22078	1981 RF ₇	94 02 20.5	10 14.89	+15 36.4	18.4	-0.87	+ 2.9	1.3/19.2	22074
(5159)	94 02 16.3	09 59.11	+07 23.0	16.8	-0.81	+ 7.3	1.6/17.9	19993	(5442)	94 02 20.5	10 15.04	+11 51.6	17.0	-0.84	+ 4.3	0.3/20.2	21555
4667 P-L	94 02 16.4	09 59.42	+21 44.0	18.3	-0.92	+ 3.8	2.7/13.9	15904	1990 BJ	94 02 20.5	10 15.12	-18 10.7	16.8	-1.22	+ 0.1	10.3/28.2	21973
1988 SD	94 02 16.4	09 59.49	+18 44.7	17.2	-1.05	+ 4.2	2.2/14.8	22431	1981 EK ₁₂	94 02 20.9	10 16.64	+01 07.7	17.9	-0.98	+ 6.7	4.1/23.8	22270
1991 PQ ₁	94 02 16.5	09 59.48	+12 11.6	17.1	-0.82	+ 5.2	0.0/16.5	21976	1989 RJ	94 02 21.0	10 17.04	+04 47.6	16.8	-1.02	+ 7.5	2.5/22.8	22272
(5445)	94 02 16.5	09 59.65	+01 38.5	14.8	-0.97	+ 3.3	4.3/19.2	21556	1987 QF ₇	94 02 21.0	10 17.18	+00 41.6	17.7	-0.82	+ 5.0	2.8/24.1	22272
1982 TB ₂	94 02 16.6	10 00.23	+04 24.3	16.1	-1.03	+ 4.5	3.2/18.7	21968	1991 NL	94 02 21.2	10 17.62	-12 56.5	17.5	-0.92	+ 2.9	7.2/27.8	19309

1988 RX ₄	94 02 21.2	10 17.93	+14 51.4	17.6	-0.95	+ 6.0	1.4/20.0	22599	1992 SG	94 02 24.2	10 29.45	+21 47.5	15.7	-1.18	- 0.5	4.7/21.5	22085
1977 NK	94 02 21.3	10 18.05	+14 20.5	16.8	-0.97	+ 7.9	1.3/20.2	22073	2400 T-3	94 02 24.4	10 29.90	+07 24.1	16.5	-0.99	+ 4.1	0.8/25.0	21954
1989 UF	94 02 21.3	10 18.24	+01 30.9	17.2	-0.99	+ 7.8	3.6/24.1	22081	1989 UC ₅	94 02 24.5	10 30.16	-00 17.5	20.8	-0.46	+ 3.1	1.5/27.7	18118
(5289)	94 02 21.3	10 18.38	+01 11.6	16.7	-0.74	+ 6.2	2.6/24.4	20623	2247 T-3	94 02 24.7	10 31.12	+05 31.7	16.9	-1.04	+ 4.2	1.5/25.8	19883
(5648)	94 02 21.5	10 19.05	+38 16.2	17.0	-0.57	+ 2.6	4.1/11.9	22480	4277 T-1	94 02 24.8	10 31.35	+05 30.7	16.7	-0.70	+ 6.1	1.0/26.0	19880
1991 NY	94 02 21.5	10 19.09	+05 08.9	18.0	-0.87	+ 5.7	1.5/23.2	21975	2281 T-2	94 02 24.8	10 31.38	+09 58.1	17.4	-0.87	+ 4.4	0.2/24.6	21953
(5119)	94 02 21.6	10 19.13	+04 02.4	17.6	-0.52	+ 1.6	1.0/23.5	19840	1992 UO ₂	94 02 24.8	10 31.45	+28 36.1	15.8	-1.10	+ 2.1	6.1/19.5	22085
1988 VS ₂	94 02 21.6	10 19.48	-06 46.8	17.3	-0.84	+ 6.5	5.2/27.2	21260	1986 QO ₁	94 02 24.9	10 31.67	+13 40.1	17.7	-0.81	+ 5.5	1.3/23.5	19674
1980 PZ	94 02 21.7	10 19.57	+07 21.3	17.3	-1.02	+ 2.7	1.0/22.5	21561	(5176)	94 02 25.0	10 32.07	+19 21.5	16.3	-0.88	+ 5.5	2.8/21.9	19999
1979 FD ₂	94 02 21.7	10 19.76	+11 24.1	15.9	-0.88	+ 7.1	0.4/21.5	22491	(5341)	94 02 25.0	10 32.28	+08 03.4	17.3	-1.06	+ 5.8	0.4/25.4	20802
1981 EZ ₁₈	94 02 21.7	10 19.88	+08 21.4	17.2	-0.88	+ 4.7	0.7/22.4	19858	1979 FQ ₂	94 02 25.1	10 32.55	+26 22.0	16.4	-0.88	+ 4.1	5.2/19.7	21965
1991 NM ₆	94 02 21.8	10 20.28	+11 03.3	16.1	-0.83	+ 6.6	0.2/21.7	20023	1992 WH	94 02 25.1	10 32.77	+00 24.5	17.1	-0.95	+ 5.8	3.1/27.8	22237
1981 EB ₃₃	94 02 21.8	10 20.29	+06 04.4	19.6	-0.86	+ 4.8	1.3/23.1	11046	1986 UQ	94 02 25.2	10 33.04	+05 05.8	16.6	-1.06	+ 6.4	1.6/26.4	22824
1988 RL ₁₃	94 02 21.9	10 20.29	+30 51.6	20.0	-0.55	+ 2.5	3.3/15.1	21972	1983 XH ₁	94 02 25.2	10 33.14	+05 11.5	15.7	-0.80	+ 8.1	1.4/26.6	21969
1992 SN	94 02 21.9	10 20.51	+06 21.1	16.6	-0.93	+ 3.7	1.3/23.1	21115	1980 UC	94 02 25.4	10 33.91	+11 49.7	17.8	-0.73	+ 4.6	0.7/24.6	21966
1988 UA	94 02 21.9	10 20.64	+08 36.8	17.9	-0.93	+ 5.3	0.5/22.5	22080	1981 UC ₂₆	94 02 25.4	10 33.97	+08 42.7	18.0	-0.76	+ 5.4	0.1/25.6	22075
1983 AN ₂	94 02 22.0	10 20.67	+26 21.7	16.1	-0.84	+ 4.8	4.4/17.0	22271	(5097)	94 02 25.5	10 33.97	+12 17.0	17.6	-0.88	+ 6.1	1.0/24.5	19832
1981 EB ₃₇	94 02 22.0	10 20.74	+16 29.0	18.2	-0.98	+ 2.7	2.1/20.4	22430	1987 QR ₁₁	94 02 25.5	10 34.01	+00 10.6	15.0	-0.98	+ 1.9	3.5/27.8	22224
1949 QC ₁	94 02 22.1	10 21.07	+09 58.4	17.4	-1.10	+ 3.8	0.1/22.2	22072	1986 SD ₂	94 02 25.6	10 34.40	-02 45.6	15.9	-0.87	+ 1.9	3.6/28.9	21970
1988 SP ₂	94 02 22.1	10 21.35	+05 50.1	20.6	-0.45	+ 3.6	0.7/23.6	15560	1981 EZ ₇	94 02 25.6	10 34.43	+01 04.6	18.4	-0.83	+ 5.5	2.3/28.1	21966
(5447)	94 02 22.2	10 21.57	+13 32.6	15.7	-0.93	+ 1.7	1.1/21.4	21557	1989 YG	94 02 25.6	10 34.72	+14 53.5	16.5	-1.07	+ 3.8	2.3/24.1	21262
(5593)	94 02 22.2	10 21.80	+07 34.7	15.3	-0.89	+ 9.1	1.2/23.1	22213	1973 SB ₆	94 02 25.7	10 34.94	+09 39.5	18.3	-0.93	+ 6.1	0.2/25.5	22072
1992 WC ₈	94 02 22.3	10 21.86	+14 18.5	16.3	-0.83	+ 5.5	1.3/21.1	22274	1986 TZ ₁₁	94 02 25.8	10 35.44	+03 04.0	17.9	-0.76	+ 3.8	1.5/27.6	21970
1981 EY ₁₈	94 02 22.3	10 22.04	+06 39.2	17.2	-1.05	+ 5.3	1.5/23.3	21561	3086 P-L	94 02 26.0	10 35.89	-05 22.2	17.1	-0.77	+ 4.3	4.1/02.4	20037
1992 VD	94 02 22.6	10 23.15	+15 38.4	17.0	-0.90	+ 5.3	1.8/21.0	21593	1981 TJ ₄	94 02 26.1	10 36.33	+22 32.1	16.3	-0.86	+ 3.0	3.7/22.0	22075
1990 XZ	94 02 22.6	10 23.29	+55 36.7	16.4	-1.83	- 0.4	19.5/07.8	18635	1991 SC ₂	94 02 26.1	10 36.36	+11 24.2	17.7	-0.80	+ 5.4	0.8/25.3	21976
1992 WP ₂	94 02 22.7	10 23.41	+10 37.5	17.6	-0.78	+ 4.5	0.2/22.6	22238	1988 RM ₁₁	94 02 26.2	10 36.92	+09 59.7	18.8	-0.50	+ 3.3	0.2/25.9	21972
1988 RP ₁₂	94 02 22.7	10 23.54	+09 41.8	19.5	-0.50	+ 3.4	0.1/22.9	15714	(5388)	94 02 26.3	10 37.19	+17 50.8	17.1	-1.06	+ 1.0	3.3/24.1	21242
1989 TS ₂	94 02 22.7	10 23.59	+11 05.2	18.3	-0.47	+ 3.9	0.2/22.4	16236	1991 NE ₃	94 02 26.3	10 37.22	+08 04.8	16.2	-0.80	+ 7.3	0.2/26.6	20023
1988 PM ₁	94 02 22.8	10 23.65	+09 11.3	18.0	-0.94	+ 6.1	0.3/23.0	20501	1981 EM ₄₀	94 02 26.4	10 37.37	+11 05.2	19.4	-0.85	+ 5.9	0.7/25.7	22271
3201 T-2	94 02 22.8	10 23.84	+12 36.5	17.6	-0.83	+ 5.9	0.8/22.0	22088	7075 P-L	94 02 26.4	10 37.43	-01 06.8	18.7	-0.73	+ 5.6	2.5/01.6	20516
3063 P-L	94 02 22.8	10 23.92	+02 37.8	17.2	-0.75	+ 3.0	2.0/25.0	20648	3176 T-2	94 02 26.6	10 38.41	+14 35.2	17.6	-1.00	+ 4.2	2.4/25.0	18133
1987 MK	94 02 23.1	10 25.05	+08 37.2	17.2	-0.95	+ 2.2	0.4/23.5	22078	1987 DD ₆	94 02 27.1	10 40.30	+08 51.2	16.5	-0.91	+ 8.3	0.2/27.0	18811
(5420)	94 02 23.1	10 25.14	+22 02.7	17.6	-0.88	+ 5.4	3.4/19.4	21547	1989 WH ₄	94 02 27.1	10 40.41	+12 13.8	15.5	-0.97	+ 8.3	1.5/26.0	21973
1982 UE	94 02 23.1	10 25.18	+16 51.5	16.8	-1.05	+ 6.3	2.5/21.2	22075	1240 T-1	94 02 27.2	10 40.54	+14 27.0	17.6	-0.89	+ 3.2	1.7/25.5	21122
1989 UA ₃	94 02 23.2	10 25.18	+07 16.5	18.4	-1.01	+ 6.8	1.0/24.0	20818	1991 NS ₂	94 02 27.3	10 40.79	+02 41.9	17.1	-0.86	+ 7.5	1.9/01.1	22273
1991 RQ ₁₄	94 02 23.2	10 25.37	+12 43.0	18.7	-0.74	+ 4.2	0.7/22.4	21578	(5395)	94 02 27.5	10 41.71	+06 18.7	18.7	-0.89	+ 7.6	0.6/28.2	21245
(5511)	94 02 23.2	10 25.42	+05 29.8	16.7	-0.47	+ 3.7	0.7/24.7	21916	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 UU ₃	94 02 23.3	10 25.95	+06 17.4	17.6	-1.00	+ 7.2	1.4/24.4	18632	(5416)	94 02 27.8	10 42.64	+20 56.2	17.3	-0.86	+ 4.7	3.4/23.8	21545
1979 QX ₃	94 02 23.4	10 26.10	+07 25.6	16.7	-0.78	+ 2.6	0.6/24.1	21965	(5458)	94 02 27.9	10 43.03	-04 11.3	16.9	-0.72	+ 5.2	3.4/03.9	21767
1991 NT ₂	94 02 23.4	10 26.12	-05 13.5	16.1	-0.96	+ 2.1	4.9/27.4	22273	1981 DZ	94 02 27.9	10 43.10	-07 33.1	16.9	-0.84	+ 5.0	5.7/04.8	22270
1980 FY ₄	94 02 23.6	10 26.91	+05 12.2	18.2	-0.94	+ 7.0	1.5/25.0	22074	1981 RG ₅	94 02 27.9	10 43.27	+16 12.0	16.7	-1.04	+ 4.1	2.8/25.7	22074
1981 ET ₁₀	94 02 23.6	10 26.92	+10 30.9	17.4	-0.99	+ 1.9	0.3/23.4	20011	1991 SM ₁	94 02 28.0	10 43.75	+04 10.4	18.0	-0.72	+ 4.4	0.9/01.3	19316
1981 EQ ₂₄	94 02 23.7	10 27.21	+04 06.3	18.3	-1.01	+ 7.2	2.2/25.4	22271	1991 LE ₁	94 02 28.1	10 43.93	+39 07.0	15.4	-0.96	+ 9.1	9.3/16.2	22826
1988 XG ₂	94 02 23.7	10 27.24	-02 07.9	16.9	-0.88	+ 4.1	4.2/27.2	21788	1992 TH ₁	94 02 28.1	10 44.05	+14 18.7	15.2	-0.84	+10.1	2.0/26.0	21271
(5352)	94 02 23.9	10 28.16	+01 53.3	15.8	-0.98	+ 5.3	3.0/26.2	20918	1990 EX ₂	94 02 28.2	10 44.24	-00 00.3	17.3	-0.82	+ 7.9	2.4/02.9	21974
1988 RE ₁₂	94 02 24.0	10 28.23	+03 32.0	21.6	-0.45	+ 3.9	0.9/26.0	15560	1991 PZ ₁₁	94 02 28.2	10 44.49	-04 39.8	16.1	-1.00	+ 0.9	4.8/03.5	22232
1992 WB ₉	94 02 24.0	10 28.46	+10 11.8	17.7	-0.81	+ 4.2	0.2/23.9	22407	2508 P-L	94 02 28.2	10 44.50	+13 37.6	19.4	-1.04	+ 4.4	1.8/26.7	22495
1992 VQ	94 02 24.1	10 29.02	+10 50.8	17.2	-0.79	+ 5.0	0.4/23.8	22432	1987 VT	94 02 28.3	10 44.67	+34 43.6	17.0	-0.98	+ 3.4	7.3/19.6	21971
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 RY ₁₁	94 02 28.4	10 45.09	+05 29.5	19.8	-0.46	+ 5.3	0.4/01.3	15892
1982 VV ₁₀	94 02 24.2	10 29.42	+13 57.5	16.4	-0.99	+ 6.8	1.8/22.9	22492	1979 OQ ₅	94 02 28.4	10 45.28	+03 09.0	16.9	-0.79	+ 3.6	1.4/01.9	21965