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

ERRATA.

| MPC | Line | | | | |
|---|---|---|---|---|---|
| 15470 | -9 | For | 56 9 | read | 56.9 |
| 19484 | 24 | For | (M-P) | read | (M-C) |

* * * * *

CORRECTED OBSERVATIONS.

The following observations correct those previously published.

| Object | | Date | UT | R. A. (2000) | Decl. | Reference | Mag. | N | Obs. |
|---|---|---|---|---|---|---|---|---|---|
| 1931 TZ2 | | 1931 10 | 10.20833 | 00 01 54.81 | +03 36 11.3 | MPC 15331 | | | 690 |
| 1931 TZ2 | | 1931 10 | 11.21181 | 00 01 26.04 | +03 20 36.5 | MPC 15331 | | | 690 |
| 1990 HM3 | * | 1990 04 | 29.76870 | 18 40 05.55 | -23 05 39.6 | MPC 17101 | | | 413 |
| 1990 HM3 | | 1990 05 | 02.74389 | 18 40 10.01 | -23 07 10.1 | MPC 17101 | | | 413 |
| 1990 HN3 | * | 1990 04 | 29.76870 | 18 40 19.92 | -23 32 34.0 | MPC 17101 | | | 413 |
| 1990 HN3 | | 1990 05 | 02.74389 | 18 41 10.07 | -23 32 25.3 | MPC 17101 | | | 413 |
| 1990 HO3 | * | 1990 04 | 29.76870 | 18 43 28.80 | -23 54 06.5 | MPC 17101 | | | 413 |
| 1990 HO3 | | 1990 05 | 02.74389 | 18 43 26.37 | -23 56 08.7 | MPC 17101 | | | 413 |
| 1967 GK1 | | 1967 04 | 15.91667 | 12 46 47.15 | +12 05 41.4 | MPC 10678 | | 1 | 033 |
| 1992 AD | | 1992 01 | 31.89052 | 08 04 37.89 | +20 50 48.8 | MPC 19575 | | 2 | 049 |
| (12) | | 1929 11 | 29.0049 | 05 16 50 | +18 47.9 | RI 269 | 10.5 | 3 | 006 |
| (56) | | 1929 11 | 29.0049 | 05 28 44 | +12 46.6 | RI 269 | 12.4 | 3 | 006 |
| (306) | | 1929 11 | 29.0049 | 05 36 49 | +12 47.0 | RI 269 | 11.6 | 3 | 006 |
| (329) | | 1929 11 | 06.0069 | 05 04 14 | +00 35.4 | RI 258 | 12.5 | 3 | 006 |
| (339) | | 1929 10 | 28.0014 | 03 27 05 | +06 59.3 | RI 248 | 12.7 | | 006 |
| (354) | | 1929 11 | 06.0069 | 05 11 01 | -03 27.6 | RI 258 | 10.0 | 3 | 006 |
| (482) | | 1929 07 | 05.8851 | 18 36 04 | -00 42.3 | RI 247 | 11.4 | 4 | 990 |
| (483) | | 1929 07 | 05.8851 | 18 39 43 | +02 39.0 | RI 247 | 12.0 | 4 | 990 |
| (554) | | 1929 10 | 06.81021 | 23 40.9 | +03 21 | RI 237 | 10.2 | 5 | 094 |
| (569) | | 1929 03 | 12.9292 | 12 00.49 | -01 52.6 | RI 229 | 12.0 | | 022 |
| (1001) | | 1982 01 | 28.90521 | 05 53 20.88 | +18 43 01.2 | MPC 7562 | | 4 | 560 |
| (1001) | | 1982 01 | 28.95243 | 05 53 19.89 | +18 42 56.2 | MPC 7562 | | 4 | 560 |
| (2111) | | 1979 06 | 01.89167 | 16 21 50.71 | -06 28 24.3 | MPC 5879 | | 6 | 552 |
| (2111) | | 1979 06 | 01.90972 | 16 21 49.83 | -06 28 21.4 | MPC 5879 | | 6 | 552 |
| (2271) | | 1981 11 | 29.50972 | 04 37 32.21 | +17 14 09.4 | MPC 6628 | | 6 | 879 |
| (2271) | | 1981 11 | 29.52361 | 04 37 31.21 | +17 14 11.4 | MPC 6628 | 16.0 | 6 | 879 |
| (2284) | | 1988 10 | 17.16239 | 00 36 06.42 | -03 10 46.2 | MPC 15035 | | 6 | 808 |
| (2284) | | 1988 10 | 17.19771 | 00 36 04.53 | -03 10 58.8 | MPC 15035 | | 6 | 808 |
| (3327) | | 1990 04 | 29.76870 | 18 40 19.03 | -23 32 24.2 | MPC 17104 | | | 413 |
| (3327) | | 1990 05 | 02.74389 | 18 40 47.48 | -23 33 34.5 | MPC 17104 | | | 413 |

Note 1: 1967 GK1 = (2301). 2: time corrected. 3: date corrected by +1 day. 4: date corrected by -1 day. 5: originally given as (354). 6: observations interchanged.

* * * * *

DELETED OBSERVATIONS.

The following observations are to be deleted.

| Object | | Date | UT | R. A. (2000) | Decl. | Reference | Obs. |
|---|---|---|---|---|---|---|---|
| 1959 VG | * | 1959 11 | 10.38 | 05 11.6 | +19 55 | MPC 2007 | 760 |
| 1959 VG | | 1959 11 | 10.42907 | 05 11 31.57 | +19 55 40.3 | MPC 12042 | 760 |
| (238) | | 1929 11 | 05.9096 | 01 01 24 | -00 18.5 | RI 248 | 990 |
| (238) | | 1929 11 | 07.9131 | 01 00 06 | -00 30.4 | RI 248 | 990 |
| (270) | | 1929 07 | 10.9007 | 19 15 34 | -20 03.7 | RI 247 | 990 |
| (597) | | 1929 11 | 05.9096 | 00 49 02 | -00 11.8 | RI 248 | 990 |
| (597) | | 1929 11 | 07.9131 | 00 47 50 | -00 04.1 | RI 248 | 990 |
| (601) | | 1929 10 | 07.8752 | 23 55 22 | -05 56.1 | RI 256 | 990 |
| (617) | | 1929 10 | 28.8644 | 01 01 49 | -07 46.7 | RI 248 | 990 |
| (906) | | 1972 10 | 06.00764 | 01 41 03.95 | +03 18 43.2 | MPC 3600 | 056 |
| (906) | | 1972 10 | 06.04792 | 01 41 02.10 | +03 18 56.1 | MPC 3600 | 056 |
| (914) | | 1942 07 | 04.91910 | 18 17 13.61 | -02 24 40.7 | RI 2400 | 028 |
| (914) | | 1957 03 | 25.66250 | 13 46 15.48 | -43 52 05.5 | MPC 2612 | 388 |
| (919) | | 1955 11 | 13.54097 | 03 20 31.75 | +18 11 05.2 | MPC 2587 | 388 |
| (924) | | 1971 01 | 16.78528 | 05 34 43.44 | +12 27 35.2 | MPC 5117 | 073 |
| (924) | | 1971 01 | 16.80329 | 05 34 42.64 | +12 27 42.4 | MPC 5117 | 073 |
| (925) | | 1976 11 | 17.83615 | 01 22 40.37 | +42 24 50.8 | MPC 6234 | 020 |
| (925) | | 1976 11 | 17.83892 | 01 22 39.65 | +42 24 51.9 | MPC 6234 | 020 |
| (929) | | 1967 02 | 08.10469 | 11 44 55.04 | -04 54 18.6 | MPC 3343 | 020 |
| (929) | | 1967 02 | 08.13725 | 11 44 54.58 | -04 54 26.5 | MPC 3343 | 020 |
| (929) | | 1967 02 | 15.08308 | 11 41 42.43 | -04 37 41.9 | MPC 3343 | 020 |
| (929) | | 1967 02 | 15.10594 | 11 41 42.06 | -04 37 48.1 | MPC 3343 | 020 |
| (929) | | 1968 09 | 04.96488 | 00 19 33.60 | +08 08 09.4 | MPC 3445 | 020 |
| (929) | | 1968 09 | 04.97874 | 00 19 32.63 | +08 08 07.1 | MPC 3445 | 020 |
| (936) | | 1966 12 | 17.13732 | 08 05 22.89 | +22 34 00.7 | MPC 3343 | 020 |
| (936) | | 1966 12 | 17.15255 | 08 05 21.43 | +22 34 17.8 | MPC 3343 | 020 |
| (936) | | 1966 12 | 23.05983 | 08 01 36.68 | +22 53 42.1 | MPC 3343 | 020 |
| (936) | | 1966 12 | 23.07575 | 08 01 35.30 | +22 53 50.3 | MPC 3343 | 020 |
| (937) | | 1982 01 | 22.21184 | 08 51 03.07 | +12 16 04.2 | MPC 15033 | 808 |
| (938) | | 1971 10 | 19.98657 | 01 45 46.55 | +06 33 11.7 | MPC 6381 | 020 |
| (939) | | 1969 02 | 17.91603 | 08 51 55.38 | +18 19 34.2 | MPC 3445 | 020 |
| (939) | | 1969 02 | 17.93058 | 08 51 54.99 | +18 19 38.5 | MPC 3445 | 020 |
| (940) | | 1971 12 | 17.11699 | 07 32 05.95 | +26 24 24.3 | MPC 6381 | 020 |
| (940) | | 1971 12 | 17.12877 | 07 32 05.42 | +26 24 36.7 | MPC 6381 | 020 |
| (954) | | 1968 01 | 18.75993 | 06 31 18.74 | +21 55 37.3 | MPC 3445 | 020 |
| (954) | | 1968 01 | 18.77378 | 06 31 17.82 | +21 55 45.7 | MPC 3445 | 020 |
| (954) | | 1969 02 | 18.00814 | 10 32 09.68 | +08 40 42.1 | MPC 3445 | 020 |
| (954) | | 1969 02 | 18.02268 | 10 32 08.75 | +08 40 48.2 | MPC 3445 | 020 |
| (954) | | 1971 07 | 29.99937 | 22 40 22.07 | -07 48 39.2 | MPC 5117 | 073 |
| (954) | | 1971 07 | 30.00699 | 22 40 21.94 | -07 48 39.6 | MPC 5117 | 073 |
| (960) | | 1955 11 | 10.66736 | 05 24 01.57 | +23 24 16.5 | MPC 2587 | 388 |
| (960) | | 1957 03 | 06.67847 | 12 26 00.56 | -07 42 45.5 | MPC 8947 | 388 |
| (962) | | 1956 12 | 22.46285 | 04 32 00.00 | +18 08 46.3 | MPC 2158 | 388 |
| (963) | | 1968 09 | 05.04694 | 00 35 31.74 | -10 59 14.4 | MPC 3446 | 020 |
| (963) | | 1968 09 | 05.06426 | 00 35 30.79 | -10 59 12.9 | MPC 3446 | 020 |
| (966) | | 1966 11 | 25.14632 | 05 30 04.51 | +24 35 29.7 | MPC 3343 | 020 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| (966) | 1966 | 11 | 25.15673 | 05 | 30 | 04.14 | +24 | 35 | 40.7 | MPC 3343 | 020 |
| (968) | 1969 | 08 | 25.03673 | 23 | 39 | 24.19 | +09 | 03 | 06.7 | MPC 3446 | 020 |
| (968) | 1969 | 08 | 25.04366 | 23 | 39 | 23.32 | +09 | 03 | 18.8 | MPC 3446 | 020 |
| (968) | 1969 | 10 | 06.92589 | 23 | 10 | 34.39 | +04 | 14 | 44.8 | MPC 3446 | 020 |
| (968) | 1969 | 10 | 06.93905 | 23 | 10 | 33.22 | +04 | 14 | 53.6 | MPC 3446 | 020 |
| (974) | 1938 | 01 | 30.94244 | 10 | 05 | 21.76 | +19 | 17 | 08.2 | MPC 3222 | 020 |
| (974) | 1955 | 05 | 18.50452 | 14 | 44 | 58.77 | -10 | 23 | 48.1 | MPC 2612 | 388 |
| (974) | 1955 | 05 | 20.65578 | 14 | 43 | 12.59 | -10 | 19 | 42.5 | MPC 1413 | 377 |
| (975) | 1975 | 04 | 09.09753 | 15 | 51 | 08.02 | -20 | 41 | 17.8 | MPC 4880 | 020 |
| (975) | 1975 | 04 | 09.11381 | 15 | 51 | 07.89 | -20 | 41 | 16.3 | MPC 4881 | 020 |
| (978) | 1957 | 07 | 20.93162 | 18 | 26 | 13.16 | +07 | 21 | 36.7 | MPC 1822 | 020 |
| (981) | 1971 | 07 | 30.94526 | 20 | 04 | 26.48 | -23 | 50 | 44.7 | MPC 6382 | 020 |
| (981) | 1971 | 07 | 30.95288 | 20 | 04 | 25.71 | -23 | 50 | 42.0 | MPC 6382 | 020 |
| (984) | 1967 | 02 | 08.10469 | 11 | 44 | 04.55 | -05 | 25 | 11.0 | MPC 3343 | 020 |
| (984) | 1967 | 02 | 08.13725 | 11 | 44 | 03.67 | -05 | 25 | 12.8 | MPC 3343 | 020 |
| (984) | 1967 | 02 | 15.08308 | 11 | 40 | 00.86 | -05 | 18 | 33.3 | MPC 3343 | 020 |
| (984) | 1967 | 02 | 15.10594 | 11 | 39 | 59.74 | -05 | 18 | 20.6 | MPC 3343 | 020 |
| (996) | 1939 | 03 | 14.87828 | 09 | 42 | 39.19 | +14 | 03 | 47.7 | MPC 3223 | 020 |
| (996) | 1939 | 03 | 14.92191 | 09 | 42 | 37.95 | +14 | 03 | 54.6 | MPC 3223 | 020 |
| (999) | 1978 | 11 | 05.15311 | 22 | 55 | 07.95 | +00 | 18 | 18.5 | MPC 9545 | 808 |
| (999) | 1978 | 11 | 05.17804 | 22 | 55 | 09.39 | +00 | 18 | 08.7 | MPC 9545 | 808 |

* * * * *

IDENTIFICATION CHANGES.

Continuation to MPC 19159.

| Object | | Date | UT | R. A. (2000) | Decl. | Old desig. | Mag. | N Obs. |
|---|---|---|---|---|---|---|---|---|
| A910 NC | * | 1910 07 | 15.00778 | 20 00 56.33 | -24 07 10.3 | 1029 | | 024 |
| A921 UH | * | 1921 10 | 25.90340 | 02 26 31.78 | +14 36 36.1 | 1029 | | 024 |
| A922 OC | * | 1922 07 | 29.98979 | 21 12 04.61 | -16 38 33.7 | 928 | | 024 |
| 1927 BQ | * | 1927 01 | 28.76890 | 05 03.4 | -05 23 | 1051 | 16.0 | 024 |
| 1930 AH | * | 1930 01 | 06.97348 | 06 17.1 | +33 34 | 227 | 13.5 | 094 |
| 1930 DC1 | * | 1930 02 | 21.83578 | 03 47.8 | +25 42 | 408 | 15.5 | 024 |
| 1930 DD1 | * | 1930 02 | 28.90063 | 11 02.1 | -07 37 | 583 | 12.7 | 094 |
| 1933 BA1 | * | 1933 01 | 24.28615 | 09 23 42.60 | +16 21 32.9 | 1933 BV | 15.0 | 754 |
| 1933 BB1 | * | 1933 01 | 31.26626 | 09 16 34.84 | +16 44 50.4 | 1933 BV | 16.0 | 754 |
| 1942 NC | * | 1942 07 | 13.88 | 19 59.3 | -35 47 | 1087 | 12.0 | 078 |
| 1947 GK | * | 1947 04 | 11.89260 | 11 43 07.68 | +08 08 01.1 | 924 | | 012 |
| 1947 GK | | 1947 04 | 16.95444 | 11 40 28.25 | +08 26 25.7 | 924 | | 012 |
| 1948 KJ | * | 1948 05 | 31.886 | 16 46.5 | -23 45 | 1079 | 14.0 | 078 |
| 1951 FD | * | 1951 03 | 26.89 | 12 48.5 | +00 52 | 1087 | 13.7 | 020 |
| 1957 YA1 | * | 1957 12 | 22.79260 | 04 49 51.75 | +24 38 10.0 | 966 | | 024 |
| 1978 WY16 | * | 1978 11 | 30.31702 | 04 08 56.62 | +19 08 48.9 | 6372 P-L | 18.5V | 675 |
| 1978 WY16 | | 1978 12 | 01.33472 | 04 07 58.05 | +19 05 24.1 | 6372 P-L | | 675 |
| 1982 DJ7 | * | 1982 02 | 27.97367 | 11 01 13.21 | +08 21 59.2 | 1982 DJ5 | | 010 |
| 1986 CM2 | * | 1986 02 | 15.03822 | 10 07 12.78 | +20 03 37.0 | 1986 CO | | 046 |
| 1989 CK9 | * | 1989 02 | 10.35694 | 11 24 04.06 | +05 00 56.8 | 1989 CM8 | | 809 |
| 1989 CK9 | | 1989 02 | 10.36250 | 11 24 03.75 | +05 00 58.7 | 1989 CM8 | | 809 |
| 1989 CK9 | | 1989 02 | 10.36806 | 11 24 03.47 | +05 01 00.3 | 1989 CM8 | | 809 |
| 1991 PP17 | * | 1991 08 | 10.44618 | 00 22 53.46 | +06 48 36.1 | 1987 QZ1 | | 675 |
| 1991 PQ17 | * | 1991 08 | 08.44149 | 23 42 22.70 | +01 18 17.0 | 1991 PV10 | 17.2 | 675 |
| 1991 TE8 | * | 1991 10 | 08.47049 | 23 45 44.29 | +06 40 07.1 | 1991 SP1 | 16.5 | 400 |
| 1991 TE8 | | 1991 10 | 08.48785 | 23 45 43.42 | +06 40 03.2 | 1991 SP1 | | 400 |
| 1992 CA1 | * | 1992 02 | 01.56632 | 10 21 42.33 | +08 49 49.1 | 1992 BY | | 364 |
| 1992 CA1 | | 1992 02 | 01.58021 | 10 21 41.84 | +08 49 55.0 | 1992 BY | | 364 |

ERRONEOUS IDENTIFICATIONS.

The following identifications are erroneous:

| | | Ref. | | | Ref. | | | Ref. |
|---|---|---|---|---|---|---|---|---|
| A924 | LB = (1032) | 1 | 1933 | BV = (2267) | 2 | 1963 | MB = (1061) | 3 |

Ref. 1: MPC 6484. 2: MPC 14977. 3: MPC 2506.

* * * * *

IDENTIFICATIONS.

Continuation to MPC 18665:

| | | Note | | | Note | | | Note |
|---|---|---|---|---|---|---|---|---|
| A910 | NC = (1063) | 1 | 1930 | DC1 = (1040) | 1 | 1933 | BV = (300) | 1 |
| 1933 | BB1 = (2267) | 2 | 1942 | NC = (1132) | 1 | 1947 | GK = (627) | 1 |
| 1948 | KJ = (1162) | 1 | 1951 | FD = (301) | 1 | 1957 | YA1 = (198) | 1 |
| 1963 | MB = (3459) | 1 | | | | | | |

Note 1: identification by G. V. Williams. 2: by S. Nakano.

* * * * *

OBSERVATIONS OF COMETS.

Observations are published here for the following observatory codes:

098 Cima Ekar. Observers A. Boattini and M. Tombelli.
323 Perth Observatory, Bickley. Observer G. Lowe. Measured by T. Smith.
364 JCPM Kagoshima Station. 0.25-m f/4.2 Wright-Schmidt. Observer M. Mukai. Measured by M. Takeishi.
372 Geisei. 0.60-m reflector. Observer T. Seki. In part from Orient. Astron. Assoc. Comet Bull.
373 Oishi. 0.31-m f/4.2 and f/5.3 reflectors. Observer M. Tsumura. Measured by S. Hayakawa and M. Takeishi.
376 Uenohara. 0.30-m reflector + CCD. Observer N. Kawasato.
399 Kushiro. 0.25-m f/3.5 reflector. Observer S. Ueda. Measured by H. Kaneda.
411 Oizumi. 0.16-m f/4.8 reflector + CCD. Observer T. Kobayashi.
413 Siding Spring. Uppsala Southern Schmidt and 1.0-m reflector + CCD. Observers R. H. McNaught and S. D. Ryder. Measured by McNaught.
415 Kambah, near Canberra. Observer D. Herald.
474 Mt. John. 0.6-m reflector. Observer A. C. Gilmore. Measured by P. M. Kilmartin.
540 Linz. 0.3-m f/5.2 Schmidt-Cassegrain. Observers E. Meyer, E. Obermair and H. Raab.
587 Sormano. 0.21-m f/4.9 astrograph. Observers S. Barni, M. Cavagna, E. Colzani, P. Sicoli and G. Ventre.
595 Farra d'Isonzo. Observers G. Lombardi and F. Piani.
598 Loiano. 0.2-m f/8 reflector + CCD. Observer G. Del Zanna. Long. and Parallax 11.3333, 0.71739, +0.69433 (see MPC 19348).
658 Dominion Astrophysical Observatory, Victoria. 1.85-m reflector + CCD. Observer G. C. L. Aikman. Measured by D. D. Balam.
675 Palomar. 0.46-m Schmidt. Observers H. E. Holt, K. A. Lawler and J. Stiffler. Measured by C. M. Olmstead and B. A. Skiff.

801 Oak Ridge Observatory. 1.5-m reflector + CCD. Observers R. E. McCrosky and C.-Y. Shao.
809 European Southern Observatory. 2.2-m and 1.5-m reflectors. Observers W. Landgraf (1988) and R. M. West (1991).
894 Otomo. 0.25-m f/3.4 reflector. Observer S. Otomo.
950 La Palma. 2-m Nordic optical telescope. Observers K. Aksnes and O. Dahl.
984 Eastfield Observatory. 0.17-m f/7 astrograph. Observer H. B. Ridley.

| Object | Date UT | R. A. (2000) | Decl. | Mag. | N Obs. |
|---|---|---|---|---|---|
| | Periodic Comet Smirnova-Chernykh | | | | |
| /1984 V | 1992 02 04.67257 | 09 36 19.17 | +22 37 42.6 | 16.7 T | 894 |
| /1984 V | 1992 02 04.69896 | 09 36 18.05 | +22 37 48.5 | | 894 |
| /1984 V | 1992 02 05.55417 | 09 35 43.73 | +22 41 23.4 | 16 T | 399 |
| /1984 V | 1992 02 05.56947 | 09 35 42.93 | +22 41 26.6 | | 399 |
| /1984 V | 1992 02 21.49696 | 09 24 58.41 | +23 38 37.5 | | 411 |
| /1984 V | 1992 02 21.49932 | 09 24 58.25 | +23 38 37.0 | | 411 |
| /1984 V | 1992 02 21.50438 | 09 24 58.12 | +23 38 38.8 | | 411 |
| /1984 V | 1992 02 21.50786 | 09 24 57.95 | +23 38 38.6 | | 411 |
| /1984 V | 1992 02 22.56784 | 09 24 17.01 | +23 41 40.0 | | 411 |
| /1984 V | 1992 02 22.56947 | 09 24 16.94 | +23 41 39.5 | | 411 |
| /1984 V | 1992 02 22.57609 | 09 24 16.72 | +23 41 40.8 | | 411 |
| /1984 V | 1992 02 22.57780 | 09 24 16.73 | +23 41 41.3 | | 411 |
| | Periodic Comet Halley | | | | |
| /1986 III | 1988 05 12.00273 | 09 31 29.66 | -04 21 22.0 | | 809 |
| /1986 III | 1991 03 12.09039 | 09 16 33.92 | -03 57 28.7 | | 809 |
| /1986 III | 1991 03 12.18940 | 09 16 32.42 | -03 57 16.8 | | 809 |
| /1986 III | 1991 03 13.07279 | 09 16 19.17 | -03 55 31.4 | | 809 |
| /1986 III | 1991 03 13.17625 | 09 16 17.64 | -03 55 21.6 | | 809 |
| /1986 III | 1991 03 14.21069 | 09 16 02.58 | -03 53 18.1 | | 809 |
| /1986 III | 1991 03 16.07571 | 09 15 35.89 | -03 49 35.1 | | 809 |
| /1986 III | 1991 03 16.17674 | 09 15 34.37 | -03 49 23.2 | | 809 |
| /1986 III | 1991 03 17.05153 | 09 15 22.08 | -03 47 40.9 | | 809 |
| /1986 III | 1991 03 17.18258 | 09 15 20.23 | -03 47 23.2 | | 809 |
| /1986 III | 1991 03 18.05688 | 09 15 08.20 | -03 45 37.3 | | 809 |
| | Periodic Comet Schwassmann-Wachmann 1 | | | | |
| /1989 XV | 1992 02 07.52986 | 03 11 47.42 | +27 16 16.8 | | 376 |
| /1989 XV | 1992 02 21.47468 | 03 16 40.16 | +27 09 37.9 | | 411 |
| /1989 XV | 1992 02 21.47633 | 03 16 40.40 | +27 09 38.2 | | 411 |
| /1989 XV | 1992 02 22.43834 | 03 17 05.10 | +27 09 30.7 | | 411 |
| /1989 XV | 1992 02 22.44244 | 03 17 05.13 | +27 09 28.1 | | 411 |
| | Comet Levy (1990 XX) | | | | |
| /1990 XX | 1992 02 05.21907 | 08 56 31.78 | +31 33 31.4 | | 801 |
| /1990 XX | 1992 02 05.24241 | 08 56 30.26 | +31 33 39.8 | | 801 |
| /1990 XX | 1992 02 07.25259 | 08 54 28.81 | +31 44 07.5 | | 801 |
| /1990 XX | 1992 02 07.26721 | 08 54 27.95 | +31 44 11.8 | | 801 |
| | Comet Shoemaker-Levy (1991d) | | | | |
| /1991d | 1992 01 03.22095 | 16 54 20.65 | +39 34 24.1 | | 098 |
| /1991d | 1992 02 05.45125 | 18 46 28.02 | +40 20 15.3 | | 801 |
| /1991d | 1992 02 05.45288 | 18 46 28.32 | +40 20 15.5 | | 801 |
| /1991d | 1992 02 06.43392 | 18 49 21.51 | +40 20 46.2 | | 801 |
| /1991d | 1992 02 06.43587 | 18 49 21.86 | +40 20 46.3 | | 801 |
| /1991d | 1992 02 22.79653 | 19 33 16.67 | +40 29 51.2 | 12.5 T | 372 |

| | | | | | | |
|---|---|---|---|---|---|---|
| /1991d | 1992 02 22.80313 | 19 33 17.40 | +40 29 51.8 | | | 372 |
| /1991d | 1992 02 27.79027 | 19 45 05.22 | +40 33 44.6 | 12 | T | 372 |
| | Periodic Comet Kowal 1 | | | | | |
| /1991i | 1992 02 26.76771 | 13 59 07.51 | -11 29 41.8 | 17.5 | T | 372 |
| /1991i | 1992 02 27.76285 | 13 59 02.24 | -11 29 43.5 | | | 372 |
| | Comet Helin-Lawrence (1991l) | | | | | |
| /1991l | 1991 12 10.62538 | 13 16 45.19 | -58 58 16.9 | | | 474 |
| /1991l | 1991 12 10.63152 | 13 16 46.07 | -58 58 37.6 | | | 474 |
| /1991l | 1992 02 05.49285 | 00 34 54.17 | -56 11 50.6 | | | 474 |
| /1991l | 1992 02 05.51038 | 00 34 56.21 | -56 10 49.8 | | | 474 |
| | Periodic Comet Faye | | | | | |
| /1991n | 1991 11 10.87222 | 01 52 43.21 | +02 56 58.4 | | | 595 |
| /1991n | 1991 12 05.89517 | 02 09 27.89 | +00 47 50.7 | | | 598 |
| /1991n | 1991 12 05.89844 | 02 09 28.07 | +00 47 50.6 | | | 598 |
| /1991n | 1992 02 03.00039 | 03 41 48.96 | +07 44 41.9 | | | 801 |
| /1991n | 1992 02 03.00388 | 03 41 49.44 | +07 44 44.0 | | | 801 |
| /1991n | 1992 02 06.02860 | 03 47 42.79 | +08 13 09.8 | | | 801 |
| /1991n | 1992 02 06.04059 | 03 47 44.17 | +08 13 16.6 | | | 801 |
| /1991n | 1992 02 07.44287 | 03 50 29.34 | +08 26 17.8 | | | 411 |
| /1991n | 1992 02 07.44410 | 03 50 29.56 | +08 26 20.2 | | | 411 |
| /1991n | 1992 02 07.44525 | 03 50 29.62 | +08 26 20.4 | | | 411 |
| /1991n | 1992 02 07.44623 | 03 50 29.75 | +08 26 21.8 | | | 411 |
| /1991n | 1992 02 21.45575 | 04 18 35.85 | +10 29 29.5 | | | 411 |
| /1991n | 1992 02 21.45729 | 04 18 36.08 | +10 29 30.0 | | | 411 |
| /1991n | 1992 02 21.45864 | 04 18 36.28 | +10 29 31.4 | | | 411 |
| /1991n | 1992 02 21.46002 | 04 18 36.40 | +10 29 31.9 | | | 411 |
| /1991n | 1992 02 21.46133 | 04 18 36.56 | +10 29 32.2 | | | 411 |
| /1991n | 1992 02 21.46264 | 04 18 36.67 | +10 29 33.2 | | | 411 |
| /1991n | 1992 02 22.44741 | 04 20 37.29 | +10 37 36.9 | | | 411 |
| /1991n | 1992 02 22.44889 | 04 20 37.48 | +10 37 38.4 | | | 411 |
| /1991n | 1992 02 22.45023 | 04 20 37.52 | +10 37 38.9 | | | 411 |
| /1991n | 1992 02 22.45155 | 04 20 37.74 | +10 37 38.4 | | | 411 |
| /1991n | 1992 02 22.45290 | 04 20 38.04 | +10 37 38.8 | | | 411 |
| /1991n | 1992 02 22.45425 | 04 20 38.05 | +10 37 39.5 | | | 411 |
| | Periodic Comet Chernykh | | | | | |
| /1991o | 1991 09 15.35226 | 23 33 48.60 | -08 42 24.3 | 17.2 | T | 675 |
| /1991o | 1991 09 15.38958 | 23 33 47.38 | -08 42 37.9 | | | 675 |
| /1991o | 1991 09 17.33941 | 23 32 45.50 | -08 53 20.8 | 17.0 | T | 675 |
| /1991o | 1991 09 17.37222 | 23 32 44.40 | -08 53 30.3 | | | 675 |
| | Periodic Comet Levy | | | | | |
| /1991q | 1992 02 05.21517 | 08 29 55.35 | +30 30 25.1 | | | 801 |
| /1991q | 1992 02 05.23163 | 08 29 54.19 | +30 30 22.6 | | | 801 |
| /1991q | 1992 02 07.23492 | 08 27 34.07 | +30 25 54.1 | | | 801 |
| /1991q | 1992 02 07.24850 | 08 27 33.08 | +30 25 52.2 | | | 801 |
| | Periodic Comet Hartley 2 | | | | | |
| /1991t | 1992 02 05.26506 | 10 27 59.43 | -07 40 52.9 | | | 801 |
| /1991t | 1992 02 05.28075 | 10 27 58.16 | -07 40 46.3 | | | 801 |
| /1991t | 1992 02 07.32976 | 10 25 15.46 | -07 24 17.9 | | | 801 |
| /1991t | 1992 02 07.33850 | 10 25 14.65 | -07 24 14.7 | | | 801 |
| | Periodic Comet McNaught-Hughes | | | | | |
| /1991y | 1992 01 15.44255 | 00 22 01.07 | -04 23 42.1 | | | 413 |
| /1991y | 1992 01 15.44578 | 00 22 01.52 | -04 23 41.2 | | | 413 |

Comet Shoemaker-Levy (1991a1)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| /1991a 1 | 1992 | 02 | 05.96993 | 00 | 10 | 36.56 | +29 | 18 | 08.0 | 801 |
| /1991a 1 | 1992 | 02 | 06.00537 | 00 | 10 | 36.74 | +29 | 18 | 06.3 | 801 |
| /1991a 1 | 1992 | 02 | 06.96869 | 00 | 10 | 42.40 | +29 | 17 | 36.7 | 801 |
| /1991a 1 | 1992 | 02 | 06.99377 | 00 | 10 | 42.54 | +29 | 17 | 36.0 | 801 |
| /1991a 1 | 1992 | 02 | 07.42898 | 00 | 10 | 45.28 | +29 | 17 | 26.2 | 411 |
| /1991a 1 | 1992 | 02 | 24.76944 | 00 | 14 | 48.62 | +29 | 39 | 13.2 | 540 |

Periodic Comet Shoemaker-Levy 7

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| /1991d 1 | 1991 | 12 | 24.96941 | 03 | 35 | 08.49 | +37 | 25 | 34.7 | 950 |
| /1991d 1 | 1991 | 12 | 24.99728 | 03 | 35 | 09.62 | +37 | 25 | 14.9 | 950 |

Periodic Comet Kowal 2

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| /1991f 1 | 1992 | 01 | 04.58993 | 08 | 29 | 29.93 | -08 | 33 | 10.3 | 373 |
| /1991f 1 | 1992 | 01 | 04.60069 | 08 | 29 | 29.45 | -08 | 33 | 19.8 | 373 |
| /1991f 1 | 1992 | 02 | 05.20823 | 08 | 06 | 04.30 | -11 | 07 | 27.9 | 801 |
| /1991f 1 | 1992 | 02 | 05.23612 | 08 | 06 | 03.30 | -11 | 07 | 21.6 | 801 |
| /1991f 1 | 1992 | 02 | 07.18291 | 08 | 05 | 03.26 | -10 | 59 | 25.5 | 801 |
| /1991f 1 | 1992 | 02 | 07.20709 | 08 | 05 | 02.47 | -10 | 59 | 19.1 | 801 |
| /1991f 1 | 1992 | 02 | 07.30800 | 08 | 04 | 59.62 | -10 | 58 | 53.8 | 658 |
| /1991f 1 | 1992 | 02 | 07.31042 | 08 | 04 | 59.52 | -10 | 58 | 52.0 | 658 |
| /1991f 1 | 1992 | 02 | 22.54277 | 08 | 01 | 20.18 | -09 | 18 | 19.3 | 14.5 T 411 |
| /1991f 1 | 1992 | 02 | 22.54516 | 08 | 01 | 20.19 | -09 | 18 | 17.9 | 411 |
| /1991f 1 | 1992 | 02 | 22.55769 | 08 | 01 | 20.10 | -09 | 18 | 11.6 | 411 |
| /1991f 1 | 1992 | 02 | 22.56006 | 08 | 01 | 20.11 | -09 | 18 | 11.0 | 411 |

Comet Zanotta-Brewington (1991g1)

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| /1991g 1 | 1991 | 12 | 29.77640 | 21 | 06 | 32.30 | +16 | 40 | 53.7 | 587 |
| /1991g 1 | 1991 | 12 | 30.71458 | 21 | 10 | 11.21 | +16 | 15 | 14.3 | 595 |
| /1991g 1 | 1991 | 12 | 30.72159 | 21 | 10 | 12.69 | +16 | 15 | 04.0 | 595 |
| /1991g 1 | 1991 | 12 | 30.72847 | 21 | 10 | 14.37 | +16 | 14 | 52.9 | 595 |
| /1991g 1 | 1991 | 12 | 31.72049 | 21 | 14 | 10.07 | +15 | 46 | 40.7 | 595 |
| /1991g 1 | 1991 | 12 | 31.72847 | 21 | 14 | 11.94 | +15 | 46 | 26.3 | 595 |
| /1991g 1 | 1991 | 12 | 31.73542 | 21 | 14 | 13.57 | +15 | 46 | 15.5 | 595 |
| /1991g 1 | 1992 | 01 | 01.70764 | 21 | 18 | 08.88 | +15 | 17 | 29.2 | 595 |
| /1991g 1 | 1992 | 01 | 01.71597 | 21 | 18 | 10.79 | +15 | 17 | 14.2 | 595 |
| /1991g 1 | 1992 | 01 | 01.72431 | 21 | 18 | 12.79 | +15 | 16 | 58.5 | 595 |
| /1991g 1 | 1992 | 01 | 01.74167 | 21 | 18 | 16.81 | +15 | 16 | 28.2 | 587 |
| /1991g 1 | 1992 | 01 | 13.71806 | 22 | 12 | 07.55 | +07 | 21 | 30.0 | 595 |
| /1991g 1 | 1992 | 01 | 13.72639 | 22 | 12 | 10.08 | +07 | 21 | 02.6 | 595 |
| /1991g 1 | 1992 | 01 | 13.73750 | 22 | 12 | 13.26 | +07 | 20 | 29.4 | 595 |
| /1991g 1 | 1992 | 01 | 14.76944 | 22 | 17 | 17.74 | +06 | 26 | 16.6 | 587 |
| /1991g 1 | 1992 | 01 | 21.40382 | 22 | 51 | 00.58 | -00 | 24 | 59.8 | 364 |
| /1991g 1 | 1992 | 01 | 21.40382 | 22 | 51 | 00.58 | -00 | 24 | 59.8 | 364 |
| /1991g 1 | 1992 | 01 | 21.40833 | 22 | 51 | 02.04 | -00 | 25 | 18.1 | 364 |
| /1991g 1 | 1992 | 01 | 21.40833 | 22 | 51 | 02.04 | -00 | 25 | 18.1 | 364 |
| /1991g 1 | 1992 | 01 | 24.39549 | 23 | 06 | 33.22 | -04 | 07 | 03.6 | 894 |
| /1991g 1 | 1992 | 01 | 27.39660 | 23 | 22 | 06.42 | -08 | 10 | 45.0 | 372 |
| /1991g 1 | 1992 | 01 | 27.40632 | 23 | 22 | 09.47 | -08 | 11 | 33.9 | 372 |
| /1991g 1 | 1992 | 02 | 01.42788 | 23 | 47 | 36.56 | -15 | 34 | 22.4 | 413 |
| /1991g 1 | 1992 | 02 | 01.42788 | 23 | 47 | 36.56 | -15 | 34 | 22.4 | 413 |
| /1991g 1 | 1992 | 02 | 01.43234 | 23 | 47 | 37.77 | -15 | 34 | 46.0 | 413 |
| /1991g 1 | 1992 | 02 | 01.43234 | 23 | 47 | 37.77 | -15 | 34 | 46.0 | 413 |
| /1991g 1 | 1992 | 02 | 10.40625 | 00 | 29 | 41.50 | -29 | 11 | 00.4 | 372 |
| /1991g 1 | 1992 | 02 | 10.40868 | 00 | 29 | 42.13 | -29 | 11 | 12.2 | 372 |
| /1991g 1 | 1992 | 02 | 10.41111 | 00 | 29 | 42.71 | -29 | 11 | 26.9 | 372 |
| /1991g 1 | 1992 | 02 | 11.76493 | 22 | 02 | 41.14 | +08 | 57 | 22.2 | 984 |
| /1991g 1 | 1992 | 02 | 25.46863 | 01 | 32 | 01.85 | -47 | 45 | 17.4 | 415 |
| /1991g 1 | 1992 | 02 | 25.47116 | 01 | 32 | 02.48 | -47 | 45 | 26.5 | 415 |

Comet Mueller (1991h1)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| /1991h | 1 | 1992 | 01 | 04.55816 | 08 | 37 | 43.42 | +49 | 05 | 18.4 | 373 |
| /1991h | 1 | 1992 | 01 | 04.56887 | 08 | 37 | 39.68 | +49 | 05 | 34.3 | 373 |
| /1991h | 1 | 1992 | 01 | 23.42188 | 05 | 35 | 16.49 | +48 | 19 | 58.5 | 14 T 372 |
| /1991h | 1 | 1992 | 01 | 27.49601 | 04 | 46 | 41.88 | +44 | 07 | 29.4 | 14 T 372 |
| /1991h | 1 | 1992 | 01 | 28.61632 | 04 | 34 | 15.62 | +42 | 40 | 39.3 | 372 |
| /1991h | 1 | 1992 | 01 | 28.62135 | 04 | 34 | 12.39 | +42 | 40 | 17.1 | 14 T 372 |
| /1991h | 1 | 1992 | 02 | 01.58229 | 03 | 54 | 45.00 | +36 | 50 | 06.4 | 14 T 372 |
| /1991h | 1 | 1992 | 02 | 03.00661 | 03 | 42 | 22.58 | +34 | 33 | 14.6 | 801 |
| /1991h | 1 | 1992 | 02 | 03.00819 | 03 | 42 | 21.72 | +34 | 33 | 05.8 | 801 |
| /1991h | 1 | 1992 | 02 | 04.57569 | 03 | 29 | 46.91 | +31 | 59 | 15.7 | 13.5 T 372 |
| /1991h | 1 | 1992 | 02 | 04.57778 | 03 | 29 | 45.87 | +31 | 59 | 06.9 | 372 |
| /1991h | 1 | 1992 | 02 | 04.58021 | 03 | 29 | 45.04 | +31 | 58 | 54.2 | 13.5 T 372 |
| /1991h | 1 | 1992 | 02 | 04.58021 | 03 | 29 | 44.94 | +31 | 58 | 54.0 | 372 |
| /1991h | 1 | 1992 | 02 | 06.03031 | 03 | 19 | 05.09 | +29 | 35 | 39.8 | 801 |
| /1991h | 1 | 1992 | 02 | 06.03514 | 03 | 19 | 03.08 | +29 | 35 | 11.4 | 801 |
| /1991h | 1 | 1992 | 02 | 07.45920 | 03 | 09 | 23.80 | +27 | 15 | 16.3 | 411 |
| /1991h | 1 | 1992 | 02 | 07.46072 | 03 | 09 | 23.17 | +27 | 15 | 05.6 | 411 |
| /1991h | 1 | 1992 | 02 | 07.46211 | 03 | 09 | 22.56 | +27 | 14 | 58.8 | 411 |
| /1991h | 1 | 1992 | 02 | 07.50574 | 03 | 09 | 05.32 | +27 | 10 | 40.4 | 411 |
| /1991h | 1 | 1992 | 02 | 07.50766 | 03 | 09 | 04.68 | +27 | 10 | 30.5 | 411 |
| /1991h | 1 | 1992 | 02 | 08.52008 | 03 | 02 | 41.48 | +25 | 32 | 07.7 | 411 |
| /1991h | 1 | 1992 | 02 | 08.52244 | 03 | 02 | 40.82 | +25 | 31 | 54.9 | 411 |
| /1991h | 1 | 1992 | 02 | 08.52572 | 03 | 02 | 39.59 | +25 | 31 | 36.9 | 411 |
| /1991h | 1 | 1992 | 02 | 08.52763 | 03 | 02 | 38.83 | +25 | 31 | 26.0 | 411 |
| /1991h | 1 | 1992 | 02 | 08.52934 | 03 | 02 | 38.16 | +25 | 31 | 14.7 | 411 |
| /1991h | 1 | 1992 | 02 | 08.53116 | 03 | 02 | 37.53 | +25 | 31 | 04.4 | 411 |
| /1991h | 1 | 1992 | 02 | 08.81736 | 03 | 00 | 53.53 | +25 | 03 | 31.0 | 540 |
| /1991h | 1 | 1992 | 02 | 08.82674 | 03 | 00 | 50.01 | +25 | 02 | 35.1 | 540 |
| /1991h | 1 | 1992 | 02 | 08.83681 | 03 | 00 | 46.37 | +25 | 01 | 37.1 | 540 |
| /1991h | 1 | 1992 | 02 | 08.84618 | 03 | 00 | 43.01 | +25 | 00 | 44.8 | 540 |
| /1991h | 1 | 1992 | 02 | 10.42309 | 02 | 51 | 38.67 | +22 | 31 | 17.3 | 13 T 372 |
| /1991h | 1 | 1992 | 02 | 10.55903 | 02 | 50 | 53.50 | +22 | 18 | 28.3 | 894 |
| /1991h | 1 | 1992 | 02 | 19.40620 | 02 | 11 | 44.35 | +09 | 58 | 43.6 | 411 |
| /1991h | 1 | 1992 | 02 | 19.40903 | 02 | 11 | 43.70 | +09 | 58 | 31.5 | 411 |
| /1991h | 1 | 1992 | 02 | 19.41081 | 02 | 11 | 43.19 | +09 | 58 | 23.5 | 411 |
| /1991h | 1 | 1992 | 02 | 19.41289 | 02 | 11 | 42.89 | +09 | 58 | 13.9 | 411 |
| /1991h | 1 | 1992 | 02 | 19.41387 | 02 | 11 | 42.60 | +09 | 58 | 09.5 | 411 |
| /1991h | 1 | 1992 | 02 | 19.41480 | 02 | 11 | 42.41 | +09 | 58 | 05.2 | 411 |
| /1991h | 1 | 1992 | 02 | 22.41384 | 02 | 01 | 18.31 | +06 | 26 | 49.7 | 8.5 T 411 |
| /1991h | 1 | 1992 | 02 | 22.41483 | 02 | 01 | 18.13 | +06 | 26 | 45.6 | 411 |
| /1991h | 1 | 1992 | 02 | 22.41586 | 02 | 01 | 17.97 | +06 | 26 | 41.0 | 411 |
| /1991h | 1 | 1992 | 02 | 22.41702 | 02 | 01 | 17.72 | +06 | 26 | 36.9 | 411 |
| /1991h | 1 | 1992 | 02 | 22.41844 | 02 | 01 | 17.32 | +06 | 26 | 31.4 | 411 |
| /1991h | 1 | 1992 | 02 | 22.42064 | 02 | 01 | 17.00 | +06 | 26 | 21.8 | 411 |
| /1991h | 1 | 1992 | 02 | 22.42208 | 02 | 01 | 16.66 | +06 | 26 | 15.4 | 411 |
| /1991h | 1 | 1992 | 02 | 23.40763 | 01 | 58 | 02.39 | +05 | 20 | 49.6 | 411 |
| /1991h | 1 | 1992 | 02 | 23.40866 | 01 | 58 | 02.23 | +05 | 20 | 47.1 | 411 |
| /1991h | 1 | 1992 | 02 | 23.40969 | 01 | 58 | 01.98 | +05 | 20 | 41.8 | 411 |
| /1991h | 1 | 1992 | 02 | 23.41073 | 01 | 58 | 01.73 | +05 | 20 | 37.3 | 411 |
| /1991h | 1 | 1992 | 02 | 23.41377 | 01 | 58 | 01.11 | +05 | 20 | 23.8 | 411 |
| /1991h | 1 | 1992 | 02 | 23.41569 | 01 | 58 | 00.74 | +05 | 20 | 17.2 | 411 |
| /1991h | 1 | 1992 | 02 | 23.41769 | 01 | 58 | 00.50 | +05 | 20 | 09.6 | 411 |
| /1991h | 1 | 1992 | 02 | 25.40017 | 01 | 51 | 40.91 | +03 | 14 | 01.1 | 376 |
| /1991h | 1 | 1992 | 02 | 25.41476 | 01 | 51 | 38.06 | +03 | 13 | 05.7 | 376 |
| /1991h | 1 | 1992 | 02 | 25.45000 | 01 | 51 | 31.28 | +03 | 10 | 56.7 | 364 |
| /1991h | 1 | 1992 | 02 | 25.45278 | 01 | 51 | 30.85 | +03 | 10 | 45.0 | 364 |
| /1991h | 1 | 1992 | 02 | 26.43056 | 01 | 48 | 27.56 | +02 | 11 | 10.8 | 364 |
| /1991h | 1 | 1992 | 02 | 26.43403 | 01 | 48 | 26.89 | +02 | 10 | 58.1 | 364 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| /1991h 1 | 1992 02 26.43681 | 01 48 26.32 | +02 10 47.0 | 8.7 | T | | 372 |
| /1991h 1 | 1992 02 28.79097 | 01 41 09.69 | -00 06 24.6 | 8 | T | | 540 |
| /1991h 1 | 1992 02 28.79861 | 01 41 08.29 | -00 06 50.3 | | | | 540 |
| | Comet Helin-Alu (1992a) | | | | | | |
| /1992a | 1992 02 02.48104 | 08 02 32.72 | +01 37 55.4 | | | | 411 |
| /1992a | 1992 02 02.48644 | 08 02 32.26 | +01 37 53.9 | | | | 411 |
| /1992a | 1992 02 02.49191 | 08 02 32.25 | +01 37 53.5 | | | | 411 |
| /1992a | 1992 02 04.60868 | 08 00 46.27 | +01 22 11.3 | | | | 372 |
| /1992a | 1992 02 04.62153 | 08 00 45.82 | +01 22 08.8 | 17.5 | T | | 372 |
| /1992a | 1992 02 05.65451 | 07 59 55.00 | +01 14 40.5 | 17.5 | T | | 372 |
| /1992a | 1992 02 06.12359 | 07 59 32.17 | +01 11 17.1 | | | | 801 |
| /1992a | 1992 02 06.14454 | 07 59 31.17 | +01 11 08.1 | | | | 801 |
| /1992a | 1992 02 08.64329 | 07 57 31.19 | +00 53 39.9 | | | | 411 |
| /1992a | 1992 02 08.64978 | 07 57 30.95 | +00 53 38.2 | | | | 411 |
| /1992a | 1992 02 10.51007 | 07 56 04.39 | +00 41 01.3 | 17 | T | | 372 |
| /1992a | 1992 02 25.42928 | 07 46 18.25 | -00 47 16.2 | | | | 376 |
| /1992a | 1992 02 25.47789 | 07 46 16.66 | -00 47 28.7 | | | | 376 |
| /1992a | 1992 02 29.78125 | 07 44 12.13 | -01 09 04.7 | | | | 540 |
| /1992a | 1992 02 29.82361 | 07 44 11.13 | -01 09 16.8 | | | | 540 |
| | Comet Bradfield (1992b) | | | | | | |
| /1992b | 1992 02 03.73782 | 16 31 11.71 | -42 01 19.9 | | | | 413 |
| /1992b | 1992 02 10.82986 | 17 35 19.99 | -41 47 01.8 | | | | 323 |
| /1992b | 1992 02 12.73354 | 17 53 36.84 | -41 18 04.8 | | | | 413 |
| /1992b | 1992 02 12.74081 | 17 53 41.05 | -41 17 57.0 | | | | 413 |
| /1992b | 1992 02 12.74476 | 17 53 43.35 | -41 17 52.7 | | | | 413 |
| /1992b | 1992 02 13.62640 | 18 02 15.89 | -41 00 21.9 | | | 1 | 474 |
| /1992b | 1992 02 13.62987 | 18 02 17.68 | -41 00 18.9 | | | 1 | 474 |
| /1992b | 1992 02 13.63769 | 18 02 22.13 | -41 00 07.7 | | | 1 | 474 |
| /1992b | 1992 02 13.63959 | 18 02 23.13 | -41 00 04.8 | | | 1 | 474 |

Note 1: poor seeing; increasing cloud, last image very weak, only three reference stars on second pair.

* * * * *

OBSERVATIONS OF MINOR PLANETS.

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

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

M measurement difficult
N near edge of plate, measurement uncertain
O image out of focus
o plate measured in one direction only
P position uncertain
p poor image
R right ascension uncertain
r poor distribution of reference stars
S poor sky
s streaked image
T time uncertain
t trailed image
U uncertain image
u unconfirmed image
V very faint image
W weak image
w weak solution

| Object | Date | UT | R. A. (2000) | Decl. | Mag. | N | Obs. |
|---|---|---|---|---|---|---|---|
| 012 Uccle | | | | | | | |
| T. Pauwels, Observatoire Royal de Belgique, Avenue Circulaire 3, B-1180 Brussels, Belgium | | | | | | | |
| Double astrograph | | | | | | | |
| 1992 AC | 1992 01 | 30.00365 | 09 45 24.24 | +27 45 27.3 | | | 012 |
| 1992 AC | 1992 01 | 30.00417 | 09 45 24.25 | +27 45 27.3 | | | 012 |
| 1992 AC | 1992 01 | 30.01875 | 09 45 26.22 | +27 46 26.0 | | | 012 |
| 1992 AC | 1992 01 | 30.03750 | 09 45 28.79 | +27 47 40.3 | | | 012 |
| (362) | 1992 01 | 30.00365 | 09 41 11.57 | +27 02 29.0 | | | 012 |
| (362) | 1992 01 | 30.00417 | 09 41 11.57 | +27 02 28.5 | | | 012 |
| (362) | 1992 01 | 30.01875 | 09 41 10.63 | +27 02 33.2 | | | 012 |
| (362) | 1992 01 | 30.01875 | 09 41 10.68 | +27 02 32.5 | | | 012 |
| (362) | 1992 01 | 30.03750 | 09 41 09.57 | +27 02 37.7 | | | 012 |
| (362) | 1992 01 | 30.06806 | 09 41 07.68 | +27 02 46.0 | | | 012 |
| (1002) | 1935 02 | 08.05775 | 10 05 30.17 | +17 33 30.9 | | R | 012 |
| (1002) | 1935 02 | 08.05845 | 10 05 30.32 | +17 33 29.9 | | T | 012 |
| (1002) | 1935 02 | 10.08969 | 10 03 37.75 | +17 38 52.1 | | | 012 |
| (1002) | 1935 02 | 10.10700 | 10 03 36.94 | +17 38 55.1 | | | 012 |
| 033 Tautenburg | | | | | | | |
| F. Borngen, Karl Schwarzschild Observatorium, O-6901 Tautenburg, Federal Republic of Germany | | | | | | | |
| L. D. Schmadel, Astronomisches Rechen-Institut, W-6900 Heidelberg, Federal Republic of Germany | | | | | | | |
| Observers F. Borngen, L. D. Schmadel | | | | | | | |
| 1.3-m Schmidt telescope | | | | | | | |
| PPM | | | | | | | |
| 1979 SD9 | 1991 12 | 10.92222 | 06 23 28.33 | +26 16 18.5 | | | 033 |
| 1979 SD9 | 1991 12 | 10.98056 | 06 23 25.15 | +26 16 23.6 | 17.5 | I | 033 |
| 1979 SD9 | 1991 12 | 12.00347 | 06 22 31.12 | +26 17 57.7 | | | 033 |
| 1979 SD9 | 1992 01 | 02.98264 | 06 01 56.35 | +26 38 10.7 | 17.3 | | 033 |
| 1979 SD9 | 1992 01 | 03.02292 | 06 01 54.22 | +26 38 11.2 | | | 033 |
| 1981 GM1 | 1991 10 | 07.88333 | 00 05 16.60 | +02 00 12.9 | 18.3 | | 033 |
| 1981 GM1 | 1991 10 | 07.92917 | 00 05 13.94 | +02 00 08.8 | | | 033 |
| 1981 GM1 | 1991 10 | 08.89028 | 00 04 19.65 | +01 58 39.0 | | | 033 |
| 1982 FA | 1991 12 | 10.92222 | 06 15 46.80 | +23 47 29.5 | | | 033 |
| 1982 FA | 1991 12 | 10.98056 | 06 15 43.08 | +23 47 35.0 | 17.4 | | 033 |
| 1982 FA | 1991 12 | 12.00347 | 06 14 38.56 | +23 48 59.9 | | | 033 |
| 1989 CW | 1991 12 | 10.92222 | 06 18 59.25 | +24 34 13.6 | | | 033 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1989 CW | | 1991 | 12 | 10.98056 | 06 | 18 | 55.35 | +24 | 34 | 15.9 | 18.5 | | 033 |
| 1989 CW | | 1991 | 12 | 12.00347 | 06 | 17 | 48.88 | +24 | 34 | 42.9 | | | 033 |
| 1991 PO17 | * | 1991 | 08 | 14.99618 | 00 | 28 | 19.32 | +02 | 41 | 22.8 | 18.5 | | 033 |
| 1991 PO17 | | 1991 | 08 | 16.04931 | 00 | 28 | 13.22 | +02 | 41 | 47.9 | | | 033 |
| 1991 RQ2 | | 1991 | 10 | 07.88333 | 00 | 07 | 36.12 | +04 | 01 | 49.7 | 18.8 | I | 033 |
| 1991 RQ2 | | 1991 | 10 | 07.92917 | 00 | 07 | 34.30 | +04 | 01 | 22.2 | | | 033 |
| 1991 RQ2 | | 1991 | 10 | 08.89028 | 00 | 06 | 59.25 | +03 | 51 | 31.8 | | | 033 |
| 1991 RD7 | | 1991 | 10 | 07.88333 | 00 | 07 | 58.03 | +03 | 31 | 08.3 | 16.2 | | 033 |
| 1991 RD7 | | 1991 | 10 | 07.92917 | 00 | 07 | 54.77 | +03 | 31 | 21.3 | | | 033 |
| 1991 RD7 | | 1991 | 10 | 08.89028 | 00 | 06 | 49.47 | +03 | 35 | 38.8 | | | 033 |
| 1991 RR9 | | 1991 | 10 | 07.88333 | 00 | 00 | 39.00 | +03 | 01 | 32.9 | 17.6 | | 033 |
| 1991 RR9 | | 1991 | 10 | 07.92917 | 00 | 00 | 36.89 | +03 | 01 | 28.9 | | | 033 |
| 1991 RR9 | | 1991 | 10 | 08.89028 | 23 | 59 | 56.86 | +03 | 00 | 03.8 | | | 033 |
| 1991 RT9 | | 1991 | 10 | 07.88333 | 00 | 06 | 47.60 | +03 | 45 | 57.5 | 18.0 | | 033 |
| 1991 RT9 | | 1991 | 10 | 07.92917 | 00 | 06 | 45.45 | +03 | 45 | 45.9 | | | 033 |
| 1991 RT9 | | 1991 | 10 | 08.89028 | 00 | 06 | 03.72 | +03 | 41 | 33.3 | | | 033 |
| 1991 RU9 | | 1991 | 10 | 07.88333 | 00 | 06 | 50.81 | +03 | 20 | 46.5 | 18.1 | | 033 |
| 1991 RU9 | | 1991 | 10 | 07.92917 | 00 | 06 | 48.54 | +03 | 20 | 32.5 | | | 033 |
| 1991 RU9 | | 1991 | 10 | 08.89028 | 00 | 06 | 04.29 | +03 | 15 | 19.9 | | | 033 |
| 1991 RA13 | | 1991 | 10 | 07.88333 | 23 | 58 | 55.45 | +01 | 18 | 11.9 | 19.1 | | 033 |
| 1991 RA13 | | 1991 | 10 | 07.92917 | 23 | 58 | 53.35 | +01 | 17 | 57.1 | | | 033 |
| 1991 RA13 | | 1991 | 10 | 08.89028 | 23 | 58 | 11.60 | +01 | 12 | 36.2 | | | 033 |
| 1991 RF14 | | 1991 | 10 | 07.88333 | 00 | 02 | 48.60 | +03 | 29 | 30.3 | 17.4 | | 033 |
| 1991 RF14 | | 1991 | 10 | 07.92917 | 00 | 02 | 46.46 | +03 | 29 | 03.6 | | | 033 |
| 1991 RF14 | | 1991 | 10 | 08.89028 | 00 | 02 | 04.47 | +03 | 19 | 38.7 | | | 033 |
| 1991 TM7 | * | 1991 | 10 | 07.88333 | 00 | 00 | 42.70 | +02 | 06 | 04.8 | 19.1 | | 033 |
| 1991 TM7 | | 1991 | 10 | 07.92917 | 00 | 00 | 40.57 | +02 | 05 | 45.5 | | | 033 |
| 1991 TM7 | | 1991 | 10 | 08.89028 | 23 | 59 | 57.10 | +01 | 59 | 18.2 | | | 033 |
| 1991 TN7 | * | 1991 | 10 | 07.88333 | 00 | 00 | 59.93 | +01 | 15 | 10.3 | 18.5 | | 033 |
| 1991 TN7 | | 1991 | 10 | 07.92917 | 00 | 00 | 57.73 | +01 | 15 | 00.4 | | | 033 |
| 1991 TN7 | | 1991 | 10 | 08.89028 | 00 | 00 | 15.24 | +01 | 11 | 52.1 | | | 033 |
| 1991 TO7 | * | 1991 | 10 | 07.88333 | 00 | 02 | 09.81 | +04 | 04 | 04.0 | 19.2 | | 033 |
| 1991 TO7 | | 1991 | 10 | 07.92917 | 00 | 02 | 08.01 | +04 | 03 | 46.5 | | | 033 |
| 1991 TO7 | | 1991 | 10 | 08.89028 | 00 | 01 | 32.54 | +03 | 57 | 30.2 | | | 033 |
| 1991 TP7 | * | 1991 | 10 | 07.88333 | 00 | 04 | 11.96 | +01 | 22 | 45.2 | 19.2 | | 033 |
| 1991 TP7 | | 1991 | 10 | 07.92917 | 00 | 04 | 09.13 | +01 | 22 | 35.8 | | | 033 |
| 1991 TP7 | | 1991 | 10 | 08.89028 | 00 | 03 | 12.53 | +01 | 19 | 34.4 | | | 033 |
| 1991 TQ7 | * | 1991 | 10 | 07.88333 | 00 | 05 | 49.30 | +03 | 41 | 20.5 | 18.2 | | 033 |
| 1991 TQ7 | | 1991 | 10 | 07.92917 | 00 | 05 | 46.55 | +03 | 41 | 20.2 | | | 033 |
| 1991 TQ7 | | 1991 | 10 | 08.89028 | 00 | 04 | 50.78 | +03 | 41 | 15.5 | | | 033 |
| 1991 TR7 | * | 1991 | 10 | 07.88333 | 00 | 06 | 00.44 | +03 | 15 | 11.0 | 19.4 | | 033 |
| 1991 TR7 | | 1991 | 10 | 07.92917 | 00 | 05 | 58.51 | +03 | 14 | 49.2 | | | 033 |
| 1991 TR7 | | 1991 | 10 | 08.89028 | 00 | 05 | 21.92 | +03 | 06 | 56.2 | | | 033 |
| 1991 TS7 | * | 1991 | 10 | 07.88333 | 00 | 06 | 01.97 | +01 | 51 | 50.9 | 18.4 | | 033 |
| 1991 TS7 | | 1991 | 10 | 07.92917 | 00 | 05 | 59.43 | +01 | 51 | 37.7 | | | 033 |
| 1991 TS7 | | 1991 | 10 | 08.89028 | 00 | 05 | 08.20 | +01 | 47 | 00.1 | | | 033 |
| 1991 TT7 | * | 1991 | 10 | 07.88333 | 00 | 06 | 16.93 | +03 | 56 | 44.2 | 19.4 | | 033 |
| 1991 TT7 | | 1991 | 10 | 07.92917 | 00 | 06 | 14.97 | +03 | 56 | 21.8 | | | 033 |
| 1991 TT7 | | 1991 | 10 | 08.89028 | 00 | 05 | 36.32 | +03 | 48 | 41.4 | | | 033 |
| 1991 TU7 | * | 1991 | 10 | 07.88333 | 00 | 06 | 42.27 | +03 | 12 | 25.9 | 19.5 | | 033 |
| 1991 TU7 | | 1991 | 10 | 07.92917 | 00 | 06 | 39.68 | +03 | 12 | 08.0 | | | 033 |
| 1991 TU7 | | 1991 | 10 | 08.89028 | 00 | 05 | 48.34 | +03 | 05 | 28.7 | | | 033 |
| 1991 TV7 | * | 1991 | 10 | 07.88333 | 00 | 06 | 52.11 | +02 | 11 | 36.4 | 19.0 | | 033 |
| 1991 TV7 | | 1991 | 10 | 07.92917 | 00 | 06 | 49.81 | +02 | 11 | 26.8 | | | 033 |
| 1991 TV7 | | 1991 | 10 | 08.89028 | 00 | 06 | 03.40 | +02 | 07 | 39.2 | | | 033 |
| 1991 TW7 | * | 1991 | 10 | 07.88333 | 00 | 07 | 51.84 | +03 | 55 | 04.2 | 19.2 | | 033 |
| 1991 TW7 | | 1991 | 10 | 07.92917 | 00 | 07 | 49.13 | +03 | 54 | 51.6 | | | 033 |
| 1991 TW7 | | 1991 | 10 | 08.89028 | 00 | 06 | 55.64 | +03 | 50 | 04.2 | | | 033 |
| 1991 TX7 | * | 1991 | 10 | 07.88333 | 00 | 08 | 21.80 | +04 | 04 | 19.3 | 17.9 | | 033 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 1991 TX7 | | 1991 | 10 | 07.92917 | 00 | 08 | 19.57 | +04 | 04 | 06.9 | | 033 |
| 1991 TX7 | | 1991 | 10 | 08.89028 | 00 | 07 | 36.07 | +03 | 59 | 38.6 | | 033 |
| 1991 TY7 | * | 1991 | 10 | 07.88333 | 23 | 57 | 10.17 | +01 | 31 | 37.7 | 19.3 | 033 |
| 1991 TY7 | | 1991 | 10 | 07.92917 | 23 | 57 | 07.77 | +01 | 31 | 31.3 | | 033 |
| 1991 TY7 | | 1991 | 10 | 08.89028 | 23 | 56 | 20.81 | +01 | 29 | 18.4 | | 033 |
| 1991 TZ7 | * | 1991 | 10 | 07.88333 | 23 | 57 | 26.01 | +03 | 21 | 53.5 | 19.3 | 033 |
| 1991 TZ7 | | 1991 | 10 | 07.92917 | 23 | 57 | 23.87 | +03 | 21 | 27.4 | | 033 |
| 1991 TZ7 | | 1991 | 10 | 08.89028 | 23 | 56 | 40.47 | +03 | 12 | 57.0 | | 033 |
| 1991 TA8 | * | 1991 | 10 | 07.88333 | 23 | 58 | 15.39 | +02 | 17 | 21.4 | 19.7 | 033 |
| 1991 TA8 | | 1991 | 10 | 07.92917 | 23 | 58 | 13.60 | +02 | 17 | 01.0 | | 033 |
| 1991 TA8 | | 1991 | 10 | 08.89028 | 23 | 57 | 37.26 | +02 | 09 | 41.2 | | 033 |
| 1991 TB8 | * | 1991 | 10 | 07.88333 | 23 | 58 | 25.17 | +02 | 49 | 39.5 | 19.5 | 033 |
| 1991 TB8 | | 1991 | 10 | 07.92917 | 23 | 58 | 23.25 | +02 | 49 | 33.0 | | 033 |
| 1991 TB8 | | 1991 | 10 | 08.89028 | 23 | 57 | 46.01 | +02 | 46 | 48.5 | | 033 |
| 1991 TC8 | * | 1991 | 10 | 07.88333 | 23 | 58 | 40.12 | +04 | 19 | 05.7 | 19.0 | 033 |
| 1991 TC8 | | 1991 | 10 | 07.92917 | 23 | 58 | 37.80 | +04 | 18 | 56.2 | | 033 |
| 1991 TC8 | | 1991 | 10 | 08.89028 | 23 | 57 | 51.02 | +04 | 15 | 18.9 | | 033 |
| 1991 TD8 | * | 1991 | 10 | 07.88333 | 23 | 59 | 13.33 | +02 | 11 | 45.4 | 18.6 | 033 |
| 1991 TD8 | | 1991 | 10 | 07.92917 | 23 | 59 | 11.08 | +02 | 11 | 22.8 | | 033 |
| 1991 TD8 | | 1991 | 10 | 08.89028 | 23 | 58 | 26.78 | +02 | 03 | 16.2 | | 033 |
| 1991 XF1 | * | 1991 | 12 | 10.92222 | 06 | 16 | 41.35 | +26 | 15 | 48.3 | | 033 |
| 1991 XF1 | | 1991 | 12 | 10.98056 | 06 | 16 | 38.01 | +26 | 15 | 48.5 | 19.1 | 033 |
| 1991 XF1 | | 1991 | 12 | 12.00347 | 06 | 15 | 41.46 | +26 | 15 | 31.3 | | 033 |
| 1991 XG1 | * | 1991 | 12 | 10.92222 | 06 | 17 | 47.54 | +24 | 46 | 17.9 | | 033 |
| 1991 XG1 | | 1991 | 12 | 10.98056 | 06 | 17 | 45.46 | +24 | 46 | 28.6 | 18.3 | 033 |
| 1991 XG1 | | 1991 | 12 | 12.00347 | 06 | 17 | 08.35 | +24 | 49 | 38.3 | | 033 |
| 1991 XH1 | * | 1991 | 12 | 10.92222 | 06 | 26 | 05.04 | +25 | 39 | 27.3 | | 033 |
| 1991 XH1 | | 1991 | 12 | 10.98056 | 06 | 26 | 01.61 | +25 | 39 | 35.8 | 17.9 | 033 |
| 1991 XH1 | | 1991 | 12 | 12.00347 | 06 | 25 | 02.53 | +25 | 41 | 39.0 | | 033 |
| 1991 XJ1 | * | 1991 | 12 | 10.92222 | 06 | 29 | 05.69 | +23 | 58 | 58.5 | | 033 |
| 1991 XJ1 | | 1991 | 12 | 10.98056 | 06 | 29 | 01.95 | +23 | 59 | 12.2 | 18.6 | 033 |
| 1991 XJ1 | | 1991 | 12 | 12.00347 | 06 | 27 | 57.33 | +24 | 02 | 57.2 | | 033 |
| 3289 T-1 | | 1991 | 10 | 07.88333 | 23 | 58 | 48.69 | +03 | 20 | 12.8 | 16.6 | 033 |
| 3289 T-1 | | 1991 | 10 | 07.92917 | 23 | 58 | 46.62 | +03 | 19 | 49.0 | | 033 |
| 3289 T-1 | | 1991 | 10 | 08.89028 | 23 | 58 | 05.94 | +03 | 11 | 30.2 | | 033 |
| (222) | | 1991 | 11 | 11.00243 | 06 | 34 | 27.81 | +23 | 27 | 00.8 | 15.5 | 033 |
| (222) | | 1991 | 11 | 11.04861 | 06 | 34 | 27.06 | +23 | 27 | 02.3 | | 033 |
| (222) | | 1991 | 12 | 10.92222 | 06 | 17 | 23.99 | +23 | 51 | 12.3 | | 033 |
| (222) | | 1991 | 12 | 10.98056 | 06 | 17 | 21.11 | +23 | 51 | 15.9 | 15.4 | 033 |
| (222) | | 1991 | 12 | 12.00347 | 06 | 16 | 31.07 | +23 | 52 | 03.9 | | 033 |
| (585) | | 1991 | 08 | 14.99618 | 00 | 25 | 39.60 | +04 | 28 | 35.6 | 14.5 | 033 |
| (585) | | 1991 | 08 | 16.04931 | 00 | 25 | 24.66 | +04 | 24 | 52.9 | | 033 |
| (585) | | 1991 | 08 | 19.02917 | 00 | 24 | 34.09 | +04 | 13 | 19.0 | | 033 |
| (656) | | 1991 | 11 | 11.00243 | 06 | 32 | 21.54 | +22 | 34 | 04.6 | 16.0 | 033 |
| (656) | | 1991 | 11 | 11.04861 | 06 | 32 | 21.11 | +22 | 34 | 04.3 | | 033 |
| (1162) | | 1991 | 11 | 11.00243 | 06 | 39 | 26.34 | +24 | 50 | 03.9 | 17.3 | 033 |
| (1162) | | 1991 | 11 | 11.04861 | 06 | 39 | 25.71 | +24 | 50 | 05.6 | | 033 |
| (1162) | | 1991 | 12 | 10.92222 | 06 | 25 | 18.06 | +25 | 13 | 34.6 | | 033 |
| (1162) | | 1991 | 12 | 10.98056 | 06 | 25 | 15.68 | +25 | 13 | 37.9 | 16.6 | 033 |
| (1162) | | 1991 | 12 | 12.00347 | 06 | 24 | 34.60 | +25 | 14 | 21.2 | | 033 |
| (1453) | | 1991 | 10 | 07.88333 | 00 | 04 | 35.69 | +01 | 25 | 51.0 | 15.3 | 033 |
| (1453) | | 1991 | 10 | 07.92917 | 00 | 04 | 30.86 | +01 | 26 | 15.7 | | 033 |
| (1453) | | 1991 | 10 | 08.89028 | 00 | 02 | 52.22 | +01 | 34 | 44.8 | | 033 |
| (1496) | | 1991 | 12 | 10.92222 | 06 | 16 | 31.62 | +25 | 13 | 36.9 | | 033 |
| (1496) | | 1991 | 12 | 10.98056 | 06 | 16 | 27.49 | +25 | 13 | 37.0 | 17.0 | 033 |
| (1496) | | 1991 | 12 | 12.00347 | 06 | 15 | 16.51 | +25 | 13 | 23.0 | | 033 |
| (1780) | | 1992 | 01 | 02.98264 | 06 | 07 | 22.19 | +27 | 13 | 50.8 | 16.2 | 033 |
| (1780) | | 1992 | 01 | 03.02292 | 06 | 07 | 19.94 | +27 | 13 | 45.1 | | 033 |
| (1836) | | 1991 | 12 | 10.92222 | 06 | 16 | 19.18 | +24 | 06 | 05.6 | | 033 |

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|---|---|---|---|---|---|---|---|---|---|
| (1836) | | 1991 12 10.98056 | 06 16 15.90 | +24 06 02.3 | 17.6 | | | 033 |
| (1836) | | 1991 12 12.00347 | 06 15 19.39 | +24 04 53.3 | | | | 033 |
| (1841) | | 1991 12 10.92222 | 06 18 10.74 | +25 55 56.0 | | | | 033 |
| (1841) | | 1991 12 10.98056 | 06 18 07.96 | +25 56 00.1 | 16.3 | | | 033 |
| (1841) | | 1991 12 12.00347 | 06 17 19.54 | +25 57 03.0 | | | | 033 |
| (1841) | | 1992 01 02.98264 | 05 58 44.82 | +26 10 50.4 | 16.9 | | | 033 |
| (1841) | | 1992 01 03.02292 | 05 58 42.85 | +26 10 50.6 | | | | 033 |
| (2098) | | 1991 08 14.99618 | 00 29 38.43 | +05 18 16.5 | 16.0 | | | 033 |
| (2098) | | 1991 08 16.04931 | 00 29 28.11 | +05 22 14.9 | | | | 033 |
| (2098) | | 1991 08 19.02917 | 00 28 47.70 | +05 32 27.8 | | | | 033 |
| (2186) | | 1991 11 11.00243 | 06 36 59.34 | +24 40 10.3 | 18.2 | | | 033 |
| (2186) | | 1991 11 11.04861 | 06 36 59.10 | +24 40 09.4 | | | | 033 |
| (2186) | | 1991 12 10.92222 | 06 20 45.06 | +24 32 44.8 | | | | 033 |
| (2186) | | 1991 12 10.98056 | 06 20 41.72 | +24 32 44.2 | 16.9 | | | 033 |
| (2186) | | 1991 12 12.00347 | 06 19 43.80 | +24 32 16.9 | | | | 033 |
| (2618) | | 1992 01 02.98264 | 06 03 02.38 | +25 17 39.2 | 17.8 | | | 033 |
| (2618) | | 1992 01 03.02292 | 06 03 00.16 | +25 17 32.4 | | | | 033 |
| (2633) | | 1991 12 10.92222 | 06 22 50.30 | +25 37 42.8 | | | | 033 |
| (2633) | | 1991 12 10.98056 | 06 22 46.24 | +25 37 51.2 | 17.2 | | | 033 |
| (2633) | | 1991 12 12.00347 | 06 21 36.08 | +25 40 06.5 | | | | 033 |
| (2633) | | 1992 01 02.98264 | 05 54 57.15 | +26 12 16.7 | 17.2 | | | 033 |
| (2633) | | 1992 01 03.02292 | 05 54 54.39 | +26 12 17.8 | | | | 033 |
| (2926) | | 1991 10 07.88333 | 00 02 02.11 | +03 53 27.2 | 17.5 | | | 033 |
| (2926) | | 1991 10 07.92917 | 00 01 59.71 | +03 53 07.1 | | | | 033 |
| (2926) | | 1991 10 08.89028 | 00 01 12.08 | +03 45 54.7 | | | | 033 |
| (2939) | | 1991 08 14.99618 | 00 29 03.95 | +03 17 36.8 | 17.5 | | | 033 |
| (2939) | | 1991 08 16.04931 | 00 28 41.58 | +03 16 47.8 | | | | 033 |
| (3454) | | 1991 10 07.88333 | 00 05 49.38 | +01 48 21.9 | 16.5 | | | 033 |
| (3454) | | 1991 10 07.92917 | 00 05 46.99 | +01 47 56.7 | | | | 033 |
| (3454) | | 1991 10 08.89028 | 00 04 59.77 | +01 39 04.2 | | | | 033 |
| (4331) | | 1992 01 02.98264 | 06 07 30.29 | +26 57 26.7 | 18.2 | | | 033 |
| (4331) | | 1992 01 03.02292 | 06 07 27.41 | +26 57 30.2 | | | | 033 |
| (4623) | | 1991 12 10.92222 | 06 27 09.32 | +25 56 23.1 | | | | 033 |
| (4623) | | 1991 12 10.98056 | 06 27 06.09 | +25 56 27.1 | 17.8 | | | 033 |
| (4623) | | 1991 12 12.00347 | 06 26 10.59 | +25 57 22.9 | | | | 033 |
| (4623) | | 1992 01 02.98264 | 06 04 41.05 | +26 06 09.6 | 17.6 | | | 033 |
| (4623) | | 1992 01 03.02292 | 06 04 38.76 | +26 06 09.0 | | | | 033 |
| (4805) | | 1991 12 10.92222 | 06 28 59.15 | +24 37 17.1 | | | | 033 |
| (4805) | | 1991 12 10.98056 | 06 28 57.21 | +24 37 13.7 | 18.5 | | | 033 |
| (4805) | | 1991 12 12.00347 | 06 28 22.77 | +24 36 24.5 | | | | 033 |

046 Klet
A. Mrkos, Klet Observatory, CS-38101 Cesky Krumlov, Czechoslovakia
Observers A. Mrkos, Z. Vavrova
0.6-m Maksutov reflector

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1985 CJ1 | | 1991 11 26.80657 | 03 43 02.47 | +19 53 39.0 | 16.8 | | U | 046 |
| 1985 CJ1 | | 1991 11 26.82069 | 03 43 01.56 | +19 53 42.3 | | | | 046 |
| 1985 CJ1 | | 1991 11 27.79303 | 03 41 58.61 | +19 52 31.8 | 16.7 | | U | 046 |
| 1985 CJ1 | | 1991 11 27.80715 | 03 41 57.80 | +19 52 31.1 | | | | 046 |

049 Kvistaberg
C.-I. Lagerkvist, Astronomiska Observatoriet, Box 515,
S-75120 Uppsala, Sweden
Observer T. Oja
Measurer A. Erikson
AGK3

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1990 TG16 | * | 1990 10 10.80144 | 23 05 54.82 | +19 37 43.9 | 16.5 | | | 049 |
| 1990 TG16 | | 1990 10 10.81598 | 23 05 54.53 | +19 37 46.0 | | | | 049 |
| 1990 VB14 | | 1990 11 18.94427 | 04 41 32.88 | +24 41 23.6 | 16.5 | | | 049 |

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|---|---|---|---|---|---|---|---|---|---|
| 1990 VB14 | | 1990 11 18.95881 | 04 41 32.05 | +24 41 21.8 | | | | | 049 |
| 1990 VB14 | | 1990 12 20.93169 | 04 12 18.50 | +23 01 45.6 | 16.5 | | | | 049 |
| 1990 VB14 | | 1990 12 20.94762 | 04 12 17.85 | +23 01 44.1 | | | | | 049 |
| 1990 WB15 | * | 1990 11 18.94427 | 04 35 51.55 | +23 43 40.4 | 16.5 | | | | 049 |
| 1990 WB15 | | 1990 11 18.95881 | 04 35 50.50 | +23 43 40.0 | | | | | 049 |
| 1990 WC15 | * | 1990 11 18.94427 | 04 36 09.26 | +23 15 00.4 | 16.5 | | | | 049 |
| 1990 WC15 | | 1990 11 18.95881 | 04 36 08.32 | +23 15 00.6 | | | | | 049 |
| 1992 AC | | 1992 02 04.94088 | 10 00 20.58 | +34 11 52.9 | | | | | 049 |
| 1992 AC | | 1992 02 04.96166 | 10 00 23.69 | +34 13 12.1 | | | | | 049 |
| 1992 AD | | 1992 02 04.92392 | 08 03 25.52 | +20 59 52.9 | | | | | 049 |

091 Aurec-sur-Loire
R. Chanal, Observatoire de Nurol, F-43110 Aurec-sur-Loire, France
0.41-m reflector

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1991 JY | | 1991 05 19.94028 | 15 30 49.67 | -12 53 12.7 | | | | | 091 |
| 1991 JY | | 1991 05 19.94722 | 15 30 41.46 | -12 55 05.6 | | | | | 091 |
| 1991 JY | | 1991 05 19.95833 | 15 30 27.28 | -12 58 08.3 | | | | | 091 |
| (3) | | 1991 07 12.01181 | 19 36 37.20 | -04 37 32.4 | 9.5 | | | | 091 |
| (920) | | 1991 09 08.87917 | 22 14 16.17 | +00 01 33.9 | 15.0 | | | | 091 |
| (920) | | 1991 09 08.95486 | 22 14 12.73 | +00 00 50.2 | 15.0 | | | | 091 |
| (1322) | | 1991 10 03.91806 | 22 59 19.78 | +34 53 00.8 | 16.2 | | | | 091 |
| (1322) | | 1991 10 03.96806 | 22 59 17.81 | +34 52 17.4 | 16.2 | | | | 091 |
| (1360) | | 1991 10 03.93889 | 23 28 33.00 | +18 18 05.8 | 15.2 | | | | 091 |
| (1360) | | 1991 10 03.98403 | 23 28 30.64 | +18 18 07.4 | 15.2 | | | | 091 |
| (2420) | | 1991 08 16.90972 | 20 32 32.64 | +04 29 32.8 | 15.3 | | V | | 091 |
| (2420) | | 1991 08 17.09514 | 20 32 23.83 | +04 28 11.4 | 15.3 | | V | | 091 |
| (2642) | | 1991 08 16.89514 | 19 59 54.61 | +04 35 45.0 | 15.2 | | | | 091 |
| (2642) | | 1991 08 17.08194 | 19 59 47.26 | +04 33 59.9 | 15.2 | | | | 091 |
| (4308) | | 1991 08 04.92569 | 21 31 41.07 | -10 05 56.7 | 15.8 | | V | | 091 |
| (4308) | | 1991 08 04.98403 | 21 31 37.77 | -10 06 01.8 | 15.8 | | V | | 091 |
| (4558) | | 1991 07 14.91042 | 16 09 58.63 | -11 06 25.4 | 15.0 | | V | | 091 |
| (4558) | | 1991 07 14.96528 | 16 09 57.36 | -11 05 34.5 | 15.0 | | V | | 091 |
| (4558) | | 1991 07 15.92778 | 16 09 41.85 | -10 51 37.8 | 15.0 | | r | | 091 |
| (4558) | | 1991 07 15.96181 | 16 09 41.22 | -10 51 09.2 | 15.0 | | r | | 091 |

104 San Marcello Pistoiese
L. Tesi, Osservatorio di Pian dei Termini, Viale Panoramico 45, I-51028 San Marcello Pistoiese (PT), Italy
Observers L. Tesi, P. Gigli
Measurers L. Tesi, G. Cattani
AGK3, SAOC

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1992 AC | | 1992 01 25.85694 | 09 35 40.93 | +23 15 50.3 | | | | | 104 |
| 1992 AC | | 1992 01 25.87014 | 09 35 42.62 | +23 16 42.1 | | | | | 104 |
| 1992 AC | | 1992 01 28.85833 | 09 42 40.56 | +26 30 16.4 | | | | | 104 |
| 1992 AC | | 1992 01 28.86667 | 09 42 41.78 | +26 30 47.5 | | | | | 104 |
| 1992 AC | | 1992 01 30.88750 | 09 47 34.18 | +28 43 33.1 | | | | | 104 |
| 1992 AC | | 1992 01 30.90451 | 09 47 36.60 | +28 44 41.8 | | | | | 104 |
| 1992 AC | | 1992 01 30.92049 | 09 47 38.82 | +28 45 45.4 | | | | | 104 |
| 1992 AC | | 1992 01 31.88750 | 09 50 01.96 | +29 49 17.8 | | | | | 104 |
| 1992 AC | | 1992 02 01.95556 | 09 52 41.97 | +30 59 25.0 | | | | | 104 |
| 1992 AC | | 1992 02 01.96597 | 09 52 43.25 | +31 00 04.8 | | | | | 104 |
| 1992 AC | | 1992 02 06.89514 | 10 05 30.83 | +36 14 12.2 | | | | | 104 |
| 1992 AC | | 1992 02 06.90278 | 10 05 32.04 | +36 14 40.6 | | | | | 104 |
| (1622) | | 1992 02 05.91458 | 11 10 42.67 | +11 31 05.5 | | | | | 104 |
| (1622) | | 1992 02 05.92986 | 11 10 41.99 | +11 31 09.3 | | | | | 104 |
| (1622) | | 1992 02 06.92431 | 11 10 00.04 | +11 34 26.3 | | | | | 104 |
| (2083) | | 1992 01 31.92604 | 04 53 12.26 | +10 25 52.6 | | | | | 104 |
| (2083) | | 1992 02 01.85208 | 04 53 33.49 | +10 20 31.6 | | | | | 104 |
| (2083) | | 1992 02 01.87292 | 04 53 34.02 | +10 20 23.6 | | | | | 104 |

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|---|---|---|---|---|---|---|---|---|
| (2083) | | 1992 02 05.86597 | 04 55 27.71 | +09 59 45.4 | | | | 104 |
| (2083) | | 1992 02 06.85069 | 04 56 01.23 | +09 55 16.2 | | | | 104 |
| (2083) | | 1992 02 06.86667 | 04 56 01.71 | +09 55 11.6 | | | | 104 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1984 FS | | 1992 01 01.19618 | 05 38 44.98 | +04 25 18.9 | | | W | 293 |

303 Merida
O. A. Naranjo, Dept. de Fisica, Universidad de los Andes,
Merida 5101, Venezuela
Observers O. A. Naranjo, J. D. Stock

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1983 QH1 | | 1992 02 06.20854 | 09 28 12.22 | +12 57 23.4 | | | | 303 |
| 1983 QH1 | | 1992 02 07.21896 | 09 27 10.39 | +13 03 41.9 | | | | 303 |
| 1990 QY7 | | 1992 02 06.20854 | 09 34 55.27 | +16 14 18.2 | | | | 303 |
| 1990 QY7 | | 1992 02 07.21896 | 09 33 45.56 | +16 17 21.0 | | | | 303 |
| 1991 RR9 | | 1991 10 04.15963 | 00 03 25.26 | +03 07 41.5 | | | | 303 |
| 1991 RR9 | | 1991 10 05.17161 | 00 02 38.68 | +03 05 59.8 | | | | 303 |
| 1991 RB13 | | 1991 10 04.15963 | 00 03 59.75 | +06 26 35.1 | | | | 303 |
| 1991 RB13 | | 1991 10 05.17161 | 00 03 07.22 | +06 25 35.6 | | | | 303 |
| 1991 RV13 | | 1991 10 04.15963 | 23 52 37.02 | +05 29 31.3 | | | | 303 |
| 1991 RV13 | | 1991 10 05.17161 | 23 51 52.04 | +05 20 12.9 | | | | 303 |
| 1991 RA14 | | 1991 10 04.15963 | 23 55 50.10 | +05 06 28.8 | | | | 303 |
| 1991 RA14 | | 1991 10 05.17161 | 23 55 08.69 | +05 04 16.6 | | | | 303 |
| 1991 RE14 | | 1991 10 04.15963 | 23 55 25.19 | +06 15 05.8 | | | | 303 |
| 1991 RE14 | | 1991 10 05.17161 | 23 54 26.52 | +06 13 33.4 | | | | 303 |
| 1991 TF8 | * | 1991 10 04.15963 | 00 04 20.43 | +06 50 04.3 | | | | 303 |
| 1991 TF8 | | 1991 10 05.17161 | 00 03 44.50 | +06 45 52.7 | | | | 303 |
| 1991 TG8 | * | 1991 10 04.15963 | 23 53 46.82 | +05 14 25.1 | | | | 303 |
| 1991 TG8 | | 1991 10 05.17161 | 23 52 56.80 | +05 13 33.3 | | | | 303 |
| 1991 TH8 | * | 1991 10 04.15963 | 23 54 16.46 | +03 49 13.5 | | | | 303 |
| 1991 TH8 | | 1991 10 05.17161 | 23 53 31.53 | +03 43 34.9 | | | | 303 |
| 1991 TJ8 | * | 1991 10 04.33133 | 03 39 46.6 | +07 32 14 | | | | 303 |
| 1991 TJ8 | | 1991 10 05.32339 | 03 39 57.9 | +07 33 43 | | | | 303 |
| 1992 CV | * | 1992 02 06.20854 | 09 25 24.73 | +16 28 40.0 | 18 | | | 303 |
| 1992 CV | | 1992 02 07.21896 | 09 24 30.27 | +16 34 14.2 | 18 | | | 303 |
| 1992 CW | * | 1992 02 06.20854 | 09 30 57.67 | +15 20 57.3 | 17 | | | 303 |
| 1992 CW | | 1992 02 07.21896 | 09 29 45.99 | +15 19 59.4 | 17 | | | 303 |
| 1992 CX | * | 1992 02 06.20854 | 09 33 59.02 | +16 09 19.6 | 16 | | | 303 |
| 1992 CX | | 1992 02 07.21896 | 09 32 55.39 | +16 10 17.8 | 16 | | | 303 |
| 1992 CY | * | 1992 02 06.20854 | 09 35 28.86 | +14 20 21.2 | 17 | | | 303 |
| 1992 CY | | 1992 02 07.21896 | 09 34 37.65 | +14 24 57.5 | 17 | | | 303 |
| 1992 CZ | * | 1992 02 06.20854 | 09 37 49.19 | +14 37 03.4 | 18 | | | 303 |
| 1992 CZ | | 1992 02 07.21896 | 09 36 46.09 | +14 45 02.1 | 18 | | | 303 |
| 3289 T-1 | | 1991 10 04.15963 | 00 01 36.41 | +03 53 21.3 | | | | 303 |
| 3289 T-1 | | 1991 10 05.17161 | 00 00 49.43 | +03 44 13.8 | | | | 303 |
| (62) | | 1991 10 05.00494 | 16 46 22.96 | -21 06 35.1 | | | | 303 |
| (147) | | 1991 10 05.00494 | 16 46 33.98 | -21 46 23.3 | | | | 303 |
| (311) | | 1991 09 11.28222 | 01 56 04.70 | +07 30 36.2 | | | | 303 |
| (311) | | 1991 09 12.30289 | 01 55 44.85 | +07 28 06.4 | | | | 303 |
| (1813) | | 1991 09 11.28222 | 01 55 15.94 | +07 47 22.2 | | | | 303 |
| (1813) | | 1991 09 12.30289 | 01 54 50.31 | +07 46 17.6 | | | | 303 |
| (2098) | | 1991 10 04.15963 | 23 52 31.84 | +05 12 27.7 | | | | 303 |
| (2098) | | 1991 10 05.17161 | 23 51 37.48 | +05 09 42.9 | | | | 303 |
| (2162) | | 1991 09 11.28222 | 01 54 34.88 | +06 43 08.4 | | | | 303 |
| (2162) | | 1991 09 12.30289 | 01 54 28.47 | +06 39 36.7 | | | | 303 |
| (2392) | | 1992 02 06.20854 | 09 33 35.39 | +14 13 04.7 | | | | 303 |

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|---|---|---|---|---|---|---|---|
| (2392) | | 1992 02 07.21896 | 09 32 36.19 | +14 20 15.2 | | | 303 |
| (2450) | | 1992 02 06.20854 | 09 26 18.21 | +16 28 33.8 | | | 303 |
| (2450) | | 1992 02 07.21896 | 09 25 28.51 | +16 33 17.2 | | | 303 |
| (2492) | | 1992 02 06.20854 | 09 30 55.45 | +15 48 19.8 | | | 303 |
| (2492) | | 1992 02 07.21896 | 09 30 07.92 | +15 52 05.2 | | | 303 |
| (2926) | | 1991 10 04.15963 | 00 05 14.81 | +04 22 00.7 | | | 303 |
| (2926) | | 1991 10 05.17161 | 00 04 21.13 | +04 14 09.7 | | | 303 |
| (3300) | | 1991 09 11.28222 | 01 56 14.51 | +06 13 29.5 | | | 303 |
| (3300) | | 1991 09 12.30289 | 01 55 42.49 | +06 14 50.6 | | | 303 |
| (3844) | | 1991 09 11.28222 | 02 04 15.00 | +07 27 23.4 | | | 303 |
| (3844) | | 1991 09 12.30289 | 02 04 04.77 | +07 23 58.6 | | | 303 |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1981 DG3 | | 1992 02 08.61771 | 10 20 55.78 | +10 07 46.1 | 16.5 | | 364 |
| 1981 DG3 | | 1992 02 08.63160 | 10 20 55.16 | +10 07 50.1 | | | 364 |
| 1981 DG3 | | 1992 02 08.64792 | 10 20 54.25 | +10 07 49.3 | | | 364 |
| 1981 DG3 | | 1992 02 08.66528 | 10 20 53.48 | +10 07 49.8 | | | 364 |
| 1981 DG3 | | 1992 02 22.53715 | 10 08 32.75 | +10 15 02.2 | 17 | | 364 |
| 1981 DG3 | | 1992 02 22.55104 | 10 08 31.92 | +10 15 02.0 | | | 364 |
| 1981 DG3 | | 1992 02 22.56424 | 10 08 31.30 | +10 15 03.0 | | | 364 |
| 1981 DG3 | | 1992 02 22.57813 | 10 08 30.39 | +10 15 02.1 | | | 364 |
| 1981 DG3 | | 1992 02 26.59549 | 10 04 52.24 | +10 17 13.3 | 17 | | 364 |
| 1981 DG3 | | 1992 02 26.60938 | 10 04 51.50 | +10 17 13.2 | | | 364 |
| 1990 VH4 | | 1992 02 02.53785 | 09 24 17.48 | +19 40 12.1 | | | 364 |
| 1990 VH4 | | 1992 02 02.55174 | 09 24 16.88 | +19 40 17.4 | | | 364 |
| 1992 CA1 | | 1992 02 08.61771 | 10 17 21.66 | +09 35 23.5 | 16.5 | | 364 |
| 1992 CA1 | | 1992 02 08.63160 | 10 17 21.09 | +09 35 29.4 | | | 364 |
| 1992 CA1 | | 1992 02 08.64792 | 10 17 20.32 | +09 35 36.2 | | | 364 |
| 1992 CA1 | | 1992 02 08.66528 | 10 17 19.57 | +09 35 42.2 | | | 364 |
| 1992 CA1 | | 1992 02 22.53715 | 10 07 25.17 | +11 14 48.4 | 16.5 | | 364 |
| 1992 CA1 | | 1992 02 22.55104 | 10 07 24.60 | +11 14 54.7 | | | 364 |
| 1992 DX | * | 1992 02 25.62951 | 10 09 39.17 | +10 16 22.8 | 16.5 | | 364 |
| 1992 DX | | 1992 02 25.64340 | 10 09 38.51 | +10 16 28.0 | | | 364 |
| 1992 DX | | 1992 02 26.59549 | 10 08 51.09 | +10 24 01.0 | 16.5 | | 364 |
| 1992 DX | | 1992 02 26.60938 | 10 08 50.57 | +10 24 04.1 | | | 364 |
| (227) | | 1992 02 25.60174 | 10 02 25.68 | +11 11 47.6 | 13 | | 364 |
| (227) | | 1992 02 25.61563 | 10 02 24.90 | +11 11 48.9 | | | 364 |
| (689) | | 1992 02 25.62951 | 10 00 32.34 | +09 25 51.8 | 16.5 | | 364 |
| (689) | | 1992 02 25.64340 | 10 00 31.53 | +09 25 58.7 | | | 364 |
| (1098) | | 1992 02 25.62951 | 10 10 22.34 | +09 52 36.1 | | | 364 |
| (1098) | | 1992 02 25.64340 | 10 10 21.46 | +09 52 36.9 | | | 364 |
| (3842) | | 1992 02 25.60174 | 10 10 09.20 | +13 05 11.5 | 16.5 | | 364 |
| (3842) | | 1992 02 25.61563 | 10 10 08.28 | +13 05 16.8 | | | 364 |
| (3842) | | 1992 02 26.53854 | 10 09 11.59 | +13 07 57.1 | | | 364 |
| (3842) | | 1992 02 26.55243 | 10 09 10.84 | +13 07 59.0 | | | 364 |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1990 UP13 | * | 1990 10 20.54375 | 23 50 49.28 | -02 34 30.8 | | | 367 |
| 1990 UP13 | | 1990 10 20.56458 | 23 50 48.55 | -02 34 36.1 | | | 367 |

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|---|---|---|---|---|---|---|---|---|
| 1992 AC | | 1992 02 05.56597 | 10 01 59.89 | +34 51 35.7 | | | | 367 |
| 1992 AC | | 1992 02 05.57639 | 10 02 01.32 | +34 52 13.5 | | | | 367 |
| 1992 AC | | 1992 02 05.58681 | 10 02 02.90 | +34 52 54.8 | | | | 367 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1973 RF | | 1992 02 27.73681 | 11 51 05.04 | +08 39 53.5 | | 17 | | 372 |
| 1973 RF | | 1992 02 27.74826 | 11 51 04.44 | +08 39 56.1 | | | | 372 |
| 1973 RF | | 1992 03 03.73125 | 11 46 18.46 | +08 51 06.7 | | | | 372 |
| 1973 RF | | 1992 03 03.74271 | 11 46 17.69 | +08 51 08.5 | | | | 372 |
| 1978 PJ2 | | 1992 02 10.71076 | 11 23 20.23 | +00 25 44.1 | | 18 | | 372 |
| 1978 PJ2 | | 1992 02 10.72257 | 11 23 19.77 | +00 25 45.5 | | | | 372 |
| 1978 PJ2 | | 1992 02 12.70208 | 11 22 15.28 | +00 33 54.6 | | 18 | | 372 |
| 1978 PJ2 | | 1992 02 12.71267 | 11 22 14.90 | +00 33 57.4 | | | | 372 |
| 1982 WE | | 1992 01 28.68333 | 10 33 25.23 | +33 56 11.7 | | 17 | | 372 |
| 1982 WE | | 1992 01 28.69375 | 10 33 25.22 | +33 56 21.4 | | | | 372 |
| 1990 UF | | 1992 01 27.56007 | 06 33 06.61 | +16 42 40.7 | | 19.5 | | 372 |
| 1990 VE1 | | 1992 02 05.74340 | 10 34 34.18 | +13 12 36.1 | | 17 | | 372 |
| 1990 VE1 | | 1992 02 05.75521 | 10 34 33.66 | +13 12 42.8 | | | | 372 |
| 1990 VP2 | | 1992 01 12.80868 | 11 14 50.77 | +26 25 53.8 | | 17 | | 372 |
| 1990 VP2 | | 1992 01 12.82153 | 11 14 50.65 | +26 25 59.7 | | | | 372 |
| 1990 VP2 | | 1992 02 04.74201 | 11 05 40.67 | +28 55 45.9 | | 17.5 | | 372 |
| 1990 VP2 | | 1992 02 24.66493 | 10 49 14.25 | +30 39 23.4 | | 17.5 | | 372 |
| 1990 VP2 | | 1992 02 24.67674 | 10 49 13.68 | +30 39 26.9 | | | | 372 |
| 1990 VS6 | | 1992 02 25.61285 | 08 10 26.06 | +24 55 36.0 | | 19.5 | | 372 |
| 1992 AC | | 1992 02 13.72569 | 10 24 16.84 | +42 41 03.2 | | 13 | | 372 |
| 1992 AC | | 1992 02 13.73264 | 10 24 17.93 | +42 41 23.2 | | | | 372 |
| 1992 AC | | 1992 02 22.77465 | 10 49 57.58 | +49 01 55.7 | | 14 | | 372 |
| 1992 AP1 | | 1992 01 23.47066 | 07 04 49.15 | +22 11 10.6 | | 17 | | 372 |
| 1992 AP1 | | 1992 01 23.47952 | 07 04 48.72 | +22 11 10.4 | | | | 372 |
| 1992 BN | | 1992 01 14.76771 | 09 54 49.43 | +16 47 35.4 | | 16.5 | | 372 |
| 1992 BN | | 1992 01 14.78160 | 09 54 48.77 | +16 47 41.6 | | | | 372 |
| 1992 BU | | 1992 02 05.71771 | 09 38 58.69 | +18 33 44.6 | | 17.5 | | 372 |
| 1992 BU | | 1992 02 05.73021 | 09 38 57.92 | +18 33 47.3 | | | | 372 |
| 1992 BR1 | * | 1992 01 27.51250 | 07 58 20.37 | +21 06 38.7 | | 17.5 | | 372 |
| 1992 BR1 | | 1992 02 04.59342 | 07 49 52.01 | +21 46 00.1 | | 18 | | 372 |
| 1992 CG | * | 1992 02 08.75903 | 09 49 38.58 | +17 04 15.3 | | 17.5 | | 372 |
| 1992 CG | | 1992 02 08.76944 | 09 49 37.87 | +17 04 17.0 | | | | 372 |
| 1992 CG | | 1992 02 09.59827 | 09 48 45.75 | +17 06 37.1 | | 17 | | 372 |
| 1992 CG | | 1992 02 09.61111 | 09 48 45.04 | +17 06 37.7 | | | | 372 |
| 1992 CK | * | 1992 02 04.68472 | 09 46 25.64 | +13 38 14.3 | | 17.5 | | 372 |
| 1992 CK | | 1992 02 04.69583 | 09 46 24.78 | +13 38 20.7 | | | | 372 |
| 1992 CK | | 1992 02 13.75857 | 09 37 49.73 | +15 02 32.6 | | 17.5 | | 372 |
| 1992 CK | | 1992 02 13.76875 | 09 37 48.91 | +15 02 38.4 | | | | 372 |
| 1992 CL | * | 1992 02 05.69271 | 09 34 19.35 | +18 24 02.4 | | 18 | | 372 |
| 1992 CL | | 1992 02 05.70451 | 09 34 18.73 | +18 24 07.0 | | | | 372 |
| 1992 CL | | 1992 02 08.66528 | 09 31 54.32 | +18 42 02.1 | | 17.5 | | 372 |
| 1992 CL | | 1992 02 08.67627 | 09 31 53.67 | +18 42 05.9 | | | | 372 |
| 1992 CM | * | 1992 02 05.69271 | 09 34 42.43 | +18 43 26.7 | | 17 | | 372 |
| 1992 CM | | 1992 02 05.70451 | 09 34 41.83 | +18 43 30.8 | | | | 372 |
| 1992 CM | | 1992 02 08.66528 | 09 31 33.91 | +18 57 50.6 | | 17.5 | | 372 |
| 1992 CM | | 1992 02 08.67627 | 09 31 33.07 | +18 57 55.2 | | | | 372 |
| 1992 CN | * | 1992 02 05.69271 | 09 35 10.05 | +18 38 50.8 | | 18.5 | | 372 |
| 1992 CN | | 1992 02 05.70451 | 09 35 09.55 | +18 38 54.0 | | | | 372 |
| 1992 CN | | 1992 02 08.66528 | 09 32 49.26 | +18 56 31.4 | | 18.5 | | 372 |
| 1992 CN | | 1992 02 08.67627 | 09 32 48.59 | +18 56 37.2 | | | | 372 |
| 1992 CP | * | 1992 02 08.70958 | 10 16 08.11 | +15 49 32.0 | | 18 | | 372 |
| 1992 CP | | 1992 02 08.72015 | 10 16 07.52 | +15 49 39.5 | | | | 372 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 1992 CP | | 1992 | 02 | 13.82101 | 10 | 13 | 19.89 | +16 | 38 | 05.9 | 18 | | 372 |
| 1992 CP | | 1992 | 02 | 13.83299 | 10 | 13 | 19.33 | +16 | 38 | 12.8 | | | 372 |
| 1992 CQ | * | 1992 | 02 | 08.70958 | 10 | 17 | 22.36 | +15 | 46 | 03.6 | 17 | | 372 |
| 1992 CQ | | 1992 | 02 | 08.72015 | 10 | 17 | 21.87 | +15 | 46 | 11.7 | | | 372 |
| 1992 CQ | | 1992 | 02 | 13.82101 | 10 | 13 | 54.86 | +16 | 35 | 28.8 | 17 | | 372 |
| 1992 CQ | | 1992 | 02 | 13.83299 | 10 | 13 | 54.12 | +16 | 35 | 35.7 | | | 372 |
| 1992 CR | * | 1992 | 02 | 04.65972 | 09 | 01 | 36.59 | +21 | 03 | 20.7 | 18.5 | | 372 |
| 1992 CR | | 1992 | 02 | 04.67015 | 09 | 01 | 35.95 | +21 | 03 | 26.4 | | | 372 |
| 1992 CR | | 1992 | 02 | 10.54096 | 08 | 55 | 48.27 | +21 | 56 | 29.2 | 18 | | 372 |
| 1992 CR | | 1992 | 02 | 10.55139 | 08 | 55 | 47.60 | +21 | 56 | 29.1 | | | 372 |
| 1992 CS | | 1992 | 02 | 05.76997 | 10 | 23 | 07.60 | +14 | 51 | 54.9 | 17.5 | | 372 |
| 1992 CS | | 1992 | 02 | 05.78264 | 10 | 23 | 06.99 | +14 | 52 | 01.8 | | | 372 |
| 1992 CS | * | 1992 | 02 | 08.80208 | 10 | 21 | 11.09 | +15 | 20 | 03.7 | 18 | | 372 |
| 1992 CS | | 1992 | 02 | 08.81284 | 10 | 21 | 10.72 | +15 | 20 | 12.4 | | | 372 |
| 1992 CS | | 1992 | 02 | 13.80069 | 10 | 17 | 49.43 | +16 | 06 | 42.2 | 17.5 | | 372 |
| 1992 CS | | 1992 | 02 | 13.81110 | 10 | 17 | 48.89 | +16 | 06 | 50.9 | | | 372 |
| 1992 CS | | 1992 | 02 | 25.62813 | 10 | 09 | 28.56 | +17 | 54 | 05.9 | 18 | | 372 |
| 1992 CS | | 1992 | 02 | 25.63992 | 10 | 09 | 28.00 | +17 | 54 | 09.6 | | | 372 |
| 1992 CS | | 1992 | 02 | 26.57396 | 10 | 08 | 48.65 | +18 | 02 | 15.9 | 17.5 | | 372 |
| 1992 CS | | 1992 | 02 | 27.66702 | 10 | 08 | 02.64 | +18 | 11 | 36.3 | 18 | | 372 |
| 1992 CS | | 1992 | 02 | 27.67847 | 10 | 08 | 02.08 | +18 | 11 | 43.7 | | | 372 |
| 1992 CT | | 1992 | 02 | 05.76997 | 10 | 25 | 12.85 | +14 | 41 | 59.8 | 17.5 | | 372 |
| 1992 CT | | 1992 | 02 | 05.78264 | 10 | 25 | 12.34 | +14 | 42 | 03.3 | | | 372 |
| 1992 CT | * | 1992 | 02 | 08.80208 | 10 | 22 | 51.34 | +14 | 57 | 30.4 | 18 | | 372 |
| 1992 CT | | 1992 | 02 | 08.81284 | 10 | 22 | 50.77 | +14 | 57 | 34.5 | | | 372 |
| 1992 CT | | 1992 | 02 | 13.80069 | 10 | 18 | 45.29 | +15 | 23 | 11.0 | 18 | | 372 |
| 1992 CT | | 1992 | 02 | 13.81110 | 10 | 18 | 44.76 | +15 | 23 | 15.5 | | | 372 |
| 1992 CT | | 1992 | 02 | 24.64028 | 10 | 09 | 29.29 | +16 | 15 | 51.8 | 18 | | 372 |
| 1992 CT | | 1992 | 02 | 24.65242 | 10 | 09 | 28.67 | +16 | 15 | 54.2 | | | 372 |
| 1992 CT | | 1992 | 02 | 25.65140 | 10 | 08 | 37.71 | +16 | 20 | 22.6 | 18 | | 372 |
| 1992 CT | | 1992 | 02 | 25.66250 | 10 | 08 | 37.14 | +16 | 20 | 27.1 | | | 372 |
| 1992 CC1 | | 1992 | 02 | 27.71494 | 11 | 25 | 09.00 | +19 | 05 | 54.0 | 16 | s | 372 |
| 1992 CC1 | | 1992 | 02 | 27.72552 | 11 | 25 | 06.90 | +19 | 05 | 48.4 | | s | 372 |
| 1992 CF1 | * | 1992 | 02 | 13.80069 | 10 | 21 | 30.61 | +15 | 13 | 55.1 | 18 | | 372 |
| 1992 CF1 | | 1992 | 02 | 13.81110 | 10 | 21 | 30.33 | +15 | 13 | 56.1 | | | 372 |
| 1992 CF1 | | 1992 | 02 | 24.64028 | 10 | 10 | 22.13 | +15 | 52 | 48.2 | 18 | | 372 |
| 1992 CF1 | | 1992 | 02 | 24.65242 | 10 | 10 | 21.59 | +15 | 52 | 50.9 | | | 372 |
| 1992 CF1 | | 1992 | 02 | 25.65140 | 10 | 09 | 19.15 | +15 | 56 | 01.6 | 18 | | 372 |
| 1992 CF1 | | 1992 | 02 | 25.66250 | 10 | 09 | 18.46 | +15 | 56 | 05.8 | | | 372 |
| 1992 CF1 | | 1992 | 02 | 26.59688 | 10 | 08 | 20.43 | +15 | 59 | 00.5 | 18 | | 372 |
| 1992 CF1 | | 1992 | 02 | 26.60800 | 10 | 08 | 19.45 | +15 | 59 | 03.1 | | | 372 |
| 1992 CF1 | | 1992 | 02 | 27.64479 | 10 | 07 | 15.44 | +16 | 02 | 09.1 | 17 | | 372 |
| 1992 CF1 | | 1992 | 02 | 27.65592 | 10 | 07 | 14.75 | +16 | 02 | 10.8 | | | 372 |
| 1992 DA | * | 1992 | 02 | 24.61458 | 10 | 10 | 18.80 | +17 | 43 | 19.5 | 16 | | 372 |
| 1992 DA | | 1992 | 02 | 24.62742 | 10 | 10 | 18.10 | +17 | 43 | 21.4 | | | 372 |
| 1992 DA | | 1992 | 02 | 25.62813 | 10 | 09 | 16.66 | +17 | 47 | 01.0 | 16 | | 372 |
| 1992 DA | | 1992 | 02 | 25.63992 | 10 | 09 | 15.83 | +17 | 47 | 03.1 | | | 372 |
| 1992 DA | | 1992 | 02 | 26.57396 | 10 | 08 | 19.10 | +17 | 50 | 19.1 | 16 | | 372 |
| 1992 DA | | 1992 | 02 | 26.58508 | 10 | 08 | 18.30 | +17 | 50 | 21.7 | | | 372 |
| 1992 DA | | 1992 | 02 | 27.66702 | 10 | 07 | 12.37 | +17 | 54 | 00.6 | 16.5 | | 372 |
| 1992 DA | | 1992 | 02 | 27.67847 | 10 | 07 | 11.80 | +17 | 54 | 02.5 | | | 372 |
| 1992 DA | | 1992 | 03 | 05.67465 | 10 | 00 | 28.81 | +18 | 12 | 22.1 | 17 | | 372 |
| 1992 DA | | 1992 | 03 | 05.73507 | 10 | 00 | 25.36 | +18 | 12 | 28.5 | | | 372 |
| 1992 DN | * | 1992 | 02 | 25.72119 | 10 | 54 | 29.45 | +15 | 45 | 20.8 | 18 | | 372 |
| 1992 DN | | 1992 | 02 | 26.55175 | 10 | 53 | 45.75 | +15 | 47 | 20.8 | 18 | | 372 |
| 1992 DN | | 1992 | 02 | 27.69097 | 10 | 52 | 45.17 | +15 | 50 | 02.1 | 18 | | 372 |
| 1992 DO | * | 1992 | 02 | 25.72119 | 10 | 55 | 05.31 | +16 | 03 | 48.7 | 18 | | 372 |
| 1992 DO | | 1992 | 02 | 26.55175 | 10 | 54 | 20.76 | +16 | 04 | 51.1 | 18 | | 372 |
| 1992 DO | | 1992 | 02 | 27.69097 | 10 | 53 | 18.24 | +16 | 06 | 20.6 | 18 | | 372 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1992 DP | * | 1992 02 26.59688 | 10 08 31.93 | +15 40 22.5 | 17.5 | 372 |
| 1992 DP | | 1992 02 26.60800 | 10 08 31.21 | +15 40 27.7 | | 372 |
| 1992 DP | | 1992 02 27.64479 | 10 07 28.72 | +15 44 51.0 | 17.5 | 372 |
| 1992 DP | | 1992 02 27.65592 | 10 07 28.16 | +15 44 53.6 | | 372 |
| 1992 DA1 | * | 1992 02 27.71494 | 11 25 32.91 | +18 43 30.6 | 17.5 | 372 |
| 1992 DA1 | | 1992 02 27.72552 | 11 25 32.40 | +18 43 35.6 | | 372 |
| 1992 DA1 | | 1992 03 03.75487 | 11 21 29.16 | +19 16 17.7 | 18 | 372 |
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| 1992 DB1 | * | 1992 02 27.73681 | 11 53 06.19 | +08 15 51.8 | 18 | 372 |
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| 1992 EG | | 1992 03 05.74635 | 13 04 52.20 | +06 10 22.1 | 18 | 372 |
| 1992 EG | | 1992 03 05.75799 | 13 04 51.54 | +06 10 27.3 | | 372 |
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| (545) | | 1992 01 15.84549 | 10 06 27.50 | +15 41 51.3 | | 372 |
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| (1800) | | 1992 02 26.59688 | 10 08 06.78 | +15 58 45.0 | 17.5 | 372 |
| (1800) | | 1992 02 26.60800 | 10 08 06.20 | +15 58 50.0 | | 372 |
| (1800) | | 1992 02 27.64479 | 10 07 07.42 | +16 05 42.4 | 18 | 372 |
| (1800) | | 1992 02 27.65592 | 10 07 06.82 | +16 05 47.1 | | 372 |
| (2065) | | 1992 01 09.73542 | 09 40 02.86 | +17 19 40.8 | 17 | 372 |
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| (3066) | | 1992 02 12.67986 | 11 03 12.49 | -01 17 02.9 | 17 | 372 |
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| (3326) | | 1992 02 08.64337 | 09 25 11.51 | +19 15 48.9 | 17.5 | 372 |
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376 Uenohara
N. Kawasato, 3-51, Hana-Koganei, Kodaira, Tokyo 187, Japan
0.30-m reflector + CCD
GSC

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|---|---|---|---|---|---|---|
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| 1988 ED | | 1992 02 10.60856 | 08 18 33.76 | +30 45 42.0 | | 376 |
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| 1991 YD | | 1992 02 22.47656 | 07 02 31.85 | +29 03 45.8 | | 376 |
| 1992 AH1 | | 1992 02 04.54826 | 07 58 44.45 | +31 03 59.8 | | 376 |
| 1992 AH1 | | 1992 02 04.55625 | 07 58 44.08 | +31 03 58.4 | | 376 |
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| 1992 CH | * | 1992 02 10.76910 | 10 57 42.47 | -02 47 48.9 | 17 | 376 |
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| 1992 CH | | 1992 02 13.71840 | 10 55 07.12 | -02 54 53.1 | | 376 |
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| 1992 CJ | | 1992 02 10.79219 | 11 06 23.63 | -01 52 17.2 | | 376 |
| 1992 CJ | | 1992 02 13.75035 | 11 04 25.52 | -01 39 27.9 | | 376 |
| 1992 CJ | | 1992 02 13.76910 | 11 04 24.57 | -01 39 21.8 | | 376 |
| 1992 CJ | | 1992 02 27.55660 | 10 52 57.48 | -00 13 28.2 | | 376 |
| 1992 CJ | | 1992 02 27.57882 | 10 52 56.04 | -00 13 15.7 | | 376 |
| 1992 CB1 | * | 1992 02 13.81597 | 11 04 37.25 | +21 29 59.9 | 17.5 | 376 |
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| 1992 CB1 | | 1992 02 25.63785 | 10 54 45.08 | +22 20 31.6 | | 376 |
| 1992 CB1 | | 1992 02 25.65590 | 10 54 43.96 | +22 20 36.5 | | 376 |
| 1992 CB1 | | 1992 02 27.59201 | 10 53 00.68 | +22 27 23.3 | | 376 |

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| 1992 CB1 | | 1992 02 27.61215 | 10 52 59.69 | +22 27 26.3 | | | | | 376 |
| 1992 DD | * | 1992 02 25.63785 | 10 56 56.5 | +21 56 39 | | 17 | | | 376 |
| 1992 DD | | 1992 02 25.65590 | 10 56 55.5 | +21 56 41 | | | | | 376 |
| 1992 DD | | 1992 02 27.59201 | 10 55 20.28 | +22 03 27.5 | | | | | 376 |
| 1992 DD | | 1992 02 27.61215 | 10 55 19.24 | +22 03 31.0 | | | | | 376 |
| 1992 DE | * | 1992 02 25.63785 | 10 58 40.55 | +22 42 55.3 | | 17 | | | 376 |
| 1992 DE | | 1992 02 25.65590 | 10 58 39.12 | +22 42 59.8 | | | | | 376 |
| 1992 DE | | 1992 02 27.59201 | 10 56 28.31 | +22 45 05.9 | | | | | 376 |
| 1992 DE | | 1992 02 27.61215 | 10 56 26.92 | +22 45 08.2 | | | | | 376 |
| 1992 DK | | 1992 02 27.79826 | 12 15 52.99 | +17 05 35.9 | | 16.5 | | | 376 |
| 1992 DK | | 1992 02 27.82188 | 12 15 51.95 | +17 05 42.2 | | | | | 376 |
| 1992 DY | * | 1992 02 27.69167 | 11 12 38.38 | +14 12 38.6 | | 17 | | | 376 |
| 1992 DY | | 1992 02 27.71076 | 11 12 37.39 | +14 12 48.5 | | | | | 376 |
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| (991) | | 1992 02 10.82951 | 11 44 50.8 | +04 35 51 | | | | W | 376 |

385 Nihondaira Observatory Oohira station
T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan
0.25-m f/3.4 hyperboloid astrocamera
GSC

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|---|---|---|---|---|---|---|---|---|---|
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| 1992 AL | | 1992 02 02.54444 | 09 12 23.37 | +12 28 06.0 | | | | | 385 |
| 1992 AB1 | | 1992 02 09.56806 | 07 37 29.05 | +13 16 10.6 | | 17 | | | 385 |
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| 1992 BG | | 1992 02 09.56806 | 07 35 06.31 | +15 03 03.9 | | 16.8 | | | 385 |
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| 1992 BG | | 1992 02 21.45417 | 07 28 10.41 | +16 36 34.2 | | 17 | | | 385 |
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| 1992 BH | | 1992 02 21.50000 | 07 37 44.32 | +14 58 02.3 | | | | | 385 |

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

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|---|---|---|---|---|---|---|---|---|---|
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| 1985 CJ1 | | 1991 11 11.61910 | 03 59 16.25 | +20 08 22.6 | | | | | 399 |
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| 1985 CS1 | | 1992 03 02.60313 | 11 35 05.82 | +01 50 11.8 | | | | | 399 |
| 1985 CS1 | | 1992 03 03.57500 | 11 34 17.64 | +01 58 33.7 | | 16 | | | 399 |
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| 1988 CO | 1990 10 27.66383 | 02 07 12.62 | +14 06 08.5 | | 399 |
| 1988 CO | 1992 02 05.59242 | 10 53 52.73 | +12 53 59.3 | 17.5 | 399 |
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| 1988 CO | 1992 02 25.55069 | 10 36 10.39 | +14 27 55.9 | 16.5 | 399 |
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| 1988 CO | 1992 02 26.56944 | 10 35 10.04 | +14 32 26.4 | | 399 |
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| 1989 EL2 | 1992 02 05.48333 | 09 04 20.15 | +24 34 47.6 | 17 | 399 |
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| 1989 EL2 | 1992 02 08.59410 | 09 00 37.17 | +24 46 29.7 | 17 | 399 |
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| 1990 UE | 1992 02 05.55417 | 09 39 00.87 | +19 51 11.9 | 17 | 399 |
| 1990 UE | 1992 02 05.56947 | 09 38 59.83 | +19 51 16.2 | | 399 |
| 1990 UE | 1992 02 08.63264 | 09 35 36.79 | +20 07 23.2 | 16.5 | 399 |
| 1990 UE | 1992 02 08.64757 | 09 35 35.78 | +20 07 28.3 | | 399 |
| 1990 UE | 1992 02 21.45833 | 09 21 25.76 | +21 04 49.2 | 17 | 399 |
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| 1990 VO3 | 1992 03 02.51736 | 10 29 37.47 | -03 47 08.7 | 17 | 399 |
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| 1990 XH | 1992 02 21.42361 | 09 11 58.79 | +09 41 36.6 | 17 | 399 |
| 1990 XH | 1992 02 21.43854 | 09 11 58.14 | +09 41 41.0 | | 399 |
| 1990 XH | 1992 02 22.42569 | 09 11 18.61 | +09 47 45.2 | 17 | 399 |
| 1990 XH | 1992 02 22.44062 | 09 11 17.98 | +09 47 53.0 | | 399 |
| 1991 YH | 1987 11 22.57546 | 02 03 48.23 | +15 53 33.4 | 16 | 399 |
| 1991 YH | 1987 11 22.59144 | 02 03 47.47 | +15 53 32.1 | | 399 |
| 1991 YH | 1987 11 28.63970 | 01 59 27.66 | +15 48 50.2 | 16 | 399 |
| 1991 YH | 1987 11 28.65486 | 01 59 27.14 | +15 48 48.0 | | 399 |
| 1992 AC | 1992 01 29.62124 | 09 44 28.81 | +27 20 23.1 | 12 | 399 |
| 1992 AC | 1992 01 29.62818 | 09 44 29.80 | +27 20 50.8 | | 399 |
| 1992 AC | 1992 01 29.63513 | 09 44 30.59 | +27 21 19.3 | | 399 |
| 1992 AD | 1992 02 08.55833 | 08 02 22.96 | +21 07 52.5 | 17 | 399 |
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| 1992 AF1 | 1992 01 28.53056 | 09 18 24.66 | +24 31 56.7 | 16.5 | 399 |
| 1992 AF1 | 1992 01 28.54549 | 09 18 23.63 | +24 32 01.9 | | 399 |

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| 1992 | AF1 | | 1992 | 01 | 29.53229 | 09 | 17 | 18.57 | +24 36 20.7 | | 399 |
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| 1992 | AR1 | | 1992 | 02 | 08.57332 | 07 | 53 | 12.28 | +17 38 17.5 | | 399 |
| 1992 | BM | | 1992 | 02 | 05.48333 | 09 | 08 | 31.77 | +22 57 36.8 | 17 | 399 |
| 1992 | BM | | 1992 | 02 | 05.49826 | 09 | 08 | 30.56 | +22 57 38.3 | | 399 |
| 1992 | BM | | 1992 | 02 | 08.59410 | 09 | 04 | 50.54 | +23 00 55.7 | 17 | 399 |
| 1992 | BM | | 1992 | 02 | 08.60938 | 09 | 04 | 49.48 | +23 00 57.0 | | 399 |
| 1992 | BN | | 1992 | 02 | 05.55417 | 09 | 40 | 05.02 | +19 14 38.9 | 17 | 399 |
| 1992 | BN | | 1992 | 02 | 05.56947 | 09 | 40 | 04.17 | +19 14 46.6 | | 399 |
| 1992 | BN | | 1992 | 02 | 08.63264 | 09 | 37 | 37.40 | +19 35 33.0 | 17 | 399 |
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| 1992 | BN | | 1992 | 02 | 21.45833 | 09 | 27 | 27.61 | +20 55 35.4 | 17 | 399 |
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| 1992 | BQ | | 1992 | 02 | 25.56562 | 10 | 36 | 09.33 | +11 22 57.1 | | 399 |
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| 1992 | BU | | 1992 | 02 | 08.63264 | 09 | 35 | 58.16 | +18 36 35.6 | 17.5 | 399 |
| 1992 | BU | | 1992 | 02 | 08.64757 | 09 | 35 | 57.05 | +18 36 36.2 | | 399 |
| 1992 | BX | | 1992 | 02 | 08.67431 | 09 | 10 | 13.51 | +05 03 26.0 | 16.5 | 399 |
| 1992 | BX | | 1992 | 02 | 08.68929 | 09 | 10 | 12.46 | +05 03 25.4 | | 399 |
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| 1992 | BZ | | 1992 | 02 | 08.64757 | 09 | 43 | 29.73 | +19 08 46.7 | | 399 |
| 1992 | BZ | | 1992 | 02 | 21.45833 | 09 | 31 | 11.89 | +20 12 54.6 | 17 | 399 |
| 1992 | BZ | | 1992 | 02 | 21.47326 | 09 | 31 | 10.98 | +20 13 00.7 | | 399 |
| 1992 | BZ | | 1992 | 02 | 22.46042 | 09 | 30 | 17.87 | +20 17 00.9 | 17 | 399 |
| 1992 | BZ | | 1992 | 02 | 22.48333 | 09 | 30 | 16.70 | +20 17 05.1 | | 399 |
| 1992 | BJ1 | * | 1992 | 01 | 28.53056 | 09 | 10 | 50.59 | +22 13 20.5 | 17 | 399 |
| 1992 | BJ1 | | 1992 | 01 | 28.54549 | 09 | 10 | 49.64 | +22 13 25.6 | | 399 |
| 1992 | BJ1 | | 1992 | 01 | 29.51736 | 09 | 09 | 54.50 | +22 18 55.8 | 17.5 | 399 |
| 1992 | BJ1 | | 1992 | 01 | 29.53229 | 09 | 09 | 53.46 | +22 19 00.1 | | 399 |
| 1992 | BJ1 | | 1992 | 02 | 05.48333 | 09 | 03 | 15.08 | +22 55 34.8 | 17 | 399 |
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| 1992 | BJ1 | | 1992 | 02 | 08.59410 | 09 | 00 | 19.82 | +23 09 54.1 | 17 | 399 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 1992 | BJ1 | | 1992 | 02 | 08.60938 | 09 | 00 | 18.91 | +23 10 02.0 | 399 |
| 1992 | CE | | 1992 | 02 | 25.51667 | 10 | 11 | 22.02 | +06 54 30.3 | 16.5 399 |
| 1992 | CE | | 1992 | 02 | 25.53160 | 10 | 11 | 21.42 | +06 54 31.4 | 399 |
| 1992 | CE | | 1992 | 02 | 26.49965 | 10 | 10 | 45.23 | +06 58 39.2 | 16.5 399 |
| 1992 | CG1 | * | 1992 | 02 | 08.71771 | 10 | 44 | 39.59 | +11 20 21.9 | 17 399 |
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| 1992 | DB | | 1992 | 02 | 26.51806 | 11 | 20 | 19.51 | +09 22 06.3 | 16 399 |
| 1992 | DB | | 1992 | 02 | 26.53299 | 11 | 20 | 18.70 | +09 22 13.4 | 399 |
| 1992 | DF | * | 1992 | 02 | 25.55069 | 10 | 34 | 15.86 | +13 18 29.5 | 17 399 |
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| 1992 | DG | | 1992 | 02 | 26.56944 | 10 | 34 | 39.95 | +14 52 54.2 | 399 |
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| 1992 | DH | | 1992 | 02 | 25.59931 | 11 | 20 | 30.02 | +09 03 46.6 | 399 |
| 1992 | DH | | 1992 | 02 | 26.51806 | 11 | 19 | 45.32 | +09 11 51.1 | 16.5 399 |
| 1992 | DH | | 1992 | 02 | 26.53299 | 11 | 19 | 44.64 | +09 11 58.3 | 399 |
| 1992 | DQ | * | 1992 | 02 | 25.51667 | 10 | 16 | 24.55 | +05 34 50.2 | 17 399 |
| 1992 | DQ | | 1992 | 02 | 25.53160 | 10 | 16 | 23.67 | +05 34 54.7 | 399 |
| 1992 | DQ | | 1992 | 02 | 26.49965 | 10 | 15 | 25.42 | +05 40 03.8 | 17 399 |
| 1992 | DR | * | 1992 | 02 | 25.51667 | 10 | 16 | 43.32 | +08 07 51.2 | 17 399 |
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| 1992 | DT | | 1992 | 02 | 26.53299 | 11 | 22 | 14.33 | +09 06 11.9 | 399 |
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| 1992 | DW | | 1992 | 02 | 29.71285 | 11 | 51 | 26.39 | +12 02 13.4 | 16.5 399 |
| 1992 | DW | | 1992 | 02 | 29.72622 | 11 | 51 | 25.59 | +12 02 18.3 | 399 |
| 1992 | DC1 | * | 1992 | 02 | 26.62569 | 11 | 43 | 33.10 | +12 13 07.5 | 17 399 |
| 1992 | DC1 | | 1992 | 02 | 26.64067 | 11 | 43 | 32.39 | +12 13 14.8 | 399 |
| 1992 | DC1 | | 1992 | 03 | 02.62523 | 11 | 39 | 37.14 | +13 00 56.9 | 17 399 |
| 1992 | DC1 | | 1992 | 03 | 02.63999 | 11 | 39 | 36.48 | +13 01 01.9 | 399 |
| 1992 | EA | * | 1992 | 03 | 02.55579 | 11 | 13 | 43.61 | +04 42 44.9 | 17 399 |
| 1992 | EA | | 1992 | 03 | 02.57049 | 11 | 13 | 42.76 | +04 42 50.1 | 399 |
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| 1992 | EB | | 1992 | 03 | 03.53681 | 11 | 15 | 33.78 | +04 07 43.7 | 17 399 |

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| 1992 EB | | 1992 03 03.55174 | 11 15 32.89 | +04 07 48.1 | | | 399 |
| 1992 EC | * | 1992 03 02.58843 | 11 28 57.01 | +03 52 15.5 | 17 | | 399 |
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| 1992 EC | | 1992 03 03.57500 | 11 27 57.19 | +03 54 51.0 | 17 | | 399 |
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| 1992 ED | | 1992 03 03.57500 | 11 28 08.59 | +03 31 50.3 | 16.5 | | 399 |
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| 1992 EF | * | 1992 03 02.51736 | 10 31 58.91 | -04 49 18.6 | 17 | | 399 |
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| 1992 EF | | 1992 03 03.50139 | 10 31 11.36 | -04 45 31.7 | 17 | | 399 |
| 1992 EF | | 1992 03 03.51632 | 10 31 10.63 | -04 45 28.5 | | | 399 |
| 2536 P-L | | 1991 09 30.45816 | 23 57 43.30 | -05 41 41.0 | 16 | | 399 |
| 2536 P-L | | 1991 09 30.47326 | 23 57 42.44 | -05 41 41.5 | | | 399 |
| 7068 P-L | | 1991 11 09.60307 | 04 06 17.44 | +14 19 59.1 | 16.5 | | 399 |
| 7068 P-L | | 1991 11 09.62049 | 04 06 16.71 | +14 19 52.2 | | | 399 |
| 7068 P-L | | 1991 11 11.56806 | 04 04 37.69 | +14 04 51.6 | 16.5 | | 399 |
| 7068 P-L | | 1991 11 11.58333 | 04 04 36.84 | +14 04 44.3 | | | 399 |

400 Kitami
K. Watanabe, 3-8 Mason Hashimoto B-203, atsubetsu cyuo 3 jo 4 chome, Atsubetsu-ku, Sapporo 004, Japan
Observer K. Endate
Measurer K. Watanabe
0.25-m f/3.0 reflector, 0.25-m f/2.5 Schmidt
GSC

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1985 CJ1 | | 1991 11 09.52951 | 04 01 18.89 | +20 09 36.2 | 16.0 | | 400 |
| 1985 CJ1 | | 1991 11 09.54688 | 04 01 17.68 | +20 09 38.0 | | | 400 |
| 1985 CJ1 | | 1991 11 10.49965 | 04 00 22.69 | +20 09 04.4 | | | 400 |
| 1985 CJ1 | | 1991 11 10.51563 | 04 00 21.76 | +20 09 04.4 | | | 400 |
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| 1992 BP | | 1992 02 09.57396 | 10 42 26.63 | +11 09 29.9 | | | 400 |
| 1992 BE1 | | 1992 02 02.52535 | 10 12 01.54 | +18 18 57.3 | 16.5 | | 400 |
| 1992 BE1 | | 1992 02 02.54549 | 10 12 00.24 | +18 19 07.6 | | | 400 |
| 1992 CE | * | 1992 02 05.57604 | 10 23 28.08 | +05 37 19.4 | 16.5 | | 400 |
| 1992 CE | | 1992 02 05.59687 | 10 23 27.46 | +05 37 22.7 | | | 400 |
| 1992 CE | | 1992 02 09.51215 | 10 21 13.84 | +05 50 55.3 | 16.5 | | 400 |
| 1992 CE | | 1992 02 09.53229 | 10 21 13.23 | +05 50 59.9 | | | 400 |
| 1992 CD1 | * | 1992 02 09.59201 | 10 44 49.79 | +04 26 29.0 | 16.0 | | 400 |
| 1992 CD1 | | 1992 02 09.61285 | 10 44 48.88 | +04 26 36.8 | | | 400 |
| 1992 CD1 | | 1992 02 24.57535 | 10 32 30.97 | +06 01 18.0 | 16.0 | | 400 |
| 1992 CD1 | | 1992 02 24.59410 | 10 32 29.93 | +06 01 25.3 | | | 400 |
| 1992 CE1 | * | 1992 02 09.59201 | 10 45 34.42 | -00 28 43.9 | 16.0 | | 400 |
| 1992 CE1 | | 1992 02 09.61285 | 10 45 33.66 | -00 28 33.1 | | | 400 |
| 1992 CE1 | | 1992 02 24.53993 | 10 36 14.92 | +01 43 51.1 | 16.5 | | 400 |
| 1992 CE1 | | 1992 02 24.55938 | 10 36 14.13 | +01 44 00.5 | | | 400 |
| (765) | | 1992 02 05.57604 | 10 33 17.52 | +08 46 35.2 | 16.0 | | 400 |
| (765) | | 1992 02 05.59687 | 10 33 16.39 | +08 46 39.7 | | | 400 |

402 Dynic Astronomical Observatory
A. Sugie, Dynic Astronomical Observatory, Taga 270, Taga-Cho, Inukami-Gun, Shiga-Ken, 522-03, Japan
0.25-m f/3.4 Schmidt
PPM

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1990 OO3 | | 1992 01 10.73056 | 08 40 31.57 | +12 58 50.4 | 17.5 | 402 |
| 1990 OO3 | | 1992 01 10.74531 | 08 40 30.76 | +12 58 55.8 | | 402 |
| 1990 OO3 | | 1992 01 11.62778 | 08 39 46.35 | +13 03 52.8 | | 402 |
| 1990 OO3 | | 1992 01 11.64167 | 08 39 45.61 | +13 03 57.0 | | 402 |
| 1992 AD | | 1992 02 05.56956 | 08 03 14.51 | +21 01 20.0 | 17.5 | 402 |
| 1992 AD | | 1992 02 05.59876 | 08 03 13.83 | +21 01 25.0 | | 402 |
| 1992 AC1 | | 1992 02 05.54167 | 07 55 48.79 | +08 29 52.5 | 17.0 | 402 |
| 1992 AC1 | | 1992 02 05.55697 | 07 55 47.98 | +08 29 54.4 | | 402 |
| 1992 AC1 | | 1992 02 09.55069 | 07 52 38.67 | +08 26 50.5 | | 402 |
| 1992 AC1 | | 1992 02 09.56458 | 07 52 38.12 | +08 26 49.6 | | 402 |
| 1992 AD1 | | 1992 02 05.54167 | 07 57 12.47 | +08 32 00.7 | 16.5 | 402 |
| 1992 AD1 | | 1992 02 05.55697 | 07 57 11.58 | +08 32 01.0 | | 402 |
| 1992 AD1 | | 1992 02 09.55069 | 07 53 36.23 | +08 30 52.0 | | 402 |
| 1992 AD1 | | 1992 02 09.56458 | 07 53 35.53 | +08 30 52.3 | | 402 |
| 1992 BK1 | * | 1992 01 26.64028 | 10 15 20.84 | +05 52 13.6 | 16.0 | 402 |
| 1992 BK1 | | 1992 01 26.65278 | 10 15 20.26 | +05 52 12.6 | | 402 |
| 1992 BK1 | | 1992 02 05.63889 | 10 06 16.31 | +05 26 03.4 | 15.5 | 402 |
| 1992 BK1 | | 1992 02 05.65278 | 10 06 15.47 | +05 26 01.9 | | 402 |
| 1992 BK1 | | 1992 02 26.60069 | 09 44 11.00 | +05 05 42.8 | 15.5 | 402 |
| 1992 BK1 | | 1992 02 26.61875 | 09 44 09.81 | +05 05 42.2 | | 402 |
| 1992 BK1 | | 1992 02 27.51111 | 09 43 17.03 | +05 05 33.0 | | 402 |
| 1992 BK1 | | 1992 02 27.52569 | 09 43 16.15 | +05 05 32.8 | | 402 |
| 1992 DJ | * | 1992 02 26.60069 | 09 49 33.75 | +05 29 14.6 | 17.0 | 402 |
| 1992 DJ | | 1992 02 26.61875 | 09 49 32.86 | +05 29 26.7 | | 402 |
| 1992 DJ | | 1992 02 27.51111 | 09 48 54.27 | +05 40 15.7 | | 402 |
| 1992 DJ | | 1992 02 27.52569 | 09 48 53.60 | +05 40 23.1 | | 402 |
| 1992 DK | * | 1992 02 26.69028 | 12 16 39.71 | +17 00 44.8 | 17.0 | 402 |
| 1992 DK | | 1992 02 26.70764 | 12 16 39.07 | +17 00 49.5 | | 402 |
| 1992 DK | | 1992 02 27.65492 | 12 15 59.18 | +17 04 58.7 | | 402 |
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| 1992 DL | * | 1992 02 26.69028 | 12 18 58.70 | +14 10 33.9 | 17.5 | 402 |
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| 1992 DM | * | 1992 02 26.69028 | 12 20 16.56 | +13 19 52.5 | 17.5 | 402 |
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| 1992 DM | | 1992 02 27.65492 | 12 19 39.02 | +13 27 03.7 | | 402 |
| 1992 DM | | 1992 02 27.67361 | 12 19 38.17 | +13 27 11.5 | | 402 |

403 Kani
T. Furuta, Mitsuike 17-2, Kakiya-Cho, Tokai, Aichi-Ken 477, Japan
Observers Y. Mizuno, T. Furuta
Measurer T. Furuta
0.25-m f/4.2 Wright-Schmidt camera
GSC

| | | | | | | |
|---|---|---|---|---|---|---|
| 1992 DB | | 1992 02 26.57130 | 11 20 16.70 | +09 22 35.8 | 16.0 | 403 |
| 1992 DB | | 1992 02 26.58206 | 11 20 16.27 | +09 22 41.7 | | 403 |
| 1992 DB | | 1992 02 27.59236 | 11 19 25.12 | +09 31 06.0 | | 403 |
| 1992 DB | | 1992 02 27.60313 | 11 19 24.44 | +09 31 12.6 | | 403 |

411 Oizumi
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Gunma-ken, 370-05 Japan
0.16-m f/4.8 reflector
AGK3, SAOC

| | | | | | | |
|---|---|---|---|---|---|---|
| 1992 AC | | 1992 02 22.58599 | 10 49 28.53 | +48 55 42.1 | 13.5 | 411 |
| 1992 AC | | 1992 02 22.58695 | 10 49 28.66 | +48 55 44.4 | | 411 |
| 1992 AC | | 1992 02 22.58786 | 10 49 28.80 | +48 55 46.2 | | 411 |

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| 1992 AC | | 1992 02 22.58954 | 10 49 29.05 | +48 55 49.7 | | | 411 |
| 1992 AC | | 1992 02 22.59047 | 10 49 29.19 | +48 55 51.5 | | | 411 |
| 1992 AC | | 1992 02 22.59316 | 10 49 29.60 | +48 55 56.9 | | | 411 |
| 1992 AC | | 1992 02 22.59482 | 10 49 29.86 | +48 56 00.3 | | | 411 |
| (2060) | | 1992 02 22.51384 | 08 21 04.30 | +11 45 24.2 | | 16 | 411 |
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| (2060) | | 1992 02 22.52383 | 08 21 04.25 | +11 45 24.2 | | | 411 |
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| (2060) | | 1992 02 22.53654 | 08 21 04.04 | +11 45 25.5 | | | 411 |

413 Siding Spring
R. H. McNaught, Siding Spring Observatory, Coonabarabran, N.S.W. 2357, Australia
A. N. Zytkow, Institute of Astronomy, The Observatories, Madingley Road, Cambridge CB3 0HA, England
Observers J. A. Dawe, R. H. McNaught, S. D. Ryder, D. I. Steel, K. P. Tritton
Measurers R. H. McNaught, A. N. Zytkow, M. J. Irwin
1.2-m U.K. Schmidt, Uppsala Southern Schmidt, 1.0-m reflector + CCD

| | | | | | | | |
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| 1982 BJ | | 1992 01 15.48344 | 02 21 21.82 | -11 57 04.9 | | | 413 |
| 1982 BJ | | 1992 01 15.48736 | 02 21 21.95 | -11 57 01.1 | | | 413 |
| 1988 RG1 | | 1992 01 15.57215 | 05 58 50.98 | -02 37 51.1 | | | 413 |
| 1988 RG1 | | 1992 01 15.57619 | 05 58 50.86 | -02 37 49.9 | | | 413 |
| 1988 RG1 | | 1992 01 15.57986 | 05 58 50.76 | -02 37 49.5 | | | 413 |
| 1990 DJ | | 1992 01 15.49227 | 02 38 43.53 | -13 42 48.2 | | | 413 |
| 1990 DJ | | 1992 01 15.49611 | 02 38 43.70 | -13 42 44.8 | | | 413 |
| 1990 HM3 | | 1990 05 01.75077 | 18 40 09.81 | -23 06 38.3 | | | 413 |
| 1990 HN3 | | 1990 05 01.75077 | 18 40 55.28 | -23 32 26.2 | | | 413 |
| 1990 HO3 | | 1990 05 01.75077 | 18 43 28.44 | -23 55 26.1 | | | 413 |
| 1990 HG5 | * | 1990 04 29.76870 | 18 34 49.64 | -24 00 24.2 | | | 413 |
| 1990 HG5 | | 1990 05 01.75077 | 18 35 42.97 | -24 07 46.3 | | | 413 |
| 1990 HG5 | | 1990 05 02.74389 | 18 36 06.79 | -24 11 33.7 | | | 413 |
| 1990 HH5 | * | 1990 04 29.76870 | 18 35 22.99 | -23 47 02.4 | | | 413 |
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| 1990 HJ5 | | 1990 05 02.74389 | 18 36 32.26 | -22 55 07.4 | | | 413 |
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| 1990 HK5 | | 1990 05 01.75077 | 18 38 05.34 | -25 00 19.3 | | | 413 |
| 1990 HK5 | | 1990 05 02.74389 | 18 38 10.90 | -24 58 43.5 | | | 413 |
| 1990 HL5 | * | 1990 04 29.76870 | 18 37 59.29 | -23 29 12.4 | | | 413 |
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| 1990 HM5 | * | 1990 04 29.76870 | 18 38 10.20 | -22 29 54.3 | | | 413 |
| 1990 HM5 | | 1990 05 01.75077 | 18 38 06.35 | -22 30 29.9 | | | 413 |
| 1990 HM5 | | 1990 05 02.74389 | 18 38 02.87 | -22 30 50.2 | | | 413 |
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| 1990 HP5 | | 1990 05 01.75077 | 18 39 21.26 | -24 49 38.1 | | | 413 |
| 1990 HP5 | | 1990 05 02.74389 | 18 39 30.59 | -24 49 57.8 | | | 413 |
| 1990 HQ5 | * | 1990 04 29.76870 | 18 39 52.04 | -22 19 33.0 | | | 413 |

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| 1990 HQ5 | | 1990 05 01.75077 | 18 40 07.84 | -22 22 50.8 | 413 |
| 1990 HQ5 | | 1990 05 02.74389 | 18 40 13.11 | -22 24 34.2 | 413 |
| 1990 HR5 | * | 1990 04 29.76870 | 18 39 59.83 | -24 39 35.6 | 413 |
| 1990 HR5 | | 1990 05 01.75077 | 18 40 04.76 | -24 43 33.5 | 413 |
| 1990 HR5 | | 1990 05 02.74389 | 18 40 05.06 | -24 45 35.7 | 413 |
| 1990 HS5 | * | 1990 04 29.76870 | 18 40 12.53 | -23 55 46.9 | 413 |
| 1990 HS5 | | 1990 05 01.75077 | 18 41 22.13 | -23 59 45.1 | 413 |
| 1990 HS5 | | 1990 05 02.74389 | 18 41 54.17 | -24 01 50.1 | 413 |
| 1990 HT5 | * | 1990 04 29.76870 | 18 40 39.26 | -22 00 36.6 | 413 |
| 1990 HT5 | | 1990 05 01.75077 | 18 41 18.22 | -21 58 49.9 | 413 |
| 1990 HT5 | | 1990 05 02.74389 | 18 41 34.95 | -21 57 59.2 | 413 |
| 1990 HU5 | * | 1990 04 29.76870 | 18 41 07.76 | -22 42 01.9 | 413 |
| 1990 HU5 | | 1990 05 01.75077 | 18 41 20.09 | -22 45 24.5 | 413 |
| 1990 HU5 | | 1990 05 02.74389 | 18 41 24.11 | -22 47 09.7 | 413 |
| 1990 HV5 | * | 1990 04 29.76870 | 18 41 28.41 | -24 47 08.5 | 413 |
| 1990 HV5 | | 1990 05 01.75077 | 18 42 17.26 | -24 46 11.4 | 413 |
| 1990 HV5 | | 1990 05 02.74389 | 18 42 39.13 | -24 45 44.2 | 413 |
| 1990 HW5 | * | 1990 04 29.76870 | 18 41 47.13 | -21 58 01.9 | 413 |
| 1990 HW5 | | 1990 05 01.75077 | 18 41 59.64 | -21 49 29.6 | 413 |
| 1990 HW5 | | 1990 05 02.74389 | 18 42 03.15 | -21 45 12.0 | 413 |
| 1990 HX5 | * | 1990 04 29.76870 | 18 42 17.30 | -22 04 38.1 | 413 |
| 1990 HX5 | | 1990 05 01.75077 | 18 42 40.83 | -22 07 20.0 | 413 |
| 1990 HX5 | | 1990 05 02.74389 | 18 42 49.84 | -22 08 46.9 | 413 |
| 1990 HY5 | * | 1990 04 29.76870 | 18 43 19.88 | -23 23 37.8 | 413 |
| 1990 HY5 | | 1990 05 01.75077 | 18 43 42.93 | -23 21 52.2 | 413 |
| 1990 HY5 | | 1990 05 02.74389 | 18 43 51.67 | -23 21 02.1 | 413 |
| 1990 HZ5 | * | 1990 04 29.76870 | 18 43 37.47 | -22 00 38.2 | 413 |
| 1990 HZ5 | | 1990 05 01.75077 | 18 43 32.47 | -22 03 48.9 | 413 |
| 1990 HZ5 | | 1990 05 02.74389 | 18 43 28.12 | -22 05 27.5 | 413 |
| 1990 HA6 | * | 1990 04 29.76870 | 18 44 25.75 | -23 09 09.1 | 413 |
| 1990 HA6 | | 1990 05 01.75077 | 18 44 47.16 | -23 14 02.4 | 413 |
| 1990 HA6 | | 1990 05 02.74389 | 18 44 55.23 | -23 16 34.9 | 413 |
| 1990 HB6 | * | 1990 04 29.76870 | 18 44 41.36 | -23 42 02.2 | 413 |
| 1990 HB6 | | 1990 05 01.75077 | 18 45 19.06 | -23 43 22.4 | 413 |
| 1990 HB6 | | 1990 05 02.74389 | 18 45 35.68 | -23 44 05.7 | 413 |
| 1990 HC6 | * | 1990 04 29.76870 | 18 44 48.22 | -23 26 09.4 | 413 |
| 1990 HC6 | | 1990 05 01.75077 | 18 45 51.63 | -23 27 03.9 | 413 |
| 1990 HC6 | | 1990 05 02.74389 | 18 46 20.66 | -23 27 34.8 | 413 |
| 1990 HD6 | * | 1990 04 29.76870 | 18 44 52.81 | -22 03 02.6 | 413 |
| 1990 HD6 | | 1990 05 01.75077 | 18 45 04.96 | -22 04 30.7 | 413 |
| 1990 HD6 | | 1990 05 02.74389 | 18 45 08.91 | -22 05 18.5 | 413 |
| 1990 HE6 | * | 1990 04 29.76870 | 18 45 49.20 | -23 24 29.2 | 413 |
| 1990 HE6 | | 1990 05 01.75077 | 18 46 36.71 | -23 25 44.3 | 413 |
| 1990 HE6 | | 1990 05 02.74389 | 18 46 58.18 | -23 26 25.4 | 413 |
| 1990 HF6 | * | 1990 04 29.76870 | 18 46 01.54 | -24 12 38.9 | 413 |
| 1990 HF6 | | 1990 05 01.75077 | 18 46 18.19 | -24 14 47.4 | 413 |
| 1990 HF6 | | 1990 05 02.74389 | 18 46 24.21 | -24 15 55.2 | 413 |
| 1990 HG6 | * | 1990 04 29.76870 | 18 46 13.03 | -22 17 55.8 | 413 |
| 1990 HG6 | | 1990 05 01.75077 | 18 46 30.29 | -22 15 26.4 | 413 |
| 1990 HG6 | | 1990 05 02.74389 | 18 46 36.74 | -22 14 13.2 | 413 |
| 1990 HH6 | * | 1990 04 29.76870 | 18 46 32.13 | -24 08 17.4 | 413 |
| 1990 HH6 | | 1990 05 01.75077 | 18 46 31.96 | -24 09 08.1 | 413 |
| 1990 HH6 | | 1990 05 02.74389 | 18 46 30.05 | -24 09 35.6 | 413 |
| 1990 HJ6 | * | 1990 04 29.76870 | 18 46 57.83 | -22 57 51.2 | 413 |
| 1990 HJ6 | | 1990 05 01.75077 | 18 47 29.52 | -22 59 29.8 | 413 |
| 1990 HJ6 | | 1990 05 02.74389 | 18 47 42.86 | -23 00 23.5 | 413 |
| 1990 HK6 | * | 1990 04 29.76870 | 18 47 11.06 | -23 35 33.3 | 413 |
| 1990 HK6 | | 1990 05 01.75077 | 18 48 03.69 | -23 37 26.9 | 413 |

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|---|---|---|---|---|---|---|---|
| 1990 HK6 | | 1990 05 02.74389 | 18 48 27.30 | -23 38 27.5 | | | 413 |
| 1990 HL6 | * | 1990 04 29.76870 | 18 48 09.76 | -21 58 54.7 | | | 413 |
| 1990 HL6 | | 1990 05 01.75077 | 18 48 20.55 | -21 59 22.5 | | | 413 |
| 1990 HL6 | | 1990 05 02.74389 | 18 48 23.41 | -21 59 40.3 | | | 413 |
| 1990 HM6 | * | 1990 04 29.76870 | 18 48 38.20 | -23 32 40.4 | | | 413 |
| 1990 HM6 | | 1990 05 01.75077 | 18 49 04.00 | -23 30 56.1 | | | 413 |
| 1990 HM6 | | 1990 05 02.74389 | 18 49 14.72 | -23 30 05.6 | | | 413 |
| 1990 HN6 | * | 1990 04 29.76870 | 18 35 55.64 | -21 44 32.4 | | | 413 |
| 1990 HN6 | | 1990 05 01.75077 | 18 35 38.06 | -21 46 18.1 | | | 413 |
| 1990 HO6 | * | 1990 04 29.76870 | 18 39 19.19 | -22 30 48.3 | | | 413 |
| 1990 HO6 | | 1990 05 01.75077 | 18 39 26.44 | -22 26 27.2 | | | 413 |
| 1990 HP6 | * | 1990 04 29.76870 | 18 43 31.39 | -22 35 01.4 | | | 413 |
| 1990 HP6 | | 1990 05 01.75077 | 18 43 25.38 | -22 38 29.4 | | | 413 |
| 1990 HQ6 | * | 1990 04 29.76870 | 18 44 12.91 | -22 27 28.1 | | | 413 |
| 1990 HQ6 | | 1990 05 02.74389 | 18 44 22.73 | -22 22 30.4 | | | 413 |
| 1990 HR6 | * | 1990 04 29.76870 | 18 45 39.14 | -22 15 06.6 | | | 413 |
| 1990 HR6 | | 1990 05 01.75077 | 18 45 46.89 | -22 10 47.2 | | | 413 |
| 1990 HS6 | * | 1990 04 29.76870 | 18 45 46.38 | -21 45 43.5 | | | 413 |
| 1990 HS6 | | 1990 05 01.75077 | 18 45 34.66 | -21 42 15.7 | | | 413 |
| 1990 HT6 | * | 1990 04 29.76870 | 18 46 32.51 | -22 02 01.3 | | | 413 |
| 1990 HT6 | | 1990 05 01.75077 | 18 46 37.28 | -22 01 26.3 | | | 413 |
| 1990 HU6 | * | 1990 04 29.76870 | 18 49 04.96 | -25 02 29.1 | | | 413 |
| 1990 HU6 | | 1990 05 01.75077 | 18 49 22.10 | -24 57 55.3 | | | 413 |
| 1990 HV6 | * | 1990 04 29.76870 | 18 49 11.95 | -23 10 59.8 | | | 413 |
| 1990 HV6 | | 1990 05 01.75077 | 18 49 14.55 | -23 11 40.7 | | | 413 |
| 1990 JN1 | * | 1990 05 01.75077 | 18 34 40.50 | -22 37 22.9 | | | 413 |
| 1990 JN1 | | 1990 05 02.74389 | 18 34 45.08 | -22 36 47.9 | | | 413 |
| 1990 JO1 | * | 1990 05 01.75077 | 18 34 55.93 | -22 25 33.4 | | | 413 |
| 1990 JO1 | | 1990 05 02.74389 | 18 35 07.68 | -22 31 20.2 | | | 413 |
| 1990 JP1 | * | 1990 05 01.75077 | 18 35 35.55 | -23 00 18.7 | | | 413 |
| 1990 JP1 | | 1990 05 02.74389 | 18 36 04.97 | -22 58 08.9 | | | 413 |
| 1990 JQ1 | * | 1990 05 01.75077 | 18 38 09.41 | -24 54 17.3 | | | 413 |
| 1990 JQ1 | | 1990 05 02.74389 | 18 38 43.74 | -24 54 00.2 | | | 413 |
| 1990 JR1 | * | 1990 05 01.75077 | 18 39 21.42 | -22 59 04.2 | | | 413 |
| 1990 JR1 | | 1990 05 02.74389 | 18 39 23.26 | -22 59 27.8 | | | 413 |
| 1990 JS1 | * | 1990 05 01.75077 | 18 41 17.80 | -22 49 09.5 | | | 413 |
| 1990 JS1 | | 1990 05 02.74389 | 18 41 24.11 | -22 47 09.7 | | | 413 |
| 1990 JT1 | * | 1990 05 01.75077 | 18 41 20.09 | -22 45 24.6 | | | 413 |
| 1990 JT1 | | 1990 05 02.74389 | 18 41 36.61 | -22 42 12.8 | | | 413 |
| 1990 JU1 | * | 1990 05 01.75077 | 18 41 24.39 | -22 12 11.2 | | | 413 |
| 1990 JU1 | | 1990 05 02.74389 | 18 41 32.78 | -22 11 27.9 | | | 413 |
| 1990 JV1 | * | 1990 05 01.75077 | 18 43 07.88 | -22 49 54.0 | | | 413 |
| 1990 JV1 | | 1990 05 02.74389 | 18 43 05.02 | -22 45 45.3 | | | 413 |
| 1990 JW1 | * | 1990 05 01.75077 | 18 43 08.32 | -24 32 57.0 | | | 413 |
| 1990 JW1 | | 1990 05 02.74389 | 18 43 34.28 | -24 35 14.2 | | | 413 |
| 1990 JX1 | * | 1990 05 01.75077 | 18 44 40.97 | -23 55 45.1 | | | 413 |
| 1990 JX1 | | 1990 05 02.74389 | 18 44 46.39 | -23 54 18.8 | | | 413 |
| 1990 JY1 | * | 1990 05 01.75077 | 18 48 00.98 | -23 09 44.1 | | | 413 |
| 1990 JY1 | | 1990 05 02.74389 | 18 48 12.61 | -23 09 01.2 | | | 413 |
| 1991 VB | | 1992 01 13.51855 | 03 32 50.83 | +16 32 25.1 | | | 413 |
| 1991 VB | | 1992 01 13.52042 | 03 32 51.04 | +16 32 24.4 | | | 413 |
| 1991 VB | | 1992 01 13.52236 | 03 32 51.26 | +16 32 25.1 | | | 413 |
| 1991 VB3 | | 1990 04 29.76870 | 18 39 36.60 | -22 07 48.8 | | | 413 |
| 1991 VB3 | | 1990 05 01.75077 | 18 39 59.58 | -22 02 19.1 | | | 413 |
| 1991 VB3 | | 1990 05 02.74389 | 18 40 08.23 | -21 59 34.8 | | | 413 |
| 1992 AD | | 1977 07 22.76513 | 23 55 21.45 | -21 52 30.6 | | | 413 |
| 1992 AD | | 1982 08 22.71951 | 01 27 26.44 | -17 29 15.7 | | | 413 |
| 1992 AD | | 1992 02 11.56142 | 08 01 33.27 | +21 14 17.6 | | | 413 |
| 1992 AD | | 1992 02 11.56676 | 08 01 33.18 | +21 14 18.2 | | | 413 |

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|---|---|---|---|---|---|---|---|---|
| 1992 AD | | 1992 02 11.57350 | 08 01 33.07 | +21 14 19.0 | | | | 413 |
| 1992 AD | | 1992 02 12.58154 | 08 01 16.95 | +21 16 25.9 | | | | 413 |
| 1992 BB | | 1992 02 11.50042 | 05 39 25.57 | -55 09 12.4 | | | | 413 |
| 1992 BB | | 1992 02 11.50432 | 05 39 25.68 | -55 09 07.5 | | | | 413 |
| 1992 BB | | 1992 02 11.50757 | 05 39 25.80 | -55 09 03.4 | | | | 413 |
| 1992 BB | | 1992 02 12.49163 | 05 40 04.06 | -54 48 43.8 | | | | 413 |
| 1992 BB | | 1992 02 12.49441 | 05 40 04.16 | -54 48 40.2 | | | | 413 |
| 1992 BB | | 1992 02 12.62093 | 05 40 08.88 | -54 45 57.6 | | | | 413 |
| 5119 T-3 | | 1992 01 15.56417 | 05 34 49.74 | -20 27 02.4 | | | | 413 |
| 5119 T-3 | | 1992 01 15.56726 | 05 34 49.67 | -20 26 59.8 | | | | 413 |
| (196) | | 1990 04 29.76870 | 18 43 45.18 | -24 43 05.2 | | | | 413 |
| (196) | | 1990 05 01.75077 | 18 44 00.80 | -24 47 21.3 | | | | 413 |
| (196) | | 1990 05 02.74389 | 18 44 06.51 | -24 49 34.0 | | | | 413 |
| (557) | | 1990 04 29.76870 | 18 47 22.46 | -24 47 11.6 | | | | 413 |
| (557) | | 1990 05 01.75077 | 18 47 40.99 | -24 46 45.9 | | | | 413 |
| (557) | | 1990 05 02.74389 | 18 47 47.68 | -24 46 35.0 | | | | 413 |
| (2415) | | 1990 04 29.76870 | 18 47 36.10 | -22 29 17.4 | | | | 413 |
| (2415) | | 1990 05 01.75077 | 18 48 10.00 | -22 29 53.1 | | | | 413 |
| (2415) | | 1990 05 02.74389 | 18 48 24.58 | -22 30 14.4 | | | | 413 |
| (2483) | | 1990 04 29.76870 | 18 37 11.64 | -21 43 43.6 | | | | 413 |
| (2483) | | 1990 05 01.75077 | 18 36 56.66 | -21 42 39.8 | | | | 413 |
| (2483) | | 1990 05 02.74389 | 18 36 47.84 | -21 42 08.9 | | | | 413 |
| (3303) | | 1990 04 29.76870 | 18 37 47.94 | -24 51 29.6 | | | | 413 |
| (3303) | | 1990 05 01.75077 | 18 38 07.56 | -24 53 43.2 | | | | 413 |
| (3303) | | 1990 05 02.74389 | 18 38 15.11 | -24 54 52.8 | | | | 413 |
| (3327) | | 1990 05 01.75077 | 18 40 39.39 | -23 33 09.8 | | | | 413 |
| (3839) | | 1990 04 29.76870 | 18 38 43.50 | -22 15 23.2 | | | | 413 |
| (3839) | | 1990 05 01.75077 | 18 40 01.52 | -22 10 17.1 | | | | 413 |
| (3839) | | 1990 05 02.74389 | 18 40 37.73 | -22 07 43.6 | | | | 413 |
| (5048) | | 1990 04 29.76870 | 18 46 18.41 | -24 24 35.5 | | | | 413 |
| (5048) | | 1990 05 01.75077 | 18 47 05.27 | -24 23 52.2 | | | | 413 |
| (5048) | | 1990 05 02.74389 | 18 47 25.90 | -24 23 32.6 | | | | 413 |

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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1978 PT4 | | 1991 11 05.57138 | 02 09 09.72 | -16 22 37.0 | | | | 474 |
| 1978 PT4 | | 1991 11 05.58880 | 02 09 08.83 | -16 22 41.5 | | | | 474 |
| 1992 BF | | 1992 02 05.54372 | 09 29 54.16 | +13 47 10.4 | | | | 474 |
| 1992 BF | | 1992 02 05.55240 | 09 29 50.53 | +13 47 01.2 | | | | 474 |

493 Calar Alto
K. Birkle, Max-Planck-Institut fur Astronomie, Konigstuhl, D-6900 Heidelberg 1, Federal Republic of Germany
Observers K. Birkle, U. Hopp
0.8-m f/3 Schmidt

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1992 CH1 | * | 1992 02 08.06250 | 10 50 05.42 | -01 33 54.8 | 16 | R | | 493 |
| 1992 CH1 | | 1992 02 09.10938 | 10 53 14.95 | +00 22 55.7 | | | | 493 |
| 1992 CH1 | | 1992 02 09.99132 | 10 55 58.12 | +02 03 56.0 | | | | 493 |
| 1992 CH1 | | 1992 02 11.20920 | 10 59 38.93 | +04 26 29.0 | | | | 493 |
| 1992 CH1 | | 1992 02 11.21192 | 10 59 39.31 | +04 26 47.6 | | | | 493 |
| 1992 CH1 | | 1992 02 11.92299 | 11 01 54.56 | +05 51 24.2 | | | | 493 |
| 1992 CH1 | | 1992 02 11.92455 | 11 01 54.72 | +05 51 36.4 | | | | 493 |
| 1992 CH1 | | 1992 02 12.20764 | 11 02 42.96 | +06 25 34.5 | | | | 493 |
| 1992 CH1 | | 1992 02 12.20920 | 11 02 43.25 | +06 25 46.5 | | | | 493 |
| 1992 CH1 | | 1992 02 15.19392 | 11 11 55.63 | +12 28 10.1 | | | | 493 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1992 CH1 | 1992 02 15.19416 | 11 11 55.69 | +12 28 11.8 | | | 493 |
| (148) | 1992 01 24.93588 | 05 10 31.78 | -06 12 40.1 | | | 493 |
| (148) | 1992 01 26.88576 | 05 10 19.13 | -05 42 06.8 | | | 493 |
| (148) | 1992 02 01.88738 | 05 10 20.91 | -04 07 12.4 | | | 493 |
| (148) | 1992 02 07.89097 | 05 11 23.82 | -02 32 20.3 | | | 493 |
| (148) | 1992 02 09.90035 | 05 11 58.20 | -02 00 50.0 | | | 493 |
| (148) | 1992 02 13.85000 | 05 13 24.40 | -00 59 34.8 | | | 493 |

511 Haute Provence
E. W. Elst, Royal Observatory, B-1180 Brussels, Belgium
Observer E. W. Elst
Measurers E. W. Elst, J. P. Olivier
0.6-m Schmidt

| | | | | | | |
|---|---|---|---|---|---|---|
| 1991 YG | 1991 12 30.07049 | 06 58 19.26 | +16 30 33.7 | | | 511 |
| 1991 YG | 1991 12 30.10938 | 06 58 16.52 | +16 30 27.9 | | | 511 |
| 1991 YG | 1992 01 02.02118 | 06 55 09.68 | +16 25 43.7 | | 17.3 | 511 |
| 1991 YG | 1992 01 02.05521 | 06 55 07.47 | +16 25 40.4 | | | 511 |

565 Bassano Bresciano
U. Quadri, Osservatorio di Bassano Bresciano, Via S. Michele 4,
I-25020 Bassano Bresciano (Brescia), Italy
Observers U. Quadri, L. Strabla
0.3-0.4-m f/3.3 Schmidt

| | | | | | | |
|---|---|---|---|---|---|---|
| (5058) | 1992 01 25.82869 | 06 59 00.20 | +23 21 36.2 | | 17.5 | 565 |
| (5058) | 1992 01 25.84921 | 06 58 59.08 | +23 21 44.3 | | | 565 |

567 Osservatorio Chaonis
J. M. Baur, Via Zara 20, I-33083 Chions, Italy
Observers J. M. Baur, G. Carniel
Measurer J. M. Baur
0.6-m f/3 Wright-Schmidt reflector

| | | | | | | |
|---|---|---|---|---|---|---|
| 1990 VC | 1991 12 15.06528 | 09 13 42.06 | -02 36 14.8 | | 18.3 | 567 |
| 1990 VC | 1991 12 15.09305 | 09 13 41.99 | -02 36 26.8 | | | 567 |
| 1990 VC | 1991 12 15.12083 | 09 13 41.85 | -02 36 39.1 | | | 567 |
| 1990 VC | 1991 12 16.05139 | 09 13 37.66 | -02 43 22.5 | | | 567 |
| 1990 VC | 1991 12 16.07916 | 09 13 37.47 | -02 43 35.3 | | | 567 |
| 1990 VC | 1991 12 16.09652 | 09 13 37.37 | -02 43 42.8 | | | 567 |
| 1990 VC | 1991 12 31.01667 | 09 09 27.37 | -04 14 44.3 | | | 567 |
| 1990 VC | 1991 12 31.03750 | 09 09 26.74 | -04 14 50.7 | | | 567 |
| 1990 VC | 1991 12 31.05833 | 09 09 26.07 | -04 14 55.7 | | | 567 |
| 1990 VC | 1992 01 25.92778 | 08 50 30.11 | -05 06 19.5 | | | 567 |
| 1990 VC | 1992 01 25.94583 | 08 50 29.07 | -05 06 17.9 | | | 567 |
| 1990 VC | 1992 01 27.91944 | 08 48 40.01 | -05 03 39.2 | | | 567 |
| 1990 VC | 1992 01 27.93750 | 08 48 38.96 | -05 03 37.8 | | | 567 |
| 1990 VC | 1992 01 27.95556 | 08 48 37.96 | -05 03 35.4 | | | 567 |

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

| | | | | | | |
|---|---|---|---|---|---|---|
| (145) | 1992 02 23.76694 | 10 19 03.62 | +32 32 09.3 | | | 573 |
| (145) | 1992 02 23.77440 | 10 19 03.11 | +32 32 12.3 | | | 573 |
| (346) | 1992 02 23.79257 | 09 26 14.20 | +25 32 59.0 | | | 573 |
| (346) | 1992 02 23.79651 | 09 26 13.99 | +25 33 00.4 | | | 573 |

587 Sormano
P. Sicoli, Via Valli 9, I-22040 Garbagnate Monastero (Como), Italy
Observers M. Cavagna, E. Colzani, P. Sicoli, A. Testa
0.5-m f/5.9 reflector, 0.21-m f/4.9 astrograph
PPM

| | | | | |
|---|---|---|---|---|
| 1991 VL | 1991 12 02.80108 | 00 08 27.44 | +18 10 17.1 | 587 |
| 1991 VL | 1991 12 29.82222 | 23 56 36.07 | +12 54 58.3 | 587 |
| 1992 AC | 1992 01 31.93368 | 09 50 08.62 | +29 52 22.5 | 587 |

595 Farra d'Isonzo
L. Bittesini, Via dei Conventi 10, I-34070 Farra D'Isonzo (GO), Italy
Observers G. Lombardi, F. Piani
Measurers G. Lombardi, F. Piani
0.4-m f/4.5 reflector
PPM

| | | | | |
|---|---|---|---|---|
| (2719) | 1991 10 10.93542 | 01 34 03.78 | +08 33 20.6 | 595 |
| (3285) | 1991 12 03.87222 | 02 40 42.03 | +22 09 45.9 | 595 |
| (4159) | 1991 12 27.88681 | 05 50 46.18 | +23 08 32.8 | 595 |
| (4159) | 1991 12 27.94028 | 05 50 42.38 | +23 08 53.8 | 595 |

597 Springe
N. Ehring, Detmoldstrasse 8, W-3000 Hannover 1, Federal Republic of Germany

| | | | | |
|---|---|---|---|---|
| (38) | 1992 01 10.90764 | 06 46 35.52 | +25 27 01.9 | 597 |
| (38) | 1992 01 10.91970 | 06 46 34.75 | +25 26 59.6 | 597 |
| (193) | 1992 01 10.88351 | 08 55 53.46 | +36 33 33.6 | 597 |
| (193) | 1992 01 10.89498 | 08 55 52.66 | +36 33 34.4 | 597 |
| (278) | 1992 01 08.02808 | 06 11 33.32 | +30 20 15.4 | 597 |
| (278) | 1992 01 08.03569 | 06 11 32.85 | +30 20 15.7 | 597 |
| (679) | 1992 01 10.95492 | 09 00 22.85 | +24 23 54.3 | 597 |
| (679) | 1992 01 10.97308 | 09 00 21.81 | +24 24 09.3 | 597 |
| (773) | 1992 01 10.96454 | 09 04 20.40 | +24 44 33.3 | 597 |
| (773) | 1992 01 10.97308 | 09 04 19.96 | +24 44 33.6 | 597 |
| (785) | 1992 01 08.00064 | 06 44 16.65 | +33 26 53.4 | 597 |
| (785) | 1992 01 08.01834 | 06 44 15.31 | +33 26 59.0 | 597 |
| (928) | 1992 01 10.93889 | 07 02 27.50 | +11 43 21.3 | 597 |
| (928) | 1992 01 10.94253 | 07 02 27.33 | +11 43 23.5 | 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
0.25-m astrograph, 0.5-m reflector + CCD

| | | | | |
|---|---|---|---|---|
| 1992 CC1 | 1992 02 28.25096 | 11 23 22.73 | +19 00 29.7 | 657 |
| 1992 CC1 | 1992 02 28.25513 | 11 23 21.78 | +19 00 26.7 | 657 |
| 1992 CC1 | 1992 02 28.26146 | 11 23 20.40 | +19 00 23.4 | 657 |
| (1286) | 1991 10 03.29660 | 00 48 49.85 | +07 38 48.9 | 657 |
| (1286) | 1991 10 03.33826 | 00 48 48.12 | +07 38 28.5 | 657 |
| (1493) | 1991 09 03.28854 | 22 53 20.65 | -06 02 29.4 | 657 |
| (1493) | 1991 09 03.32674 | 22 53 18.58 | -06 02 36.2 | 657 |
| (1971) | 1991 09 03.27674 | 22 29 35.08 | -00 31 44.7 | 657 |
| (1971) | 1991 09 03.31563 | 22 29 33.20 | -00 31 49.2 | 657 |
| (2878) | 1991 09 17.42090 | 01 07 53.30 | +20 38 31.2 | 657 |
| (2878) | 1991 09 17.47785 | 01 07 50.95 | +20 38 31.9 | 657 |

658 Dominion Astrophysical Observatory, Victoria
D. D. Balam, Dept. of Physics, University of Victoria, P.O. Box 1700, Victoria, BC V8W 2Y2, Canada
Observer G. C. L. Aikman
Measurer D. D. Balam
1.85-m reflector + CCD
GSC

| | | | | |
|---|---|---|---|---|
| 1992 AA | 1992 02 06.30220 | 05 47 34.64 | +34 02 07.4 | 658 |
| 1992 AA | 1992 02 06.30334 | 05 47 35.36 | +34 02 11.7 | 658 |
| 1992 AA | 1992 02 06.30630 | 05 47 35.91 | +34 02 14.8 | 658 |

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|---|---|---|---|---|---|---|
| 1992 AA | 1992 02 07.25279 | 05 50 30.97 | +34 17 49.2 | | | 658 |
| 1992 AA | 1992 02 07.25973 | 05 50 32.19 | +34 17 55.8 | | | 658 |
| 1992 AA | 1992 02 07.26425 | 05 50 32.96 | +34 17 59.7 | | | 658 |
| 1992 AC | 1992 02 06.40973 | 10 04 11.78 | +35 44 14.1 | | | 658 |
| 1992 AC | 1992 02 06.41112 | 10 04 11.99 | +35 44 19.2 | | | 658 |
| 1992 AC | 1992 02 07.49010 | 10 07 04.07 | +36 50 33.8 | | | 658 |
| 1992 AC | 1992 02 07.49150 | 10 07 04.28 | +36 50 38.8 | | | 658 |
| 1992 AD | 1992 02 06.32503 | 08 03 01.12 | +21 03 00.1 | | | 658 |
| 1992 AD | 1992 02 06.32882 | 08 03 01.00 | +21 03 00.1 | | | 658 |
| 1992 AD | 1992 02 06.33304 | 08 03 00.93 | +21 03 00.4 | | | 658 |
| 1992 AD | 1992 02 07.27778 | 08 02 44.75 | +21 05 05.0 | | | 658 |
| 1992 AD | 1992 02 07.28126 | 08 02 44.67 | +21 05 06.1 | | | 658 |
| 1992 AD | 1992 02 07.28647 | 08 02 44.58 | +21 05 06.5 | | | 658 |
| 1992 AE | 1992 02 07.12780 | 03 30 06.56 | +19 25 08.1 | | | 658 |
| 1992 AE | 1992 02 07.13384 | 03 30 07.34 | +19 25 12.0 | | | 658 |
| 1992 BC | 1992 02 07.40869 | 10 02 22.56 | +53 17 06.1 | | | 658 |
| 1992 BC | 1992 02 07.40991 | 10 02 23.06 | +53 17 19.7 | | | 658 |
| 1992 BC | 1992 02 07.42639 | 10 02 30.38 | +53 20 26.9 | | | 658 |
| (1981) | 1992 02 07.54828 | 14 15 06.68 | +21 52 37.4 | | | 658 |
| (1981) | 1992 02 07.55035 | 14 15 06.90 | +21 52 35.4 | | | 658 |
| (1981) | 1992 02 07.55209 | 14 15 07.11 | +21 52 33.5 | | | 658 |

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)
J. Mueller, Palomar Observatory, Palomar Mountain, CA 92060, U.S.A. (7)
9 = 3 + 6
Observers T. Gehrels (4, L), E. Helin (2, S), H. E. Holt (9, S), T. M. King (3, S), C. Kowal (6, L), K. A. Lawler (9, S), K. Lawrence (2, S), D. H. Levy (3, S), J. D. Mendenhall (7, L), P. Rose (2, S), C. S. Shoemaker (3, S), E. M. Shoemaker (3, S), J. Stiffler (9, S)
Measurers J. Alu (2), K. Lawrence (2), T. M. King (3), J. Mueller (7), C. M. Olmstead (9), P. Rose (2), C. S. Shoemaker (2), B. A. Skiff (9), C. J. van Houten (4), I. van Houten-Groeneveld (4), A. Wisse (4)
1.2-m (L) and 0.46-m (S) Schmidt telescopes

| | | | | | | |
|---|---|---|---|---|---|---|
| 1969 TQ1 | 1991 09 11.37431 | 00 09 29.34 | -03 52 51.8 | 18.0 | 9 | 675 |
| 1969 TQ1 | 1991 09 14.39288 | 00 07 22.73 | -04 06 45.1 | 17.5 | 9 | 675 |
| 1969 TQ1 | 1991 09 14.44635 | 00 07 20.27 | -04 06 59.3 | | 9 | 675 |
| 1969 TQ1 | 1991 09 15.36128 | 00 06 40.99 | -04 11 11.7 | 18.0 | 9 | 675 |
| 1969 TQ1 | 1991 09 15.39861 | 00 06 39.33 | -04 11 22.1 | | 9 | 675 |
| 1969 TQ1 | 1991 09 16.38663 | 00 05 56.31 | -04 15 58.1 | 17.0 | 9 | 675 |
| 1969 TQ1 | 1991 09 16.42674 | 00 05 54.48 | -04 16 08.8 | | 9 | 675 |
| 1976 GO3 | 1978 11 30.26007 | 03 40 20.08 | +16 51 49.6 | 17.5 V | 6 | 675 |
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| 1977 RG | 1991 09 11.35451 | 23 02 43.46 | -05 41 15.2 | | 9 | 675 |
| 1977 RG | 1991 09 17.22847 | 22 58 28.37 | -06 28 03.0 | | 9 | 675 |
| 1978 VP1 | 1978 11 30.26007 | 03 21 46.06 | +19 30 32.4 | 17.2 V | 6 | 675 |
| 1978 VP1 | 1978 12 01.27691 | 03 21 01.08 | +19 25 24.7 | | 6 | 675 |
| 1978 VN2 | 1978 11 30.26007 | 03 26 59.72 | +20 36 48.8 | 16.8 V | 6 | 675 |
| 1978 VN2 | 1978 12 01.27691 | 03 26 11.25 | +20 33 57.5 | | 6 | 675 |
| 1978 VO2 | 1978 11 30.26007 | 03 26 05.60 | +19 45 54.7 | 17.0 V | 6 | 675 |
| 1978 VO2 | 1978 12 01.27691 | 03 25 13.76 | +19 39 07.0 | | 6 | 675 |
| 1978 VP2 | 1978 11 30.26007 | 03 22 19.41 | +20 55 23.0 | 18.2 V | 6 | 675 |
| 1978 VP2 | 1978 12 01.27691 | 03 21 17.72 | +20 50 32.6 | | 6 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1978 VQ2 | | 1978 | 11 | 30.26007 | 03 | 24 | 08.58 | +20 | 10 | 41.7 | 17.8 V | 6 675 |
| 1978 VQ2 | | 1978 | 12 | 01.27691 | 03 | 23 | 12.33 | +20 | 04 | 15.3 | | 6 675 |
| 1978 WZ16 | * | 1978 | 11 | 30.26007 | 03 | 20 | 46.64 | +17 | 54 | 52.4 | 17.2 V | 6 675 |
| 1978 WZ16 | | 1978 | 12 | 01.27691 | 03 | 19 | 56.08 | +17 | 52 | 46.7 | | 6 675 |
| 1978 WA17 | * | 1978 | 11 | 30.26007 | 03 | 21 | 14.73 | +20 | 13 | 06.3 | 18.2 V | 6 675 |
| 1978 WA17 | | 1978 | 12 | 01.27691 | 03 | 20 | 16.78 | +20 | 13 | 03.2 | | 6 675 |
| 1978 WB17 | * | 1978 | 11 | 30.26007 | 03 | 21 | 59.83 | +16 | 52 | 10.2 | 17.8 V | 6 675 |
| 1978 WB17 | | 1978 | 12 | 01.27691 | 03 | 21 | 00.38 | +16 | 53 | 00.6 | | 6 675 |
| 1978 WC17 | * | 1978 | 11 | 30.26007 | 03 | 22 | 17.91 | +18 | 04 | 43.8 | 18.0 V | 6 675 |
| 1978 WC17 | | 1978 | 12 | 01.27691 | 03 | 21 | 31.37 | +18 | 01 | 46.4 | | 6 675 |
| 1978 WD17 | * | 1978 | 11 | 30.26007 | 03 | 22 | 50.05 | +18 | 40 | 38.9 | 16.8 V | 6 675 |
| 1978 WD17 | | 1978 | 12 | 01.27691 | 03 | 21 | 58.39 | +18 | 41 | 12.5 | | 6 675 |
| 1978 WE17 | * | 1978 | 11 | 30.26007 | 03 | 24 | 03.22 | +18 | 57 | 07.3 | 18.2 V | 6 675 |
| 1978 WE17 | | 1978 | 12 | 01.27691 | 03 | 23 | 13.59 | +18 | 53 | 44.8 | | 6 675 |
| 1978 WF17 | * | 1978 | 11 | 30.26007 | 03 | 24 | 09.15 | +20 | 17 | 23.6 | 17.8 V | 6 675 |
| 1978 WF17 | | 1978 | 12 | 01.27691 | 03 | 23 | 20.92 | +20 | 14 | 05.0 | | 6 675 |
| 1978 WG17 | * | 1978 | 11 | 30.26007 | 03 | 24 | 20.80 | +18 | 56 | 15.5 | 18.5 V | 6 675 |
| 1978 WG17 | | 1978 | 12 | 01.27691 | 03 | 23 | 43.77 | +18 | 56 | 57.0 | | 6 675 |
| 1978 WH17 | * | 1978 | 11 | 30.26007 | 03 | 25 | 30.06 | +20 | 49 | 51.9 | 18.5 V | 6 675 |
| 1978 WH17 | | 1978 | 12 | 01.27691 | 03 | 24 | 32.44 | +20 | 45 | 34.7 | | 6 675 |
| 1978 WJ17 | * | 1978 | 11 | 30.26007 | 03 | 25 | 54.55 | +19 | 17 | 03.5 | 17.5 V | 6 675 |
| 1978 WJ17 | | 1978 | 12 | 01.27691 | 03 | 24 | 53.18 | +19 | 17 | 56.1 | | 6 675 |
| 1978 WK17 | * | 1978 | 11 | 30.26007 | 03 | 27 | 13.12 | +19 | 58 | 10.0 | 18.0 V | 6 675 |
| 1978 WK17 | | 1978 | 12 | 01.27691 | 03 | 26 | 03.40 | +20 | 01 | 55.8 | | 6 675 |
| 1978 WL17 | * | 1978 | 11 | 30.26007 | 03 | 27 | 47.64 | +18 | 50 | 10.6 | 18.8 V | 6 675 |
| 1978 WL17 | | 1978 | 12 | 01.27691 | 03 | 26 | 56.35 | +18 | 40 | 20.5 | | 6 675 |
| 1978 WM17 | * | 1978 | 11 | 30.26007 | 03 | 27 | 58.69 | +18 | 57 | 27.4 | 17.8 V | 6 675 |
| 1978 WM17 | | 1978 | 12 | 01.27691 | 03 | 27 | 10.49 | +18 | 53 | 29.7 | | 6 675 |
| 1978 WN17 | * | 1978 | 11 | 30.26007 | 03 | 28 | 26.67 | +18 | 09 | 48.0 | 18.8 V | 6 675 |
| 1978 WN17 | | 1978 | 12 | 01.27691 | 03 | 27 | 40.39 | +18 | 07 | 03.2 | | 6 675 |
| 1978 WO17 | * | 1978 | 11 | 30.26007 | 03 | 28 | 27.52 | +16 | 11 | 38.1 | 18.2 V | 6 675 |
| 1978 WO17 | | 1978 | 12 | 01.27691 | 03 | 27 | 21.73 | +16 | 10 | 49.2 | | 6 675 |
| 1978 WP17 | * | 1978 | 11 | 30.26007 | 03 | 28 | 30.32 | +19 | 27 | 14.5 | 17.5 V | 6 675 |
| 1978 WP17 | | 1978 | 12 | 01.27691 | 03 | 27 | 24.88 | +19 | 26 | 32.9 | | 6 675 |
| 1978 WQ17 | * | 1978 | 11 | 30.26007 | 03 | 28 | 51.88 | +18 | 43 | 07.7 | 17.0 V | 6 675 |
| 1978 WQ17 | | 1978 | 12 | 01.27691 | 03 | 27 | 51.68 | +18 | 41 | 21.8 | | 6 675 |
| 1978 WR17 | * | 1978 | 11 | 30.26007 | 03 | 28 | 53.89 | +20 | 04 | 31.0 | 17.2 V | 6 675 |
| 1978 WR17 | | 1978 | 12 | 01.27691 | 03 | 27 | 55.27 | +19 | 58 | 19.3 | | 6 675 |
| 1978 WS17 | * | 1978 | 11 | 30.26007 | 03 | 29 | 30.51 | +18 | 36 | 14.0 | 18.2 V | 6 675 |
| 1978 WS17 | | 1978 | 12 | 01.27691 | 03 | 28 | 30.61 | +18 | 31 | 26.8 | | 6 675 |
| 1978 WT17 | * | 1978 | 11 | 30.26007 | 03 | 30 | 36.18 | +16 | 58 | 30.6 | 17.8 V | 6 675 |
| 1978 WT17 | | 1978 | 12 | 01.27691 | 03 | 29 | 46.69 | +16 | 57 | 00.5 | | 6 675 |
| 1978 WU17 | * | 1978 | 11 | 30.26007 | 03 | 30 | 55.37 | +16 | 53 | 00.7 | 18.5 V | 6 675 |
| 1978 WU17 | | 1978 | 12 | 01.27691 | 03 | 30 | 14.48 | +16 | 50 | 42.1 | | 6 675 |
| 1978 WV17 | * | 1978 | 11 | 30.26007 | 03 | 31 | 03.62 | +17 | 53 | 36.1 | 18.2 V | 6 675 |
| 1978 WV17 | | 1978 | 12 | 01.27691 | 03 | 30 | 03.41 | +17 | 51 | 58.9 | | 6 675 |
| 1978 WW17 | * | 1978 | 11 | 30.26007 | 03 | 31 | 41.13 | +19 | 31 | 15.9 | 18.5 V | 6 675 |
| 1978 WW17 | | 1978 | 12 | 01.27691 | 03 | 30 | 42.03 | +19 | 32 | 19.8 | | 6 675 |
| 1978 WX17 | * | 1978 | 11 | 30.26007 | 03 | 32 | 45.72 | +20 | 41 | 33.2 | 17.2 V | 6 675 |
| 1978 WX17 | | 1978 | 12 | 01.27691 | 03 | 31 | 53.98 | +20 | 36 | 28.6 | | 6 675 |
| 1978 WY17 | * | 1978 | 11 | 30.26007 | 03 | 32 | 57.68 | +17 | 25 | 43.2 | 19.8 V | 6 675 |
| 1978 WY17 | | 1978 | 12 | 01.27691 | 03 | 32 | 26.43 | +17 | 24 | 09.7 | | 6 675 |
| 1978 WZ17 | * | 1978 | 11 | 30.26007 | 03 | 33 | 04.92 | +18 | 40 | 59.8 | 17.5 V | 6 675 |
| 1978 WZ17 | | 1978 | 12 | 01.27691 | 03 | 32 | 15.12 | +18 | 37 | 46.0 | | 6 675 |
| 1978 WA18 | * | 1978 | 11 | 30.26007 | 03 | 33 | 32.83 | +21 | 11 | 59.1 | 17.8 V | 6 675 |
| 1978 WA18 | | 1978 | 12 | 01.27691 | 03 | 32 | 40.83 | +21 | 09 | 07.4 | | 6 675 |
| 1978 WB18 | * | 1978 | 11 | 30.26007 | 03 | 33 | 43.95 | +20 | 08 | 51.7 | 18.2 V | 6 675 |
| 1978 WB18 | | 1978 | 12 | 01.27691 | 03 | 32 | 54.76 | +20 | 06 | 01.3 | | 6 675 |
| 1978 WC18 | * | 1978 | 11 | 30.26007 | 03 | 33 | 58.71 | +18 | 14 | 45.7 | 18.0 V | 6 675 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1978 | WC18 | | 1978 | 12 | 01.27691 | 03 | 33 | 03.07 | +18 | 16 | 10.8 | | | 6 | 675 |
| 1978 | WD18 | * | 1978 | 11 | 30.26007 | 03 | 34 | 18.09 | +15 | 50 | 03.9 | 17.5 | V | 6 | 675 |
| 1978 | WD18 | | 1978 | 12 | 01.27691 | 03 | 33 | 17.29 | +15 | 51 | 05.6 | | | 6 | 675 |
| 1978 | WE18 | * | 1978 | 11 | 30.26007 | 03 | 34 | 32.65 | +21 | 38 | 19.5 | 18.0 | V | 6 | 675 |
| 1978 | WE18 | | 1978 | 12 | 01.27691 | 03 | 33 | 37.10 | +21 | 35 | 25.4 | | | 6 | 675 |
| 1978 | WF18 | * | 1978 | 11 | 30.26007 | 03 | 34 | 35.53 | +16 | 16 | 13.7 | 17.8 | V | 6 | 675 |
| 1978 | WF18 | | 1978 | 12 | 01.27691 | 03 | 33 | 31.21 | +16 | 20 | 23.5 | | | 6 | 675 |
| 1978 | WG18 | * | 1978 | 11 | 30.26007 | 03 | 34 | 36.44 | +15 | 55 | 42.5 | 18.2 | V | 6 | 675 |
| 1978 | WG18 | | 1978 | 12 | 01.27691 | 03 | 33 | 45.25 | +15 | 47 | 24.9 | | | 6 | 675 |
| 1978 | WH18 | * | 1978 | 11 | 30.26007 | 03 | 34 | 48.77 | +18 | 54 | 06.3 | 17.2 | V | 6 | 675 |
| 1978 | WH18 | | 1978 | 12 | 01.27691 | 03 | 34 | 00.90 | +18 | 50 | 22.1 | | | 6 | 675 |
| 1978 | WJ18 | * | 1978 | 11 | 30.26007 | 03 | 35 | 16.31 | +15 | 57 | 10.3 | 17.8 | V | 6 | 675 |
| 1978 | WJ18 | | 1978 | 12 | 01.27691 | 03 | 34 | 26.57 | +15 | 57 | 17.0 | | | 6 | 675 |
| 1978 | WK18 | * | 1978 | 11 | 30.26007 | 03 | 35 | 28.91 | +20 | 31 | 32.8 | 17.8 | V | 6 | 675 |
| 1978 | WK18 | | 1978 | 12 | 01.27691 | 03 | 34 | 20.87 | +20 | 31 | 03.4 | | | 6 | 675 |
| 1978 | WL18 | * | 1978 | 11 | 30.26007 | 03 | 35 | 35.84 | +20 | 51 | 08.9 | 17.0 | V | 6 | 675 |
| 1978 | WL18 | | 1978 | 12 | 01.27691 | 03 | 34 | 47.94 | +20 | 44 | 37.4 | | | 6 | 675 |
| 1978 | WM18 | * | 1978 | 11 | 30.26007 | 03 | 35 | 52.19 | +20 | 43 | 56.0 | 17.2 | V | 6 | 675 |
| 1978 | WM18 | | 1978 | 12 | 01.27691 | 03 | 34 | 48.60 | +20 | 44 | 55.7 | | | 6 | 675 |
| 1978 | WN18 | * | 1978 | 11 | 30.26007 | 03 | 35 | 56.77 | +21 | 22 | 20.9 | 17.5 | V | 6 | 675 |
| 1978 | WN18 | | 1978 | 12 | 01.27691 | 03 | 34 | 59.49 | +21 | 16 | 47.3 | | | 6 | 675 |
| 1978 | WO18 | * | 1978 | 11 | 30.26007 | 03 | 36 | 51.21 | +21 | 06 | 01.7 | 17.8 | V | 6 | 675 |
| 1978 | WO18 | | 1978 | 12 | 01.27691 | 03 | 35 | 54.72 | +21 | 03 | 22.4 | | | 6 | 675 |
| 1978 | WP18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 01.08 | +20 | 56 | 26.0 | 18.2 | V | 6 | 675 |
| 1978 | WP18 | | 1978 | 12 | 01.27691 | 03 | 37 | 06.88 | +20 | 48 | 33.8 | | | 6 | 675 |
| 1978 | WQ18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 11.48 | +19 | 09 | 27.3 | 16.5 | V | 6 | 675 |
| 1978 | WQ18 | | 1978 | 12 | 01.27691 | 03 | 37 | 19.09 | +19 | 00 | 10.0 | | | 6 | 675 |
| 1978 | WR18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 32.64 | +19 | 52 | 42.7 | 17.2 | V | 6 | 675 |
| 1978 | WR18 | | 1978 | 12 | 01.27691 | 03 | 37 | 30.44 | +19 | 51 | 11.0 | | | 6 | 675 |
| 1978 | WS18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 36.82 | +21 | 08 | 36.2 | 17.5 | V | 6 | 675 |
| 1978 | WS18 | | 1978 | 12 | 01.27691 | 03 | 37 | 45.60 | +21 | 04 | 01.8 | | | 6 | 675 |
| 1978 | WT18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 49.20 | +16 | 38 | 34.4 | 18.0 | V | 6 | 675 |
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| 1978 | WU18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 50.89 | +18 | 09 | 00.8 | 18.2 | V | 6 | 675 |
| 1978 | WU18 | | 1978 | 12 | 01.27691 | 03 | 37 | 56.25 | +18 | 04 | 53.8 | | | 6 | 675 |
| 1978 | WV18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 52.25 | +17 | 14 | 07.4 | 18.0 | V | 6 | 675 |
| 1978 | WV18 | | 1978 | 12 | 01.27691 | 03 | 37 | 56.44 | +17 | 13 | 17.6 | | | 6 | 675 |
| 1978 | WW18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 57.17 | +20 | 32 | 22.0 | 16.5 | V | 6 | 675 |
| 1978 | WW18 | | 1978 | 12 | 01.27691 | 03 | 37 | 58.19 | +20 | 26 | 47.6 | | | 6 | 675 |
| 1978 | WX18 | * | 1978 | 11 | 30.26007 | 03 | 38 | 57.42 | +17 | 15 | 03.6 | 18.0 | V | 6 | 675 |
| 1978 | WX18 | | 1978 | 12 | 01.27691 | 03 | 38 | 05.52 | +17 | 12 | 00.3 | | | 6 | 675 |
| 1978 | WY18 | * | 1978 | 11 | 30.26007 | 03 | 39 | 35.16 | +16 | 36 | 44.7 | 18.0 | V | 6 | 675 |
| 1978 | WY18 | | 1978 | 12 | 01.27691 | 03 | 38 | 42.23 | +16 | 30 | 53.2 | | | 6 | 675 |
| 1978 | WZ18 | * | 1978 | 11 | 30.26007 | 03 | 39 | 46.55 | +18 | 19 | 45.3 | 16.2 | V | 6 | 675 |
| 1978 | WZ18 | | 1978 | 12 | 01.27691 | 03 | 38 | 50.24 | +18 | 13 | 25.0 | | | 6 | 675 |
| 1978 | WA19 | * | 1978 | 11 | 30.26007 | 03 | 40 | 02.82 | +17 | 08 | 54.6 | 18.2 | V | 6 | 675 |
| 1978 | WA19 | | 1978 | 12 | 01.27691 | 03 | 39 | 05.92 | +17 | 11 | 36.0 | | | 6 | 675 |
| 1978 | WB19 | * | 1978 | 11 | 30.26007 | 03 | 40 | 09.93 | +15 | 44 | 12.9 | 17.5 | V | 6 | 675 |
| 1978 | WB19 | | 1978 | 12 | 01.27691 | 03 | 39 | 09.20 | +15 | 44 | 51.4 | | | 6 | 675 |
| 1978 | WC19 | * | 1978 | 11 | 30.26007 | 03 | 40 | 19.74 | +21 | 10 | 29.9 | 18.5 | V | 6 | 675 |
| 1978 | WC19 | | 1978 | 12 | 01.27691 | 03 | 39 | 12.68 | +21 | 13 | 01.4 | | | 6 | 675 |
| 1978 | WD19 | * | 1978 | 11 | 30.26007 | 03 | 40 | 36.99 | +16 | 43 | 48.4 | 18.5 | V | 6 | 675 |
| 1978 | WD19 | | 1978 | 12 | 01.27691 | 03 | 39 | 41.17 | +16 | 37 | 03.8 | | | 6 | 675 |
| 1978 | WE19 | * | 1978 | 11 | 30.26007 | 03 | 40 | 46.44 | +19 | 06 | 16.7 | 17.5 | V | 6 | 675 |
| 1978 | WE19 | | 1978 | 12 | 01.27691 | 03 | 39 | 57.47 | +19 | 03 | 50.1 | | | 6 | 675 |
| 1978 | WF19 | * | 1978 | 11 | 30.26007 | 03 | 40 | 50.90 | +15 | 47 | 19.6 | 18.0 | V | 6 | 675 |
| 1978 | WF19 | | 1978 | 12 | 01.27691 | 03 | 39 | 49.72 | +15 | 45 | 50.4 | | | 6 | 675 |
| 1978 | WG19 | * | 1978 | 11 | 30.26007 | 03 | 40 | 52.99 | +21 | 15 | 43.6 | 18.2 | V | 6 | 675 |
| 1978 | WG19 | | 1978 | 12 | 01.27691 | 03 | 39 | 57.58 | +21 | 09 | 07.0 | | | 6 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1978 | WH19 | * | 1978 | 11 | 30.26007 | 03 | 41 | 04.50 | +16 | 42 | 58.8 | 18.0 V | 6 675 |
| 1978 | WH19 | | 1978 | 12 | 01.27691 | 03 | 40 | 01.80 | +16 | 46 | 02.1 | | 6 675 |
| 1978 | WJ19 | * | 1978 | 11 | 30.26007 | 03 | 41 | 08.26 | +15 | 43 | 08.8 | 17.5 V | 6 675 |
| 1978 | WJ19 | | 1978 | 12 | 01.27691 | 03 | 40 | 22.69 | +15 | 36 | 22.5 | | 6 675 |
| 1978 | WK19 | * | 1978 | 11 | 30.26007 | 03 | 41 | 13.68 | +20 | 32 | 34.4 | 17.5 V | 6 675 |
| 1978 | WK19 | | 1978 | 12 | 01.27691 | 03 | 40 | 12.27 | +20 | 31 | 49.9 | | 6 675 |
| 1978 | WL19 | * | 1978 | 11 | 30.26007 | 03 | 41 | 36.46 | +15 | 41 | 51.6 | 18.0 V | 6 675 |
| 1978 | WL19 | | 1978 | 12 | 01.27691 | 03 | 40 | 45.09 | +15 | 39 | 38.1 | | 6 675 |
| 1978 | WM19 | * | 1978 | 11 | 30.26007 | 03 | 41 | 39.18 | +19 | 32 | 56.8 | 16.8 V | 6 675 |
| 1978 | WM19 | | 1978 | 12 | 01.27691 | 03 | 40 | 35.16 | +19 | 33 | 55.9 | | 6 675 |
| 1978 | WN19 | * | 1978 | 11 | 30.26007 | 03 | 41 | 57.92 | +20 | 40 | 06.5 | 17.0 V | 6 675 |
| 1978 | WN19 | | 1978 | 12 | 01.27691 | 03 | 41 | 06.34 | +20 | 34 | 15.2 | | 6 675 |
| 1978 | WO19 | * | 1978 | 11 | 30.26007 | 03 | 42 | 09.16 | +18 | 42 | 49.2 | 16.2 V | 6 675 |
| 1978 | WO19 | | 1978 | 12 | 01.27691 | 03 | 41 | 17.65 | +18 | 40 | 31.1 | | 6 675 |
| 1978 | WP19 | * | 1978 | 11 | 30.26007 | 03 | 42 | 34.04 | +16 | 56 | 45.6 | 16.0 V | 6 675 |
| 1978 | WP19 | | 1978 | 12 | 01.27691 | 03 | 41 | 39.24 | +16 | 52 | 22.4 | | 6 675 |
| 1978 | XW | | 1978 | 11 | 30.26007 | 03 | 18 | 50.51 | +16 | 01 | 46.6 | 17.2 V | 6 675 |
| 1978 | XX | | 1978 | 11 | 30.26007 | 03 | 22 | 06.53 | +16 | 22 | 18.0 | 17.5 V | 6 675 |
| 1978 | XX | | 1978 | 12 | 01.27691 | 03 | 21 | 06.34 | +16 | 23 | 29.3 | | 6 675 |
| 1978 | XH1 | | 1978 | 11 | 30.26007 | 03 | 34 | 36.40 | +16 | 39 | 29.8 | 17.5 V | 6 675 |
| 1978 | XH1 | | 1978 | 12 | 01.27691 | 03 | 33 | 36.50 | +16 | 26 | 02.7 | | 6 675 |
| 1978 | XJ1 | | 1978 | 11 | 30.26007 | 03 | 35 | 07.91 | +18 | 04 | 06.2 | 17.0 V | 6 675 |
| 1978 | XJ1 | | 1978 | 12 | 01.27691 | 03 | 34 | 06.46 | +17 | 59 | 13.7 | | 6 675 |
| 1980 | TX3 | | 1992 | 02 | 02.44878 | 09 | 57 | 08.43 | +10 | 27 | 52.9 | 16.5 | 2 675 |
| 1980 | TX3 | | 1992 | 02 | 03.38941 | 09 | 56 | 24.38 | +10 | 31 | 53.9 | | 2 675 |
| 1980 | TX3 | | 1992 | 02 | 03.40747 | 09 | 56 | 23.37 | +10 | 31 | 57.9 | | 2 675 |
| 1981 | EK7 | | 1978 | 11 | 30.26007 | 03 | 34 | 09.73 | +17 | 29 | 40.8 | 18.2 V | 6 675 |
| 1981 | EK7 | | 1978 | 12 | 01.27691 | 03 | 33 | 23.11 | +17 | 26 | 10.5 | | 6 675 |
| 1981 | EH11 | | 1991 | 09 | 11.29878 | 23 | 09 | 41.24 | -03 | 56 | 31.7 | 16.2 | 9 675 |
| 1981 | EH11 | | 1991 | 09 | 11.35451 | 23 | 09 | 37.46 | -03 | 56 | 22.8 | | 9 675 |
| 1981 | EH11 | | 1991 | 09 | 17.22847 | 23 | 03 | 16.77 | -03 | 39 | 22.1 | | 9 675 |
| 1981 | EH11 | | 1991 | 09 | 17.27188 | 23 | 03 | 13.88 | -03 | 39 | 14.8 | | 9 675 |
| 1981 | EW20 | | 1978 | 11 | 30.26007 | 03 | 24 | 44.81 | +19 | 35 | 27.9 | 18.2 V | 6 675 |
| 1981 | EW20 | | 1978 | 12 | 01.27691 | 03 | 23 | 57.92 | +19 | 32 | 41.2 | | 6 675 |
| 1981 | EO40 | | 1991 | 09 | 11.29878 | 23 | 10 | 20.66 | -02 | 33 | 48.6 | 17.2 | 9 675 |
| 1981 | EO40 | | 1991 | 09 | 11.35451 | 23 | 10 | 18.30 | -02 | 34 | 33.5 | | 9 675 |
| 1981 | EO40 | | 1991 | 09 | 17.22847 | 23 | 06 | 30.16 | -03 | 52 | 38.7 | | 9 675 |
| 1981 | JO | | 1981 | 05 | 08.35938 | 14 | 55 | 12.19 | -16 | 41 | 47.9 | 16.5 | 6 675 |
| 1981 | JO | | 1981 | 05 | 09.31562 | 14 | 54 | 15.53 | -16 | 33 | 18.8 | | 6 675 |
| 1981 | JM2 | | 1981 | 05 | 08.35938 | 14 | 55 | 21.70 | -16 | 04 | 07.0 | | 6 675 |
| 1981 | JM2 | | 1981 | 05 | 09.31562 | 14 | 54 | 28.23 | -15 | 59 | 10.4 | | 6 675 |
| 1981 | JP2 | | 1981 | 05 | 08.35938 | 14 | 46 | 51.64 | -18 | 59 | 19.2 | | 6 675 |
| 1981 | JP2 | | 1981 | 05 | 09.28958 | 14 | 45 | 57.34 | -18 | 53 | 45.3 | | 6 675 |
| 1981 | JR2 | | 1981 | 05 | 08.33333 | 14 | 52 | 28.89 | -18 | 05 | 22.2 | | 6 675 |
| 1981 | JS2 | | 1981 | 05 | 08.35938 | 14 | 54 | 52.37 | -19 | 48 | 12.2 | | 6 675 |
| 1981 | JT2 | | 1981 | 05 | 08.35938 | 14 | 55 | 34.22 | -18 | 34 | 13.1 | | 6 675 |
| 1981 | JB3 | | 1981 | 05 | 08.35938 | 14 | 54 | 00.96 | -15 | 07 | 25.0 | | 6 675 |
| 1981 | JB3 | | 1981 | 05 | 09.31562 | 14 | 52 | 59.36 | -15 | 07 | 07.3 | | 6 675 |
| 1981 | JE3 | | 1981 | 05 | 08.35938 | 14 | 59 | 20.07 | -15 | 53 | 44.1 | | 6 675 |
| 1981 | JE3 | | 1981 | 05 | 09.31562 | 14 | 58 | 30.94 | -15 | 49 | 32.1 | | 6 675 |
| 1981 | JM3 | * | 1981 | 05 | 08.33333 | 14 | 47 | 00.85 | -15 | 58 | 30.3 | | 6 675 |
| 1981 | JM3 | | 1981 | 05 | 09.28958 | 14 | 46 | 02.30 | -15 | 55 | 07.5 | | 6 675 |
| 1981 | JN3 | * | 1981 | 05 | 08.35938 | 14 | 46 | 03.11 | -19 | 59 | 53.6 | 18.5 | 6 675 |
| 1981 | JN3 | | 1981 | 05 | 09.31562 | 14 | 45 | 04.93 | -19 | 53 | 13.0 | | 6 675 |
| 1981 | JO3 | * | 1981 | 05 | 08.35938 | 14 | 46 | 12.55 | -18 | 01 | 53.0 | 18.0 | 6 675 |
| 1981 | JO3 | | 1981 | 05 | 09.31562 | 14 | 45 | 19.62 | -17 | 54 | 52.9 | | 6 675 |
| 1981 | JP3 | * | 1981 | 05 | 08.35938 | 14 | 46 | 41.50 | -16 | 46 | 33.7 | 17.0 | 6 675 |
| 1981 | JP3 | | 1981 | 05 | 09.31562 | 14 | 45 | 53.26 | -16 | 38 | 59.2 | | 6 675 |
| 1981 | JQ3 | * | 1981 | 05 | 08.35938 | 14 | 46 | 45.04 | -15 | 53 | 52.8 | | 6 675 |

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| 1981 | JQ3 | | 1981 | 05 | 09.31562 | 14 | 45 | 50.61 | -15 | 52 | 32.0 | | 6 | 675 |
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| 1981 | JS3 | | 1981 | 05 | 09.31562 | 14 | 46 | 17.45 | -15 | 29 | 28.4 | | 6 | 675 |
| 1981 | JT3 | * | 1981 | 05 | 08.35938 | 14 | 47 | 18.83 | -19 | 22 | 28.7 | | 6 | 675 |
| 1981 | JT3 | | 1981 | 05 | 09.31562 | 14 | 46 | 21.07 | -19 | 18 | 20.1 | | 6 | 675 |
| 1981 | JU3 | * | 1981 | 05 | 08.35938 | 14 | 48 | 10.36 | -18 | 26 | 58.2 | 16.5 | 6 | 675 |
| 1981 | JU3 | | 1981 | 05 | 09.31562 | 14 | 47 | 16.41 | -18 | 22 | 11.5 | | 6 | 675 |
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| 1981 | JV3 | | 1981 | 05 | 09.31562 | 14 | 47 | 20.04 | -20 | 00 | 51.3 | | 6 | 675 |
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| 1981 | JX3 | | 1981 | 05 | 09.31562 | 14 | 48 | 18.79 | -19 | 17 | 25.5 | | 6 | 675 |
| 1981 | JY3 | * | 1981 | 05 | 08.35938 | 14 | 49 | 23.21 | -15 | 58 | 25.8 | 19.0 | 6 | 675 |
| 1981 | JY3 | | 1981 | 05 | 09.31562 | 14 | 48 | 38.56 | -15 | 55 | 14.4 | | 6 | 675 |
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| 1981 | JZ3 | | 1981 | 05 | 09.31562 | 14 | 48 | 42.83 | -18 | 10 | 42.7 | | 6 | 675 |
| 1981 | JA4 | * | 1981 | 05 | 08.35938 | 14 | 49 | 50.53 | -17 | 21 | 04.3 | | 6 | 675 |
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| 1981 | JC4 | * | 1981 | 05 | 08.35938 | 14 | 49 | 57.67 | -15 | 45 | 38.2 | 17.0 | 6 | 675 |
| 1981 | JC4 | | 1981 | 05 | 09.31562 | 14 | 49 | 00.71 | -15 | 39 | 26.6 | | 6 | 675 |
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| 1981 | JF4 | | 1981 | 05 | 09.31562 | 14 | 49 | 20.29 | -19 | 07 | 57.6 | | 6 | 675 |
| 1981 | JG4 | * | 1981 | 05 | 08.35938 | 14 | 50 | 41.80 | -18 | 06 | 41.2 | 17.0 | 6 | 675 |
| 1981 | JG4 | | 1981 | 05 | 09.31562 | 14 | 49 | 45.19 | -18 | 05 | 24.6 | | 6 | 675 |
| 1981 | JH4 | * | 1981 | 05 | 08.35938 | 14 | 51 | 34.55 | -20 | 07 | 37.0 | 16.5 | 6 | 675 |
| 1981 | JH4 | | 1981 | 05 | 09.31562 | 14 | 50 | 44.46 | -20 | 04 | 18.6 | | 6 | 675 |
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| 1981 | JK4 | * | 1981 | 05 | 08.35938 | 14 | 51 | 45.01 | -18 | 26 | 45.0 | | 6 | 675 |
| 1981 | JK4 | | 1981 | 05 | 09.31562 | 14 | 50 | 44.88 | -18 | 24 | 01.8 | | 6 | 675 |
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| 1981 | JL4 | | 1981 | 05 | 09.31562 | 14 | 52 | 02.10 | -14 | 47 | 58.2 | | 6 | 675 |
| 1981 | JM4 | * | 1981 | 05 | 08.35938 | 14 | 53 | 37.00 | -19 | 56 | 08.5 | 18.0 | 6 | 675 |
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| 1981 | JN4 | * | 1981 | 05 | 08.35938 | 14 | 54 | 07.53 | -17 | 45 | 12.3 | 17.0 | 6 | 675 |
| 1981 | JN4 | | 1981 | 05 | 09.31562 | 14 | 53 | 17.05 | -17 | 44 | 34.1 | | 6 | 675 |
| 1981 | JO4 | * | 1981 | 05 | 08.35938 | 14 | 54 | 23.58 | -17 | 06 | 28.5 | 19.5 | 6 | 675 |
| 1981 | JO4 | | 1981 | 05 | 09.31562 | 14 | 53 | 29.81 | -17 | 02 | 13.6 | | 6 | 675 |
| 1981 | JP4 | * | 1981 | 05 | 08.35938 | 14 | 54 | 53.90 | -16 | 26 | 25.6 | 17.0 | 6 | 675 |
| 1981 | JP4 | | 1981 | 05 | 09.31562 | 14 | 53 | 53.84 | -16 | 24 | 19.1 | | 6 | 675 |
| 1981 | JQ4 | * | 1981 | 05 | 08.35938 | 14 | 56 | 21.91 | -19 | 28 | 56.6 | 19.0 | 6 | 675 |
| 1981 | JQ4 | | 1981 | 05 | 09.31562 | 14 | 55 | 27.65 | -19 | 23 | 22.4 | | 6 | 675 |
| 1981 | JR4 | * | 1981 | 05 | 08.35938 | 14 | 56 | 56.43 | -17 | 02 | 05.1 | 18.0 | 6 | 675 |
| 1981 | JR4 | | 1981 | 05 | 09.31562 | 14 | 55 | 59.07 | -16 | 59 | 16.4 | | 6 | 675 |
| 1981 | JS4 | * | 1981 | 05 | 08.35938 | 14 | 56 | 57.87 | -16 | 29 | 28.8 | 17.0 | 6 | 675 |
| 1981 | JS4 | | 1981 | 05 | 09.31562 | 14 | 56 | 00.94 | -16 | 24 | 25.9 | | 6 | 675 |
| 1981 | JT4 | * | 1981 | 05 | 08.35938 | 14 | 57 | 02.39 | -18 | 34 | 42.9 | 18.0 | 6 | 675 |
| 1981 | JT4 | | 1981 | 05 | 09.31562 | 14 | 56 | 01.15 | -18 | 29 | 16.7 | | 6 | 675 |
| 1981 | JU4 | * | 1981 | 05 | 08.35938 | 14 | 57 | 02.49 | -14 | 18 | 50.9 | 17.0 | 6 | 675 |
| 1981 | JU4 | | 1981 | 05 | 09.31562 | 14 | 56 | 03.35 | -14 | 16 | 16.1 | | 6 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1981 JV4 | * | 1981 | 05 | 08.35938 | 14 | 57 | 05.03 | -17 | 22 | 09.1 | 17.0 | 6 675 |
| 1981 JV4 | | 1981 | 05 | 09.31562 | 14 | 56 | 17.40 | -17 | 13 | 38.9 | | 6 675 |
| 1981 JW4 | * | 1981 | 05 | 08.35938 | 14 | 57 | 14.49 | -18 | 14 | 06.6 | 18.0 | 6 675 |
| 1981 JW4 | | 1981 | 05 | 09.31562 | 14 | 56 | 26.21 | -18 | 05 | 24.1 | | 6 675 |
| 1981 JX4 | * | 1981 | 05 | 08.35938 | 14 | 57 | 36.34 | -16 | 38 | 25.3 | 17.0 | 6 675 |
| 1981 JX4 | | 1981 | 05 | 09.31562 | 14 | 56 | 40.28 | -16 | 34 | 58.0 | | 6 675 |
| 1981 JY4 | * | 1981 | 05 | 08.35938 | 14 | 58 | 03.35 | -18 | 18 | 50.3 | 19.0 | 6 675 |
| 1981 JY4 | | 1981 | 05 | 09.31562 | 14 | 57 | 15.20 | -18 | 17 | 22.1 | | 6 675 |
| 1981 JZ4 | * | 1981 | 05 | 08.35938 | 14 | 58 | 29.91 | -19 | 11 | 55.5 | 18.0 | 6 675 |
| 1981 JZ4 | | 1981 | 05 | 09.31562 | 14 | 57 | 33.68 | -19 | 06 | 16.5 | | 6 675 |
| 1981 JA5 | * | 1981 | 05 | 08.35938 | 14 | 58 | 46.36 | -17 | 58 | 39.6 | 17.0 | 6 675 |
| 1981 JA5 | | 1981 | 05 | 09.31562 | 14 | 57 | 52.29 | -17 | 56 | 34.7 | | 6 675 |
| 1981 JB5 | * | 1981 | 05 | 08.35938 | 14 | 58 | 52.43 | -15 | 21 | 04.7 | 18.0 | 6 675 |
| 1981 JB5 | | 1981 | 05 | 09.31562 | 14 | 58 | 00.77 | -15 | 16 | 07.5 | | 6 675 |
| 1981 JC5 | * | 1981 | 05 | 08.35938 | 14 | 59 | 24.59 | -16 | 28 | 45.3 | 17.0 | 6 675 |
| 1981 JC5 | | 1981 | 05 | 09.31562 | 14 | 58 | 36.85 | -16 | 24 | 56.5 | | 6 675 |
| 1981 JD5 | * | 1981 | 05 | 08.35938 | 14 | 59 | 32.45 | -16 | 37 | 50.7 | 19.0 | 6 675 |
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| 1981 JE5 | * | 1981 | 05 | 08.35938 | 14 | 59 | 59.75 | -17 | 11 | 51.3 | 17.0 | 6 675 |
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| 1981 JF5 | * | 1981 | 05 | 08.35938 | 15 | 00 | 30.65 | -16 | 07 | 35.0 | 17.0 | 6 675 |
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| 1981 JG5 | * | 1981 | 05 | 08.35938 | 15 | 00 | 41.13 | -17 | 52 | 32.9 | 19.0 | 6 675 |
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| 1981 JH5 | * | 1981 | 05 | 08.35938 | 15 | 00 | 53.48 | -15 | 09 | 02.6 | | 6 675 |
| 1981 JH5 | | 1981 | 05 | 09.31562 | 15 | 00 | 07.72 | -15 | 06 | 20.4 | | 6 675 |
| 1981 JJ5 | * | 1981 | 05 | 08.35938 | 15 | 01 | 54.04 | -18 | 51 | 04.7 | 19.0 | 6 675 |
| 1981 JJ5 | | 1981 | 05 | 09.31562 | 15 | 00 | 57.17 | -18 | 49 | 04.9 | | 6 675 |
| 1981 JK5 | * | 1981 | 05 | 08.35938 | 15 | 01 | 59.44 | -15 | 18 | 00.1 | 18.5 | 6 675 |
| 1981 JK5 | | 1981 | 05 | 09.31562 | 15 | 01 | 18.96 | -15 | 16 | 28.8 | | 6 675 |
| 1981 JL5 | * | 1981 | 05 | 08.35938 | 15 | 02 | 34.77 | -17 | 05 | 03.9 | | 6 675 |
| 1981 JL5 | | 1981 | 05 | 09.31562 | 15 | 01 | 35.75 | -17 | 04 | 57.1 | | 6 675 |
| 1981 JM5 | * | 1981 | 05 | 08.35938 | 15 | 03 | 18.35 | -16 | 29 | 37.9 | 18.5 | 6 675 |
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| 1981 JN5 | * | 1981 | 05 | 08.35938 | 15 | 03 | 24.04 | -16 | 04 | 43.9 | 18.0 | 6 675 |
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| 1981 JO5 | * | 1981 | 05 | 08.35938 | 15 | 03 | 31.82 | -16 | 12 | 36.2 | 19.0 | 6 675 |
| 1981 JO5 | | 1981 | 05 | 09.31562 | 15 | 02 | 34.67 | -16 | 12 | 07.0 | | 6 675 |
| 1981 JP5 | * | 1981 | 05 | 08.35938 | 15 | 03 | 33.36 | -17 | 07 | 42.9 | 18.5 | 6 675 |
| 1981 JP5 | | 1981 | 05 | 09.31562 | 15 | 02 | 44.19 | -17 | 01 | 04.5 | | 6 675 |
| 1981 JQ5 | * | 1981 | 05 | 08.35938 | 15 | 03 | 58.63 | -17 | 42 | 53.4 | 19.5 | 6 675 |
| 1981 JQ5 | | 1981 | 05 | 09.31562 | 15 | 03 | 10.09 | -17 | 39 | 13.0 | | 6 675 |
| 1981 JR5 | * | 1981 | 05 | 08.35938 | 15 | 04 | 33.30 | -14 | 18 | 40.4 | 17.0 | 6 675 |
| 1981 JR5 | | 1981 | 05 | 09.31562 | 15 | 03 | 44.53 | -14 | 16 | 05.7 | | 6 675 |
| 1981 JS5 | * | 1981 | 05 | 08.35938 | 15 | 04 | 36.40 | -16 | 06 | 36.6 | 18.0 | 6 675 |
| 1981 JS5 | | 1981 | 05 | 09.31562 | 15 | 03 | 49.51 | -16 | 03 | 06.9 | | 6 675 |
| 1981 JT5 | * | 1981 | 05 | 08.35938 | 15 | 05 | 12.61 | -17 | 54 | 53.1 | 17.0 | 6 675 |
| 1981 JT5 | | 1981 | 05 | 09.31562 | 15 | 04 | 28.62 | -17 | 47 | 00.2 | | 6 675 |
| 1981 JU5 | * | 1981 | 05 | 08.35938 | 15 | 05 | 15.73 | -18 | 49 | 35.6 | 17.0 | 6 675 |
| 1981 JU5 | | 1981 | 05 | 09.31562 | 15 | 04 | 20.80 | -18 | 42 | 44.4 | | 6 675 |
| 1981 JV5 | * | 1981 | 05 | 08.35938 | 15 | 05 | 25.55 | -16 | 38 | 51.6 | 18.0 | 6 675 |
| 1981 JV5 | | 1981 | 05 | 09.31562 | 15 | 04 | 23.58 | -16 | 36 | 19.5 | | 6 675 |
| 1981 JW5 | * | 1981 | 05 | 08.35938 | 15 | 06 | 38.31 | -14 | 58 | 03.4 | 16.0 | 6 675 |
| 1981 JW5 | | 1981 | 05 | 09.31562 | 15 | 05 | 08.69 | -15 | 10 | 48.7 | | 6 675 |
| 1981 JX5 | * | 1981 | 05 | 08.35938 | 15 | 07 | 00.07 | -17 | 26 | 14.3 | 18.5 | 6 675 |
| 1981 JX5 | | 1981 | 05 | 09.31562 | 15 | 06 | 12.91 | -17 | 23 | 23.4 | | 6 675 |
| 1981 JY5 | * | 1981 | 05 | 08.35938 | 15 | 07 | 05.35 | -15 | 16 | 30.3 | 18.5 | 6 675 |
| 1981 JY5 | | 1981 | 05 | 09.31562 | 15 | 06 | 15.24 | -15 | 11 | 38.2 | | 6 675 |
| 1981 JZ5 | * | 1981 | 05 | 08.35938 | 15 | 07 | 14.64 | -20 | 04 | 58.4 | 16.5 | 6 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1981 | JZ5 | | 1981 | 05 | 09.31562 | 15 | 06 | 16.83 | -19 | 59 | 34.4 | | 6 | 675 |
| 1981 | JA6 | * | 1981 | 05 | 08.35938 | 15 | 07 | 20.18 | -14 | 26 | 16.3 | 17.0 | 6 | 675 |
| 1981 | JA6 | | 1981 | 05 | 09.31562 | 15 | 06 | 34.84 | -14 | 20 | 47.5 | | 6 | 675 |
| 1981 | JB6 | * | 1981 | 05 | 08.35938 | 15 | 07 | 29.03 | -19 | 56 | 53.8 | 16.5 | 6 | 675 |
| 1981 | JB6 | | 1981 | 05 | 09.31562 | 15 | 06 | 30.47 | -19 | 57 | 18.5 | | 6 | 675 |
| 1981 | JC6 | * | 1981 | 05 | 08.35938 | 15 | 08 | 24.34 | -19 | 32 | 54.4 | 18.5 | 6 | 675 |
| 1981 | JC6 | | 1981 | 05 | 09.31562 | 15 | 07 | 17.83 | -19 | 31 | 23.5 | | 6 | 675 |
| 1981 | JD6 | * | 1981 | 05 | 08.35938 | 15 | 08 | 57.28 | -19 | 44 | 53.5 | 17.5 | 6 | 675 |
| 1981 | JD6 | | 1981 | 05 | 09.31562 | 15 | 07 | 53.33 | -19 | 42 | 59.9 | | 6 | 675 |
| 1981 | JE6 | * | 1981 | 05 | 08.35938 | 15 | 09 | 01.59 | -17 | 31 | 37.7 | 17.0 | 6 | 675 |
| 1981 | JE6 | | 1981 | 05 | 09.31562 | 15 | 08 | 04.18 | -17 | 28 | 18.8 | | 6 | 675 |
| 1981 | JF6 | * | 1981 | 05 | 08.35938 | 15 | 09 | 44.46 | -17 | 33 | 07.5 | 16.5 | 6 | 675 |
| 1981 | JF6 | | 1981 | 05 | 09.31562 | 15 | 08 | 47.18 | -17 | 32 | 30.2 | | 6 | 675 |
| 1981 | JG6 | * | 1981 | 05 | 08.35938 | 15 | 10 | 39.62 | -14 | 27 | 22.6 | 17.0 | 6 | 675 |
| 1981 | JG6 | | 1981 | 05 | 09.31562 | 15 | 09 | 52.82 | -14 | 20 | 28.8 | | 6 | 675 |
| 1982 | UT6 | | 1991 | 09 | 11.29878 | 23 | 00 | 40.37 | -07 | 00 | 00.2 | 17.2 | 9 | 675 |
| 1982 | UT6 | | 1991 | 09 | 11.35451 | 23 | 00 | 37.44 | -07 | 00 | 15.0 | | 9 | 675 |
| 1982 | UT6 | | 1991 | 09 | 17.27188 | 22 | 55 | 56.90 | -07 | 24 | 29.5 | | 9 | 675 |
| 1982 | UY6 | | 1981 | 05 | 08.35938 | 14 | 51 | 46.37 | -18 | 57 | 39.6 | | 6 | 675 |
| 1983 | WJ | | 1978 | 11 | 30.26007 | 03 | 37 | 27.95 | +16 | 11 | 08.5 | 16.2 V | 6 | 675 |
| 1983 | WJ | | 1978 | 12 | 01.27691 | 03 | 36 | 35.73 | +16 | 09 | 34.9 | | 6 | 675 |
| 1984 | SX5 | | 1991 | 09 | 11.29878 | 23 | 25 | 35.57 | -05 | 03 | 22.3 | 16.8 | 9 | 675 |
| 1984 | SX5 | | 1991 | 09 | 11.35451 | 23 | 25 | 32.61 | -05 | 03 | 54.5 | | 9 | 675 |
| 1984 | SX5 | | 1991 | 09 | 15.38958 | 23 | 22 | 08.63 | -05 | 42 | 30.2 | | 9 | 675 |
| 1984 | SX5 | | 1991 | 09 | 17.22847 | 23 | 20 | 36.18 | -05 | 59 | 55.1 | | 9 | 675 |
| 1984 | SX5 | | 1991 | 09 | 17.27188 | 23 | 20 | 33.84 | -06 | 00 | 18.6 | | 9 | 675 |
| 1984 | SX5 | | 1991 | 09 | 17.33941 | 23 | 20 | 30.29 | -06 | 00 | 57.3 | 16.8 | 9 | 675 |
| 1984 | SX5 | | 1991 | 09 | 17.37222 | 23 | 20 | 28.55 | -06 | 01 | 15.3 | | 9 | 675 |
| 1985 | CH2 | | 1991 | 09 | 11.29878 | 23 | 09 | 55.41 | -09 | 01 | 47.6 | 18.0 | 9 | 675 |
| 1985 | CH2 | | 1991 | 09 | 11.35451 | 23 | 09 | 51.37 | -09 | 02 | 23.4 | | 9 | 675 |
| 1986 | PD1 | | 1986 | 08 | 02.38021 | 22 | 03 | 51.08 | -12 | 33 | 42.9 | | 2 | 675 |
| 1986 | PD1 | | 1986 | 08 | 02.40278 | 22 | 03 | 50.22 | -12 | 33 | 57.9 | | 2 | 675 |
| 1986 | QB1 | | 1991 | 09 | 15.35226 | 23 | 41 | 28.28 | -07 | 02 | 45.8 | 17.0 | 9 | 675 |
| 1986 | QB1 | | 1991 | 09 | 15.38958 | 23 | 41 | 26.44 | -07 | 02 | 56.5 | | 9 | 675 |
| 1986 | QB1 | | 1991 | 09 | 17.33941 | 23 | 39 | 52.35 | -07 | 11 | 58.6 | 16.5 | 9 | 675 |
| 1986 | QB1 | | 1991 | 09 | 17.37222 | 23 | 39 | 50.73 | -07 | 12 | 07.6 | | 9 | 675 |
| 1986 | TN1 | | 1981 | 05 | 08.35938 | 15 | 10 | 25.79 | -20 | 13 | 51.5 | | 6 | 675 |
| 1986 | TN1 | | 1981 | 05 | 09.31562 | 15 | 09 | 31.86 | -20 | 04 | 25.5 | | 6 | 675 |
| 1986 | TL4 | | 1981 | 05 | 08.35938 | 15 | 01 | 00.69 | -15 | 47 | 11.9 | | 6 | 675 |
| 1986 | TL4 | | 1981 | 05 | 09.31562 | 15 | 00 | 03.60 | -15 | 44 | 06.7 | | 6 | 675 |
| 1986 | TR6 | | 1990 | 01 | 26.46927 | 10 | 41 | 33.00 | -04 | 59 | 26.0 | 17.9 | 3 | 675 |
| 1986 | TR6 | | 1990 | 01 | 26.52274 | 10 | 41 | 31.75 | -04 | 59 | 26.8 | | 3 | 675 |
| 1986 | TR6 | | 1990 | 01 | 28.45052 | 10 | 40 | 47.64 | -04 | 59 | 39.3 | | 3 | 675 |
| 1986 | TR6 | | 1990 | 01 | 28.48681 | 10 | 40 | 46.75 | -04 | 59 | 38.0 | | 3 | 675 |
| 1986 | TR6 | | 1990 | 02 | 20.36267 | 10 | 30 | 01.54 | -04 | 36 | 35.5 | 17.7 | 3 | 675 |
| 1986 | TR6 | | 1990 | 02 | 20.39531 | 10 | 30 | 00.51 | -04 | 36 | 31.7 | | 3 | 675 |
| 1986 | TR6 | | 1990 | 03 | 27.17378 | 10 | 13 | 31.66 | -03 | 01 | 59.0 | 17.9 | 3 | 675 |
| 1986 | TR6 | | 1990 | 03 | 27.20573 | 10 | 13 | 30.94 | -03 | 01 | 53.1 | | 3 | 675 |
| 1987 | QZ1 | | 1991 | 09 | 13.39444 | 00 | 08 | 42.89 | +07 | 55 | 52.2 | 17.2 | 9 | 675 |
| 1987 | QZ1 | | 1991 | 09 | 13.43212 | 00 | 08 | 40.81 | +07 | 55 | 48.6 | | 9 | 675 |
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| 1987 | QZ1 | | 1991 | 09 | 15.40851 | 00 | 06 | 56.30 | +07 | 52 | 38.4 | | 9 | 675 |
| 1987 | QS7 | | 1978 | 11 | 30.26007 | 03 | 23 | 36.27 | +15 | 39 | 41.6 | 17.5 V | 6 | 675 |
| 1987 | QS7 | | 1978 | 12 | 01.27691 | 03 | 22 | 47.68 | +15 | 36 | 49.2 | | 6 | 675 |
| 1987 | QW7 | | 1991 | 09 | 11.29878 | 23 | 08 | 54.98 | -01 | 44 | 41.3 | 16.8 | 9 | 675 |
| 1987 | QW7 | | 1991 | 09 | 11.35451 | 23 | 08 | 51.90 | -01 | 44 | 59.4 | | 9 | 675 |
| 1987 | QW7 | | 1991 | 09 | 17.22847 | 23 | 04 | 11.84 | -02 | 20 | 55.0 | | 9 | 675 |
| 1987 | QW7 | | 1991 | 09 | 17.27188 | 23 | 04 | 09.70 | -02 | 21 | 11.4 | | 9 | 675 |
| 1987 | RA1 | | 1978 | 11 | 30.26007 | 03 | 36 | 03.43 | +20 | 04 | 16.0 | 16.5 V | 6 | 675 |

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| 1987 | RA1 | | 1978 | 12 | 01.27691 | 03 | 35 | 11.81 | +20 | 01 | 01.8 | | | 6 | 675 |
| 1987 | SG2 | | 1991 | 09 | 17.27188 | 23 | 26 | 24.28 | -04 | 37 | 22.8 | | | 9 | 675 |
| 1988 | PL | | 1981 | 05 | 08.35938 | 14 | 49 | 18.94 | -15 | 02 | 50.5 | | | 6 | 675 |
| 1988 | PL | | 1981 | 05 | 09.31562 | 14 | 48 | 18.34 | -14 | 57 | 19.3 | | | 6 | 675 |
| 1988 | PZ1 | | 1981 | 05 | 08.38542 | 14 | 45 | 35.82 | -16 | 15 | 26.0 | | | 6 | 675 |
| 1988 | RD5 | | 1981 | 05 | 08.35938 | 14 | 57 | 42.79 | -16 | 34 | 23.1 | | | 6 | 675 |
| 1988 | RD5 | | 1981 | 05 | 09.31562 | 14 | 56 | 58.45 | -16 | 31 | 36.1 | | | 6 | 675 |
| 1988 | SK2 | | 1978 | 11 | 30.26007 | 03 | 26 | 59.89 | +16 | 50 | 43.2 | 19.5 | V | 6 | 675 |
| 1988 | SK2 | | 1978 | 12 | 01.27691 | 03 | 26 | 30.17 | +16 | 48 | 59.4 | | | 6 | 675 |
| 1988 | SW2 | | 1981 | 05 | 08.35938 | 15 | 09 | 09.73 | -17 | 15 | 39.5 | | | 6 | 675 |
| 1988 | SW2 | | 1981 | 05 | 09.31562 | 15 | 08 | 23.62 | -17 | 13 | 03.9 | | | 6 | 675 |
| 1989 | BK2 | * | 1989 | 01 | 31.28333 | 07 | 54 | 11.56 | +21 | 40 | 55.2 | 17.5 | | 3 | 675 |
| 1989 | BK2 | | 1989 | 01 | 31.32144 | 07 | 54 | 10.03 | +21 | 41 | 02.0 | | | 3 | 675 |
| 1989 | CA | | 1991 | 09 | 11.29878 | 23 | 12 | 26.62 | -02 | 23 | 56.2 | 16.8 | | 9 | 675 |
| 1989 | CA | | 1991 | 09 | 11.35451 | 23 | 12 | 23.48 | -02 | 24 | 17.7 | | | 9 | 675 |
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| 1991 RO22 | * | 1991 | 09 | 15.35226 | 23 | 27 | 21.02 | -07 | 22 | 13.8 | 18.0 | 9 675 |

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| 1991 | RS22 | * | 1991 | 09 | 15.35226 | 23 | 30 | 55.10 | -10 | 27 | 58.7 | 17.8 | 9 | 675 |
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| 1991 | RS22 | | 1991 | 09 | 17.37222 | 23 | 29 | 37.20 | -10 | 49 | 07.0 | | 9 | 675 |
| 1991 | RT22 | * | 1991 | 09 | 15.35226 | 23 | 32 | 07.86 | -07 | 49 | 53.7 | 18.5 | 9 | 675 |
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| 1991 | RT22 | | 1991 | 09 | 17.33941 | 23 | 30 | 31.35 | -07 | 58 | 56.3 | 18.5 | 9 | 675 |
| 1991 | RT22 | | 1991 | 09 | 17.37222 | 23 | 30 | 29.77 | -07 | 59 | 03.4 | | 9 | 675 |
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| 1991 | RY22 | | 1991 | 09 | 17.37222 | 23 | 33 | 10.20 | -09 | 01 | 12.4 | | 9 | 675 |
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| 1991 | RF23 | | 1991 | 09 | 17.37222 | 23 36 18.37 | -12 | 57 | 33.5 | | 9 675 |
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| 1991 | RN23 | | 1991 | 09 | 15.38958 | 23 43 17.70 | -08 | 18 | 22.5 | | 9 675 |
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| 1991 | RN23 | | 1991 | 09 | 17.37222 | 23 41 43.37 | -08 | 30 | 11.5 | | 9 675 |
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| 1991 | TL1 | | 1991 | 11 | 13.28715 | 02 | 20 | 32.15 | -05 | 34 | 17.3 | 17.0 | 3 | 675 |
| 1991 | TL1 | | 1991 | 11 | 13.32535 | 02 | 20 | 30.84 | -05 | 34 | 57.3 | | 3 | 675 |
| 1991 | TL1 | | 1991 | 12 | 01.23906 | 02 | 14 | 27.90 | -09 | 21 | 49.8 | 17.0 | 3 | 675 |
| 1991 | TL1 | | 1991 | 12 | 01.27483 | 02 | 14 | 27.68 | -09 | 22 | 04.6 | | 3 | 675 |
| 1991 | TL1 | | 1991 | 12 | 03.23438 | 02 | 14 | 22.04 | -09 | 36 | 11.3 | | 3 | 675 |
| 1991 | UP1 | | 1981 | 05 | 08.35938 | 14 | 56 | 02.70 | -15 | 52 | 04.1 | 16.5 | 6 | 675 |
| 1991 | UP1 | | 1981 | 05 | 09.31562 | 14 | 55 | 13.48 | -15 | 44 | 45.3 | | 6 | 675 |
| 1991 | VB | | 1991 | 12 | 02.15434 | 02 | 22 | 14.40 | +20 | 10 | 53.1 | 18.5 | 3 | 675 |
| 1991 | VB | | 1991 | 12 | 03.22865 | 02 | 23 | 41.53 | +19 | 57 | 39.0 | | 3 | 675 |
| 1991 | VB3 | | 1978 | 11 | 30.26007 | 03 | 32 | 25.96 | +20 | 42 | 14.9 | 15.8 V | 6 | 675 |
| 1991 | VB3 | | 1978 | 12 | 01.27691 | 03 | 31 | 25.43 | +20 | 34 | 40.7 | | 6 | 675 |
| 1991 | XC | | 1992 | 02 | 04.25989 | 07 | 53 | 51.22 | +59 | 01 | 36.5 | 16.8 | 3 | 675 |
| 1991 | XC | | 1992 | 02 | 05.22222 | 07 | 52 | 44.37 | +58 | 42 | 31.7 | | 3 | 675 |
| 1991 | XC | | 1992 | 02 | 05.25989 | 07 | 52 | 41.59 | +58 | 41 | 49.8 | | 3 | 675 |
| 1991 | XX | | 1989 | 11 | 05.34618 | 02 | 35 | 25.03 | +26 | 28 | 49.4 | 16.8 | 3 | 675 |
| 1991 | XX | | 1989 | 11 | 05.38263 | 02 | 35 | 23.76 | +26 | 28 | 44.0 | | 3 | 675 |
| 1991 | XX | | 1989 | 11 | 24.23506 | 02 | 25 | 20.60 | +25 | 36 | 24.6 | 17 | 3 | 675 |
| 1991 | XX | | 1989 | 11 | 24.27048 | 02 | 25 | 19.58 | +25 | 36 | 20.2 | | 3 | 675 |
| 1991 | XX | | 1989 | 11 | 25.23541 | 02 | 24 | 52.26 | +25 | 33 | 24.1 | | 3 | 675 |
| 1991 | XX | | 1989 | 11 | 25.27188 | 02 | 24 | 51.27 | +25 | 33 | 20.5 | | 3 | 675 |
| 1991 | XX | | 1992 | 02 | 05.13055 | 05 | 48 | 08.40 | +30 | 56 | 08.3 | 18.2 | 3 | 675 |
| 1991 | XX | | 1992 | 02 | 05.18541 | 05 | 48 | 07.67 | +30 | 56 | 06.1 | | 3 | 675 |
| 1991 | XX | | 1992 | 02 | 08.11579 | 05 | 47 | 23.61 | +30 | 52 | 04.0 | | 3 | 675 |
| 1991 | XX | | 1992 | 02 | 08.17222 | 05 | 47 | 22.78 | +30 | 51 | 59.2 | | 3 | 675 |
| 1991 | XK1 | * | 1991 | 12 | 02.17205 | 03 | 06 | 37.17 | +21 | 39 | 44.7 | 17.5 | 3 | 675 |
| 1991 | XK1 | | 1991 | 12 | 02.20347 | 03 | 06 | 35.70 | +21 | 39 | 00.4 | | 3 | 675 |
| 1991 | XK1 | | 1991 | 12 | 03.25920 | 03 | 05 | 49.19 | +21 | 12 | 12.7 | | 3 | 675 |
| 1991 | YA | | 1992 | 02 | 04.12586 | 04 | 56 | 32.56 | -00 | 04 | 08.8 | | 3 | 675 |
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| 1991 | YX | | 1991 | 12 | 03.44913 | 07 | 41 | 22.86 | +14 | 59 | 40.2 | 17.5 | 3 | 675 |
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| 1992 | AA | | 1992 | 02 | 04.16631 | 05 | 41 | 08.51 | +33 | 24 | 17.1 | 16.5 | 3 | 675 |
| 1992 | AA | | 1992 | 02 | 04.22188 | 05 | 41 | 17.66 | +33 | 25 | 17.5 | | 3 | 675 |
| 1992 | AA | | 1992 | 02 | 05.16996 | 05 | 44 | 09.56 | +33 | 42 | 39.3 | | 3 | 675 |
| 1992 | AB | | 1992 | 02 | 04.15329 | 03 | 51 | 32.62 | +33 | 40 | 06.2 | 18 | 3 | 675 |
| 1992 | AB | | 1992 | 02 | 05.11493 | 03 | 51 | 21.58 | +34 | 06 | 41.1 | | 3 | 675 |
| 1992 | AB | | 1992 | 02 | 05.15451 | 03 | 51 | 20.97 | +34 | 07 | 48.9 | | 3 | 675 |
| 1992 | AD | | 1989 | 11 | 06.37014 | 05 | 57 | 28.92 | +07 | 35 | 07.1 | | 7 | 675 |
| 1992 | AD | | 1989 | 11 | 06.39097 | 05 | 57 | 28.74 | +07 | 35 | 06.4 | | 7 | 675 |
| 1992 | AD | | 1989 | 11 | 06.41181 | 05 | 57 | 28.56 | +07 | 35 | 05.8 | | 7 | 675 |
| 1992 | AD | | 1991 | 01 | 19.23874 | 06 | 48 | 31.29 | +15 | 00 | 48.1 | 17.6 | 3 | 675 |
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| 1992 | AD | | 1992 | 02 | 05.35295 | 08 | 03 | 18.13 | +21 | 00 | 50.1 | | 3 | 675 |
| 1992 | AG | | 1992 | 01 | 10.39728 | 07 | 59 | 33.85 | +30 | 13 | 49.9 | 15.0 | 2 | 675 |
| 1992 | AG | | 1992 | 01 | 10.42135 | 07 | 59 | 32.09 | +30 | 14 | 29.5 | | 2 | 675 |
| 1992 | AG | | 1992 | 01 | 11.41771 | 07 | 58 | 25.90 | +30 | 43 | 10.5 | | 2 | 675 |
| 1992 | AG | | 1992 | 01 | 30.21823 | 07 | 36 | 56.01 | +38 | 28 | 23.5 | 15.0 | 2 | 675 |
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| 1992 | AG | | 1992 | 02 | 01.28802 | 07 | 34 | 51.75 | +39 | 08 | 00.7 | | 2 | 675 |
| 1992 | AM | | 1992 | 01 | 30.12899 | 06 | 38 | 52.91 | +33 | 20 | 05.3 | 16.5 | 2 | 675 |
| 1992 | AM | | 1992 | 01 | 30.15451 | 06 | 38 | 51.78 | +33 | 20 | 25.9 | | 2 | 675 |
| 1992 | AN | | 1992 | 01 | 30.16701 | 06 | 42 | 43.32 | +19 | 11 | 57.1 | 16.5 | 2 | 675 |
| 1992 | AN | | 1992 | 01 | 30.18872 | 06 | 42 | 42.30 | +19 | 12 | 10.9 | | 2 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 1992 AN | | 1992 | 02 | 01.17361 | 06 | 41 | 12.85 | +19 | 34 | 26.0 | | 2 | 675 |
| 1992 AO | | 1992 | 01 | 30.17257 | 06 | 57 | 35.76 | +14 | 20 | 13.2 | 16.0 | 2 | 675 |
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| 1992 AO | | 1992 | 02 | 01.22448 | 06 | 56 | 03.17 | +14 | 49 | 55.4 | | 2 | 675 |
| 1992 AQ | | 1992 | 01 | 31.20451 | 07 | 08 | 11.81 | +34 | 47 | 19.4 | 16.5 | 2 | 675 |
| 1992 AQ | | 1992 | 01 | 31.22899 | 07 | 08 | 10.45 | +34 | 47 | 49.5 | | 2 | 675 |
| 1992 AQ | | 1992 | 02 | 01.18455 | 07 | 07 | 20.50 | +35 | 07 | 37.6 | | 2 | 675 |
| 1992 AQ | | 1992 | 02 | 01.20660 | 07 | 07 | 19.20 | +35 | 08 | 04.9 | | 2 | 675 |
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| 1992 AX | | 1992 | 02 | 04.30365 | 07 | 49 | 11.63 | +24 | 27 | 20.7 | 16.5 | 3 | 675 |
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| 1992 AU1 | * | 1992 | 01 | 09.41441 | 07 | 48 | 43.88 | +43 | 28 | 14.5 | 15.0 | 2 | 675 |
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| 1992 AU1 | | 1992 | 01 | 11.25330 | 07 | 46 | 36.58 | +44 | 21 | 42.0 | | 2 | 675 |
| 1992 AU1 | | 1992 | 01 | 11.40625 | 07 | 46 | 24.74 | +44 | 26 | 05.0 | | 2 | 675 |
| 1992 AU1 | | 1992 | 01 | 30.20625 | 07 | 22 | 58.25 | +51 | 32 | 03.3 | 15.0 | 2 | 675 |
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| 1992 AU1 | | 1992 | 02 | 01.25781 | 07 | 20 | 46.44 | +52 | 03 | 20.4 | | 2 | 675 |
| 1992 AV1 | * | 1992 | 01 | 09.40851 | 07 | 25 | 12.97 | +20 | 24 | 17.9 | 16.0 | 2 | 675 |
| 1992 AV1 | | 1992 | 01 | 09.43681 | 07 | 25 | 10.35 | +20 | 25 | 00.5 | | 2 | 675 |
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| 1992 AV1 | | 1992 | 01 | 11.24705 | 07 | 22 | 41.29 | +21 | 11 | 26.5 | | 2 | 675 |
| 1992 AV1 | | 1992 | 01 | 11.39288 | 07 | 22 | 28.59 | +21 | 15 | 11.9 | | 2 | 675 |
| 1992 AV1 | | 1992 | 01 | 30.17795 | 06 | 58 | 33.83 | +28 | 36 | 44.1 | 16.0 | 2 | 675 |
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| 1992 AV1 | | 1992 | 02 | 01.26510 | 06 | 56 | 29.98 | +29 | 18 | 11.7 | | 2 | 675 |
| 1992 AX1 | * | 1992 | 01 | 10.47674 | 08 | 16 | 00.79 | -03 | 41 | 41.6 | 16.5 | 2 | 675 |
| 1992 AX1 | | 1992 | 01 | 10.51372 | 08 | 15 | 58.63 | -03 | 40 | 59.8 | | 2 | 675 |
| 1992 AX1 | | 1992 | 01 | 29.37170 | 07 | 57 | 51.56 | +03 | 08 | 11.2 | 16.5 | 2 | 675 |
| 1992 AX1 | | 1992 | 01 | 29.39497 | 07 | 57 | 50.15 | +03 | 08 | 43.3 | | 2 | 675 |
| 1992 AX1 | | 1992 | 01 | 29.41840 | 07 | 57 | 48.97 | +03 | 09 | 16.8 | | 2 | 675 |
| 1992 AX1 | | 1992 | 01 | 30.25417 | 07 | 57 | 06.06 | +03 | 28 | 52.5 | | 2 | 675 |
| 1992 BF1 | * | 1992 | 01 | 29.49132 | 09 | 53 | 08.54 | +22 | 00 | 21.8 | 16.5 | 2 | 675 |
| 1992 BF1 | | 1992 | 01 | 30.43125 | 09 | 52 | 30.84 | +22 | 22 | 34.7 | | 2 | 675 |
| 1992 BF1 | | 1992 | 01 | 30.45538 | 09 | 52 | 29.51 | +22 | 23 | 08.1 | | 2 | 675 |
| 1992 BF1 | | 1992 | 02 | 02.44306 | 09 | 50 | 18.88 | +23 | 34 | 21.3 | | 2 | 675 |
| 1992 BF1 | | 1992 | 02 | 02.46563 | 09 | 50 | 17.77 | +23 | 34 | 52.5 | | 2 | 675 |
| 1992 BG1 | * | 1992 | 01 | 30.20625 | 07 | 19 | 07.28 | +51 | 58 | 05.7 | 16.5 | 2 | 675 |
| 1992 BG1 | | 1992 | 01 | 30.23073 | 07 | 19 | 05.84 | +51 | 58 | 05.1 | | 2 | 675 |
| 1992 BG1 | | 1992 | 02 | 01.25781 | 07 | 17 | 04.27 | +51 | 57 | 03.9 | | 2 | 675 |
| 1992 BH1 | * | 1992 | 01 | 30.21823 | 07 | 36 | 00.00 | +37 | 35 | 30.1 | 16.5 | 2 | 675 |
| 1992 BH1 | | 1992 | 01 | 30.24271 | 07 | 35 | 58.29 | +37 | 35 | 18.9 | | 2 | 675 |
| 1992 BH1 | | 1992 | 02 | 01.28802 | 07 | 33 | 50.36 | +37 | 20 | 03.3 | | 2 | 675 |
| 1992 BJ1 | | 1992 | 01 | 29.44774 | 09 | 09 | 58.08 | +22 | 18 | 33.3 | 16.5 | 2 | 675 |
| 1992 BJ1 | | 1992 | 01 | 29.47222 | 09 | 09 | 56.68 | +22 | 18 | 39.3 | | 2 | 675 |
| 1992 BJ1 | | 1992 | 01 | 31.45156 | 09 | 08 | 03.36 | +22 | 29 | 40.2 | | 2 | 675 |
| 1992 BJ1 | | 1992 | 01 | 31.47431 | 09 | 08 | 01.93 | +22 | 29 | 46.1 | | 2 | 675 |
| 1992 BL1 | * | 1992 | 01 | 30.46806 | 10 | 26 | 26.81 | +12 | 49 | 24.5 | 15.5 | 2 | 675 |
| 1992 BL1 | | 1992 | 01 | 30.50764 | 10 | 26 | 24.97 | +12 | 50 | 19.6 | | 2 | 675 |
| 1992 BL1 | | 1992 | 01 | 31.53733 | 10 | 25 | 41.40 | +13 | 14 | 14.0 | | 2 | 675 |
| 1992 BM1 | * | 1992 | 01 | 29.48455 | 09 | 38 | 15.23 | +06 | 18 | 40.4 | 16.0 | 2 | 675 |
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| 1992 BM1 | | 1992 | 01 | 30.44288 | 09 | 37 | 23.31 | +06 | 34 | 56.2 | | 2 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1992 | BN1 | * | 1992 | 01 | 29.48455 | 09 | 50 | 43.23 | +03 | 44 | 41.8 | 17 | 2 | 675 |
| 1992 | BN1 | | 1992 | 01 | 30.41979 | 09 | 50 | 02.13 | +04 | 05 | 01.0 | | 2 | 675 |
| 1992 | BN1 | | 1992 | 01 | 30.44288 | 09 | 50 | 01.06 | +04 | 05 | 31.2 | | 2 | 675 |
| 1992 | BO1 | * | 1992 | 01 | 31.28472 | 07 | 02 | 37.71 | +34 | 35 | 54.9 | 16.5 | 2 | 675 |
| 1992 | BO1 | | 1992 | 02 | 01.18455 | 07 | 01 | 47.27 | +34 | 25 | 53.4 | | 2 | 675 |
| 1992 | BO1 | | 1992 | 02 | 01.20660 | 07 | 01 | 46.00 | +34 | 25 | 38.0 | | 2 | 675 |
| 1992 | BP1 | * | 1992 | 01 | 31.28472 | 07 | 12 | 01.91 | +33 | 28 | 56.3 | 16.0 | 2 | 675 |
| 1992 | BP1 | | 1992 | 02 | 01.18455 | 07 | 10 | 53.16 | +33 | 21 | 23.3 | | 2 | 675 |
| 1992 | BP1 | | 1992 | 02 | 01.20600 | 07 | 10 | 51.44 | +33 | 21 | 12.9 | | 2 | 675 |
| 1992 | BQ1 | * | 1992 | 01 | 30.22431 | 07 | 46 | 48.65 | -02 | 38 | 32.0 | 16.0 | 2 | 675 |
| 1992 | BQ1 | | 1992 | 01 | 30.24826 | 07 | 46 | 47.42 | -02 | 38 | 19.3 | | 2 | 675 |
| 1992 | BQ1 | | 1992 | 01 | 31.30208 | 07 | 45 | 58.01 | -02 | 28 | 50.1 | | 2 | 675 |
| 1992 | BQ1 | | 1992 | 01 | 31.32500 | 07 | 45 | 57.00 | -02 | 28 | 38.1 | | 2 | 675 |
| 1992 | BS1 | * | 1992 | 01 | 30.22431 | 07 | 46 | 05.79 | -02 | 39 | 25.5 | 16.5 | 2 | 675 |
| 1992 | BS1 | | 1992 | 01 | 30.24826 | 07 | 46 | 04.42 | -02 | 39 | 15.9 | | 2 | 675 |
| 1992 | BS1 | | 1992 | 01 | 31.30208 | 07 | 45 | 13.79 | -02 | 32 | 57.2 | | 2 | 675 |
| 1992 | BS1 | | 1992 | 01 | 31.32500 | 07 | 45 | 12.64 | -02 | 32 | 47.8 | | 2 | 675 |
| 1992 | BT1 | * | 1992 | 01 | 30.19410 | 06 | 55 | 37.14 | +11 | 08 | 43.0 | 17.0 | 2 | 675 |
| 1992 | BT1 | | 1992 | 01 | 31.19792 | 06 | 54 | 54.70 | +11 | 12 | 13.3 | | 2 | 675 |
| 1992 | BT1 | | 1992 | 01 | 31.22205 | 06 | 54 | 53.58 | +11 | 12 | 19.7 | | 2 | 675 |
| 1992 | BU1 | * | 1992 | 01 | 30.37500 | 08 | 46 | 07.13 | +26 | 28 | 42.5 | 16.5 | 2 | 675 |
| 1992 | BU1 | | 1992 | 01 | 30.39757 | 08 | 46 | 05.43 | +26 | 28 | 47.9 | | 2 | 675 |
| 1992 | BU1 | | 1992 | 02 | 02.43194 | 08 | 42 | 28.01 | +26 | 38 | 31.4 | | 2 | 675 |
| 1992 | BU1 | | 1992 | 02 | 02.45451 | 08 | 42 | 26.40 | +26 | 38 | 34.1 | | 2 | 675 |
| 1992 | CC1 | * | 1992 | 02 | 09.51649 | 12 | 20 | 31.44 | +21 | 04 | 37.6 | 17.7 | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 09.54983 | 12 | 20 | 26.32 | +21 | 04 | 30.2 | | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 25.31197 | 11 | 33 | 09.37 | +19 | 28 | 38.9 | 16.8 | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 25.34131 | 11 | 33 | 03.37 | +19 | 28 | 22.6 | 16.8 | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 26.27517 | 11 | 29 | 57.64 | +19 | 19 | 50.6 | 17.8 | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 26.30764 | 11 | 29 | 50.99 | +19 | 19 | 31.0 | 17.8 | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 26.41545 | 11 | 29 | 29.05 | +19 | 18 | 30.2 | 16.8 | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 27.28975 | 11 | 26 | 34.87 | +19 | 10 | 07.4 | | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 27.46840 | 11 | 25 | 58.35 | +19 | 08 | 21.9 | | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 28.28350 | 11 | 23 | 16.03 | +19 | 00 | 12.6 | | 3 | 675 |
| 1992 | CC1 | | 1992 | 02 | 28.45156 | 11 | 22 | 41.68 | +18 | 58 | 29.9 | | 3 | 675 |
| 1992 | DC | * | 1992 | 02 | 26.22500 | 10 | 00 | 13.94 | +25 | 09 | 42.0 | 17.5 | 3 | 675 |
| 1992 | DC | | 1992 | 02 | 26.26128 | 10 | 00 | 12.85 | +25 | 08 | 34.9 | | 3 | 675 |
| 1992 | DC | | 1992 | 02 | 27.32065 | 09 | 59 | 48.31 | +24 | 35 | 04.6 | | 3 | 675 |
| 1992 | DC | | 1992 | 02 | 27.35781 | 09 | 59 | 47.20 | +24 | 33 | 53.8 | | 3 | 675 |
| 1992 | DC | | 1992 | 02 | 28.25086 | 09 | 59 | 29.34 | +24 | 05 | 25.0 | | 3 | 675 |
| 1992 | DC | | 1992 | 02 | 28.41927 | 09 | 59 | 24.52 | +24 | 00 | 00.4 | | 3 | 675 |
| 2530 | P-L | * | 1960 | 09 | 24.46184 | 00 | 57 | 02.02 | +03 | 35 | 56.6 | 17.5 | 4 | 675 |
| 2530 | P-L | | 1960 | 09 | 26.37988 | 00 | 55 | 14.02 | +03 | 30 | 32.0 | | 4 | 675 |
| 2530 | P-L | | 1960 | 09 | 28.43822 | 00 | 53 | 14.28 | +03 | 24 | 30.8 | | 4 | 675 |
| 2530 | P-L | | 1960 | 09 | 29.39514 | 00 | 52 | 17.79 | +03 | 21 | 42.3 | | 4 | 675 |
| 2530 | P-L | | 1960 | 10 | 17.31529 | 00 | 34 | 21.65 | +02 | 31 | 43.8 | | 4 | 675 |
| 2530 | P-L | | 1960 | 10 | 22.26809 | 00 | 30 | 00.74 | +02 | 22 | 20.3 | | 4 | 675 |
| 2530 | P-L | | 1960 | 10 | 25.30351 | 00 | 27 | 37.51 | +02 | 18 | 14.1 | | 4 | 675 |
| 2530 | P-L | | 1960 | 10 | 26.35766 | 00 | 26 | 51.09 | +02 | 17 | 09.2 | | 4 | 675 |
| 4319 | P-L | * | 1960 | 09 | 24.37573 | 00 | 34 | 52.89 | +10 | 06 | 20.9 | 19.2 | 4 | 675 |
| 4319 | P-L | | 1960 | 09 | 25.42780 | 00 | 33 | 50.93 | +09 | 59 | 05.2 | | 4 | 675 |
| 4319 | P-L | | 1960 | 09 | 26.30558 | 00 | 32 | 59.66 | +09 | 52 | 55.1 | | 4 | 675 |
| 4319 | P-L | | 1960 | 09 | 28.36808 | 00 | 30 | 57.44 | +09 | 38 | 02.1 | | 4 | 675 |
| 4319 | P-L | | 1960 | 10 | 26.32573 | 00 | 08 | 34.51 | +06 | 11 | 56.9 | | 4 | 675 |
| 4556 | P-L | * | 1960 | 09 | 24.41183 | 00 | 36 | 20.55 | +00 | 27 | 39.9 | 17.8 | 4 | 675 |
| 4556 | P-L | | 1960 | 09 | 26.31530 | 00 | 34 | 51.34 | +00 | 20 | 01.5 | | 4 | 675 |
| 4556 | P-L | | 1960 | 09 | 27.40836 | 00 | 33 | 59.37 | +00 | 15 | 39.6 | | 4 | 675 |
| 4556 | P-L | | 1960 | 09 | 28.39725 | 00 | 33 | 12.35 | +00 | 11 | 42.7 | | 4 | 675 |
| 4556 | P-L | | 1960 | 10 | 17.31529 | 00 | 18 | 54.42 | -00 | 53 | 19.3 | | 4 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4556 | P-L | | 1960 | 10 | 22.26809 | 00 | 15 | 50.38 | -01 | 04 | 35.1 | | | 4 | 675 |
| 4556 | P-L | | 1960 | 10 | 25.25350 | 00 | 14 | 12.62 | -01 | 09 | 44.8 | | | 4 | 675 |
| 4556 | P-L | | 1960 | 10 | 25.30351 | 00 | 14 | 11.11 | -01 | 09 | 51.4 | | | 4 | 675 |
| 4556 | P-L | | 1960 | 10 | 26.31531 | 00 | 13 | 40.39 | -01 | 11 | 16.8 | | | 4 | 675 |
| 4556 | P-L | | 1960 | 10 | 26.35766 | 00 | 13 | 39.19 | -01 | 11 | 22.0 | | | 4 | 675 |
| 4559 | P-L | * | 1960 | 09 | 26.31530 | 00 | 36 | 51.69 | +03 | 46 | 39.8 | 18.8 | | 4 | 675 |
| 4559 | P-L | | 1960 | 09 | 27.40836 | 00 | 36 | 04.20 | +03 | 41 | 24.0 | | | 4 | 675 |
| 4559 | P-L | | 1960 | 09 | 28.39725 | 00 | 35 | 21.25 | +03 | 36 | 35.0 | | | 4 | 675 |
| 4559 | P-L | | 1960 | 10 | 17.31529 | 00 | 22 | 16.93 | +02 | 08 | 53.1 | | | 4 | 675 |
| 4559 | P-L | | 1960 | 10 | 22.26809 | 00 | 19 | 28.51 | +01 | 49 | 57.0 | | | 4 | 675 |
| 4559 | P-L | | 1960 | 10 | 25.30351 | 00 | 17 | 57.67 | +01 | 39 | 44.0 | | | 4 | 675 |
| 4559 | P-L | | 1960 | 10 | 26.35766 | 00 | 17 | 28.43 | +01 | 36 | 28.0 | | | 4 | 675 |
| 4641 | P-L | | 1991 | 09 | 11.29878 | 23 | 18 | 47.74 | -07 | 45 | 58.4 | 18.5 | | 9 | 675 |
| 4641 | P-L | | 1991 | 09 | 11.35451 | 23 | 18 | 44.93 | -07 | 46 | 18.5 | | | 9 | 675 |
| 4641 | P-L | | 1991 | 09 | 17.33941 | 23 | 14 | 00.51 | -08 | 24 | 07.5 | 18.5 | | 9 | 675 |
| 6058 | P-L | * | 1960 | 09 | 24.33613 | 00 | 03 | 40.61 | +04 | 22 | 41.7 | 18.3 | | 4 | 675 |
| 6058 | P-L | | 1960 | 09 | 25.32502 | 00 | 02 | 42.08 | +04 | 20 | 10.8 | | | 4 | 675 |
| 6058 | P-L | | 1960 | 09 | 26.27573 | 00 | 01 | 46.12 | +04 | 17 | 42.0 | | | 4 | 675 |
| 6058 | P-L | | 1960 | 09 | 28.32780 | 23 | 59 | 46.45 | +04 | 12 | 17.2 | | | 4 | 675 |
| 6058 | P-L | | 1960 | 10 | 17.21390 | 23 | 44 | 34.34 | +03 | 26 | 48.6 | | | 4 | 675 |
| 6058 | P-L | | 1960 | 10 | 22.15559 | 23 | 41 | 58.91 | +03 | 19 | 06.8 | | | 4 | 675 |
| 6058 | P-L | | 1960 | 10 | 24.18787 | 23 | 41 | 07.28 | +03 | 16 | 44.2 | | | 4 | 675 |
| 6058 | P-L | | 1960 | 10 | 26.26113 | 23 | 40 | 22.04 | +03 | 14 | 49.6 | | | 4 | 675 |
| 6328 | P-L | * | 1960 | 09 | 24.33613 | 00 | 14 | 52.02 | +00 | 59 | 42.4 | 19.1 | | 4 | 675 |
| 6328 | P-L | | 1960 | 09 | 25.32502 | 00 | 13 | 59.78 | +00 | 55 | 05.7 | | | 4 | 675 |
| 6328 | P-L | | 1960 | 09 | 26.27573 | 00 | 13 | 09.58 | +00 | 50 | 39.7 | | | 4 | 675 |
| 6328 | P-L | | 1960 | 09 | 28.32780 | 00 | 11 | 21.18 | +00 | 41 | 07.5 | | | 4 | 675 |
| 6328 | P-L | | 1960 | 10 | 17.28198 | 23 | 56 | 12.95 | -00 | 36 | 42.8 | | | 4 | 675 |
| 6328 | P-L | | 1960 | 10 | 22.23406 | 23 | 53 | 07.40 | -00 | 51 | 38.3 | | | 4 | 675 |
| 6328 | P-L | | 1960 | 10 | 25.25350 | 23 | 51 | 28.89 | -00 | 59 | 11.0 | | | 4 | 675 |
| 6328 | P-L | | 1960 | 10 | 26.26113 | 23 | 50 | 58.72 | -01 | 01 | 25.9 | | | 4 | 675 |
| 6328 | P-L | | 1960 | 10 | 26.31531 | 23 | 50 | 57.11 | -01 | 01 | 34.3 | | | 4 | 675 |
| 6588 | P-L | * | 1960 | 09 | 24.35002 | 00 | 03 | 44.63 | -00 | 41 | 01.5 | 18.5 | | 4 | 675 |
| 6588 | P-L | | 1960 | 09 | 26.28543 | 00 | 02 | 20.10 | -00 | 50 | 09.1 | | | 4 | 675 |
| 6588 | P-L | | 1960 | 09 | 27.34237 | 00 | 01 | 34.00 | -00 | 55 | 06.0 | | | 4 | 675 |
| 6588 | P-L | | 1960 | 09 | 28.33822 | 00 | 00 | 50.76 | -00 | 59 | 44.3 | | | 4 | 675 |
| 6588 | P-L | | 1960 | 10 | 17.21390 | 23 | 48 | 41.46 | -02 | 16 | 02.5 | | | 4 | 675 |
| 6588 | P-L | | 1960 | 10 | 22.15559 | 23 | 46 | 18.45 | -02 | 30 | 21.7 | | | 4 | 675 |
| 6588 | P-L | | 1960 | 10 | 24.18787 | 23 | 45 | 27.34 | -02 | 35 | 21.9 | | | 4 | 675 |
| 6588 | P-L | | 1960 | 10 | 26.26113 | 23 | 44 | 40.26 | -02 | 39 | 53.6 | | | 4 | 675 |
| 6615 | P-L | * | 1960 | 09 | 24.35002 | 23 | 55 | 28.76 | -03 | 30 | 24.0 | 18.4 | | 4 | 675 |
| 6615 | P-L | | 1960 | 09 | 26.28543 | 23 | 53 | 30.35 | -03 | 38 | 42.9 | | | 4 | 675 |
| 6615 | P-L | | 1960 | 09 | 27.34237 | 23 | 52 | 26.10 | -03 | 43 | 08.7 | | | 4 | 675 |
| 6615 | P-L | | 1960 | 09 | 28.33822 | 23 | 51 | 26.19 | -03 | 47 | 13.9 | | | 4 | 675 |
| 6615 | P-L | | 1960 | 10 | 17.22501 | 23 | 35 | 25.15 | -04 | 42 | 14.7 | | | 4 | 675 |
| 6615 | P-L | | 1960 | 10 | 22.16324 | 23 | 32 | 33.04 | -04 | 47 | 52.4 | | | 4 | 675 |
| 6615 | P-L | | 1960 | 10 | 24.23753 | 23 | 31 | 32.83 | -04 | 48 | 59.4 | | | 4 | 675 |
| 6615 | P-L | | 1960 | 10 | 26.27157 | 23 | 30 | 40.89 | -04 | 49 | 22.8 | | | 4 | 675 |
| 9508 | P-L | | 1978 | 11 | 30.26007 | 03 | 36 | 07.57 | +17 | 16 | 19.1 | 17.8 | V | 6 | 675 |
| 9508 | P-L | | 1978 | 12 | 01.27691 | 03 | 35 | 19.40 | +17 | 14 | 07.9 | | | 6 | 675 |
| 9575 | P-L | * | 1960 | 10 | 17.22501 | 23 | 49 | 11.46 | -07 | 32 | 21.6 | 18.2 | | 4 | 675 |
| 9575 | P-L | | 1960 | 10 | 22.16324 | 23 | 47 | 45.10 | -07 | 23 | 03.1 | | | 4 | 675 |
| 9575 | P-L | | 1960 | 10 | 24.23753 | 23 | 47 | 24.37 | -07 | 17 | 11.6 | | | 4 | 675 |
| 9575 | P-L | | 1960 | 10 | 26.27157 | 23 | 47 | 13.58 | -07 | 10 | 17.8 | | | 4 | 675 |
| 1081 | T-1 | | 1971 | 03 | 24.38924 | 12 | 03 | 09.51 | -03 | 02 | 57.5 | | | 4 | 675 |
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| 1081 | T-1 | | 1971 | 03 | 26.26771 | 12 | 01 | 44.32 | -02 | 53 | 37.2 | | | 4 | 675 |
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|---|---|---|---|---|---|---|---|---|---|---|---|
| 1081 | T-1 | | 1971 | 04 | 02.40000 | 11 | 56 | 27.93 | -02 | 18 | 14.4 | | | 4 | 675 |
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| 1181 | T-1 | | 1971 | 03 | 26.26771 | 12 | 11 | 26.34 | -05 | 09 | 06.8 | | | 4 | 675 |
| 1181 | T-1 | | 1971 | 03 | 27.32500 | 12 | 10 | 34.31 | -05 | 04 | 45.5 | | | 4 | 675 |
| 1181 | T-1 | | 1971 | 04 | 02.40000 | 12 | 05 | 41.15 | -04 | 39 | 22.7 | | | 4 | 675 |
| 1181 | T-1 | | 1971 | 04 | 16.18087 | 11 | 56 | 03.11 | -03 | 45 | 03.3 | | | 4 | 675 |
| 1181 | T-1 | | 1971 | 04 | 16.26458 | 11 | 56 | 00.10 | -03 | 44 | 46.5 | | | 4 | 675 |
| 1181 | T-1 | | 1971 | 05 | 13.18941 | 11 | 48 | 12.38 | -02 | 50 | 38.5 | | | 4 | 675 |
| 1181 | T-1 | | 1971 | 05 | 14.21962 | 11 | 48 | 15.02 | -02 | 50 | 28.9 | | | 4 | 675 |
| 1198 | T-1 | | 1971 | 03 | 24.38924 | 12 | 14 | 28.08 | -06 | 47 | 55.6 | | | 4 | 675 |
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| 1198 | T-1 | * | 1971 | 03 | 25.31562 | 12 | 13 | 44.34 | -06 | 44 | 10.4 | | 18.1 | 4 | 675 |
| 1198 | T-1 | | 1971 | 03 | 26.26771 | 12 | 12 | 59.35 | -06 | 40 | 19.7 | | | 4 | 675 |
| 1198 | T-1 | | 1971 | 03 | 27.32500 | 12 | 12 | 09.38 | -06 | 35 | 57.5 | | | 4 | 675 |
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| 1198 | T-1 | | 1971 | 04 | 16.18087 | 11 | 58 | 11.06 | -05 | 13 | 34.0 | | | 4 | 675 |
| 1198 | T-1 | | 1971 | 04 | 16.26458 | 11 | 58 | 08.10 | -05 | 13 | 14.6 | | | 4 | 675 |
| 1198 | T-1 | | 1971 | 05 | 13.18941 | 11 | 50 | 14.35 | -04 | 06 | 36.8 | | | 4 | 675 |
| 1198 | T-1 | | 1971 | 05 | 14.21962 | 11 | 50 | 15.34 | -04 | 05 | 47.0 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 03 | 25.27326 | 12 | 20 | 46.24 | -04 | 47 | 58.7 | | | 4 | 675 |
| 1293 | T-1 | * | 1971 | 03 | 25.31562 | 12 | 20 | 43.41 | -04 | 47 | 47.5 | | 18.8 | 4 | 675 |
| 1293 | T-1 | | 1971 | 03 | 25.33090 | 12 | 20 | 42.34 | -04 | 47 | 41.6 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 03 | 26.26771 | 12 | 19 | 42.40 | -04 | 43 | 01.6 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 03 | 26.29653 | 12 | 19 | 40.45 | -04 | 42 | 54.7 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 03 | 26.33611 | 12 | 19 | 37.85 | -04 | 42 | 43.1 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 03 | 27.32500 | 12 | 18 | 34.62 | -04 | 37 | 46.3 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 04 | 02.40000 | 12 | 12 | 09.50 | -04 | 07 | 00.2 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 04 | 16.18087 | 11 | 59 | 19.76 | -03 | 02 | 24.0 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 04 | 16.26458 | 11 | 59 | 15.46 | -03 | 02 | 00.6 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 05 | 13.18941 | 11 | 47 | 52.76 | -02 | 03 | 08.3 | | | 4 | 675 |
| 1293 | T-1 | | 1971 | 05 | 14.21962 | 11 | 47 | 51.73 | -02 | 03 | 12.4 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 03 | 24.42015 | 12 | 21 | 42.22 | -03 | 42 | 46.4 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 03 | 25.27326 | 12 | 21 | 03.98 | -03 | 37 | 12.7 | | | 4 | 675 |
| 1295 | T-1 | * | 1971 | 03 | 25.31562 | 12 | 21 | 02.05 | -03 | 36 | 55.3 | | 18.5 | 4 | 675 |
| 1295 | T-1 | | 1971 | 03 | 25.33090 | 12 | 21 | 01.29 | -03 | 36 | 49.5 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 03 | 26.26771 | 12 | 20 | 19.38 | -03 | 30 | 43.3 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 03 | 26.29653 | 12 | 20 | 17.88 | -03 | 30 | 31.0 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 03 | 26.33611 | 12 | 20 | 16.01 | -03 | 30 | 16.1 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 03 | 27.32500 | 12 | 19 | 31.97 | -03 | 23 | 51.8 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 03 | 27.33854 | 12 | 19 | 30.81 | -03 | 23 | 41.6 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 04 | 02.40000 | 12 | 15 | 00.79 | -02 | 44 | 05.8 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 04 | 16.18087 | 12 | 05 | 51.67 | -01 | 20 | 06.9 | | | 4 | 675 |
| 1295 | T-1 | | 1971 | 04 | 16.26458 | 12 | 05 | 48.67 | -01 | 19 | 40.2 | | | 4 | 675 |
| 2081 | T-1 | | 1971 | 03 | 24.37118 | 12 | 03 | 27.48 | +04 | 10 | 50.8 | | | 4 | 675 |
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| 2151 | T-1 | | 1971 | 03 | 25.24340 | 12 | 08 | 44.68 | +03 | 23 | 55.5 | | | 4 | 675 |
| 2151 | T-1 | * | 1971 | 03 | 25.28715 | 12 | 08 | 42.28 | +03 | 24 | 15.3 | | 19.5 | 4 | 675 |
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| 2151 | T-1 | | 1971 | 04 | 02.41285 | 12 | 01 | 36.64 | +04 | 23 | 23.7 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 03 | 24.42015 | 12 | 23 | 58.73 | -02 | 07 | 58.0 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 03 | 25.33090 | 12 | 23 | 09.75 | -02 | 04 | 12.7 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 03 | 26.29653 | 12 | 22 | 17.65 | -02 | 00 | 10.9 | | | 4 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3048 | T-1 | | 1971 | 03 | 26.31007 | 12 | 22 | 16.95 | -02 | 00 | 10.0 | | | 4 | 675 |
| 3048 | T-1 | * | 1971 | 03 | 26.33611 | 12 | 22 | 15.37 | -02 | 00 | 01.7 | 17.7 | | 4 | 675 |
| 3048 | T-1 | | 1971 | 03 | 26.34896 | 12 | 22 | 14.71 | -02 | 00 | 00.6 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 03 | 27.33854 | 12 | 21 | 21.02 | -01 | 55 | 52.0 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 03 | 27.35208 | 12 | 21 | 20.38 | -01 | 55 | 51.5 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 04 | 02.40000 | 12 | 15 | 55.81 | -01 | 31 | 02.6 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 04 | 16.16458 | 12 | 05 | 04.87 | -00 | 43 | 26.1 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 04 | 16.18087 | 12 | 05 | 04.19 | -00 | 43 | 22.4 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 04 | 16.25069 | 12 | 05 | 01.20 | -00 | 43 | 10.6 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 04 | 16.26458 | 12 | 05 | 00.78 | -00 | 43 | 07.7 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 05 | 13.18941 | 11 | 56 | 14.79 | -00 | 23 | 12.4 | | | 4 | 675 |
| 3048 | T-1 | | 1971 | 05 | 14.21962 | 11 | 56 | 18.26 | -00 | 24 | 42.8 | | | 4 | 675 |
| 3068 | T-1 | | 1971 | 03 | 25.33090 | 12 | 24 | 21.65 | -06 | 42 | 38.0 | | | 4 | 675 |
| 3068 | T-1 | | 1971 | 03 | 26.29653 | 12 | 23 | 34.44 | -06 | 36 | 37.2 | | | 4 | 675 |
| 3068 | T-1 | * | 1971 | 03 | 26.33611 | 12 | 23 | 32.51 | -06 | 36 | 22.3 | 20.5 | | 4 | 675 |
| 3068 | T-1 | | 1971 | 03 | 27.33854 | 12 | 22 | 43.53 | -06 | 30 | 03.3 | | | 4 | 675 |
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| 3090 | T-1 | * | 1971 | 03 | 26.33611 | 12 | 24 | 47.94 | -07 | 15 | 11.4 | 19.8 | | 4 | 675 |
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| 3100 | T-1 | | 1971 | 03 | 25.33090 | 12 | 26 | 37.74 | -08 | 11 | 48.0 | | | 4 | 675 |
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| 3100 | T-1 | | 1971 | 03 | 27.33854 | 12 | 24 | 56.77 | -07 | 55 | 38.2 | | | 4 | 675 |
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| 3100 | T-1 | | 1971 | 04 | 02.42604 | 12 | 19 | 55.29 | -07 | 05 | 47.5 | | | 4 | 675 |
| 3100 | T-1 | | 1971 | 04 | 16.18087 | 12 | 09 | 54.80 | -05 | 15 | 52.2 | | | 4 | 675 |
| 3100 | T-1 | | 1971 | 04 | 16.26458 | 12 | 09 | 51.64 | -05 | 15 | 14.8 | | | 4 | 675 |
| 3159 | T-1 | | 1971 | 03 | 24.42015 | 12 | 31 | 49.06 | -06 | 31 | 54.8 | | | 4 | 675 |
| 3159 | T-1 | | 1971 | 03 | 25.33090 | 12 | 30 | 58.81 | -06 | 25 | 11.0 | | | 4 | 675 |
| 3159 | T-1 | | 1971 | 03 | 26.29653 | 12 | 30 | 04.99 | -06 | 17 | 56.5 | | | 4 | 675 |
| 3159 | T-1 | * | 1971 | 03 | 26.33611 | 12 | 30 | 02.68 | -06 | 17 | 38.9 | 18.7 | | 4 | 675 |
| 3159 | T-1 | | 1971 | 03 | 27.33854 | 12 | 29 | 06.50 | -06 | 10 | 01.8 | | | 4 | 675 |
| 3159 | T-1 | | 1971 | 04 | 02.42604 | 12 | 23 | 23.96 | -05 | 22 | 47.9 | | | 4 | 675 |
| 3163 | T-1 | | 1971 | 03 | 24.42015 | 12 | 31 | 14.60 | -02 | 59 | 38.4 | | | 4 | 675 |
| 3163 | T-1 | | 1971 | 03 | 25.33090 | 12 | 30 | 47.90 | -02 | 56 | 45.5 | | | 4 | 675 |
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| 3163 | T-1 | * | 1971 | 03 | 26.33611 | 12 | 30 | 19.59 | -02 | 54 | 01.3 | 20.5 | | 4 | 675 |
| 3163 | T-1 | | 1971 | 03 | 27.33854 | 12 | 29 | 51.39 | -02 | 51 | 15.4 | | | 4 | 675 |
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| 3279 | T-1 | | 1971 | 03 | 25.33090 | 12 | 40 | 31.25 | -04 | 55 | 26.6 | | | 4 | 675 |
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| 3279 | T-1 | | 1971 | 04 | 02.42604 | 12 | 31 | 41.00 | -04 | 55 | 43.6 | | | 4 | 675 |
| 3332 | T-1 | | 1971 | 03 | 25.33090 | 12 | 44 | 14.51 | -07 | 23 | 54.8 | | | 4 | 675 |
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| 3332 | T-1 | | 1971 | 03 | 27.33854 | 12 | 42 | 18.72 | -07 | 12 | 07.9 | | | 4 | 675 |
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| 4195 | T-1 | | 1971 | 05 | 13.17535 | 12 | 05 | 34.02 | +04 00 46.7 | | 4 675 |
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| 4195 | T-1 | | 1971 | 05 | 16.31510 | 12 | 05 | 20.36 | +03 57 20.2 | | 4 675 |
| 4214 | T-1 | | 1971 | 03 | 24.40486 | 12 | 34 | 25.28 | +00 29 22.1 | | 4 675 |
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| 4232 | T-1 | * | 1971 | 03 | 26.34896 | 12 | 33 | 53.77 | -01 23 17.3 | 17.7 | 4 675 |
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| 4349 | T-1 | | 1971 | 03 | 24.40486 | 12 | 43 | 01.07 | +01 52 17.4 | | 4 675 |
| 4349 | T-1 | | 1971 | 03 | 26.31007 | 12 | 41 | 35.45 | +02 04 55.8 | | 4 675 |
| 4349 | T-1 | * | 1971 | 03 | 26.34896 | 12 | 41 | 33.70 | +02 05 11.4 | 19.3 | 4 675 |
| 4349 | T-1 | | 1971 | 03 | 27.35208 | 12 | 40 | 48.61 | +02 11 42.9 | | 4 675 |
| 4349 | T-1 | | 1971 | 04 | 02.43993 | 12 | 36 | 11.65 | +02 50 58.8 | | 4 675 |
| 4349 | T-1 | | 1971 | 04 | 16.21476 | 12 | 26 | 07.80 | +04 10 35.6 | | 4 675 |
| 4349 | T-1 | | 1971 | 04 | 16.27708 | 12 | 26 | 05.29 | +04 10 55.1 | | 4 675 |
| 4854 | T-1 | | 1971 | 04 | 16.21476 | 12 | 35 | 06.73 | +01 43 53.2 | 18.5 | 4 675 |
| 4854 | T-1 | | 1971 | 04 | 16.27708 | 12 | 35 | 03.59 | +01 43 59.3 | 18.5 | 4 675 |
| 4854 | T-1 | * | 1971 | 05 | 13.20278 | 12 | 19 | 39.41 | +01 37 11.8 | 19.5 | 4 675 |
| 4854 | T-1 | | 1971 | 05 | 14.23246 | 12 | 19 | 20.88 | +01 35 07.0 | 19.5 | 4 675 |
| 4854 | T-1 | | 1971 | 05 | 16.29774 | 12 | 18 | 47.83 | +01 30 35.3 | 19.5 | 4 675 |
| 1079 | T-2 | | 1981 | 05 | 08.33333 | 15 | 01 | 05.83 | -19 10 48.5 | 18.0 | 6 675 |
| 1079 | T-2 | | 1981 | 05 | 09.34167 | 15 | 00 | 10.14 | -19 07 30.8 | | 6 675 |
| 1107 | T-2 | | 1978 | 11 | 30.26007 | 03 | 20 | 26.28 | +20 36 39.3 | 18.5 V | 6 675 |
| 1107 | T-2 | | 1978 | 12 | 01.27691 | 03 | 19 | 35.06 | +20 32 33.8 | | 6 675 |
| 1210 | T-2 | | 1973 | 09 | 19.18611 | 00 | 23 | 10.73 | +04 07 00.0 | | 4 675 |
| 1210 | T-2 | | 1973 | 09 | 19.23785 | 00 | 23 | 07.54 | +04 06 46.7 | | 4 675 |
| 1210 | T-2 | | 1973 | 09 | 20.22847 | 00 | 22 | 08.49 | +04 02 18.2 | | 4 675 |
| 1210 | T-2 | | 1973 | 09 | 24.34688 | 00 | 17 | 58.49 | +03 42 57.4 | | 4 675 |
| 1210 | T-2 | | 1973 | 09 | 24.41597 | 00 | 17 | 54.14 | +03 42 38.1 | | 4 675 |
| 1210 | T-2 | | 1973 | 09 | 25.24375 | 00 | 17 | 03.75 | +03 38 36.7 | | 4 675 |
| 1210 | T-2 | | 1973 | 09 | 25.30729 | 00 | 16 | 59.80 | +03 38 20.8 | | 4 675 |
| 1210 | T-2 | * | 1973 | 09 | 29.25330 | 00 | 12 | 58.45 | +03 19 02.3 | 18.0 | 4 675 |
| 1210 | T-2 | | 1973 | 09 | 29.31806 | 00 | 12 | 54.41 | +03 18 43.0 | | 4 675 |
| 1210 | T-2 | | 1973 | 09 | 30.21007 | 00 | 12 | 00.36 | +03 14 20.8 | | 4 675 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1210 | T-2 | | 1973 | 09 | 30.27431 | 00 | 11 | 56.37 | +03 | 14 | 01.5 | | 4 | 675 |
| 1210 | T-2 | | 1973 | 10 | 04.28958 | 00 | 07 | 56.61 | +02 | 54 | 22.1 | | 4 | 675 |
| 1210 | T-2 | | 1973 | 10 | 04.35208 | 00 | 07 | 52.75 | +02 | 54 | 05.5 | | 4 | 675 |
| 1210 | T-2 | | 1973 | 10 | 05.31684 | 00 | 06 | 56.60 | +02 | 49 | 25.6 | | 4 | 675 |
| 1210 | T-2 | | 1973 | 10 | 05.37917 | 00 | 06 | 52.82 | +02 | 49 | 07.5 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 19.18611 | 00 | 21 | 06.27 | +04 | 55 | 58.9 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 19.23785 | 00 | 21 | 04.02 | +04 | 55 | 45.5 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 20.22847 | 00 | 20 | 20.39 | +04 | 51 | 11.2 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 24.34688 | 00 | 17 | 17.27 | +04 | 31 | 40.6 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 24.41597 | 00 | 17 | 14.20 | +04 | 31 | 19.2 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 25.24375 | 00 | 16 | 37.26 | +04 | 27 | 16.1 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 25.30729 | 00 | 16 | 34.34 | +04 | 27 | 00.7 | | 4 | 675 |
| 1221 | T-2 | * | 1973 | 09 | 29.25330 | 00 | 13 | 37.85 | +04 | 07 | 40.2 | 18.7 | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 29.31806 | 00 | 13 | 34.79 | +04 | 07 | 20.8 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 30.21007 | 00 | 12 | 55.20 | +04 | 02 | 57.1 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 09 | 30.27431 | 00 | 12 | 52.23 | +04 | 02 | 39.1 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 10 | 04.28958 | 00 | 09 | 55.80 | +03 | 42 | 49.0 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 10 | 04.35208 | 00 | 09 | 53.05 | +03 | 42 | 29.6 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 10 | 05.31684 | 00 | 09 | 11.49 | +03 | 37 | 46.5 | | 4 | 675 |
| 1221 | T-2 | | 1973 | 10 | 05.37917 | 00 | 09 | 08.70 | +03 | 37 | 29.1 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 19.18611 | 00 | 25 | 18.03 | +02 | 17 | 13.1 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 19.19948 | 00 | 25 | 17.44 | +02 | 17 | 10.6 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 19.22500 | 00 | 25 | 16.11 | +02 | 17 | 05.3 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 19.23785 | 00 | 25 | 15.43 | +02 | 16 | 59.8 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 19.25006 | 00 | 25 | 14.98 | +02 | 16 | 56.4 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 20.22847 | 00 | 24 | 27.27 | +02 | 12 | 32.5 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 20.30278 | 00 | 24 | 23.57 | +02 | 12 | 15.1 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 24.34688 | 00 | 21 | 02.45 | +01 | 53 | 32.3 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 24.38750 | 00 | 21 | 00.30 | +01 | 53 | 23.2 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 24.41597 | 00 | 20 | 58.78 | +01 | 53 | 13.6 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 24.45434 | 00 | 20 | 56.81 | +01 | 53 | 04.5 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 25.24375 | 00 | 20 | 17.36 | +01 | 49 | 20.4 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 25.30729 | 00 | 20 | 14.13 | +01 | 49 | 03.9 | | 4 | 675 |
| 1274 | T-2 | * | 1973 | 09 | 29.25330 | 00 | 16 | 54.36 | +01 | 30 | 31.0 | 18.5 | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 29.31806 | 00 | 16 | 50.96 | +01 | 30 | 13.7 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 30.21007 | 00 | 16 | 05.86 | +01 | 26 | 03.4 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 09 | 30.27431 | 00 | 16 | 02.59 | +01 | 25 | 45.4 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 10 | 04.28958 | 00 | 12 | 41.87 | +01 | 07 | 12.0 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 10 | 04.35208 | 00 | 12 | 38.68 | +01 | 06 | 53.9 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 10 | 05.31684 | 00 | 11 | 51.38 | +01 | 02 | 33.3 | | 4 | 675 |
| 1274 | T-2 | | 1973 | 10 | 05.37917 | 00 | 11 | 48.24 | +01 | 02 | 17.3 | | 4 | 675 |
| 1607 | T-2 | | 1991 | 09 | 11.29878 | 22 | 56 | 31.84 | -06 | 39 | 17.9 | 17.8 | 9 | 675 |
| 1607 | T-2 | | 1991 | 09 | 11.35451 | 22 | 56 | 28.15 | -06 | 39 | 21.4 | | 9 | 675 |
| 1617 | T-2 | | 1973 | 09 | 19.18611 | 00 | 04 | 58.17 | +00 | 52 | 32.0 | | 4 | 675 |
| 1617 | T-2 | | 1973 | 09 | 19.23785 | 00 | 04 | 55.08 | +00 | 52 | 18.6 | | 4 | 675 |
| 1617 | T-2 | | 1973 | 09 | 20.22847 | 00 | 03 | 56.71 | +00 | 47 | 37.6 | | 4 | 675 |
| 1617 | T-2 | | 1973 | 09 | 24.34688 | 23 | 59 | 54.11 | +00 | 28 | 10.6 | | 4 | 675 |
| 1617 | T-2 | * | 1973 | 09 | 24.41597 | 23 | 59 | 50.03 | +00 | 27 | 51.8 | 17.7 | 4 | 675 |
| 1617 | T-2 | | 1973 | 09 | 25.24375 | 23 | 59 | 01.74 | +00 | 23 | 56.9 | | 4 | 675 |
| 1617 | T-2 | | 1973 | 09 | 25.30729 | 23 | 58 | 57.89 | +00 | 23 | 40.8 | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 19.19948 | 00 | 34 | 20.09 | +07 | 21 | 38.1 | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 19.25006 | 00 | 34 | 17.79 | +07 | 21 | 28.1 | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 20.26458 | 00 | 33 | 32.12 | +07 | 17 | 38.0 | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 24.36181 | 00 | 30 | 23.52 | +07 | 01 | 30.5 | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 24.42847 | 00 | 30 | 20.32 | +07 | 01 | 14.4 | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 25.25642 | 00 | 29 | 41.87 | +06 | 57 | 47.8 | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 25.32031 | 00 | 29 | 38.72 | +06 | 57 | 31.7 | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 29.26632 | 00 | 26 | 32.84 | +06 | 40 | 51.5 | | 4 | 675 |
| 2067 | T-2 | * | 1973 | 09 | 29.33073 | 00 | 26 | 29.73 | +06 | 40 | 36.0 | 18.1 | 4 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 2067 | T-2 | | 1973 | 09 | 30.22257 | 00 | 25 | 47.64 | +06 | 36 | 41.8 | | | 4 | 675 |
| 2067 | T-2 | | 1973 | 09 | 30.28785 | 00 | 25 | 44.53 | +06 | 36 | 24.9 | | | 4 | 675 |
| 2067 | T-2 | | 1973 | 10 | 04.30208 | 00 | 22 | 35.44 | +06 | 18 | 45.1 | | | 4 | 675 |
| 2067 | T-2 | | 1973 | 10 | 04.36476 | 00 | 22 | 32.46 | +06 | 18 | 28.4 | | | 4 | 675 |
| 2067 | T-2 | | 1973 | 10 | 05.32917 | 00 | 21 | 47.40 | +06 | 14 | 11.3 | | | 4 | 675 |
| 2067 | T-2 | | 1973 | 10 | 05.39132 | 00 | 21 | 44.48 | +06 | 13 | 55.9 | | | 4 | 675 |
| 1194 | T-3 | | 1977 | 10 | 16.25156 | 01 | 06 | 43.45 | +18 | 38 | 50.5 | | | 4 | 675 |
| 1194 | T-3 | | 1977 | 10 | 16.31684 | 01 | 06 | 39.31 | +18 | 38 | 30.0 | | | 4 | 675 |
| 1194 | T-3 | * | 1977 | 10 | 17.25365 | 01 | 05 | 43.29 | +18 | 33 | 32.5 | 17.6 | | 4 | 675 |
| 1194 | T-3 | | 1977 | 10 | 17.32083 | 01 | 05 | 39.17 | +18 | 33 | 11.3 | | | 4 | 675 |
| 1194 | T-3 | | 1977 | 10 | 22.42812 | 01 | 00 | 44.08 | +18 | 04 | 24.3 | | | 4 | 675 |
| 1194 | T-3 | | 1977 | 10 | 22.48003 | 01 | 00 | 41.09 | +18 | 04 | 06.1 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 07.25868 | 01 | 14 | 27.17 | +14 | 56 | 38.7 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 11.27743 | 01 | 10 | 20.27 | +14 | 34 | 31.9 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 11.34375 | 01 | 10 | 16.04 | +14 | 34 | 09.4 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 12.27587 | 01 | 09 | 19.12 | +14 | 28 | 46.9 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 12.34271 | 01 | 09 | 14.90 | +14 | 28 | 23.1 | | | 4 | 675 |
| 2247 | T-3 | * | 1977 | 10 | 16.26233 | 01 | 05 | 18.17 | +14 | 05 | 08.2 | 18.3 | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 16.32795 | 01 | 05 | 14.15 | +14 | 04 | 44.8 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 17.26458 | 01 | 04 | 18.71 | +13 | 59 | 06.7 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 17.33177 | 01 | 04 | 14.61 | +13 | 58 | 41.2 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 21.40868 | 01 | 00 | 20.04 | +13 | 33 | 39.8 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 21.46910 | 01 | 00 | 16.49 | +13 | 33 | 17.5 | | | 4 | 675 |
| 2247 | T-3 | | 1977 | 10 | 22.41528 | 00 | 59 | 24.18 | +13 | 27 | 28.5 | | | 4 | 675 |
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| 2327 | T-3 | | 1977 | 10 | 07.25868 | 01 | 19 | 36.48 | +12 | 22 | 08.0 | | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 11.27743 | 01 | 16 | 20.13 | +12 | 00 | 50.7 | | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 11.34375 | 01 | 16 | 16.69 | +12 | 00 | 29.8 | | | 4 | 675 |
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| 2327 | T-3 | * | 1977 | 10 | 16.26233 | 01 | 12 | 14.10 | +11 | 32 | 50.4 | 18.0 | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 16.32795 | 01 | 12 | 10.80 | +11 | 32 | 29.4 | | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 17.26458 | 01 | 11 | 24.93 | +11 | 27 | 09.0 | | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 17.33177 | 01 | 11 | 21.58 | +11 | 26 | 45.8 | | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 21.40868 | 01 | 08 | 05.78 | +11 | 03 | 12.3 | | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 21.46910 | 01 | 08 | 02.84 | +11 | 02 | 49.6 | | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 22.41528 | 01 | 07 | 18.62 | +10 | 57 | 22.4 | | | 4 | 675 |
| 2327 | T-3 | | 1977 | 10 | 22.46962 | 01 | 07 | 15.93 | +10 | 57 | 03.2 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 07.27031 | 01 | 26 | 25.72 | +08 | 32 | 02.4 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 11.28819 | 01 | 23 | 24.72 | +08 | 13 | 06.8 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 11.35642 | 01 | 23 | 21.55 | +08 | 12 | 47.6 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 12.28681 | 01 | 22 | 39.53 | +08 | 08 | 22.6 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 12.35347 | 01 | 22 | 36.44 | +08 | 08 | 02.0 | | | 4 | 675 |
| 3220 | T-3 | * | 1977 | 10 | 16.27309 | 01 | 19 | 38.64 | +07 | 49 | 24.3 | 18.8 | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 16.33872 | 01 | 19 | 35.56 | +07 | 49 | 04.2 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 17.27552 | 01 | 18 | 53.42 | +07 | 44 | 40.8 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 17.34236 | 01 | 18 | 50.25 | +07 | 44 | 20.2 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 21.39792 | 01 | 15 | 49.77 | +07 | 25 | 21.0 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 21.45799 | 01 | 15 | 47.10 | +07 | 25 | 04.4 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 22.39844 | 01 | 15 | 06.33 | +07 | 20 | 45.1 | | | 4 | 675 |
| 3220 | T-3 | | 1977 | 10 | 22.45920 | 01 | 15 | 03.49 | +07 | 20 | 28.4 | | | 4 | 675 |
| 4179 | T-3 | | 1978 | 11 | 30.26007 | 03 | 25 | 52.00 | +16 | 24 | 23.6 | 19.5 | V | 6 | 675 |
| 4179 | T-3 | | 1978 | 12 | 01.27691 | 03 | 25 | 19.93 | +16 | 23 | 07.8 | | | 6 | 675 |
| (46) | | | 1978 | 11 | 30.26007 | 03 | 37 | 51.45 | +15 | 50 | 52.2 | | | 6 | 675 |
| (46) | | | 1978 | 12 | 01.27691 | 03 | 36 | 56.70 | +15 | 47 | 39.2 | | | 6 | 675 |
| (107) | | | 1991 | 09 | 11.29878 | 23 | 19 | 03.56 | -03 | 03 | 57.2 | | | 9 | 675 |
| (107) | | | 1991 | 09 | 11.35451 | 23 | 19 | 01.40 | -03 | 04 | 17.6 | | | 9 | 675 |
| (107) | | | 1991 | 09 | 17.22847 | 23 | 15 | 21.77 | -03 | 40 | 27.4 | | | 9 | 675 |
| (107) | | | 1991 | 09 | 17.27188 | 23 | 15 | 20.09 | -03 | 40 | 43.5 | | | 9 | 675 |

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|---|---|---|---|---|---|---|---|---|---|---|
| (153) | 1978 | 11 | 30.26007 | 03 | 39 | 03.94 | +17 | 37 | 22.0 | 6 675 |
| (153) | 1978 | 12 | 01.27691 | 03 | 38 | 25.82 | +17 | 34 | 15.3 | 6 675 |
| (171) | 1991 | 09 | 15.35226 | 23 | 32 | 05.94 | -06 | 40 | 29.2 | 9 675 |
| (171) | 1991 | 09 | 15.38958 | 23 | 32 | 04.30 | -06 | 40 | 39.9 | 9 675 |
| (171) | 1991 | 09 | 17.33941 | 23 | 30 | 40.91 | -06 | 49 | 49.2 | 13.8 9 675 |
| (171) | 1991 | 09 | 17.37222 | 23 | 30 | 39.46 | -06 | 49 | 57.8 | 9 675 |
| (184) | 1978 | 11 | 30.26007 | 03 | 43 | 52.72 | +21 | 26 | 25.9 | 6 675 |
| (184) | 1978 | 12 | 01.27691 | 03 | 43 | 02.77 | +21 | 23 | 39.5 | 6 675 |
| (503) | 1978 | 11 | 30.26007 | 03 | 26 | 37.65 | +17 | 15 | 21.2 | 6 675 |
| (503) | 1978 | 12 | 01.27691 | 03 | 25 | 41.25 | +17 | 14 | 43.4 | 6 675 |
| (519) | 1981 | 05 | 08.35938 | 15 | 11 | 39.82 | -19 | 13 | 27.6 | 6 675 |
| (519) | 1981 | 05 | 09.31562 | 15 | 10 | 43.69 | -19 | 13 | 03.0 | 6 675 |
| (522) | 1991 | 09 | 11.29878 | 23 | 16 | 24.54 | -09 | 54 | 13.5 | 14.8 9 675 |
| (522) | 1991 | 09 | 11.35451 | 23 | 16 | 22.30 | -09 | 54 | 29.8 | 9 675 |
| (522) | 1991 | 09 | 15.35226 | 23 | 13 | 46.60 | -10 | 13 | 12.4 | 9 675 |
| (522) | 1991 | 09 | 15.38958 | 23 | 13 | 45.10 | -10 | 13 | 22.6 | 9 675 |
| (522) | 1991 | 09 | 17.22847 | 23 | 12 | 34.43 | -10 | 21 | 39.0 | 9 675 |
| (522) | 1991 | 09 | 17.27188 | 23 | 12 | 32.72 | -10 | 21 | 50.7 | 9 675 |
| (522) | 1991 | 09 | 17.33941 | 23 | 12 | 30.07 | -10 | 22 | 08.9 | 14.8 9 675 |
| (522) | 1991 | 09 | 17.37222 | 23 | 12 | 28.73 | -10 | 22 | 17.1 | 9 675 |
| (546) | 1988 | 10 | 08.36111 | 02 | 58 | 08.67 | +22 | 51 | 03.2 | 7 675 |
| (546) | 1988 | 10 | 08.38889 | 02 | 58 | 07.35 | +22 | 51 | 10.1 | 7 675 |
| (637) | 1978 | 11 | 30.26007 | 03 | 37 | 32.94 | +19 | 48 | 17.1 | 6 675 |
| (637) | 1978 | 12 | 01.27691 | 03 | 36 | 43.02 | +19 | 45 | 29.3 | 6 675 |
| (749) | 1991 | 09 | 15.35226 | 23 | 41 | 22.08 | -11 | 04 | 58.5 | 9 675 |
| (749) | 1991 | 09 | 15.38958 | 23 | 41 | 19.83 | -11 | 05 | 15.0 | 9 675 |
| (749) | 1991 | 09 | 17.33941 | 23 | 39 | 25.83 | -11 | 18 | 52.8 | 15.2 9 675 |
| (749) | 1991 | 09 | 17.37222 | 23 | 39 | 23.85 | -11 | 19 | 05.9 | 9 675 |
| (802) | 1991 | 09 | 11.29878 | 23 | 05 | 15.61 | -09 | 39 | 51.8 | 16.2 9 675 |
| (802) | 1991 | 09 | 11.35451 | 23 | 05 | 11.90 | -09 | 40 | 04.4 | 9 675 |
| (809) | 1991 | 09 | 15.35226 | 23 | 42 | 54.79 | -07 | 07 | 28.9 | 9 675 |
| (809) | 1991 | 09 | 15.38958 | 23 | 42 | 53.09 | -07 | 07 | 52.3 | 9 675 |
| (809) | 1991 | 09 | 17.33941 | 23 | 41 | 34.46 | -07 | 30 | 20.3 | 14.0 9 675 |
| (809) | 1991 | 09 | 17.37222 | 23 | 41 | 33.03 | -07 | 30 | 42.3 | 9 675 |
| (901) | 1978 | 11 | 30.26007 | 03 | 33 | 55.36 | +21 | 53 | 52.6 | 6 675 |
| (901) | 1978 | 12 | 01.27691 | 03 | 32 | 53.84 | +21 | 47 | 45.7 | 6 675 |
| (951) | 1981 | 05 | 08.38542 | 14 | 47 | 06.42 | -19 | 21 | 49.0 | 6 675 |
| (951) | 1981 | 05 | 09.28958 | 14 | 46 | 09.44 | -19 | 16 | 18.5 | 6 675 |
| (958) | 1991 | 09 | 11.29878 | 23 | 04 | 16.54 | -05 | 40 | 50.0 | 16.5 9 675 |
| (958) | 1991 | 09 | 11.35451 | 23 | 04 | 14.28 | -05 | 41 | 00.0 | 9 675 |
| (958) | 1991 | 09 | 17.22847 | 23 | 00 | 27.24 | -05 | 58 | 07.9 | 9 675 |
| (958) | 1991 | 09 | 17.27188 | 23 | 00 | 25.56 | -05 | 58 | 15.0 | 9 675 |
| (1044) | 1991 | 09 | 15.35226 | 23 | 18 | 49.51 | -12 | 04 | 08.5 | 9 675 |
| (1044) | 1991 | 09 | 15.38958 | 23 | 18 | 47.47 | -12 | 04 | 17.8 | 9 675 |
| (1044) | 1991 | 09 | 17.33941 | 23 | 17 | 05.33 | -12 | 11 | 57.5 | 14.8 9 675 |
| (1044) | 1991 | 09 | 17.37222 | 23 | 17 | 03.50 | -12 | 12 | 04.9 | 9 675 |
| (1061) | 1991 | 09 | 15.35226 | 23 | 32 | 21.09 | -07 | 23 | 01.5 | 9 675 |
| (1061) | 1991 | 09 | 15.38958 | 23 | 32 | 19.36 | -07 | 23 | 12.9 | 9 675 |
| (1061) | 1991 | 09 | 17.33941 | 23 | 30 | 52.13 | -07 | 32 | 52.6 | 15.2 9 675 |
| (1061) | 1991 | 09 | 17.37222 | 23 | 30 | 50.60 | -07 | 33 | 01.8 | 9 675 |
| (1062) | 1977 | 10 | 17.26458 | 01 | 20 | 24.62 | +14 | 37 | 58.3 | 4 675 |
| (1062) | 1977 | 10 | 17.33177 | 01 | 20 | 21.04 | +14 | 37 | 45.0 | 4 675 |
| (1080) | 1991 | 09 | 11.29878 | 23 | 06 | 12.66 | -08 | 24 | 15.0 | 15.0 9 675 |
| (1080) | 1991 | 09 | 11.35451 | 23 | 06 | 09.07 | -08 | 24 | 25.8 | 9 675 |
| (1080) | 1991 | 09 | 17.22847 | 23 | 00 | 11.18 | -08 | 42 | 05.7 | 9 675 |
| (1080) | 1991 | 09 | 17.27188 | 23 | 00 | 08.45 | -08 | 42 | 12.5 | 9 675 |
| (1164) | 1991 | 09 | 15.35226 | 23 | 31 | 42.87 | -13 | 16 | 17.1 | 9 675 |
| (1164) | 1991 | 09 | 15.38958 | 23 | 31 | 40.87 | -13 | 16 | 49.4 | 9 675 |
| (1164) | 1991 | 09 | 17.33941 | 23 | 30 | 00.00 | -13 | 44 | 27.2 | 9 675 |

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| (1164) | | 1991 | 09 | 17.37222 | 23 | 29 | 58.40 | -13 | 44 | 50.3 | | 9 | 675 |
| (1232) | | 1988 | 10 | 08.36111 | 02 | 45 | 38.91 | +25 | 58 | 42.2 | | 7 | 675 |
| (1232) | | 1988 | 10 | 08.38889 | 02 | 45 | 37.86 | +25 | 58 | 37.7 | | 7 | 675 |
| (1261) | | 1991 | 09 | 15.35226 | 23 | 32 | 07.69 | -06 | 32 | 52.0 | | 9 | 675 |
| (1261) | | 1991 | 09 | 15.38958 | 23 | 32 | 06.07 | -06 | 33 | 01.9 | | 9 | 675 |
| (1261) | | 1991 | 09 | 17.33941 | 23 | 30 | 42.61 | -06 | 41 | 34.9 | | 9 | 675 |
| (1261) | | 1991 | 09 | 17.37222 | 23 | 30 | 41.68 | -06 | 41 | 41.0 | | 9 | 675 |
| (1318) | | 1991 | 09 | 15.35226 | 23 | 28 | 48.61 | -10 | 00 | 34.8 | | 9 | 675 |
| (1318) | | 1991 | 09 | 15.38958 | 23 | 28 | 45.74 | -10 | 00 | 32.8 | | 9 | 675 |
| (1318) | | 1991 | 09 | 17.33941 | 23 | 26 | 17.47 | -09 | 58 | 56.3 | 16.8 | 9 | 675 |
| (1318) | | 1991 | 09 | 17.37222 | 23 | 26 | 14.92 | -09 | 58 | 54.0 | | 9 | 675 |
| (1319) | | 1978 | 11 | 30.26007 | 03 | 44 | 20.22 | +20 | 54 | 23.0 | | 6 | 675 |
| (1319) | | 1978 | 12 | 01.27691 | 03 | 43 | 29.13 | +20 | 51 | 02.0 | | 6 | 675 |
| (1438) | | 1981 | 05 | 08.35938 | 15 | 05 | 39.40 | -17 | 57 | 13.9 | | 6 | 675 |
| (1438) | | 1981 | 05 | 09.31562 | 15 | 04 | 55.30 | -17 | 53 | 52.6 | | 6 | 675 |
| (1439) | | 1981 | 05 | 08.35938 | 15 | 05 | 23.85 | -18 | 43 | 07.1 | | 6 | 675 |
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| (1448) | | 1991 | 09 | 17.37222 | 23 | 37 | 10.43 | -10 | 47 | 20.8 | | 9 | 675 |
| (1497) | | 1981 | 05 | 08.35938 | 15 | 11 | 12.28 | -19 | 24 | 24.3 | | 6 | 675 |
| (1497) | | 1981 | 05 | 09.31562 | 15 | 10 | 23.06 | -19 | 21 | 06.8 | | 6 | 675 |
| (1545) | | 1991 | 09 | 11.29878 | 23 | 16 | 17.73 | -08 | 53 | 43.9 | 17.0 | 9 | 675 |
| (1545) | | 1991 | 09 | 11.35451 | 23 | 16 | 14.98 | -08 | 54 | 01.1 | | 9 | 675 |
| (1545) | | 1991 | 09 | 15.35226 | 23 | 13 | 00.97 | -09 | 12 | 45.4 | | 9 | 675 |
| (1545) | | 1991 | 09 | 15.38958 | 23 | 12 | 59.15 | -09 | 12 | 55.6 | | 9 | 675 |
| (1545) | | 1991 | 09 | 17.22847 | 23 | 11 | 30.82 | -09 | 21 | 16.3 | | 9 | 675 |
| (1545) | | 1991 | 09 | 17.27188 | 23 | 11 | 28.63 | -09 | 21 | 27.8 | | 9 | 675 |
| (1545) | | 1991 | 09 | 17.33941 | 23 | 11 | 25.36 | -09 | 21 | 46.4 | 16.8 | 9 | 675 |
| (1545) | | 1991 | 09 | 17.37222 | 23 | 11 | 23.70 | -09 | 21 | 54.4 | | 9 | 675 |
| (1561) | | 1978 | 11 | 30.26007 | 03 | 42 | 30.29 | +18 | 52 | 55.8 | | 6 | 675 |
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| (1587) | | 1988 | 10 | 08.36111 | 02 | 59 | 32.05 | +25 | 08 | 49.2 | | 7 | 675 |
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| (1688) | | 1978 | 11 | 30.26007 | 03 | 34 | 27.61 | +21 | 11 | 45.4 | | 6 | 675 |
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| (1713) | | 1978 | 11 | 30.26007 | 03 | 31 | 04.73 | +18 | 56 | 52.2 | | 6 | 675 |
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| (1770) | | 1991 | 09 | 15.35226 | 23 | 33 | 37.02 | -07 | 55 | 45.8 | | 9 | 675 |
| (1770) | | 1991 | 09 | 15.38958 | 23 | 33 | 34.80 | -07 | 55 | 54.2 | | 9 | 675 |
| (1770) | | 1991 | 09 | 17.33941 | 23 | 31 | 42.54 | -08 | 03 | 00.7 | 15.8 | 9 | 675 |
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| (1837) | | 1988 | 10 | 08.36111 | 03 | 09 | 32.76 | +23 | 23 | 57.2 | | 7 | 675 |
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| (1841) | | 1981 | 05 | 08.35938 | 14 | 58 | 14.27 | -17 | 01 | 54.3 | | 6 | 675 |
| (1841) | | 1981 | 05 | 09.31562 | 14 | 57 | 30.70 | -16 | 59 | 30.9 | | 6 | 675 |
| (1879) | | 1981 | 05 | 08.35938 | 15 | 08 | 52.12 | -18 | 43 | 28.5 | | 6 | 675 |
| (1879) | | 1981 | 05 | 09.31562 | 15 | 07 | 51.87 | -18 | 38 | 50.7 | | 6 | 675 |
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| (1974) | | 1991 | 09 | 11.29878 | 23 | 25 | 44.00 | -04 | 00 | 51.6 | 17.5 | 9 | 675 |
| (1974) | | 1991 | 09 | 11.35451 | 23 | 25 | 41.70 | -04 | 01 | 16.1 | 17.8 | 9 | 675 |
| (1974) | | 1991 | 09 | 17.22847 | 23 | 21 | 44.70 | -04 | 44 | 35.7 | | 9 | 675 |
| (2057) | | 1981 | 05 | 08.35938 | 15 | 03 | 46.63 | -18 | 25 | 10.7 | 18.0 | 6 | 675 |
| (2057) | | 1981 | 05 | 09.31562 | 15 | 03 | 01.66 | -18 | 22 | 19.9 | | 6 | 675 |
| (2174) | | 1991 | 09 | 11.29878 | 23 | 08 | 38.30 | -10 | 08 | 50.3 | 15.8 | 9 | 675 |
| (2174) | | 1991 | 09 | 11.35451 | 23 | 08 | 34.86 | -10 | 08 | 42.1 | | 9 | 675 |
| (2174) | | 1991 | 09 | 17.22847 | 23 | 02 | 58.58 | -09 | 52 | 19.5 | | 9 | 675 |

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| (2174) | 1991 09 17.27188 | 23 02 55.96 | -09 52 11.1 | | 9 | 675 |
| (2181) | 1991 09 15.35226 | 23 41 00.04 | -11 55 44.3 | | 9 | 675 |
| (2181) | 1991 09 15.38958 | 23 40 57.64 | -11 55 51.5 | | 9 | 675 |
| (2181) | 1991 09 17.33941 | 23 39 01.58 | -12 00 00.7 | 16.8 | 9 | 675 |
| (2181) | 1991 09 17.37222 | 23 38 59.57 | -12 00 04.5 | | 9 | 675 |
| (2182) | 1981 05 09.31562 | 15 10 48.28 | -17 37 48.4 | | 6 | 675 |
| (2213) | 1992 01 29.38333 | 08 34 13.13 | +18 44 18.2 | 16.0 | 2 | 675 |
| (2213) | 1992 01 29.40677 | 08 34 11.54 | +18 44 27.3 | | 2 | 675 |
| (2213) | 1992 01 31.39653 | 08 31 57.54 | +18 56 44.8 | | 2 | 675 |
| (2213) | 1992 01 31.42448 | 08 31 55.64 | +18 56 53.9 | | 2 | 675 |
| (2236) | 1988 10 08.36111 | 02 53 21.56 | +24 18 45.1 | | 7 | 675 |
| (2236) | 1988 10 08.38889 | 02 53 19.97 | +24 18 50.6 | | 7 | 675 |
| (2300) | 1991 09 11.29878 | 23 00 54.79 | -09 16 38.4 | 16.2 | 9 | 675 |
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| (2363) | 1977 10 16.26233 | 01 20 22.55 | +15 04 33.0 | | 4 | 675 |
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| (2363) | 1977 10 17.26458 | 01 19 53.20 | +14 58 13.3 | | 4 | 675 |
| (2363) | 1977 10 17.33177 | 01 19 51.23 | +14 57 48.2 | | 4 | 675 |
| (2393) | 1978 11 30.26007 | 03 37 08.39 | +16 09 21.0 | | 6 | 675 |
| (2393) | 1978 12 01.27691 | 03 36 22.35 | +16 04 14.4 | | 6 | 675 |
| (2425) | 1981 05 08.35938 | 14 52 19.34 | -14 16 53.8 | | 6 | 675 |
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| (2426) | 1978 11 30.26007 | 03 41 14.83 | +19 02 20.0 | | 6 | 675 |
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| (2454) | 1981 05 08.35938 | 15 01 25.06 | -20 13 08.5 | | 6 | 675 |
| (2454) | 1981 05 09.31562 | 15 00 24.84 | -20 06 38.2 | | 6 | 675 |
| (2606) | 1973 09 24.34688 | 23 58 40.27 | +05 15 11.8 | | 4 | 675 |
| (2606) | 1973 09 24.41597 | 23 58 37.13 | +05 14 41.5 | | 4 | 675 |
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| (2651) | 1992 01 30.31094 | 08 14 45.54 | +18 33 54.6 | 15.0 | 2 | 675 |
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| (2651) | 1992 02 01.23247 | 08 13 05.53 | +18 53 44.1 | | 2 | 675 |
| (2651) | 1992 02 01.27222 | 08 13 03.48 | +18 54 09.2 | | 2 | 675 |
| (2712) | 1978 11 30.26007 | 03 23 42.99 | +17 10 10.7 | | 6 | 675 |
| (2712) | 1978 12 01.27691 | 03 22 41.32 | +17 06 25.3 | | 6 | 675 |
| (2918) | 1991 09 11.29878 | 23 15 09.75 | -06 41 29.1 | 16.2 | 9 | 675 |
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| (2921) | 1978 11 30.26007 | 03 35 22.55 | +17 08 33.9 | | 6 | 675 |
| (2921) | 1978 12 01.27691 | 03 34 35.35 | +17 06 04.3 | | 6 | 675 |
| (2959) | 1991 09 15.35226 | 23 16 36.81 | -10 39 13.7 | | 9 | 675 |
| (2959) | 1991 09 15.38958 | 23 16 35.29 | -10 39 24.3 | | 9 | 675 |
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| (2959) | 1991 09 17.37222 | 23 15 19.16 | -10 49 06.3 | | 9 | 675 |
| (2981) | 1978 11 30.26007 | 03 45 12.81 | +18 54 11.0 | | 6 | 675 |
| (2981) | 1978 12 01.27691 | 03 44 24.47 | +18 51 33.4 | | 6 | 675 |
| (2982) | 1981 05 08.35938 | 14 50 59.60 | -17 09 54.4 | | 6 | 675 |
| (2982) | 1981 05 09.31562 | 14 50 09.03 | -17 08 52.9 | | 6 | 675 |
| (2996) | 1991 09 11.29878 | 23 18 46.81 | -02 53 48.1 | 16.2 | 9 | 675 |
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| (3019) | 1991 09 11.29878 | 23 17 57.39 | -09 21 21.8 | 16.5 | 9 | 675 |
| (3019) | 1991 09 11.35451 | 23 17 54.56 | -09 21 40.6 | | 9 | 675 |
| (3019) | 1991 09 15.35226 | 23 14 46.52 | -09 42 55.0 | | 9 | 675 |
| (3019) | 1991 09 15.38958 | 23 14 44.66 | -09 43 06.8 | | 9 | 675 |
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|---|---|---|---|---|---|---|---|---|---|---|
| (3019) | 1991 | 09 | 17.27188 | 23 | 13 | 17.28 | -09 | 52 | 42.5 | 9 675 |
| (3019) | 1991 | 09 | 17.33941 | 23 | 13 | 14.04 | -09 | 53 | 03.4 | 16.5 9 675 |
| (3019) | 1991 | 09 | 17.37222 | 23 | 13 | 12.43 | -09 | 53 | 12.6 | 9 675 |
| (3032) | 1991 | 09 | 15.35226 | 23 | 15 | 41.33 | -10 | 17 | 15.9 | 9 675 |
| (3032) | 1991 | 09 | 15.38958 | 23 | 15 | 39.49 | -10 | 17 | 26.2 | 9 675 |
| (3032) | 1991 | 09 | 17.33941 | 23 | 14 | 08.97 | -10 | 26 | 40.9 | 16.0 9 675 |
| (3032) | 1991 | 09 | 17.37222 | 23 | 14 | 07.35 | -10 | 26 | 49.8 | 9 675 |
| (3111) | 1981 | 05 | 08.35938 | 15 | 04 | 47.40 | -14 | 49 | 01.1 | 6 675 |
| (3111) | 1981 | 05 | 09.31562 | 15 | 03 | 46.57 | -14 | 45 | 14.8 | 6 675 |
| (3138) | 1978 | 12 | 01.27691 | 03 | 44 | 32.53 | +17 | 24 | 36.0 | 6 675 |
| (3238) | 1988 | 10 | 08.36111 | 03 | 07 | 25.14 | +26 | 02 | 23.0 | 7 675 |
| (3238) | 1988 | 10 | 08.38889 | 03 | 07 | 24.21 | +26 | 02 | 34.3 | 7 675 |
| (3280) | 1991 | 09 | 11.29878 | 23 | 17 | 52.52 | -02 | 12 | 47.3 | 15.5 9 675 |
| (3280) | 1991 | 09 | 11.35451 | 23 | 17 | 49.46 | -02 | 13 | 02.1 | 9 675 |
| (3280) | 1991 | 09 | 17.22847 | 23 | 12 | 50.40 | -02 | 37 | 57.2 | 9 675 |
| (3280) | 1991 | 09 | 17.27188 | 23 | 12 | 48.11 | -02 | 38 | 08.5 | 9 675 |
| (3297) | 1978 | 11 | 30.26007 | 03 | 31 | 19.12 | +15 | 58 | 39.1 | 6 675 |
| (3297) | 1978 | 12 | 01.27691 | 03 | 30 | 31.79 | +15 | 56 | 50.0 | 6 675 |
| (3541) | 1978 | 11 | 30.26007 | 03 | 41 | 57.68 | +16 | 20 | 24.2 | 6 675 |
| (3541) | 1978 | 12 | 01.27691 | 03 | 40 | 57.33 | +16 | 18 | 27.8 | 6 675 |
| (3748) | 1981 | 05 | 08.35938 | 15 | 02 | 37.66 | -19 | 52 | 59.5 | 6 675 |
| (3748) | 1981 | 05 | 09.31562 | 15 | 01 | 38.25 | -19 | 51 | 34.5 | 6 675 |
| (3785) | 1991 | 09 | 11.29878 | 23 | 08 | 13.96 | -06 | 22 | 38.4 | 16.5 9 675 |
| (3785) | 1991 | 09 | 11.35451 | 23 | 08 | 11.45 | -06 | 22 | 55.9 | 9 675 |
| (3785) | 1991 | 09 | 17.22847 | 23 | 04 | 01.61 | -06 | 53 | 24.2 | 9 675 |
| (3785) | 1991 | 09 | 17.27188 | 23 | 03 | 59.69 | -06 | 53 | 37.8 | 9 675 |
| (3807) | 1991 | 09 | 11.29878 | 22 | 56 | 35.36 | -07 | 26 | 28.3 | 16.0 9 675 |
| (3807) | 1991 | 09 | 11.35451 | 22 | 56 | 32.41 | -07 | 26 | 57.3 | 9 675 |
| (3814) | 1978 | 11 | 30.26007 | 03 | 36 | 35.38 | +17 | 11 | 31.2 | 6 675 |
| (3814) | 1978 | 12 | 01.27691 | 03 | 35 | 47.84 | +17 | 09 | 00.1 | 6 675 |
| (3821) | 1991 | 09 | 11.29878 | 22 | 59 | 19.00 | -07 | 10 | 01.0 | 18.0 9 675 |
| (3821) | 1991 | 09 | 11.35451 | 22 | 59 | 16.48 | -07 | 10 | 17.2 | 9 675 |
| (3837) | 1981 | 05 | 08.35938 | 14 | 57 | 11.47 | -17 | 54 | 55.6 | 6 675 |
| (4042) | 1991 | 09 | 15.35226 | 23 | 31 | 09.17 | -09 | 32 | 06.9 | 18.0 9 675 |
| (4042) | 1991 | 09 | 17.33941 | 23 | 29 | 17.70 | -09 | 43 | 02.9 | 17.8 9 675 |
| (4042) | 1991 | 09 | 17.37222 | 23 | 29 | 15.90 | -09 | 43 | 13.0 | 9 675 |
| (4056) | 1991 | 09 | 15.35226 | 23 | 33 | 30.69 | -13 | 03 | 43.7 | 17.5 9 675 |
| (4056) | 1991 | 09 | 17.33941 | 23 | 31 | 57.70 | -13 | 20 | 37.7 | 17.2 9 675 |
| (4056) | 1991 | 09 | 17.37222 | 23 | 31 | 56.14 | -13 | 20 | 54.1 | 9 675 |
| (4261) | 1981 | 05 | 09.28958 | 14 | 52 | 41.20 | -19 | 09 | 02.6 | 6 675 |
| (4406) | 1991 | 09 | 11.29878 | 23 | 25 | 57.42 | -06 | 22 | 40.3 | 18.5 9 675 |
| (4406) | 1991 | 09 | 11.35451 | 23 | 25 | 54.85 | -06 | 22 | 55.8 | 9 675 |
| (4406) | 1991 | 09 | 17.33941 | 23 | 21 | 39.36 | -06 | 50 | 38.3 | 18.0 9 675 |
| (4406) | 1991 | 09 | 17.37222 | 23 | 21 | 37.98 | -06 | 50 | 46.3 | 9 675 |
| (4441) | 1978 | 11 | 30.26007 | 03 | 32 | 47.75 | +18 | 56 | 36.5 | 6 675 |
| (4441) | 1978 | 12 | 01.27691 | 03 | 31 | 56.75 | +18 | 54 | 21.4 | 6 675 |
| (4506) | 1978 | 11 | 30.26007 | 03 | 33 | 39.99 | +18 | 50 | 11.0 | 6 675 |
| (4506) | 1978 | 12 | 01.27691 | 03 | 32 | 47.41 | +18 | 48 | 08.4 | 6 675 |
| (4619) | 1977 | 10 | 12.28681 | 01 | 05 | 58.95 | +09 | 56 | 05.9 | 4 675 |
| (4619) | 1977 | 10 | 12.35347 | 01 | 05 | 55.45 | +09 | 55 | 45.5 | 4 675 |
| (4734) | 1981 | 05 | 08.33333 | 15 | 04 | 27.77 | -18 | 26 | 01.5 | 6 675 |
| (4734) | 1981 | 05 | 09.31562 | 15 | 03 | 29.46 | -18 | 22 | 16.1 | 6 675 |
| (4741) | 1973 | 09 | 30.22257 | 00 | 47 | 25.99 | +02 | 49 | 02.5 | 4 675 |
| (4741) | 1973 | 09 | 30.28785 | 00 | 47 | 22.89 | +02 | 48 | 45.3 | 4 675 |
| (4741) | 1973 | 10 | 05.32917 | 00 | 43 | 34.77 | +02 | 26 | 59.0 | 4 675 |
| (4741) | 1973 | 10 | 05.39132 | 00 | 43 | 31.85 | +02 | 26 | 43.2 | 4 675 |
| (4778) | 1981 | 05 | 08.35938 | 15 | 02 | 55.66 | -17 | 45 | 06.6 | 6 675 |
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| (4846) | 1981 | 05 | 08.35938 | 14 | 54 | 48.80 | -19 | 53 | 12.2 | 6 675 |

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|---|---|---|---|---|---|---|---|
| (4846) | 1981 05 09.31562 | 14 54 02.52 | -19 51 00.0 | | 6 | 675 |
| (4971) | 1991 09 15.35226 | 23 42 09.03 | -07 34 55.2 | 17.0 | 9 | 675 |
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| (4972) | 1978 12 01.27691 | 03 42 33.50 | +17 58 07.5 | | 6 | 675 |
| (4980) | 1991 09 11.29878 | 23 22 28.05 | -06 58 20.1 | 17.0 | 9 | 675 |
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| (4980) | 1991 09 17.33941 | 23 17 58.40 | -07 25 20.5 | 17.0 | 9 | 675 |
| (4980) | 1991 09 17.37222 | 23 17 56.87 | -07 25 28.0 | | 9 | 675 |
| (4988) | 1991 09 11.29878 | 23 19 19.41 | -02 57 03.4 | 16.0 | 9 | 675 |
| (4988) | 1991 09 11.35451 | 23 19 16.63 | -02 57 26.0 | | 9 | 675 |
| (4988) | 1991 09 17.22847 | 23 14 49.20 | -03 37 38.5 | | 9 | 675 |
| (4988) | 1991 09 17.27188 | 23 14 47.16 | -03 37 56.1 | | 9 | 675 |
| (5000) | 1991 09 15.35226 | 23 35 36.82 | -07 36 55.8 | 16.5 | 9 | 675 |
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| (5005) | 1978 12 01.27691 | 03 23 11.38 | +21 20 10.6 | | 6 | 675 |
| (5009) | 1978 11 30.26007 | 03 40 18.94 | +20 19 29.7 | | 6 | 675 |
| (5009) | 1978 12 01.27691 | 03 39 12.45 | +20 16 24.0 | | 6 | 675 |
| (5043) | 1991 12 06.24322 | 03 56 34.82 | +21 06 36.3 | | 9 | 675 |
| (5043) | 1991 12 06.37344 | 03 56 28.19 | +21 06 20.1 | | 9 | 675 |

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E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff AZ 86001, U.S.A.
Observers H. L. Giclas, B. A. Skiff
Measurer B. A. Skiff

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| 1991 VL | 1982 07 24.30833 | 22 20 11.19 | -08 33 31.0 | | 688 |
| 1991 VL | 1982 07 24.31875 | 22 20 09.51 | -08 33 37.2 | | 688 |
| 1991 XX | 1974 08 10.16944 | 16 39 13.33 | -30 51 33.6 | | 688 |

690 Lowell Observatory
E. Bowell, Lowell Observatory, 1400 West Mars Hill Road, Flagstaff, AZ 86001, U.S.A.
Observers E. C. Slipher, C. W. Tombaugh
Measurers C. M. Olmstead, B. A. Skiff

| | | | | | | |
|---|---|---|---|---|---|---|
| 1931 TX2 | 1931 10 10.20833 | 23 49 30.02 | -00 50 16.6 | R | 690 |
| 1931 TZ2 | 1931 10 07.22500 | 00 03 28.86 | +04 23 34.6 | P | 690 |
| 1983 TR2 | 1930 12 13.19236 | 03 19 21.21 | +32 14 18.4 | | 690 |
| 1983 TR2 | 1930 12 16.19444 | 03 17 11.94 | +32 07 26.8 | R | 690 |
| 1987 DE6 | 1930 12 13.19236 | 03 25 39.50 | +27 09 50.6 | R | 690 |
| 1987 DE6 | 1930 12 14.20069 | 03 25 03.69 | +27 05 15.0 | R | 690 |
| 1987 DE6 | 1930 12 16.19444 | 03 23 57.57 | +26 56 18.3 | R | 690 |
| (41) | 1931 10 07.22500 | 00 03 25.69 | -01 41 31.7 | | 690 |
| (41) | 1931 10 10.20833 | 00 01 24.60 | -02 05 11.3 | | 690 |
| (41) | 1931 10 11.21181 | 00 00 45.23 | -02 12 57.0 | | 690 |
| (302) | 1931 10 07.22500 | 23 44 03.47 | -02 20 06.3 | | 690 |
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| (334) | 1931 10 10.20833 | 00 13 21.38 | -03 56 51.6 | | 690 |

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| (334) | | 1931 10 11.21181 | 00 12 47.63 | -04 00 36.2 | | | | 690 |
| (516) | | 1930 12 14.20069 | 02 42 32.03 | +34 03 11.1 | | | | 690 |
| (572) | | 1931 10 07.22500 | 23 49 49.16 | +02 32 30.4 | | | | 690 |
| (572) | | 1931 10 10.20833 | 23 48 09.72 | +01 55 25.9 | | | | 690 |
| (572) | | 1931 10 11.21181 | 23 47 38.67 | +01 43 15.6 | | | | 690 |
| (1030) | | 1931 10 07.22500 | 23 41 26.50 | +01 15 41.6 | | | R | 690 |
| (1030) | | 1931 10 10.20833 | 23 39 46.64 | +00 54 11.2 | | | | 690 |
| (1030) | | 1931 10 11.21181 | 23 39 14.49 | +00 47 03.2 | | | | 690 |
| (1155) | | 1930 12 16.19444 | 03 23 16.20 | +22 41 03.1 | | | R | 690 |
| (1176) | | 1930 12 14.20069 | 03 24 59.26 | +23 57 32.4 | | | p | 690 |
| (1205) | | 1931 10 07.22500 | 00 08 51.72 | -05 00 39.4 | | | | 690 |
| (1205) | | 1931 10 10.20833 | 00 06 16.95 | -04 45 30.9 | | | | 690 |
| (1205) | | 1931 10 11.21181 | 00 05 27.09 | -04 40 04.3 | | | | 690 |
| (1223) | | 1931 10 07.22500 | 00 05 24.99 | -02 01 15.9 | | | | 690 |
| (1223) | | 1931 10 10.20833 | 00 03 11.72 | -02 12 23.5 | | | | 690 |
| (1223) | | 1931 10 11.21181 | 00 02 28.28 | -02 15 57.1 | | | | 690 |
| (1396) | | 1930 12 13.19236 | 03 24 22.23 | +25 09 04.5 | | | R | 690 |
| (1442) | | 1931 10 10.20833 | 00 04 33.65 | +01 43 40.0 | | | R | 690 |
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| (1495) | | 1930 12 13.19236 | 03 35 24.86 | +34 34 52.8 | | | P | 690 |
| (1495) | | 1930 12 14.20069 | 03 34 31.09 | +34 31 41.3 | | | V | 690 |
| (1495) | | 1930 12 16.19444 | 03 32 47.82 | +34 25 03.3 | | | R | 690 |
| (1576) | | 1931 10 07.22500 | 23 37 04.25 | -02 50 14.0 | | | | 690 |
| (1576) | | 1931 10 10.20833 | 23 35 17.00 | -03 02 37.4 | | | R | 690 |
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| (1622) | | 1930 12 13.19236 | 03 27 51.10 | +27 54 42.8 | | | R | 690 |
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| (3588) | | 1930 12 16.19444 | 03 36 39.59 | +29 45 22.1 | | | R | 690 |
| (3820) | | 1930 12 13.19236 | 02 48 28.84 | +30 57 30.2 | | | I | 690 |
| (3820) | | 1930 12 16.19444 | 02 47 16.83 | +30 40 05.7 | | | P | 690 |

691 Kitt Peak, Steward Observatory
T. Gehrels, Space Sciences Building, University of Arizona,
Tucson, AZ 85721, U.S.A.
Observers T. Gehrels, D. Rabinowitz, J. V. Scotti
0.91-m SPACEWATCH telescope
GSC
See also MPC 9198, MPC 10373 and Astron. J. 91, 1242, 1986

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1992 BA | | 1992 02 10.09623 | 07 49 20.66 | +16 49 18.5 | | | | | 691 |
| 1992 BA | | 1992 02 10.10243 | 07 49 20.16 | +16 49 29.3 | | 20.6 | V | | 691 |
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| 1992 BD | | 1992 02 09.09299 | 03 23 13.78 | +25 28 12.0 | | 19.3 | V | | 691 |
| 1992 BD | | 1992 02 09.10812 | 03 23 14.75 | +25 28 27.5 | | | | | 691 |
| 1992 BD | | 1992 02 09.12060 | 03 23 15.57 | +25 28 40.6 | | | | | 691 |
| 1992 BE | | 1992 02 09.14033 | 07 53 39.49 | +24 36 32.3 | | | | | 691 |
| 1992 BE | | 1992 02 09.16687 | 07 53 38.68 | +24 36 34.3 | | | | | 691 |
| 1992 BE | | 1992 02 09.19621 | 07 53 37.80 | +24 36 35.8 | | 20.3 | V | | 691 |
| 1992 DU | * | 1992 02 26.46413 | 11 42 29.59 | +02 53 55.1 | | 19.3 | V | | 691 |
| 1992 DU | | 1992 02 26.48371 | 11 41 58.11 | +02 43 56.8 | | 19.5 | V | | 691 |
| 1992 DU | | 1992 02 26.50207 | 11 41 28.52 | +02 34 25.2 | | 19.5 | V | | 691 |
| 1992 DU | | 1992 02 26.50974 | 11 41 16.83 | +02 30 40.9 | | 19.8 | V | | 691 |
| 1992 DU | | 1992 02 26.52461 | 11 40 53.08 | +02 23 04.5 | | 19.9 | V | | 691 |
| 1992 DU | | 1992 02 26.53906 | 11 40 29.91 | +02 15 36.0 | | 19.6 | V | | 691 |
| 1992 DU | | 1992 02 27.20973 | 11 24 04.32 | -03 16 44.6 | | 19.9 | V | | 691 |
| 1992 DU | | 1992 02 27.21714 | 11 23 53.51 | -03 20 14.7 | | 19.5 | V | | 691 |
| 1992 DU | | 1992 02 27.22411 | 11 23 42.87 | -03 23 36.3 | | 19.5 | V | | 691 |
| 1992 DU | | 1992 02 27.23704 | 11 23 23.37 | -03 29 47.6 | | 19.0 | V | | 691 |
| 1992 DU | | 1992 02 27.24368 | 11 23 13.34 | -03 32 57.0 | | 19.0 | V | | 691 |
| 1992 DU | | 1992 02 27.33861 | 11 20 49.96 | -04 17 58.8 | | 19.1 | V | | 691 |

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| 1992 DU | 1992 02 27.34542 | 11 20 39.44 | -04 21 14.2 | 19.2 V | | | 691 |
| 1992 DU | 1992 02 27.48743 | 11 17 08.29 | -05 27 18.2 | 19.4 V | | | 691 |
| 1992 DU | 1992 02 27.49472 | 11 16 58.00 | -05 30 33.0 | 20.4 V | | | 691 |
| 1992 DU | 1992 02 28.29057 | 10 59 10.18 | -11 16 48.7 | | | | 691 |
| 1992 DU | 1992 02 28.30489 | 10 58 50.53 | -11 22 37.7 | 19.1 V | | | 691 |
| 1992 DU | 1992 02 29.29157 | 10 38 42.54 | -17 27 38.2 | 19.8 V | | | 691 |
| 1992 DU | 1992 02 29.29867 | 10 38 33.68 | -17 30 02.6 | 19.8 V | | | 691 |
| 1992 DU | 1992 02 29.30327 | 10 38 28.11 | -17 31 34.2 | 19.8 V | | | 691 |

760 Goethe Link
E. Bowell, Lowell Observatory, 1400 West Mars Hill Road,
Flagstaff, AZ 86001, U.S.A.
Observer V. Pytko
Measurer C. M. Olmstead
0.25-m refractor
PDS scanning microdensitometer
PPM, global solutions

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1966 DA | 1966 02 17.10740 | 08 16 47.28 | +05 15 58.3 | | | | 760 |
| 1966 DA | 1966 02 17.15288 | 08 16 44.90 | +05 16 02.3 | | | | 760 |
| (429) | 1966 02 17.10740 | 08 39 50.27 | +03 12 08.1 | | | E | 760 |
| (429) | 1966 02 17.15288 | 08 39 48.07 | +03 12 24.3 | | | E | 760 |
| (777) | 1966 02 17.10740 | 08 33 46.90 | +09 02 52.8 | | | | 760 |
| (777) | 1966 02 17.15288 | 08 33 44.71 | +09 02 53.4 | | | | 760 |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1931 UD | 1992 02 03.11336 | 06 41 34.15 | +37 39 14.2 | | | | 801 |
| 1931 UD | 1992 02 03.13166 | 06 41 33.46 | +37 39 06.5 | | | | 801 |
| 1931 UD | 1992 02 06.11542 | 06 39 46.90 | +37 18 40.4 | | | | 801 |
| 1931 UD | 1992 02 06.14693 | 06 39 45.79 | +37 18 27.0 | | | | 801 |
| 1936 QE1 | 1992 01 01.28429 | 08 00 15.03 | +02 25 55.5 | | | | 801 |
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| 1940 GO | 1992 01 01.43375 | 14 21 39.76 | -01 46 59.6 | | | | 801 |
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| 1976 WC1 | 1992 02 06.16844 | 08 12 52.20 | +34 52 39.3 | | | | 801 |
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| 1978 LG | 1992 02 06.05027 | 03 54 04.11 | +24 23 49.4 | | | | 801 |
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| 1978 RH1 | 1991 10 09.25436 | 01 31 10.81 | +07 38 55.0 | | | | 801 |
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| 1978 RH1 | 1991 10 11.23611 | 01 29 13.40 | +07 23 37.7 | | | | 801 |
| 1978 RH1 | 1991 10 11.25145 | 01 29 12.50 | +07 23 30.5 | | | | 801 |
| 1978 RH1 | 1991 11 06.12221 | 01 06 00.33 | +04 26 37.9 | | | | 801 |
| 1978 RH1 | 1991 11 06.13916 | 01 05 59.60 | +04 26 32.7 | | | | 801 |
| 1979 YO | 1992 02 06.33633 | 13 03 05.31 | +02 01 48.7 | | | | 801 |
| 1979 YO | 1992 02 06.36618 | 13 03 05.70 | +02 01 55.8 | | | | 801 |

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| 1980 | TX3 | 1992 | 02 | 05.25818 | 09 54 54.80 | +10 39 55.0 | 801 |
| 1980 | TX3 | 1992 | 02 | 05.27316 | 09 54 54.09 | +10 39 57.1 | 801 |
| 1980 | TL13 | 1992 | 02 | 06.44787 | 16 11 10.31 | -20 29 50.5 | 801 |
| 1980 | TL13 | 1992 | 02 | 06.45115 | 16 11 10.65 | -20 29 50.0 | 801 |
| 1981 | EY17 | 1987 | 11 | 23.27904 | 04 41 06.99 | +18 03 27.6 | 801 |
| 1981 | RP2 | 1992 | 02 | 07.19231 | 08 08 28.82 | +16 55 41.7 | 801 |
| 1981 | RP2 | 1992 | 02 | 07.20902 | 08 08 27.85 | +16 55 41.6 | 801 |
| 1981 | SD4 | 1992 | 02 | 07.04163 | 03 31 31.77 | +20 01 17.2 | 801 |
| 1981 | SD4 | 1992 | 02 | 07.06234 | 03 31 32.57 | +20 01 18.7 | 801 |
| 1981 | WA1 | 1991 | 12 | 05.19065 | 04 13 58.53 | +17 12 36.2 | 801 |
| 1981 | WA1 | 1991 | 12 | 05.21535 | 04 13 57.20 | +17 12 32.8 | 801 |
| 1982 | DU | 1992 | 02 | 05.25433 | 09 53 39.30 | +26 15 49.5 | 801 |
| 1982 | DU | 1992 | 02 | 05.30317 | 09 53 35.76 | +26 15 41.1 | 801 |
| 1982 | DU | 1992 | 02 | 07.32093 | 09 51 12.46 | +26 09 41.1 | 801 |
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| 1982 | FJ | 1992 | 02 | 06.04692 | 04 07 51.78 | +40 08 02.6 | 801 |
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| 1984 | DN | 1992 | 02 | 06.13683 | 06 47 38.08 | +15 30 03.8 | 801 |
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| 1985 | GW | 1992 | 02 | 07.10473 | 04 26 37.24 | +20 02 44.2 | 801 |
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| 1985 | RS | 1992 | 02 | 05.22632 | 09 38 22.81 | +27 46 45.0 | 801 |
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| 1985 | UB5 | 1992 | 02 | 06.12762 | 08 07 21.66 | +04 39 52.0 | 801 |
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| 1985 | UB5 | 1992 | 02 | 07.18800 | 08 06 35.01 | +04 44 45.3 | 801 |
| 1985 | UB5 | 1992 | 02 | 07.20139 | 08 06 34.39 | +04 44 48.7 | 801 |
| 1986 | QS | 1992 | 02 | 06.96263 | 01 45 26.03 | +19 11 27.3 | 801 |
| 1986 | QS | 1992 | 02 | 06.97463 | 01 45 27.17 | +19 11 32.4 | 801 |
| 1986 | RD1 | 1992 | 02 | 07.00617 | 02 16 56.60 | +22 15 34.1 | 801 |
| 1986 | RD1 | 1992 | 02 | 07.01655 | 02 16 57.46 | +22 15 36.3 | 801 |
| 1986 | RP1 | 1991 | 10 | 09.29891 | 01 47 32.59 | +08 39 31.7 | 801 |
| 1986 | RP1 | 1991 | 10 | 09.31531 | 01 47 31.79 | +08 39 25.8 | 801 |
| 1986 | RP1 | 1992 | 01 | 08.00167 | 01 27 13.98 | +05 39 03.8 | 801 |
| 1986 | RP1 | 1992 | 01 | 08.01811 | 01 27 14.63 | +05 39 08.1 | 801 |

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| 1986 | RP1 | 1992 | 01 | 08.97127 | 01 | 27 | 54.65 | +05 | 43 | 12.4 | 801 |
| 1986 | RP1 | 1992 | 01 | 08.99428 | 01 | 27 | 55.62 | +05 | 43 | 18.5 | 801 |
| 1986 | RU5 | 1992 | 02 | 07.10176 | 04 | 21 | 10.02 | +05 | 27 | 11.2 | 801 |
| 1986 | RU5 | 1992 | 02 | 07.13839 | 04 | 21 | 10.65 | +05 | 27 | 21.3 | 801 |
| 1986 | TM1 | 1992 | 02 | 07.33194 | 10 | 18 | 46.81 | -08 | 29 | 02.6 | 801 |
| 1986 | TM1 | 1992 | 02 | 07.34581 | 10 | 18 | 46.17 | -08 | 28 | 59.9 | 801 |
| 1987 | DJ | 1992 | 02 | 07.28308 | 09 | 14 | 13.97 | +28 | 38 | 39.7 | 801 |
| 1987 | DJ | 1992 | 02 | 07.29826 | 09 | 14 | 13.15 | +28 | 38 | 44.1 | 801 |
| 1987 | DS6 | 1992 | 02 | 03.12882 | 07 | 12 | 39.04 | +10 | 36 | 59.9 | 801 |
| 1987 | DS6 | 1992 | 02 | 03.14837 | 07 | 12 | 38.31 | +10 | 37 | 04.7 | 801 |
| 1987 | EH | 1992 | 02 | 07.26214 | 09 | 00 | 35.74 | +07 | 47 | 37.0 | 801 |
| 1987 | EH | 1992 | 02 | 07.27894 | 09 | 00 | 34.93 | +07 | 47 | 43.5 | 801 |
| 1987 | SM13 | 1992 | 02 | 06.31339 | 12 | 00 | 11.76 | +09 | 57 | 47.2 | 801 |
| 1987 | SM13 | 1992 | 02 | 06.33896 | 12 | 00 | 11.12 | +09 | 57 | 55.0 | 801 |
| 1987 | UX1 | 1992 | 02 | 06.13142 | 08 | 09 | 31.90 | +13 | 32 | 30.1 | 801 |
| 1987 | UX1 | 1992 | 02 | 06.16157 | 08 | 09 | 30.04 | +13 | 32 | 35.0 | 801 |
| 1987 | UX1 | 1992 | 02 | 07.19576 | 08 | 08 | 30.63 | +13 | 35 | 31.2 | 801 |
| 1987 | UX1 | 1992 | 02 | 07.21322 | 08 | 08 | 29.61 | +13 | 35 | 34.0 | 801 |
| 1987 | WF | 1992 | 02 | 06.30388 | 11 | 09 | 37.03 | +18 | 50 | 51.5 | 801 |
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| 1988 | BN2 | 1992 | 02 | 06.36966 | 13 | 50 | 59.98 | +28 | 10 | 25.9 | 801 |
| 1988 | CD4 | 1992 | 02 | 07.02797 | 03 | 24 | 44.73 | +19 | 37 | 42.3 | 801 |
| 1988 | CD4 | 1992 | 02 | 07.04867 | 03 | 24 | 45.62 | +19 | 37 | 43.1 | 801 |
| 1988 | ED | 1992 | 02 | 06.17082 | 08 | 23 | 19.62 | +31 | 05 | 08.1 | 801 |
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| 1988 | EM1 | 1992 | 02 | 07.19763 | 08 | 12 | 54.15 | +04 | 07 | 25.4 | 801 |
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| 1990 | HC1 | 1992 | 02 | 06.00917 | 02 | 23 | 00.83 | -08 | 03 | 40.0 | 801 |
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J. G. Sanguin, J. E. Torres, J. A. Vicentela

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Observers H. Debehogne, E. W. Elst, O. Hainaut, G. Pizarro, O. Pizarro, A. Smette
GPO 0.4-m astrograph, 1.0-m Schmidt, 1.5-m reflector + CCD

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|---|---|---|---|---|---|---|---|---|---|---|---|
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| 1991 | NE3 | | 1991 | 07 | 08.10660 | 20 | 03 | 50.70 | -11 | 34 | 34.1 | | 3 | 809 |
| 1991 | NE3 | | 1991 | 07 | 10.28368 | 20 | 02 | 08.09 | -11 | 41 | 56.5 | | 3 | 809 |
| 1991 | NE3 | | 1991 | 07 | 10.29410 | 20 | 02 | 07.60 | -11 | 41 | 58.6 | | 3 | 809 |
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| 1991 | NJ3 | | 1991 | 07 | 06.07951 | 19 | 28 | 29.38 | -18 | 56 | 02.8 | | 3 | 809 |
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| 1991 | NM3 | | 1991 | 07 | 06.11354 | 19 | 36 | 31.91 | -23 | 58 | 20.3 | | 3 | 809 |
| 1991 | NM3 | | 1991 | 07 | 07.28542 | 19 | 35 | 30.52 | -24 | 06 | 46.5 | | 3 | 809 |
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| 1991 | NN3 | | 1991 | 07 | 06.10312 | 19 | 36 | 43.29 | -24 | 14 | 49.1 | | 3 | 809 |
| 1991 | NN3 | | 1991 | 07 | 06.11354 | 19 | 36 | 42.66 | -24 | 14 | 50.6 | | 3 | 809 |
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| 1991 | NY3 | | 1991 | 07 | 10.08681 | 19 | 47 | 03.47 | -20 | 51 11.8 | 3 809 |
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|---|---|---|---|---|---|---|---|---|---|---|---|
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| 1991 | NA4 | | 1991 | 07 | 12.30035 | 20 | 02 | 29.02 | -10 | 41 | 09.7 | | 3 | 809 |
| 1991 | NA4 | | 1991 | 07 | 12.31076 | 20 | 02 | 28.52 | -10 | 41 | 08.5 | | 3 | 809 |
| 1991 | NA4 | | 1991 | 07 | 12.32118 | 20 | 02 | 27.98 | -10 | 41 | 07.4 | | 3 | 809 |
| 1991 | NB4 | * | 1991 | 07 | 08.17049 | 19 | 37 | 50.31 | -19 | 28 | 55.0 | 17.2 | 3 | 809 |
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| 1991 | NB4 | | 1991 | 07 | 08.19131 | 19 | 37 | 48.97 | -19 | 28 | 55.6 | | 3 | 809 |
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| 1991 | NB4 | | 1991 | 07 | 10.03993 | 19 | 35 | 51.42 | -19 | 30 | 16.8 | | 3 | 809 |
| 1991 | NB4 | | 1991 | 07 | 10.05035 | 19 | 35 | 50.73 | -19 | 30 | 17.4 | | 3 | 809 |
| 1991 | NB4 | | 1991 | 07 | 11.02743 | 19 | 34 | 47.84 | -19 | 31 | 00.0 | | 3 | 809 |
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| 1991 | NC4 | | 1991 | 07 | 18.10486 | 19 | 29 | 47.77 | -21 | 01 | 25.5 | | 3 | 809 |
| 1991 | ND4 | * | 1991 | 07 | 08.17049 | 19 | 38 | 51.06 | -19 | 05 | 36.0 | 17.4 | 3 | 809 |
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| 1991 | ND4 | | 1991 | 07 | 11.02743 | 19 | 36 | 26.87 | -19 | 07 | 31.5 | | 3 | 809 |
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| 1991 | ND4 | | 1991 | 07 | 11.04826 | 19 | 36 | 25.78 | -19 | 07 | 32.4 | | 3 | 809 |
| 1991 | NE4 | * | 1991 | 07 | 08.17049 | 19 | 40 | 23.92 | -19 | 43 | 49.3 | 17.2 | 3 | 809 |
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| 1991 | NE4 | | 1991 | 07 | 08.19131 | 19 | 40 | 22.78 | -19 | 43 | 51.2 | | 3 | 809 |
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| 1991 | NE4 | | 1991 | 07 | 08.22014 | 19 | 40 | 21.14 | -19 | 43 | 53.6 | | 3 | 809 |
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| 1991 | NE4 | | 1991 | 07 | 10.03993 | 19 | 38 | 38.74 | -19 | 46 | 09.8 | | 3 | 809 |
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| 1991 | NE4 | | 1991 | 07 | 11.03784 | 19 | 37 | 41.78 | -19 | 47 | 25.4 | | 3 | 809 |
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| 1991 | NF4 | * | 1991 | 07 | 08.17049 | 19 | 41 | 36.81 | -20 | 18 | 34.1 | 17.3 | 3 | 809 |
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| 1991 | NF4 | | 1991 | 07 | 08.19131 | 19 | 41 | 35.49 | -20 | 18 | 32.7 | | 3 | 809 |
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| 1991 NJ4 | | 1991 | 07 | 11.06076 | 19 | 42 | 15.68 | -18 | 04 | 52.3 | 3 809 |
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| 1991 NK4 | | 1991 | 07 | 11.06076 | 19 | 43 | 02.42 | -17 | 51 | 06.5 | 3 809 |
| 1991 NK4 | | 1991 | 07 | 11.07118 | 19 | 43 | 01.95 | -17 | 51 | 12.6 | 3 809 |
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| 1991 NV6 | * | 1991 | 07 | 12.05763 | 19 | 38 | 39.15 | -24 | 29 | 34.3 | 17.2 | 3 | 809 |
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| 1991 NZ6 | | 1991 | 07 | 13.08784 | 19 | 57 | 03.62 | -20 | 20 | 15.4 | | 3 | 809 |
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|---|---|---|---|---|---|---|---|---|---|---|---|
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| 1991 | NB7 | * | 1991 | 07 | 12.16077 | 19 | 50 | 17.70 | -17 | 32 | 40.0 | 17.6 | 3 | 809 |
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| 1991 | NB7 | | 1991 | 07 | 12.18159 | 19 | 50 | 16.58 | -17 | 32 | 45.3 | | 3 | 809 |
| 1991 | NB7 | | 1991 | 07 | 15.04617 | 19 | 47 | 42.96 | -17 | 44 | 12.1 | | 3 | 809 |
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| 1991 | NC7 | * | 1991 | 07 | 12.16077 | 19 | 51 | 31.02 | -17 | 35 | 00.8 | 17.4 | 3 | 809 |
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| 1991 | NC7 | | 1991 | 07 | 14.25591 | 19 | 49 | 35.35 | -17 | 36 | 28.7 | | 3 | 809 |
| 1991 | NC7 | | 1991 | 07 | 14.26633 | 19 | 49 | 34.77 | -17 | 36 | 28.9 | | 3 | 809 |
| 1991 | NC7 | | 1991 | 07 | 15.04617 | 19 | 48 | 51.76 | -17 | 37 | 04.7 | | 3 | 809 |
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| 1991 | NC7 | | 1991 | 07 | 16.26840 | 19 | 47 | 42.49 | -17 | 38 | 05.1 | | 3 | 809 |
| 1991 | NC7 | | 1991 | 07 | 16.27882 | 19 | 47 | 41.90 | -17 | 38 | 05.4 | | 3 | 809 |
| 1991 | ND7 | * | 1991 | 07 | 12.16077 | 19 | 53 | 09.61 | -17 | 48 | 28.7 | 17.4 | 3 | 809 |
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| 1991 | NE7 | | 1991 | 07 | 14.24548 | 19 | 51 | 36.81 | -17 | 28 | 36.2 | | 3 | 809 |
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| 1991 | NE7 | | 1991 | 07 | 15.05660 | 19 | 50 | 57.13 | -17 | 29 | 11.7 | | 3 | 809 |
| 1991 | NE7 | | 1991 | 07 | 15.06702 | 19 | 50 | 56.63 | -17 | 29 | 12.2 | | 3 | 809 |
| 1991 | NE7 | | 1991 | 07 | 16.25798 | 19 | 49 | 57.40 | -17 | 30 | 07.1 | | 3 | 809 |
| 1991 | NE7 | | 1991 | 07 | 16.26840 | 19 | 49 | 56.88 | -17 | 30 | 07.5 | | 3 | 809 |
| 1991 | NE7 | | 1991 | 07 | 16.27882 | 19 | 49 | 56.36 | -17 | 30 | 08.0 | | 3 | 809 |
| 1991 | NF7 | * | 1991 | 07 | 12.16077 | 19 | 56 | 41.22 | -16 | 55 | 23.8 | 17.4 | 3 | 809 |
| 1991 | NF7 | | 1991 | 07 | 12.17117 | 19 | 56 | 40.69 | -16 | 55 | 25.5 | | 3 | 809 |
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| 1991 | NF7 | | 1991 | 07 | 16.26840 | 19 | 53 | 03.83 | -17 | 07 | 33.3 | | 3 | 809 |
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| 1991 | NG7 | | 1991 | 07 | 12.20903 | 19 | 59 | 13.85 | -17 | 56 | 11.6 | | 3 | 809 |
| 1991 | NG7 | | 1991 | 07 | 15.15938 | 19 | 56 | 43.85 | -18 | 03 | 46.4 | | 3 | 809 |
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| 1991 | NJ7 | * | 1991 | 07 | 12.23299 | 20 | 00 | 52.22 | -19 | 59 | 49.9 | 17.3 | 3 | 809 |
| 1991 | NJ7 | | 1991 | 07 | 12.24341 | 20 | 00 | 51.66 | -19 | 59 | 50.5 | | 3 | 809 |
| 1991 | NJ7 | | 1991 | 07 | 12.25381 | 20 | 00 | 51.09 | -19 | 59 | 51.3 | | 3 | 809 |
| 1991 | NJ7 | | 1991 | 07 | 14.31285 | 19 | 59 | 00.10 | -20 | 01 | 56.4 | | 3 | 809 |
| 1991 | NJ7 | | 1991 | 07 | 14.32326 | 19 | 58 | 59.52 | -20 | 01 | 56.9 | | 3 | 809 |
| 1991 | NJ7 | | 1991 | 07 | 14.33368 | 19 | 58 | 58.95 | -20 | 01 | 57.5 | | 3 | 809 |
| 1991 | NJ7 | | 1991 | 07 | 15.11354 | 19 | 58 | 16.81 | -20 | 02 | 45.7 | | 3 | 809 |
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| 1991 | NK7 | * | 1991 | 07 | 12.23299 | 20 | 02 | 45.68 | -19 | 48 | 50.6 | 17.8 | 3 | 809 |
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| 1991 | NL7 | | 1991 | 07 | 12.25381 | 20 | 03 | 31.55 | -20 | 09 | 02.0 | | 3 | 809 |
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| 1991 | NL7 | | 1991 | 07 | 15.11354 | 20 | 00 | 35.54 | -20 | 15 | 32.4 | | 3 | 809 |
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877 Okutama
S. Hayakawa, 1-31-33, Nagano, Gyoda-Shi, Saitama-Ken, 361 Japan
Observer T. Hioki
Measurers S. Hayakawa, T. Hioki
0.30-m f/3.8 hyperboloid astrocamera
GSC

| | | | | | | | | | |
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| 1992 AL | | 1992 01 27.57396 | 09 17 50.98 | +11 15 30.9 | 16.0 | | | 877 |
| 1992 AL | | 1992 01 27.59201 | 09 17 49.80 | +11 15 45.3 | | | | 877 |
| 1992 AL | | 1992 02 04.61215 | 09 10 28.62 | +12 53 25.2 | 15.5 | | | 877 |
| 1992 AL | | 1992 02 04.62951 | 09 10 27.56 | +12 53 38.8 | | | | 877 |
| 1992 AL | | 1992 02 08.61632 | 09 06 48.97 | +13 42 08.0 | | | | 877 |
| 1992 AL | | 1992 02 08.63403 | 09 06 47.68 | +13 42 22.8 | | | | 877 |
| 1992 AY | | 1992 01 28.62344 | 09 11 12.12 | +28 53 28.2 | 16.5 | | | 877 |
| 1992 AY | | 1992 01 28.64294 | 09 11 11.50 | +28 53 37.2 | | | | 877 |
| 1992 AY | | 1992 02 09.60243 | 09 01 07.50 | +30 34 19.0 | 16.0 | | | 877 |
| 1992 AY | | 1992 02 09.65660 | 09 01 04.61 | +30 34 40.3 | | | | 877 |
| 1992 AY | | 1992 02 09.67523 | 09 01 03.67 | +30 34 52.2 | | | | 877 |
| 1992 AY | | 1992 02 10.63993 | 09 00 15.81 | +30 41 50.9 | | | | 877 |
| 1992 AY | | 1992 02 10.66042 | 09 00 15.07 | +30 41 58.2 | | | | 877 |
| 1992 AE1 | | 1992 01 28.65775 | 09 21 09.88 | +26 46 36.9 | | | | 877 |
| 1992 AE1 | | 1992 01 28.67465 | 09 21 08.71 | +26 46 47.5 | | | | 877 |
| 1992 AF1 | | 1992 01 28.65775 | 09 18 16.30 | +24 32 32.2 | | | | 877 |
| 1992 AF1 | | 1992 01 28.67465 | 09 18 15.01 | +24 32 36.0 | | | | 877 |
| 1992 AO1 | | 1992 02 01.58368 | 09 52 42.00 | +21 13 16.4 | 16.5 | | | 877 |
| 1992 AO1 | | 1992 02 01.59063 | 09 52 40.98 | +21 13 20.5 | | | | 877 |
| 1992 AO1 | | 1992 02 02.59132 | 09 51 46.83 | +21 19 31.3 | 15.5 | | | 877 |
| 1992 AO1 | | 1992 02 02.60885 | 09 51 45.88 | +21 19 37.9 | | | | 877 |
| 1992 BN | | 1992 02 13.76181 | 09 33 29.73 | +20 09 09.4 | 16.5 | | | 877 |
| 1992 BN | | 1992 02 13.78229 | 09 33 28.96 | +20 09 13.1 | | | | 877 |
| 1992 CC | * | 1992 02 04.64514 | 10 45 27.84 | +06 25 53.7 | 16.5 | | | 877 |
| 1992 CC | | 1992 02 04.66354 | 10 45 27.15 | +06 26 03.7 | | | | 877 |
| 1992 CC | | 1992 02 08.65243 | 10 43 30.02 | +07 04 25.3 | 16.0 | | | 877 |
| 1992 CC | | 1992 02 08.67431 | 10 43 29.28 | +07 04 37.9 | | | | 877 |
| 1992 CD | * | 1992 02 04.64514 | 10 55 13.98 | +07 06 29.7 | 16.5 | | | 877 |
| 1992 CD | | 1992 02 04.66354 | 10 55 13.21 | +07 06 33.2 | | | | 877 |
| 1992 CD | | 1992 02 08.65243 | 10 52 49.78 | +07 18 08.3 | 16.5 | | | 877 |
| 1992 CD | | 1992 02 08.67431 | 10 52 48.94 | +07 18 13.8 | | | | 877 |
| (687) | | 1992 02 07.64907 | 10 54 04.01 | +07 11 27.5 | | | | 877 |
| (687) | | 1992 02 07.67118 | 10 54 02.91 | +07 11 31.3 | | | | 877 |
| (687) | | 1992 02 13.82882 | 10 48 27.59 | +07 20 07.0 | | | | 877 |
| (687) | | 1992 02 13.84583 | 10 48 26.39 | +07 20 02.1 | | | | 877 |

885 JCPM Yakiimo Station
T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan
Observers A. Natori, T. Urata
Measurer T. Urata
0.20-m f/4.0 hyperboloid astrocamera

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1992 BH | | 1992 02 22.50313 | 07 37 23.23 | +15 06 54.0 | 16.8 | | | 885 |
| 1992 BH | | 1992 02 22.53229 | 07 37 22.67 | +15 07 09.8 | | | | 885 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1992 CB | * | 1992 02 02.56424 | 09 17 29.75 | +01 13 09.6 | 16.5 | | 885 |
| 1992 CB | | 1992 02 02.57813 | 09 17 28.77 | +01 13 05.7 | | | 885 |
| 1992 CB | | 1992 02 08.67361 | 09 11 10.46 | +00 59 23.0 | 16 | | 885 |
| 1992 CB | | 1992 02 08.68125 | 09 11 09.96 | +00 59 22.8 | | | 885 |

886 Susono
T. Furuta, 17-2 Mitsuike, Kagiya, Tokai 477, Japan
Observers M. Akiyama, T. Furuta
Measurer T. Furuta
0.25-m f/4.2 Wright-Schmidt camera
GSC

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1990 QY7 | | 1992 02 02.57535 | 09 39 01.75 | +16 03 08.4 | 16.0 | | 886 |
| 1990 QY7 | | 1992 02 02.58628 | 09 39 01.03 | +16 03 11.6 | | | 886 |
| 1992 CU | * | 1992 02 13.71667 | 11 11 54.77 | +20 59 00.1 | 16.0 | | 886 |
| 1992 CU | | 1992 02 13.72882 | 11 11 54.29 | +20 59 04.4 | | | 886 |
| 1992 CU | | 1992 02 14.76250 | 11 11 13.98 | +21 06 48.1 | | | 886 |
| 1992 CU | | 1992 02 14.77344 | 11 11 13.49 | +21 06 51.5 | | | 886 |
| 1992 CU | | 1992 02 25.66563 | 11 03 13.70 | +22 22 59.5 | 16.0 | | 886 |
| 1992 CU | | 1992 02 25.67639 | 11 03 13.10 | +22 23 03.8 | | | 886 |
| 1992 CU | | 1992 02 26.53264 | 11 02 32.45 | +22 28 29.7 | | | 886 |
| 1992 CU | | 1992 02 26.54028 | 11 02 32.07 | +22 28 32.8 | | | 886 |
| 1992 DB | * | 1992 02 25.64132 | 11 21 02.91 | +09 14 48.3 | 16.0 | | 886 |
| 1992 DB | | 1992 02 25.65208 | 11 21 02.54 | +09 14 52.5 | | | 886 |
| 1992 DB | | 1992 02 27.78785 | 11 19 14.57 | +09 32 46.5 | | | 886 |

889 Karasuyama
T. Urata, 6-1, Muramatsubara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan
Observers S. Inoda, T. Urata
Measurer T. Urata
0.31-m f/5.6 reflector
ACRS, GSC

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1991 YX | | 1992 01 11.60451 | 07 08 43.14 | +17 35 40.9 | 17 | | 889 |
| 1991 YX | | 1992 01 11.62396 | 07 08 41.85 | +17 35 48.0 | | | 889 |

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 GU3 | | 1992 01 24.54444 | 07 48 41.06 | +23 44 27.8 | 17.5 | | 894 |
| 1976 GU3 | | 1992 01 24.55694 | 07 48 40.27 | +23 44 32.2 | | | 894 |
| 1982 DU | | 1992 02 06.66667 | 09 51 59.23 | +26 11 44.4 | 16.0 | | 894 |
| 1982 DU | | 1992 02 06.73733 | 09 51 53.96 | +26 11 31.5 | | | 894 |
| 1987 DW6 | | 1992 01 24.54444 | 07 46 30.22 | +23 30 23.9 | 17.2 | | 894 |
| 1987 DW6 | | 1992 01 24.55694 | 07 46 29.50 | +23 30 24.3 | | | 894 |
| 1987 DW6 | | 1992 01 26.60662 | 07 44 41.48 | +23 34 30.0 | 17.5 | | 894 |
| 1987 DW6 | | 1992 01 26.61910 | 07 44 40.84 | +23 34 31.1 | | | 894 |
| 1987 VQ | | 1992 01 12.64223 | 07 45 41.60 | +18 02 57.2 | 16.5 | | 894 |
| 1987 VQ | | 1992 01 12.65521 | 07 45 40.71 | +18 02 59.2 | | | 894 |
| 1987 VQ | | 1992 01 15.73385 | 07 42 32.28 | +18 11 48.9 | 16.5 | | 894 |
| 1990 SM2 | | 1992 01 10.68438 | 07 29 56.81 | +25 57 42.8 | 16.8 | | 894 |
| 1990 SM2 | | 1992 01 10.69826 | 07 29 55.87 | +25 57 45.2 | | | 894 |
| 1990 SQ16 | | 1992 02 26.64410 | 10 49 32.19 | +15 57 33.0 | 17.0 | | 894 |
| 1990 SQ16 | | 1992 02 26.65729 | 10 49 31.41 | +15 57 38.9 | | | 894 |
| 1990 SQ16 | | 1992 02 27.64931 | 10 48 30.94 | +16 04 47.9 | | | 894 |
| 1990 SQ16 | | 1992 02 27.66458 | 10 48 29.97 | +16 04 48.8 | | | 894 |
| 1990 TL4 | | 1992 01 12.64223 | 07 49 05.84 | +17 39 12.5 | 16.6 | | 894 |
| 1990 TL4 | | 1992 01 12.65521 | 07 49 05.06 | +17 39 11.2 | | | 894 |
| 1990 TL4 | | 1992 01 15.73385 | 07 46 08.49 | +17 40 52.6 | 16.8 | | 894 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1991 RA22 | | 1991 09 09.68715 | 23 24 10.72 | -07 40 23.3 | 16.8 | 894 |
| 1991 RA22 | | 1991 09 09.70035 | 23 24 10.05 | -07 40 26.3 | | 894 |
| 1991 VF4 | | 1991 11 12.61510 | 02 57 33.33 | +07 51 16.9 | 16.7 | 894 |
| 1991 VF4 | | 1991 11 12.62639 | 02 57 32.63 | +07 51 16.8 | | 894 |
| 1991 VK5 | | 1991 12 07.50781 | 02 55 20.45 | +05 06 05.5 | 17.0 | 894 |
| 1991 VK5 | | 1991 12 07.53472 | 02 55 19.51 | +05 06 09.3 | | 894 |
| 1991 XU | | 1992 02 02.51215 | 06 51 09.51 | +21 10 59.6 | 16.7 | 894 |
| 1991 XU | | 1992 02 02.52674 | 06 51 08.80 | +21 10 55.2 | | 894 |
| 1991 XU | | 1992 02 09.52882 | 06 46 43.00 | +20 44 29.2 | 17.0 | 894 |
| 1991 YF | | 1992 01 24.50625 | 07 03 27.93 | +23 17 09.1 | 16.5 | 894 |
| 1991 YF | | 1992 01 25.53576 | 07 02 24.02 | +23 12 58.4 | | 894 |
| 1991 YF | | 1992 01 25.54965 | 07 02 23.13 | +23 12 56.1 | | 894 |
| 1991 YF | | 1992 01 26.57755 | 07 01 20.96 | +23 08 43.3 | 16.5 | 894 |
| 1991 YF | | 1992 01 26.59132 | 07 01 20.04 | +23 08 39.2 | | 894 |
| 1991 YF | | 1992 01 27.60938 | 07 00 20.16 | +23 04 27.2 | 16.6 | 894 |
| 1991 YF | | 1992 01 28.67789 | 06 59 19.10 | +22 59 58.3 | 16.7 | 894 |
| 1992 AC | | 1992 01 14.66337 | 09 12 01.84 | +12 35 11.6 | | 894 |
| 1992 AC | | 1992 01 14.66529 | 09 12 02.08 | +12 35 18.1 | | 894 |
| 1992 AC | | 1992 01 14.66944 | 09 12 02.39 | +12 35 31.2 | | 894 |
| 1992 AL | | 1992 01 26.63576 | 09 18 40.94 | +11 04 19.9 | 16.8 | 894 |
| 1992 AL | | 1992 01 26.66215 | 09 18 39.36 | +11 04 38.0 | | 894 |
| 1992 AL | | 1992 01 27.63854 | 09 17 47.29 | +11 16 16.3 | 16.6 | 894 |
| 1992 AL | | 1992 01 27.65243 | 09 17 46.53 | +11 16 28.8 | | 894 |
| 1992 AL1 | | 1992 02 10.59809 | 07 30 20.02 | +24 10 09.8 | 17.0 | 894 |
| 1992 AL1 | | 1992 02 10.61076 | 07 30 19.40 | +24 10 12.2 | | 894 |
| 1992 AW1 | | 1992 01 12.65521 | 07 39 32.88 | +19 09 55.4 | 16.5 | 894 |
| 1992 AW1 | * | 1992 01 15.73385 | 07 36 20.57 | +19 12 58.8 | 16.8 | 894 |
| 1992 AW1 | | 1992 01 15.74479 | 07 36 19.86 | +19 12 59.1 | | 894 |
| 1992 CF | * | 1992 02 08.61288 | 09 26 31.32 | +04 32 10.7 | 17.0 | 894 |
| 1992 CF | | 1992 02 08.62674 | 09 26 30.35 | +04 32 13.0 | | 894 |
| 1992 CF | | 1992 02 10.62569 | 09 24 21.31 | +04 34 21.4 | 17.0 | 894 |
| 1992 CF | | 1992 02 10.63958 | 09 24 20.36 | +04 34 22.0 | | 894 |
| 1992 CF | | 1992 02 21.49549 | 09 12 59.99 | +04 53 02.0 | 17.0 | 894 |
| 1992 CF | | 1992 02 21.50660 | 09 12 59.04 | +04 53 04.7 | | 894 |
| 1992 CF | | 1992 02 26.55451 | 09 08 13.05 | +05 04 33.9 | 17.0 | 894 |
| 1992 CF | | 1992 02 27.50804 | 09 07 22.30 | +05 06 50.1 | 17.2 | 894 |
| 1992 CF | | 1992 02 27.52188 | 09 07 21.47 | +05 06 50.8 | | 894 |
| 1992 CO | * | 1992 02 12.71898 | 10 42 11.63 | +19 16 32.4 | 17.0 | 894 |
| 1992 CO | | 1992 02 12.73333 | 10 42 11.06 | +19 16 39.3 | | 894 |
| 1992 CO | | 1992 02 14.79566 | 10 40 42.93 | +19 32 14.4 | 16.8 | 894 |
| 1992 CO | | 1992 02 14.80833 | 10 40 42.43 | +19 32 21.9 | | 894 |
| 1992 CO | | 1992 03 01.57951 | 10 28 36.25 | +21 21 26.1 | 17.2 | 894 |
| 1992 CO | | 1992 03 01.59271 | 10 28 35.43 | +21 21 34.1 | | 894 |
| 1992 CO | | 1992 03 03.56563 | 10 27 03.90 | +21 33 13.3 | | 894 |
| 1992 CO | | 1992 03 03.57951 | 10 27 03.47 | +21 33 17.3 | | 894 |
| 4113 P-L | | 1992 01 09.64271 | 07 40 25.73 | +17 49 37.8 | 17.2 | 894 |
| 4113 P-L | | 1992 01 09.65729 | 07 40 24.67 | +17 49 38.3 | | 894 |
| 4113 P-L | | 1992 01 12.64223 | 07 37 21.27 | +17 56 20.0 | 17.0 | 894 |
| 4113 P-L | | 1992 01 12.65521 | 07 37 20.39 | +17 56 22.9 | | 894 |
| (922) | | 1992 02 08.61288 | 09 25 33.28 | +05 08 53.8 | | 894 |
| (922) | | 1992 02 08.62674 | 09 25 32.46 | +05 08 56.6 | | 894 |
| (922) | | 1992 02 10.62569 | 09 23 50.43 | +05 18 39.6 | | 894 |
| (922) | | 1992 02 10.63958 | 09 23 49.68 | +05 18 43.5 | | 894 |
| (3586) | | 1992 02 26.64410 | 10 49 07.94 | +16 10 29.6 | | 894 |
| (3586) | | 1992 02 26.65729 | 10 49 07.04 | +16 10 31.4 | | 894 |
| (4968) | | 1992 01 09.64271 | 07 44 03.82 | +18 00 09.5 | 16.5 | 894 |
| (4968) | | 1992 01 09.65729 | 07 44 02.80 | +18 00 12.3 | | 894 |
| (4968) | | 1992 01 12.64223 | 07 41 02.74 | +18 15 13.4 | 16.0 | 894 |
| (4968) | | 1992 01 12.65521 | 07 41 01.88 | +18 15 16.4 | | 894 |

| | | | | | | |
|---|---|---|---|---|---|---|
| (4968) | 1992 01 15.73385 | 07 37 55.17 | +18 30 56.4 | 16.5 | | 894 |
| (4968) | 1992 01 15.74479 | 07 37 54.41 | +18 30 59.3 | | | 894 |
| (5059) | 1991 12 14.77361 | 06 54 14.32 | +31 21 51.6 | | | 894 |

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Observers H. Shiozawa, M. Kizawa
Measurer M. Kizawa
0.20-m f/4.0 hyperboloid astrocamera, 0.20-m f/4.9 reflector
GSC

| | | | | | | |
|---|---|---|---|---|---|---|
| 1989 FA | 1991 12 14.68097 | 07 00 22.51 | +17 18 19.9 | 16 | | 898 |
| 1989 FA | 1991 12 14.69240 | 07 00 21.79 | +17 18 20.0 | 16 | | 898 |
| 1989 FA | 1991 12 30.49578 | 06 44 31.51 | +17 50 28.1 | 16.5 | | 898 |
| 1989 FA | 1991 12 30.51862 | 06 44 29.96 | +17 50 32.0 | 16.5 | | 898 |
| 1989 FA | 1992 01 01.63672 | 06 42 08.19 | +17 56 14.1 | 16 | | 898 |
| 1989 FA | 1992 01 01.65891 | 06 42 06.51 | +17 56 16.6 | 16 | | 898 |

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Observers K. Aksnes, O. Dahl
2-m Nordic optical telescope + CCD

| | | | | | | |
|---|---|---|---|---|---|---|
| 1988 QY | 1991 12 25.06676 | 04 57 44.12 | +00 56 20.0 | | | 950 |
| 1988 QY | 1991 12 25.07707 | 04 57 43.81 | +00 56 18.7 | | | 950 |
| 1988 RG1 | 1991 12 24.16181 | 06 09 47.55 | -03 23 52.5 | | | 950 |
| 1988 RG1 | 1991 12 24.16598 | 06 09 47.35 | -03 23 52.6 | | | 950 |
| 1988 RY10 | 1991 12 24.21003 | 06 02 53.40 | +22 27 18.7 | | | 950 |
| 1988 RY10 | 1991 12 24.21690 | 06 02 53.16 | +22 27 18.7 | | | 950 |
| 1988 RY10 | 1991 12 24.22357 | 06 02 52.97 | +22 27 18.3 | | | 950 |
| (4450) | 1991 12 24.98924 | 03 43 58.22 | +27 47 32.0 | | | 950 |
| (4450) | 1991 12 25.01308 | 03 43 56.13 | +27 47 22.6 | | | 950 |

* * * * *

ORBITAL ELEMENTS.

Orbital elements have been computed by the following contributors:

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S. Nakano, 3-19, 1 chome, Takenokuchi, Sumoto, Hyogo-ken 656, Japan (N)
T. Urata, 6-1, Muramatsuhara 1 Chome, Shimizu, Shizuoka-Ken 424, Japan (U)
G. V. Williams, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, U.S.A. (W)

The name of the orbit computer is shown on the line giving T for a comet and Epoch for a displayed minor-planet orbit; for many of the minor planets (O-C) residuals are shown in full (in R.A. and Decl.); observations are identified by date and observatory code, X referring to an approximate and Y to a semiaccurate position. For displayed minor planets "Id." shows those involved in establishing the identifications (generally with the prin-

cipal contributors first), "k" indicating key identifications and "d" (only) double (or multiple) designations; no identifier is shown if only the orbit computer is involved and the results were not previously published. J-P indicates that only the perturbations by the outer planets were considered, and a and n are then related by a gravitational constant augmented by the masses of the inner planets. For the one-opposition orbits, equinox 2000.0 is used, and the columns headed Arc and O show the time span in days covered by the observations and the number of observations utilized in the computation (0 = 10 or more). In the note column N, D means that there are double (or multiple) designations, E means that the value of the eccentricity was assumed, F means both; the double designations are listed at the end; the codes for the orbit computers (column C) are as listed above.

Comet Zanotta-Brewington (1991g1)
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5
T 1992 Jan. 31.99137 TT Nakano

| | | | | |
|---|---|---|---|---|
| q 0.6439682 | (2000.0) | P | Q |
| z -0.0000810 | Peri. 197.87249 | +0.05743377 | -0.67023040 |
| +/-0.0000173 | Node 254.90884 | +0.98374193 | +0.16431336 |
| e 1.0000522 | Incl. 50.02786 | +0.17015632 | -0.72373499 |

From 182 observations 1991 Dec. 24-1992 Feb. 25, mean residual 0".84.

Comet Bradfield (1992b)
T 1992 Mar. 19.53924 TT Marsden

| | | | |
|---|---|---|---|
| q 0.5001574 | (2000.0) | P | Q |
| | Peri. 15.33682 | +0.33700658 | +0.87624642 |
| | Node 275.35027 | -0.89611684 | +0.18632197 |
| e 1.0 | Incl. 20.23783 | -0.28879261 | +0.44438310 |

From 19 observations 1992 Feb. 2-13.

Comet Mueller (1991h1)
Epoch 1992 Apr. 8.0 TT = JDT 2448720.5
T 1992 Mar. 21.20003 TT Nakano

| | | | |
|---|---|---|---|
| q 0.1987705 | (2000.0) | P | Q |
| z -0.0008790 | Peri. 306.99023 | +0.26709932 | +0.20195118 |
| +/-0.0001541 | Node 288.78477 | -0.18351411 | -0.94924194 |
| e 1.0001747 | Incl. 95.56640 | -0.94603410 | +0.24115443 |

From 103 observations 1991 Dec. 13-1992 Feb. 26, mean residual 0".99.

Comet Helin-Alu (1992a)
Epoch 1992 June 27.0 TT = JDT 2448800.5
T 1992 July 8.86540 TT Marsden

| | | | |
|---|---|---|---|
| q 3.0123184 | (2000.0) | P | Q |
| z -0.0014623 | Peri. 239.97194 | -0.79666361 | -0.08676706 |
| +/-0.0000822 | Node 288.87765 | +0.45300696 | -0.74087677 |
| e 1.0044050 | Incl. 39.21009 | -0.40013970 | -0.66601283 |

From 35 observations 1992 Jan. 9-Feb. 29, mean residual 1".17.

One-opposition minor planets

| Planet | H | Epoch | M | Peri. | Node | Incl. | e | a | Arc | O | N | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1931 TZ2 | | 311006 | 38.70 | 109.70 | 196.48 | 12.57 | 0.2500 | 2.2687 | 4 | 3 | E | E |
| 1978 VN2 | 12.6 | 781108 | 38.46 | 358.43 | 1.82 | 1.35 | 0.1817 | 3.0935 | 31 | 5 | | E |
| 1978 VO2 | 13.8 | 781108 | 321.14 | 215.60 | 244.42 | 7.21 | 0.0944 | 2.6251 | 31 | 5 | | E |
| 1978 VP2 | 15.1 | 781108 | 291.88 | 217.97 | 284.31 | 1.88 | 0.1832 | 2.3575 | 31 | 5 | | E |
| 1978 VQ2 | 15.3 | 781108 | 322.71 | 208.51 | 252.19 | 3.93 | 0.1333 | 2.3081 | 31 | 5 | | E |
| 1978 XW | 13.4 | 781128 | 328.84 | 349.07 | 104.80 | 1.92 | 0.0884 | 2.9185 | 6 | 6 | | E |
| 1978 XX | 13.4 | 781128 | 212.02 | 147.56 | 62.95 | 14.68 | 0.0984 | 2.6230 | 6 | 6 | | E |
| 1978 XH1 | 14.4 | 781128 | 74.19 | 74.43 | 237.05 | 23.56 | 0.3000 | 2.3854 | 6 | 5 | E | E |
| 1978 XJ1 | 14.3 | 781128 | 92.80 | 88.79 | 227.58 | 2.85 | 0.1000 | 2.2226 | 6 | 5 | E | E |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1981 | JO | 14.6 | 810516 | 307.87 | 74.14 | 227.07 | 5.88 | 0.1861 | 2.1848 | 6 | 6 | D | E |
| 1981 | JP2 | 15.4 | 810516 | 325.19 | 22.31 | 260.39 | 2.31 | 0.2200 | 2.2207 | 6 | 5 | E | E |
| 1981 | JT2 | 15.0 | 810516 | 349.48 | 212.74 | 34.23 | 4.15 | 0.2252 | 2.7825 | 6 | 4 | | E |
| 1990 | HM3 | | 900419 | 245.26 | 305.53 | 84.66 | 2.69 | 0.1333 | 3.1638 | 3 | 3 | E | M |
| 1990 | HN3 | | 900419 | 52.04 | 182.19 | 9.11 | 0.32 | 0.1008 | 2.3648 | 3 | 3 | E | M |
| 1990 | HO3 | | 900419 | 183.65 | 12.42 | 68.12 | 2.39 | 0.1589 | 2.9013 | 3 | 3 | E | M |
| 1990 | HG5 | | 900419 | 11.99 | 160.71 | 70.08 | 7.05 | 0.2408 | 2.7995 | 3 | 3 | | M |
| 1990 | HH5 | | 900419 | 278.49 | 95.97 | 270.08 | 3.69 | 0.2065 | 3.2239 | 3 | 3 | E | M |
| 1990 | HK5 | | 900419 | 276.64 | 82.55 | 271.82 | 7.61 | 0.1091 | 2.8492 | 3 | 3 | E | M |
| 1990 | HL5 | | 900419 | 182.92 | 138.18 | 302.99 | 0.45 | 0.1242 | 3.2327 | 3 | 3 | E | M |
| 1990 | HM5 | | 900419 | 247.76 | 292.49 | 97.19 | 2.97 | 0.1227 | 3.8540 | 3 | 3 | E | M |
| 1990 | HN5 | | 900419 | 11.58 | 150.83 | 78.46 | 3.32 | 0.1881 | 2.2641 | 3 | 3 | E | M |
| 1990 | HO5 | | 900419 | 218.59 | 318.85 | 87.01 | 8.43 | 0.1046 | 2.4748 | 3 | 3 | E | M |
| 1990 | HP5 | | 900419 | 287.06 | 17.11 | 337.80 | 1.33 | 0.2023 | 2.9001 | 3 | 3 | E | M |
| 1990 | HQ5 | | 900419 | 47.17 | 97.86 | 84.91 | 5.72 | 0.2553 | 2.8677 | 3 | 3 | | M |
| 1990 | HR5 | | 900419 | 75.70 | 95.23 | 71.50 | 6.44 | 0.1562 | 3.0428 | 3 | 3 | E | M |
| 1990 | HS5 | | 900419 | 302.30 | 253.04 | 66.31 | 3.99 | 0.1092 | 2.1646 | 3 | 3 | E | M |
| 1990 | HT5 | | 900419 | 235.88 | 199.12 | 186.25 | 0.81 | 0.0870 | 2.1407 | 3 | 3 | E | M |
| 1990 | HU5 | | 900419 | 59.10 | 111.12 | 84.86 | 7.43 | 0.0517 | 3.0510 | 3 | 3 | E | M |
| 1990 | HV5 | | 900419 | 359.31 | 320.75 | 295.05 | 2.01 | 0.1946 | 2.9602 | 3 | 3 | | M |
| 1990 | HW5 | | 900419 | 105.68 | 243.75 | 254.45 | 10.64 | 0.1172 | 2.3441 | 3 | 3 | | M |
| 1990 | HX5 | | 900419 | 132.56 | 30.15 | 86.30 | 5.22 | 0.0827 | 2.2548 | 3 | 3 | E | M |
| 1990 | HY5 | | 900419 | 49.13 | 277.47 | 265.17 | 2.01 | 0.2288 | 2.6640 | 3 | 3 | E | M |
| 1990 | HZ5 | | 900419 | 184.55 | 351.08 | 90.51 | 11.49 | 0.1893 | 3.0797 | 3 | 3 | E | M |
| 1990 | HA6 | | 900419 | 149.49 | 23.60 | 78.87 | 7.58 | 0.0931 | 2.2922 | 3 | 3 | | M |
| 1990 | HB6 | | 900419 | 316.62 | 247.75 | 69.16 | 2.44 | 0.1646 | 3.0013 | 3 | 3 | | M |
| 1990 | HC6 | | 900419 | 308.89 | 245.77 | 67.12 | 1.75 | 0.0957 | 2.2789 | 3 | 3 | | M |
| 1990 | HD6 | | 900419 | 230.26 | 309.09 | 92.52 | 4.94 | 0.1310 | 2.7751 | 3 | 3 | E | M |
| 1990 | HE6 | | 900419 | 301.53 | 265.30 | 73.44 | 2.56 | 0.2100 | 2.7269 | 3 | 3 | | M |
| 1990 | HF6 | | 900419 | 230.95 | 337.57 | 65.82 | 3.27 | 0.1843 | 2.4963 | 3 | 3 | E | M |
| 1990 | HG6 | | 900419 | 43.65 | 322.29 | 253.29 | 3.30 | 0.0212 | 2.9640 | 3 | 3 | | M |
| 1990 | HH6 | | 900419 | 201.46 | 33.23 | 36.06 | 1.22 | 0.1621 | 3.1364 | 3 | 3 | | M |
| 1990 | HJ6 | | 900419 | 239.23 | 313.87 | 80.32 | 3.37 | 0.1849 | 2.2350 | 3 | 3 | E | M |
| 1990 | HK6 | | 900419 | 358.94 | 186.94 | 68.35 | 2.66 | 0.0547 | 2.3558 | 3 | 3 | E | M |
| 1990 | HL6 | | 900419 | 143.91 | 5.55 | 99.21 | 2.47 | 0.1858 | 2.2626 | 3 | 3 | E | M |
| 1990 | HM6 | | 900419 | 274.63 | 92.66 | 271.54 | 3.00 | 0.1584 | 2.8245 | 3 | 3 | E | M |
| 1990 | VB14 | 13.5 | 901125 | 5.62 | 124.38 | 293.72 | 1.62 | 0.1995 | 2.4226 | 36 | 8 | | W |
| 1991 | BA3 | 12.6 | 910305 | 216.38 | 145.51 | 140.20 | 10.87 | 0.0549 | 3.0046 | 54 | 0 | D | N |
| 1991 | FX2 | 13.1 | 910325 | 164.19 | 5.71 | 18.56 | 12.65 | 0.1517 | 2.5915 | 21 | 0 | D | N |
| 1991 | GR2 | 14.3 | 910414 | 264.65 | 295.67 | 18.60 | 2.23 | 0.1887 | 2.3005 | 27 | 0 | D | N |
| 1991 | GA3 | 15.0 | 910414 | 28.66 | 332.02 | 192.44 | 6.14 | 0.1030 | 2.4820 | 27 | 0 | D | N |
| 1991 | MB | 11.5 | 910703 | 359.34 | 211.25 | 40.90 | 0.72 | 0.1095 | 3.1477 | 5 | 0 | E | W |
| 1991 | NJ | 13.0 | 910703 | 339.28 | 210.77 | 106.45 | 13.65 | 0.1703 | 2.5984 | 8 | 0 | | W |
| 1991 | NU2 | 11.5 | 910703 | 0.63 | 186.41 | 98.28 | 9.19 | 0.1389 | 2.6280 | 2 | 9 | E | W |
| 1991 | NE3 | 13.5 | 910703 | 37.09 | 69.26 | 168.87 | 6.36 | 0.2077 | 2.8910 | 6 | 0 | E | W |
| 1991 | NF3 | 12.5 | 910703 | 301.32 | 101.32 | 272.71 | 11.78 | 0.2001 | 2.6387 | 12 | 0 | | W |
| 1991 | NG3 | 13.0 | 910703 | 321.91 | 81.47 | 267.75 | 11.48 | 0.2103 | 2.5747 | 8 | 0 | | W |
| 1991 | NR3 | 12.0 | 910703 | 359.80 | 358.37 | 290.01 | 7.82 | 0.0958 | 2.7789 | 2 | 7 | E | W |
| 1991 | NS3 | 11.5 | 910703 | 180.04 | 172.48 | 296.16 | 2.00 | 0.1379 | 2.4278 | 2 | 7 | E | W |
| 1991 | NU3 | 12.5 | 910703 | 295.48 | 97.95 | 287.08 | 5.84 | 0.1945 | 2.4464 | 4 | 8 | E | W |
| 1991 | NX3 | 13.0 | 910703 | 181.36 | 196.00 | 272.89 | 3.60 | 0.1002 | 2.2832 | 3 | 0 | E | W |
| 1991 | NY3 | 11.5 | 910703 | 176.13 | 1.17 | 113.07 | 16.52 | 0.1062 | 2.7219 | 3 | 0 | E | W |
| 1991 | NZ3 | 13.0 | 910703 | 358.13 | 47.73 | 248.46 | 7.75 | 0.1174 | 2.8299 | 4 | 0 | E | W |
| 1991 | NA4 | 13.0 | 910703 | 358.54 | 33.08 | 263.59 | 11.11 | 0.1122 | 3.0934 | 4 | 0 | E | W |
| 1991 | NB4 | 13.0 | 910703 | 178.98 | 196.74 | 272.97 | 4.12 | 0.0937 | 2.2994 | 3 | 9 | E | W |
| 1991 | NE4 | 14.0 | 910703 | 359.86 | 29.73 | 258.90 | 1.80 | 0.0989 | 2.5131 | 3 | 0 | E | W |
| 1991 | NF4 | 13.0 | 910703 | 179.03 | 183.22 | 287.32 | 11.08 | 0.1293 | 2.4478 | 3 | 0 | E | W |
| 1991 | NJ4 | 13.5 | 910703 | 174.91 | 350.69 | 123.22 | 9.72 | 0.1158 | 2.2518 | 3 | 9 | E | W |
| 1991 | NK4 | 13.0 | 910703 | 351.80 | 176.85 | 123.16 | 6.92 | 0.2096 | 2.2366 | 16 | 0 | | W |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1991 | NM4 | 13.0 | 910703 | 359.05 | 11.84 | 280.16 | 11.44 | 0.1389 | 2.9155 | 3 | 9 | E | W |
| 1991 | NG5 | 14.0 | 910703 | 358.14 | 358.70 | 292.98 | 4.39 | 0.2265 | 2.3930 | 14 | 0 | | W |
| 1991 | NU5 | 13.0 | 910703 | 358.82 | 129.98 | 164.80 | 7.62 | 0.1396 | 2.9031 | 2 | 9 | E | W |
| 1991 | NX5 | 12.0 | 910703 | 358.98 | 147.20 | 148.15 | 1.72 | 0.1289 | 3.1638 | 2 | 9 | E | W |
| 1991 | NZ5 | 12.5 | 910703 | 175.63 | 189.09 | 289.30 | 9.48 | 0.1304 | 2.6586 | 2 | 9 | E | W |
| 1991 | NA6 | 13.5 | 910703 | 99.82 | 271.05 | 264.19 | 2.64 | 0.1781 | 2.4539 | 6 | 0 | E | W |
| 1991 | NB6 | 14.0 | 910703 | 358.04 | 176.34 | 118.38 | 10.42 | 0.2258 | 2.5923 | 2 | 9 | E | W |
| 1991 | NC6 | 15.0 | 910703 | 357.76 | 166.76 | 127.80 | 1.47 | 0.1153 | 2.2687 | 2 | 9 | E | W |
| 1991 | ND6 | 12.5 | 910703 | 359.00 | 62.59 | 232.83 | 1.00 | 0.1381 | 2.9053 | 2 | 9 | E | W |
| 1991 | NE6 | 12.0 | 910703 | 358.59 | 4.23 | 291.72 | 6.40 | 0.1232 | 2.8559 | 2 | 9 | E | W |
| 1991 | NH6 | 12.5 | 910703 | 174.98 | 200.68 | 277.79 | 14.14 | 0.1369 | 2.4263 | 5 | 0 | E | W |
| 1991 | NJ6 | 14.5 | 910703 | 356.75 | 74.35 | 221.22 | 3.73 | 0.1273 | 2.3032 | 5 | 0 | E | W |
| 1991 | NK6 | 14.0 | 910703 | 357.36 | 92.87 | 200.92 | 2.30 | 0.0849 | 2.2003 | 5 | 9 | E | W |
| 1991 | NM6 | 13.5 | 910703 | 357.35 | 139.96 | 155.62 | 4.36 | 0.1339 | 2.6117 | 5 | 9 | E | W |
| 1991 | NP6 | 13.5 | 910703 | 356.67 | 11.79 | 285.46 | 9.67 | 0.1274 | 2.5920 | 5 | 9 | E | W |
| 1991 | NQ6 | 13.5 | 910703 | 297.21 | 95.06 | 275.93 | 4.52 | 0.1445 | 2.2466 | 5 | 9 | E | W |
| 1991 | NU6 | 14.5 | 910703 | 359.59 | 345.91 | 302.11 | 5.59 | 0.1365 | 2.3348 | 2 | 9 | E | W |
| 1991 | NV6 | 12.5 | 910703 | 2.61 | 336.30 | 309.48 | 5.94 | 0.1175 | 3.1341 | 2 | 9 | E | W |
| 1991 | NY6 | 14.0 | 910703 | 357.55 | 173.50 | 119.80 | 5.39 | 0.1301 | 2.3169 | 4 | 0 | E | W |
| 1991 | NZ6 | 13.5 | 910703 | 1.31 | 171.34 | 118.88 | 2.90 | 0.1087 | 2.8220 | 4 | 0 | E | W |
| 1991 | NA7 | 15.0 | 910703 | 359.05 | 359.28 | 292.11 | 5.25 | 0.1256 | 2.3052 | 4 | 0 | E | W |
| 1991 | NC7 | 14.5 | 910703 | 327.83 | 83.02 | 253.31 | 2.71 | 0.1878 | 2.4943 | 4 | 0 | E | W |
| 1991 | ND7 | 14.5 | 910703 | 24.79 | 80.05 | 169.73 | 1.89 | 0.2390 | 2.6165 | 4 | 0 | E | W |
| 1991 | NE7 | 12.5 | 910703 | 357.92 | 31.17 | 263.70 | 4.21 | 0.1206 | 3.1437 | 4 | 0 | E | W |
| 1991 | NF7 | 14.5 | 910703 | 22.85 | 51.25 | 195.14 | 1.57 | 0.2950 | 2.2834 | 4 | 9 | E | W |
| 1991 | NJ7 | 14.0 | 910703 | 356.98 | 7.80 | 287.75 | 2.55 | 0.1431 | 2.6433 | 4 | 0 | E | W |
| 1991 | NL7 | 13.0 | 910703 | 173.13 | 189.01 | 289.75 | 1.63 | 0.0787 | 2.3310 | 4 | 0 | E | W |
| 1991 | NM7 | 12.5 | 910703 | 0.27 | 158.00 | 135.14 | 1.91 | 0.0927 | 3.0462 | 4 | 0 | E | W |
| 1991 | OM1 | 10.5 | 910703 | 174.06 | 184.22 | 300.89 | 4.65 | 0.1322 | 2.6575 | 3 | 8 | E | W |
| 1991 | PU5 | 16.1 | 910812 | 33.09 | 159.29 | 121.57 | 2.88 | 0.1037 | 2.1782 | 29 | 9 | D | N |
| 1991 | PX5 | 15.0 | 910812 | 0.53 | 339.75 | 340.78 | 5.73 | 0.0398 | 2.3621 | 31 | 0 | D | N |
| 1991 | PN8 | 14.0 | 910812 | 314.50 | 211.89 | 175.51 | 1.95 | 0.2335 | 2.7656 | 45 | 0 | | W |
| 1991 | PE10 | 13.8 | 910901 | 336.12 | 37.46 | 338.74 | 8.70 | 0.1774 | 2.7894 | 35 | 7 | | E |
| 1991 | PH10 | 13.8 | 910901 | 324.04 | 274.38 | 116.22 | 1.67 | 0.1496 | 2.6177 | 41 | 0 | | E |
| 1991 | PU11 | 13.7 | 910901 | 343.92 | 22.27 | 343.34 | 4.94 | 0.1777 | 2.2647 | 41 | 0 | | E |
| 1991 | PT14 | 14.2 | 910812 | 486.26 | 51.28 | 141.85 | 2.81 | 0.0446 | 2.3721 | 31 | 0 | D | N |
| 1991 | PA15 | 15.5 | 910812 | 347.47 | 154.27 | 191.79 | 5.21 | 0.1688 | 2.3480 | 29 | 7 | D | N |
| 1991 | PO16 | 13.2 | 910901 | 56.62 | 110.33 | 162.68 | 13.33 | 0.1609 | 2.6706 | 41 | 0 | | E |
| 1991 | PP16 | 14.0 | 910901 | 3.34 | 189.86 | 151.71 | 5.40 | 0.1562 | 2.3923 | 41 | 0 | | E |
| 1991 | PS16 | 13.2 | 910901 | 101.92 | 92.61 | 138.87 | 6.14 | 0.1269 | 2.2728 | 41 | 6 | | E |
| 1991 | PU16 | 14.5 | 910901 | 17.63 | 303.49 | 21.14 | 3.27 | 0.1226 | 2.3730 | 41 | 0 | | E |
| 1991 | PV16 | 12.9 | 910901 | 330.91 | 289.24 | 96.89 | 3.06 | 0.1255 | 2.9330 | 41 | 6 | | E |
| 1991 | RL | 13.5 | 910901 | 30.48 | 302.68 | 343.86 | 36.74 | 0.3207 | 3.0405 | 7 | 9 | | E |
| 1991 | RF1 | 15.0 | 910901 | 41.13 | 133.94 | 147.63 | 3.06 | 0.2291 | 2.2365 | 10 | 0 | | W |
| 1991 | RG1 | 15.1 | 910921 | 16.78 | 294.29 | 32.43 | 1.72 | 0.2000 | 2.3704 | 10 | 0 | | E |
| 1991 | RH1 | 15.4 | 910921 | 352.01 | 5.65 | 359.51 | 5.02 | 0.2033 | 2.2755 | 10 | 0 | | E |
| 1991 | RJ1 | 14.7 | 910921 | 6.61 | 344.95 | 354.66 | 10.90 | 0.3107 | 2.6961 | 10 | 0 | | E |
| 1991 | RC2 | 13.5 | 910901 | 288.40 | 93.47 | 334.49 | 8.33 | 0.1042 | 2.3506 | 5 | 5 | | W |
| 1991 | RE2 | 14.5 | 910901 | 310.04 | 147.67 | 265.79 | 4.60 | 0.1420 | 2.2679 | 11 | 7 | D | N |
| 1991 | RH2 | 13.5 | 910901 | 342.20 | 12.90 | 355.58 | 10.11 | 0.1035 | 3.0279 | 10 | 0 | | W |
| 1991 | RQ2 | 16.0 | 910921 | 341.99 | 187.57 | 203.44 | 5.46 | 0.2315 | 2.3263 | 29 | 0 | | W |
| 1991 | RM6 | 13.5 | 910901 | 298.12 | 285.25 | 138.71 | 6.29 | 0.1402 | 2.3461 | 13 | 7 | | W |
| 1991 | RD7 | 13.0 | 910921 | 2.93 | 354.30 | 4.06 | 16.42 | 0.1835 | 2.5650 | 36 | 9 | | W |
| 1991 | RY8 | 14.2 | 910921 | 350.86 | 7.79 | 8.64 | 3.72 | 0.1389 | 2.2869 | 19 | 6 | D | N |
| 1991 | RR9 | 15.5 | 910921 | 4.64 | 5.37 | 347.32 | 3.29 | 0.2505 | 2.3381 | 29 | 9 | | W |
| 1991 | RT9 | 15.0 | 910921 | 15.14 | 22.46 | 315.03 | 1.64 | 0.2267 | 2.3846 | 29 | 7 | | W |
| 1991 | RU9 | 15.0 | 910921 | 11.53 | 64.42 | 281.31 | 1.17 | 0.1667 | 2.2901 | 29 | 7 | | W |
| 1991 | RN10 | 12.9 | 910921 | 0.11 | 6.25 | 3.83 | 5.76 | 0.1126 | 2.7667 | 25 | 0 | D | N |
| 1991 | RA13 | 14.5 | 910921 | 67.26 | 61.82 | 213.84 | 1.73 | 0.1653 | 2.7190 | 29 | 7 | | W |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1991 | RN13 | 14.5 | 910921 | 29.44 | 43.35 | 273.95 | 4.25 | 0.1956 | 2.2041 | 25 | 8 | D | N |
| 1991 | RS13 | 14.0 | 910921 | 53.18 | 4.60 | 288.23 | 4.35 | 0.1459 | 2.2338 | 17 | 6 | D | W |
| 1991 | RV13 | 14.0 | 910921 | 340.91 | 167.88 | 217.11 | 5.75 | 0.1202 | 2.3629 | 22 | 6 | | W |
| 1991 | RA14 | 13.0 | 910921 | 351.35 | 38.41 | 338.73 | 7.73 | 0.2698 | 3.9536 | 22 | 6 | | W |
| 1991 | RE14 | 14.0 | 910921 | 31.13 | 335.08 | 343.42 | 8.48 | 0.1656 | 2.3860 | 22 | 6 | | W |
| 1991 | RU17 | 14.0 | 910812 | 330.18 | 180.16 | 191.25 | 3.32 | 0.0293 | 2.2474 | 40 | 0 | D | W |
| 1991 | RX17 | 14.2 | 910921 | 23.26 | 144.84 | 177.50 | 4.63 | 0.1401 | 2.3522 | 4 | 6 | | E |
| 1991 | RY17 | 14.6 | 910921 | 336.27 | 23.86 | 1.19 | 7.49 | 0.1507 | 2.2155 | 4 | 0 | | E |
| 1991 | RD18 | 13.6 | 910921 | 144.95 | 41.71 | 160.22 | 4.93 | 0.1000 | 2.4602 | 4 | 6 | E | E |
| 1991 | RE18 | 13.8 | 910921 | 319.99 | 292.55 | 113.56 | 2.47 | 0.1553 | 2.6453 | 4 | 8 | | E |
| 1991 | RS20 | 12.8 | 910921 | 261.62 | 52.98 | 50.51 | 3.25 | 0.1000 | 2.9171 | 4 | 0 | E | E |
| 1991 | RT20 | 12.7 | 910921 | 228.42 | 132.28 | 10.65 | 9.86 | 0.2485 | 2.4281 | 3 | 6 | | E |
| 1991 | RX21 | 12.8 | 910921 | 311.16 | 253.10 | 158.92 | 13.80 | 0.1275 | 3.2111 | 6 | 6 | | E |
| 1991 | RA22 | 14.7 | 910921 | 353.42 | 338.20 | 24.07 | 2.85 | 0.2039 | 2.4300 | 8 | 6 | | N |
| 1991 | SJ | 14.5 | 910921 | 118.91 | 81.92 | 139.65 | 5.20 | 0.1129 | 2.1977 | 15 | 6 | | W |
| 1991 | SK | 12.0 | 910921 | 1.61 | 335.99 | 11.88 | 7.15 | 0.0893 | 3.2289 | 19 | 9 | | W |
| 1991 | XU | 12.1 | 920119 | 301.96 | 251.55 | 288.71 | 11.92 | 0.1148 | 2.5987 | 58 | 0 | | N |
| 1991 | YD | 13.6 | 920119 | 1.24 | 118.16 | 352.71 | 5.35 | 0.1602 | 2.4625 | 56 | 0 | | N |
| 1992 | AG | 12.4 | 920119 | 18.43 | 342.65 | 103.82 | 27.24 | 0.2454 | 2.3847 | 40 | 0 | | N |
| 1992 | AM | 13.5 | 920119 | 42.23 | 300.12 | 100.24 | 23.76 | 0.2782 | 2.3450 | 21 | 6 | | W |
| 1992 | AN | 12.5 | 920119 | 78.51 | 240.74 | 117.26 | 23.45 | 0.2786 | 2.3399 | 23 | 6 | | W |
| 1992 | AO | 12.5 | 920119 | 54.08 | 280.14 | 127.21 | 22.24 | 0.0937 | 2.3533 | 23 | 8 | | W |
| 1992 | AQ | 14.5 | 920119 | 352.96 | 19.68 | 105.82 | 24.91 | 0.2198 | 2.2884 | 22 | 8 | | W |
| 1992 | AR | 13.0 | 920119 | 356.58 | 19.87 | 93.98 | 10.56 | 0.1858 | 2.6307 | 23 | 6 | | W |
| 1992 | AY | 11.6 | 920119 | 6.60 | 18.78 | 100.98 | 15.35 | 0.1515 | 3.1277 | 37 | 0 | | N |
| 1992 | AB1 | 13.5 | 920119 | 10.21 | 214.70 | 252.39 | 5.84 | 0.0691 | 2.3261 | 30 | 0 | | U |
| 1992 | AC1 | 13.4 | 920119 | 30.78 | 156.62 | 272.58 | 11.59 | 0.2694 | 2.6176 | 30 | 0 | | N |
| 1992 | AE1 | 12.4 | 920119 | 2.73 | 27.01 | 97.66 | 10.64 | 0.1956 | 2.7323 | 18 | 8 | | N |
| 1992 | AL1 | 13.2 | 920119 | 19.26 | 343.12 | 111.89 | 6.71 | 0.0619 | 2.3468 | 31 | 0 | | N |
| 1992 | AO1 | 13.5 | 920208 | 23.84 | 40.89 | 62.51 | 4.08 | 0.2125 | 2.4121 | 25 | 9 | | N |
| 1992 | AP1 | 12.7 | 920208 | 358.95 | 209.52 | 267.43 | 0.64 | 0.1704 | 3.1655 | 11 | 6 | E | N |
| 1992 | AR1 | 12.8 | 920119 | 328.83 | 235.30 | 290.21 | 6.57 | 0.1918 | 2.6760 | 33 | 0 | | N |
| 1992 | AU1 | 13.0 | 920119 | 350.29 | 45.01 | 87.93 | 24.81 | 0.2537 | 2.2769 | 23 | 8 | | W |
| 1992 | AV1 | 14.0 | 920119 | 28.08 | 329.90 | 110.72 | 24.74 | 0.0728 | 1.9460 | 23 | 8 | | W |
| 1992 | AX1 | 14.0 | 920119 | 37.64 | 263.57 | 146.66 | 21.73 | 0.3250 | 2.2999 | 20 | 6 | | W |
| 1992 | BD | 15.0 | 920119 | 343.52 | 20.74 | 79.16 | 29.00 | 0.0702 | 1.9102 | 11 | 0 | | M |
| 1992 | BG | 13.0 | 920208 | 295.42 | 58.37 | 147.18 | 9.89 | 0.1529 | 2.3296 | 28 | 0 | | U |
| 1992 | BH | 11.8 | 920208 | 331.41 | 21.16 | 140.55 | 18.30 | 0.1537 | 3.1185 | 29 | 0 | | U |
| 1992 | BN | 11.4 | 920208 | 128.21 | 240.93 | 121.90 | 11.38 | 0.1109 | 3.0013 | 39 | 0 | | N |
| 1992 | BO | 13.5 | 920208 | 281.65 | 212.29 | 19.36 | 4.76 | 0.1188 | 2.2437 | 11 | 9 | | N |
| 1992 | BU | 13.9 | 920208 | 0.47 | 160.97 | 337.85 | 7.41 | 0.1404 | 2.6411 | 11 | 9 | | N |
| 1992 | BX | 13.7 | 920208 | 24.55 | 177.15 | 285.52 | 9.82 | 0.1945 | 2.3852 | 11 | 6 | | N |
| 1992 | BE1 | 13.3 | 920208 | 352.93 | 81.43 | 69.59 | 3.80 | 0.0583 | 2.2084 | 7 | 6 | | N |
| 1992 | BF1 | 14.5 | 920119 | 316.02 | 66.35 | 122.93 | 17.95 | 0.1525 | 1.9982 | 4 | 4 | | W |
| 1992 | BJ1 | 13.8 | 920208 | 33.69 | 3.01 | 78.11 | 3.94 | 0.2382 | 2.6767 | 11 | 8 | | N |
| 1992 | BK1 | 11.9 | 920208 | 13.15 | 180.33 | 309.09 | 12.12 | 0.1165 | 2.5831 | 32 | 8 | | N |
| 1992 | CF | 13.1 | 920228 | 280.60 | 308.74 | 284.20 | 9.71 | 0.0594 | 2.3831 | 19 | 8 | | N |
| 1992 | CJ | 13.8 | 920208 | 288.22 | 35.70 | 204.40 | 5.45 | 0.1131 | 2.2391 | 17 | 6 | | N |
| 1992 | CO | 11.8 | 920228 | 265.98 | 143.31 | 111.39 | 10.88 | 0.0554 | 3.0301 | 20 | 8 | | N |
| 1992 | CS | 12.0 | 920208 | 154.70 | 210.72 | 140.16 | 23.29 | 0.0675 | 3.2409 | 22 | 0 | | N |
| 1992 | CB1 | 12.4 | 920228 | 349.90 | 129.37 | 37.75 | 10.70 | 0.0301 | 2.9990 | 14 | 6 | | N |
| 1992 | CF1 | 13.7 | 920228 | 272.20 | 259.68 | 357.61 | 5.93 | 0.1529 | 2.4813 | 14 | 9 | | N |
| 1992 | DB | 13.7 | 920228 | 30.47 | 343.85 | 123.92 | 3.56 | 0.2967 | 2.3762 | 2 | 0 | | N |
| 1992 | DN | 11.9 | 920228 | 209.51 | 323.41 | 356.71 | 18.23 | 0.2812 | 2.9504 | 2 | 3 | E | N |

1981 JO = 1981 JJ3 (S. Nakano, MPC 10752)
1991 BA3 = 1991 EB2 (S. Nakano)
1991 FX2 = 1991 GL2 (S. Nakano)
1991 GR2 = 1991 FG4 (S. Nakano)
1991 GA3 = 1991 FH4 (S. Nakano)

1991 PU5 = 1991 RG12 (S. Nakano)
1991 PX5 = 1991 RF12 (S. Nakano)
1991 PT14 = 1991 RQ12 (S. Nakano)
1991 PA15 = 1991 RW6 (S. Nakano)
1991 RE2 = 1991 RH19 (S. Nakano)
1991 RY8 = 1991 SK1 (S. Nakano)
1991 RN10 = 1991 TS5 (S. Nakano)
1991 RN13 = 1991 SO1 (S. Nakano)
1991 RS13 = 1991 SP1 (G. V. Williams, S. Nakano)
1991 RU17 = 1991 PQ17 (S. Nakano)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(1308) Halleria Obs. 48 M 145.06622 Peri. 164.81117
H 10.8 G 0.15 Opp. 14 n 0.19858034 Node 354.55582
rms res. 1".19 (M-C) 1901-1990 e 0.0084870 Incl. 5.57598

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(1310) Villigera Obs. 42 M 147.80189 Peri. 87.72705
H 11.45 G 0.15 Opp. 15 n 0.26642602 Node 357.92398
rms res. 1".09 (M-C) 1932-1991 e 0.3566006 Incl. 21.06559

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(1312) Vassar Obs. 56 M 233.89875 Peri. 262.83057
H 10.8 G 0.15 Opp. 13 n 0.18165645 Node 129.61816
rms res. 0".90 (M-C) 1933-1991 e 0.2196964 Incl. 21.92948

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(2327) Gershberg Obs. 34 M 83.58238 Peri. 210.60563
H 13.9 G 0.15 Opp. 4 n 0.27042928 Node 175.16441
rms res. 1".07 (M-C) 1969-1987 e 0.1289768 Incl. 4.02868

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
(4778) 1978 TV8 Obs. 22 M 132.77776 Peri. 42.38771
H 12.6 G 0.15 Opp. 5 n 0.17574660 Node 35.39071
rms res. 0".86 (M-C) 1978-1991 e 0.1770129 Incl. 1.58728

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
(4846) 6575 P-L Obs. 19 M 81.80162 Peri. 82.52168
H 12.2 G 0.15 Opp. 5 n 0.17056497 Node 23.08168
rms res. 0".73 (M-C) 1960-1990 e 0.1325742 Incl. 5.27616

(5072)* 1931 TS1 = 1981 UX15 = 1986 WW10 = 1987 BH
Discovered 1931 Oct. 9 by K. Reinmuth at Heidelberg.
Id. S. Nakano (MPC 12795), H. Oishi (d, MPC 12560)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 88.42279 (2000.0) P Q
n 0.19862233 Peri. 359.75966 +0.98060680 -0.19585702
a 2.9092698 Node 11.54249 +0.17987227 +0.88502068
e 0.0841545 Incl. 2.03194 +0.07782206 +0.42234869
P 4.96 H 12.1 G 0.15
Residuals in seconds of arc

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 311009 | 024 | 1.0+ | 2.5- | 861201 | 381 | 1.0+ | 2.0+ | 911108 | 801 | 0.1+ | 0.1+ |
| 311017 | 024 | 0.2+ | 0.0 | 861201 | 381 | 0.2+ | 0.4+ | 911108 | 801 | 0.0 | 0.2+ |
| 311020 | 024 | (7.4- | 0.4-) | 870130 | 887 | 1.0- | 0.4- | 911203 | 675 | 0.7- | 1.2+ |
| 311102 | 024 | (7.3- | 0.4-) | 870130 | 887 | 0.1+ | 0.9+ | 911203 | 675 | 0.6- | 0.3- |
| 311103 | 024 | 1.1+ | 2.9- | 900915 | 675 | 0.4- | 1.8+ | 911205 | 801 | 0.2- | 0.0 |
| 811024 | 095 | (3.1+ | 2.0+) | 900915 | 675 | 0.5- | 1.8+ | 911205 | 801 | 0.1- | 0.6- |
| 861130 | 381 | (0.8+ | 2.7+) | 901114 | 801 | 0.3- | 0.6+ | | | | |
| 861130 | 381 | 0.0 | 1.4+ | 901114 | 801 | 0.2- | 0.2+ | | | | |

(5073)* 1943 EN = 1973 FW = 1978 YN = 1983 GM1
Discovered 1943 Mar. 3 by Y. Vaisala at Turku.
Id. T. Kobayashi (MPC 14342)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi

| | | | | |
|---|---|---|---|---|
| M | 273.47989 | (2000.0) | P | Q |
| n | 0.29674627 | Peri. 183.99510 | -0.94662463 | +0.32098541 |
| a | 2.2261061 | Node 14.83039 | -0.29245365 | -0.81677503 |
| e | 0.1005298 | Incl. 6.61794 | -0.13554581 | -0.47942353 |
| P | 3.32 | H 13.2 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 430303 | 062 | 0.6- | 0.9+ | 781222 | 095 | 0.3- | 0.5+ | 911103 | 801 | 0.2- | 0.3- |
| 430307 | 062 | 0.4- | 0.8- | 830409 | 095 | 0.1- | 0.3+ | 911103 | 801 | 0.3- | 0.1- |
| 430309 | 062 | 0.0 | 0.5- | 830411 | 095 | 0.1- | 0.4- | 911106 | 801 | 0.1- | 0.5- |
| 430325 | 062 | 1.0+ | 0.0 | 911010 | 801 | 0.0 | 0.1+ | 911106 | 801 | 0.3- | 0.4- |
| 730326 | 095 | 0.6- | 0.6+ | 911010 | 801 | 0.1+ | 0.2+ | | | | |

(5074)* 1949 QQ1 = 1980 RE4 = 1983 EL1
Discovered 1949 Aug. 24 at the Goethe Link Observatory.
Id. A. Lowe (k, MPC 13480), C. M. Bardwell (MPC 17011)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

| | | | | |
|---|---|---|---|---|
| M | 48.73442 | (2000.0) | P | Q |
| n | 0.19025881 | Peri. 84.87347 | +0.80821476 | -0.57785737 |
| a | 2.9939155 | Node 310.37325 | +0.46388223 | +0.74339948 |
| e | 0.0974803 | Incl. 8.56371 | +0.36277014 | +0.33680568 |
| P | 5.18 | H 11.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 490824 | 760 | 2.2- | 0.9+ | 900722 | 801 | 0.3+ | 0.9- | 911103 | 801 | 0.5+ | 1.2- |
| 490824 | 760 | 0.7+ | 2.2+ | 900722 | 801 | 0.4+ | 1.0- | 911106 | 801 | 0.1+ | 0.2- |
| 490921 | 760 | (6.8+ | 2.0+) | 900816 | 801 | 0.1+ | 1.2- | 911106 | 801 | 0.1+ | 0.2- |
| 490921 | 760 | (8.9+ | 2.6+) | 900816 | 801 | 0.3+ | 0.8- | 911205 | 801 | 0.2+ | 0.1- |
| 800907 | 095 | 0.9- | 1.5+ | 900817 | 801 | 0.6+ | 1.1- | 911205 | 801 | 0.1- | 0.4- |
| 800909 | 095 | 1.7- | 2.0+ | 900817 | 801 | 0.8+ | 1.1- | | | | |
| 830314 | 095 | 0.5+ | 0.8+ | 911103 | 801 | 0.6+ | 1.3- | | | | |

(5075)* 1969 TN4 = 1973 YA2 = 1988 XJ
Discovered 1969 Oct. 13 by B. A. Burnasheva at the Crimean Astrophysical Observatory.
Id. T. Kobayashi (MPC 14183)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi

| | | | | |
|---|---|---|---|---|
| M | 333.31480 | (2000.0) | P | Q |
| n | 0.26282538 | Peri. 183.85556 | +0.06324156 | -0.99773655 |
| a | 2.4137438 | Node 262.51957 | +0.91626090 | +0.06712296 |
| e | 0.1731543 | Incl. 1.32076 | +0.39555843 | +0.00403550 |
| P | 3.75 | H 13.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 691013 | 095 | 0.8- | 1.5+ | 881205 | 385 | 0.4- | 0.5- | 910807 | 675 | 0.0 | 2.7- |
| 691016 | 095 | 0.8- | 1.9+ | 881205 | 385 | 0.9- | 0.0 | 910904 | 809 | 0.2+ | 0.8+ |
| 691111 | 095 | (3.7- | 0.5+) | 881206 | 385 | 0.2+ | 0.4+ | 910904 | 809 | 0.1+ | 0.4- |
| 691113 | 095 | 1.3+ | 2.1- | 881206 | 385 | 0.1+ | 0.2+ | 910904 | 809 | 0.4+ | 0.5+ |
| 731220 | 095 | 0.3+ | 2.7- | 881228 | 896 | 1.7+ | 2.1+ | 910906 | 809 | 2.3+ | 0.9+ |
| 881203 | 385 | (4.2- | 3.3-) | 910805 | 675 | 0.6- | 1.7- | 910906 | 809 | 0.6- | 1.1+ |
| 881203 | 385 | 0.7- | 1.0- | 910805 | 675 | 1.1- | 1.2- | 910906 | 809 | 0.4+ | 1.0+ |

(5076)* 1973 SG4 = 1973 US3 = 1988 RS2
Discovered 1973 Sept. 26 by L. I. Chernykh at the Crimean Astrophysical Observatory.
Id. B. G. Marsden (d, MPC 9064), T. Kobayashi (MPC 13852)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi
M 332.82689 (2000.0) P Q
n 0.26234903 Peri. 219.02130 +0.66091810 -0.74994110
a 2.4166648 Node 189.71985 +0.72321865 +0.64639759
e 0.2326367 Incl. 9.49469 +0.20035481 +0.14056493
P 3.76 H 12.8 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 730926 | 095 | 0.8- | 0.0 | 881015 | 399 | 0.6+ | 0.3- | 910609 | 801 | 0.0 | 0.3- |
| 731002 | 095 | (0.8- | 5.1-) | 881015 | 399 | 0.1+ | 1.8- | 910613 | 801 | 0.9- | 0.3- |
| 731029 | 095 | 0.8+ | 0.2+ | 881015 | 399 | 0.4- | 0.5- | 910709 | 801 | 0.1+ | 0.3+ |
| 880905 | 675 | 0.9+ | 0.1+ | 900327 | 675 | 0.4- | 1.0- | 910709 | 801 | 0.0 | 0.6+ |
| 880907 | 675 | 0.8- | 0.6+ | 900327 | 675 | 0.2- | 1.1- | 910710 | 801 | 0.2+ | 0.2+ |
| 880917 | 095 | (0.8- | 6.1+) | 910609 | 801 | 0.1- | 0.5- | 910710 | 801 | 0.8+ | 0.7- |

(5077)* 1974 MG = 1981 SE3 = 1981 UH13
Discovered 1974 June 17 at El Leoncito.
Id. T. Furuta (JAM 1946)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 131.51036 (2000.0) P Q
n 0.29604068 Peri. 337.36163 +0.52724551 +0.84787856
a 2.2296419 Node 324.38837 -0.76418796 +0.44443870
e 0.1843213 Incl. 5.49946 -0.37152246 +0.28909548
P 3.33 H 14.2 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 740617 | 808 | 0.5+ | 0.3- | 740724 | 808 | 1.3+ | 0.1- | 910913 | 675 | 0.6+ | 0.5- |
| 740617 | 808 | 0.4- | 0.6- | 810927 | 095 | 0.1+ | 0.4- | 910915 | 675 | 0.5- | 0.3- |
| 740622 | 808 | 0.1- | 0.5+ | 811023 | 095 | 0.1+ | 0.4- | 910915 | 675 | 0.0 | 0.1+ |
| 740622 | 808 | 0.7- | 0.0 | 870501 | 801 | 0.2+ | 0.4+ | 911106 | 801 | 0.1+ | 1.0+ |
| 740719 | 808 | 0.5- | 0.3+ | 910913 | 801 | 0.4- | 0.5+ | 911106 | 801 | 0.3+ | 0.8+ |
| 740719 | 808 | 0.3- | 0.9- | 910913 | 801 | 0.3- | 0.4+ | | | | |
| 740724 | 808 | 0.3+ | 1.1+ | 910913 | 675 | 0.1- | 0.7- | | | | |

(5078)* 1974 SW = 1978 NY1 = 1987 RC = 1987 SZ5 = 1987 SV6
Discovered 1974 Sept. 19 by L. I. Chernykh at the Crimean Astrophysical Observatory.
Id. S. Nakano (MPC 12695)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 33.57583 (2000.0) P Q
n 0.22615343 Peri. 123.06013 +0.97851963 +0.20313283
a 2.6680907 Node 225.24746 -0.20177737 +0.90875594
e 0.2137567 Incl. 2.83807 -0.04225185 +0.36455411
P 4.36 H 13.6 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 740919 | 095 | 0.2- | 1.4+ | 870902 | 095 | 0.3- | 2.3- | 910611 | 801 | 0.3+ | 0.0 |
| 740921 | 095 | 0.1+ | 1.3+ | 870916 | 095 | (0.6+ | 4.5-) | 910614 | 801 | 1.9- | 0.9+ |
| 740923 | 095 | 1.1- | 1.0+ | 870918 | 071 | (3.5+ | 10.4-) | 910614 | 801 | 1.2+ | 0.9+ |
| 741009 | 095 | 0.2- | 0.2+ | 870918 | 071 | (2.7+ | 3.3-) | 910709 | 801 | 0.4- | 0.8- |
| 780706 | 095 | 0.3- | 1.2+ | 870920 | 095 | 0.5- | 1.9- | 910709 | 801 | 0.1+ | 0.6- |
| 870827 | 095 | 2.4+ | 0.3- | 870921 | 046 | (3.7+ | 4.1-) | 910710 | 801 | 0.7- | 0.0 |
| 870901 | 046 | (7.6+ | 2.4-) | 870921 | 046 | (7.3+ | 2.2-) | 910710 | 801 | 0.4+ | 0.5+ |
| 870901 | 046 | (8.3+ | 3.5-) | 910611 | 801 | 1.0+ | 0.6- | | | | |

(5079)* 1975 DB = 1979 BN = 1989 OK
Discovered 1975 Feb. 16 at El Leoncito.
Id. H. Oishi (JAM 1625), L. D. Schmadel (MPC 15062), C. M. Bardwell (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

| | | | | |
|---|---|---|---|---|
| M | 20.82424 | (2000.0) | P | Q |
| n | 0.22985568 | Peri. 245.14338 | -0.88898890 | -0.41812039 |
| a | 2.6393636 | Node 269.67334 | +0.45772204 | -0.79908984 |
| e | 0.2092683 | Incl. 10.76312 | +0.01375752 | -0.43200783 |
| P | 4.29 | H 12.6 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 750216 | 808 | 0.3- | 0.1+ | 750307 | 808 | 0.6+ | 0.1- | 790126 | 330 | 0.2- | 1.1- |
| 750216 | 808 | 0.4- | 0.5+ | 750307 | 808 | 0.2+ | 0.4+ | 890729 | 675 | 1.1+ | 0.8+ |
| 750217 | 808 | 0.1- | 0.0 | 750307 | 808 | 0.3- | 0.2- | 890729 | 675 | 1.7+ | 0.4+ |
| 750217 | 808 | 0.0 | 0.2- | 750307 | 808 | 0.2+ | 0.5- | 890731 | 675 | 0.5- | 1.3- |
| 750218 | 808 | 0.4+ | 0.2- | 750308 | 808 | 0.6+ | 0.3+ | 890731 | 675 | 1.5- | 1.9- |
| 750218 | 808 | 0.2- | 0.4+ | 750308 | 808 | 0.5+ | 0.4+ | 911106 | 801 | 0.2+ | 0.3+ |
| 750219 | 808 | 0.1+ | 0.2+ | 750308 | 808 | 0.5- | 0.3- | 911106 | 801 | 0.3+ | 0.2+ |
| 750219 | 808 | 0.1- | 0.2+ | 750308 | 808 | 0.6- | 0.9- | 920106 | 801 | 0.2- | 0.2- |
| 750306 | 808 | 0.0 | 1.3+ | 750309 | 808 | 0.3+ | 0.1- | 920106 | 801 | 0.1- | 0.2- |
| 750306 | 808 | 0.2+ | 0.5+ | 750309 | 808 | 0.8+ | 0.8- | 920107 | 801 | 0.2- | 0.3- |
| 750306 | 808 | 1.1- | 0.4- | 750309 | 808 | 0.5- | 0.4- | 920107 | 801 | 0.2- | 0.4- |
| 750306 | 808 | 0.1+ | 0.2+ | 750309 | 808 | 0.1- | 0.3- | | | | |

(5080)* 1976 EB = A924 SB = 1951 WO = 1951 XA = 1988 XH

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

Id. T. Kobayashi (MPC 14185), O. Kippes (d, MPC 969)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 16.30485 | (2000.0) | P | Q |
| n | 0.29362604 | Peri. 88.78485 | +0.27659314 | -0.96067535 |
| a | 2.2418489 | Node 345.08862 | +0.83953268 | +0.25395183 |
| e | 0.1239191 | Incl. 5.45822 | +0.46763353 | +0.11230021 |
| P | 3.36 | H 12.6 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 240929 | 024 | (5.4+ | 0.4-) | 760321 | 414 | 0.7+ | 1.5+ | 910807 | 801 | 0.6+ | 0.3- |
| 241001 | 024 | 0.8- | 1.0+ | 760321 | 414 | 2.3- | 0.3+ | 910807 | 801 | 0.7+ | 0.3- |
| 511128 | 094 | (65.3- | 26.6-)X | 760322 | 414 | (2.7- | 7.4-) | 910807 | 675 | 0.7+ | 1.3- |
| 511203 | 760 | 1.0- | 0.6+ | 760322 | 414 | (1.2- | 27.0+) | 910808 | 675 | 0.7+ | 1.4- |
| 511203 | 760 | 1.2+ | 0.1+ | 881202 | 888 | 2.5+ | 2.8- | 910812 | 801 | 0.7+ | 0.0 |
| 760302 | 049 | 0.0 | 0.1- | 881202 | 888 | 2.3+ | 1.8- | 910812 | 801 | 0.5+ | 0.0 |
| 760302 | 049 | 0.7+ | 0.0 | 881203 | 888 | 0.1- | 1.5+ | 910907 | 801 | 0.2- | 0.6+ |
| 760303 | 049 | 0.0 | 0.5- | 881203 | 888 | 1.8- | 1.5+ | 910907 | 801 | 0.4- | 0.5+ |
| 760303 | 049 | 0.2+ | 0.1+ | 881207 | 888 | 1.2- | 0.7+ | 910909 | 801 | 0.3- | 0.5+ |
| 760304 | 049 | 1.7+ | 0.7- | 881207 | 888 | 1.4- | 1.6+ | 910909 | 801 | 0.5- | 0.4+ |
| 760304 | 049 | 2.3+ | 1.2- | 881210 | 888 | 1.2- | 1.1- | 910913 | 675 | 0.1- | 0.4- |
| 760321 | 414 | (2.9- | 0.6-) | 881210 | 888 | 1.4+ | 2.5- | 910913 | 675 | 1.0- | 0.1+ |
| 760321 | 414 | 2.6- | 0.2+ | 890101 | 888 | 0.7+ | 0.8+ | 910916 | 675 | 0.1- | 0.1- |
| 760321 | 414 | 1.5- | 0.1+ | 890101 | 888 | 1.4- | 0.3+ | 910916 | 675 | 0.1- | 0.1+ |

(5081)* 1976 WC1 = 1968 HD1 = 1989 JN

Discovered 1976 Nov. 18 at El Leoncito.

Id. B. G. Marsden (MPC 14780)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

| | | | | |
|---|---|---|---|---|
| M | 291.51389 | (2000.0) | P | Q |
| n | 0.27908563 | Peri. 162.61023 | -0.39763862 | +0.88906810 |
| a | 2.3190551 | Node 83.46859 | -0.86663761 | -0.28273277 |
| e | 0.1145550 | Incl. 13.19634 | -0.30136817 | -0.36002792 |
| P | 3.53 | H 12.2 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 680426 | 095 | 0.6+ | 0.3- | 761123 | 808 | 0.5+ | 0.0 | 761126 | 808 | 0.8- | 1.7- |
| 761118 | 808 | 0.3+ | 0.0 | 761123 | 808 | 0.4- | 0.2- | 890505 | 046 | 0.5- | 0.3+ |
| 761118 | 808 | 0.4- | 0.6+ | 761126 | 808 | 0.0 | 1.0- | 890505 | 046 | 0.8- | 0.1+ |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 890507 | 046 | 1.2- | 0.6- | 901120 | 801 | 1.0+ | 0.1- | 920112 | 886 | 0.3- | 0.5- |
| 890507 | 046 | 0.3- | 0.0 | 901215 | 801 | 0.1+ | 0.5- | 920112 | 886 | 1.9+ | 0.8- |
| 890508 | 046 | 1.8- | 0.7+ | 901215 | 801 | 0.4+ | 0.5- | 920114 | 402 | 0.3- | 0.1+ |
| 890508 | 046 | 0.4- | 0.3- | 920102 | 402 | 0.4+ | 0.6+ | 920114 | 402 | 0.5+ | 0.3+ |
| 890509 | 046 | 1.5+ | 0.1- | 920102 | 402 | 0.6+ | 0.9+ | 920206 | 801 | 0.4+ | 0.6- |
| 890509 | 046 | 0.5+ | 0.7- | 920108 | 801 | 0.0 | 0.7+ | 920206 | 801 | 0.9- | 1.0- |
| 890509 | 046 | 0.1+ | 0.3- | 920108 | 801 | 0.3- | 0.1+ | 920207 | 801 | 0.9- | 0.2- |
| 890509 | 046 | 0.9+ | 1.0- | 920110 | 402 | 0.3+ | 0.3+ | 920207 | 801 | 0.8- | 0.4- |
| 901120 | 801 | 0.6+ | 0.1- | 920110 | 402 | 0.3+ | 0.7+ | | | | |

(5082)* 1977 DN4 = 1975 WS = 1978 LY

Discovered 1977 Feb. 18 by H. Kosai and K. Hurukawa at the Kiso Station of the Tokyo Astronomical Observatory.

Id. S. J. Bus (k, MPC 11153), L. D. Schmadel (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | | |
|---|---|---|---|---|---|
| M | 264.60660 | | (2000.0) | P | Q |
| n | 0.17746168 | Peri. | 58.86661 | -0.95165542 | -0.30306876 |
| a | 3.1361704 | Node | 103.45137 | +0.26140338 | -0.88456728 |
| e | 0.1199770 | Incl. | 2.94765 | +0.16130789 | -0.35452794 |
| P | 5.55 | H | 12.8 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 751128 | 095 | 0.1+ | 1.7- | 780610 | 675 | 0.4+ | 0.8+ | 861201 | 381 | 0.4+ | 0.8+ |
| 770218 | 381 | 0.5+ | 0.3- | 780610 | 675 | 0.3+ | 0.2- | 910912 | 675 | 0.0 | 0.2+ |
| 770218 | 381 | 0.4+ | 1.7+ | 861125 | 010 | (6.1- | 5.4-) | 910912 | 675 | 0.5- | 0.3- |
| 770219 | 381 | 0.1+ | 0.4+ | 861125 | 010 | (0.0 | 4.4-) | 910914 | 675 | 1.1- | 0.3- |
| 770219 | 381 | 0.8+ | 0.8- | 861125 | 010 | (3.4- | 4.8-) | 910914 | 675 | 0.6+ | 2.0- |
| 770312 | 381 | 0.7- | 0.1- | 861130 | 381 | 0.6+ | 1.4+ | 911109 | 675 | (3.0- | 0.3+) |
| 770312 | 381 | 0.6- | 0.4- | 861130 | 381 | 0.0 | 1.5+ | 911109 | 675 | 0.3+ | 0.1+ |
| 770315 | 381 | 0.6- | 0.1- | 861201 | 801 | (0.4+ | 4.0+) | | | | |
| 770315 | 381 | 0.7- | 1.1- | 861201 | 381 | 0.3- | 0.1+ | | | | |

(5083)* 1977 EV = 1989 CD2

Discovered 1977 Mar. 13 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. S. Nakano (MPC 14343)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 242.20742 | | (2000.0) | P | Q |
| n | 0.24183306 | Peri. | 238.27932 | -0.92168410 | +0.35452744 |
| a | 2.5514806 | Node | 321.82907 | -0.20893163 | -0.79572955 |
| e | 0.0812701 | Incl. | 14.76547 | -0.32687305 | -0.49104457 |
| P | 4.08 | H | 11.9 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 770313 | 095 | 0.5+ | 1.3- | 890205 | 071 | (2.0- | 4.4-) | 890305 | 033 | 0.6- | 0.7+ |
| 770322 | 095 | 0.8+ | 0.5+ | 890205 | 872 | 1.8- | 0.7+ | 900714 | 474 | 0.0 | 0.7+ |
| 770325 | 095 | 0.6+ | 2.4+ | 890205 | 872 | (3.7- | 0.1+) | 900714 | 474 | 0.4- | 0.7+ |
| 870922 | 095 | 1.4- | 0.2+ | 890210 | 872 | 1.7+ | 2.5- | 911105 | 801 | 0.0 | 0.9+ |
| 870925 | 095 | 0.6- | 0.9- | 890210 | 872 | 0.7+ | 1.3+ | 911105 | 801 | 0.0 | 0.9+ |
| 870926 | 095 | 0.4- | 1.1- | 890226 | 872 | 1.4+ | 1.1+ | 911107 | 801 | 0.3+ | 1.1+ |
| 890204 | 220 | (1.1- | 5.2-) | 890228 | 872 | 2.1- | 0.0 | 911107 | 801 | 0.1+ | 1.1+ |
| 890204 | 220 | (1.3+ | 5.9-) | 890228 | 872 | 0.4+ | 1.2- | 911205 | 801 | 0.0 | 0.3+ |
| 890204 | 071 | (3.8+ | 0.4-) | 890305 | 033 | 0.3- | 0.4+ | 911205 | 801 | 0.4+ | 0.1+ |

(5084)* 1977 FN1 = 1982 DB1 = 1988 GU

Discovered 1977 Mar. 26 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. C. M. Bardwell (MPC 13310)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

| | | | | |
|---|---|---|---|---|
| M | 293.48441 | (2000.0) | P | Q |
| n | 0.17624513 | Peri. 120.96453 | -0.95228636 | -0.29258025 |
| a | 3.1505857 | Node 42.19683 | +0.21676096 | -0.84873583 |
| e | 0.0970805 | Incl. 7.43156 | +0.21486129 | -0.44050458 |
| P | 5.59 | H 11.8 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 770326 095 | 0.2+ | 0.3+ | 880409 054 | 0.2- | 0.1+ | 911106 801 | 0.6- | 0.2- |
| 770515 095 | 0.3+ | 0.1+ | 880415 054 | 0.1+ | 0.0 | 911106 801 | 0.7- | 0.1- |
| 770518 095 | 1.5- | 1.6+ | 880415 054 | 0.0 | 0.6+ | 911205 801 | 0.4+ | 0.6+ |
| 820221 688 | 2.6+ | 1.9- | 900529 413 | 3.3+ | 0.5- | 911205 801 | 0.4- | 0.1+ |
| 820221 688 | 1.5- | 1.4- | 911103 801 | 0.9- | 0.4+ | | | |
| 880409 054 | 0.6+ | 0.7+ | 911103 801 | 0.7- | 0.4+ | | | |

(5085)* 1977 NN = 1977 PX = 1984 SK5

Discovered 1977 July 14 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. H. Oishi (d, JAM 1391), S. Nakano (MPC 9754)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 143.36076 | (2000.0) | P | Q |
| n | 0.29095554 | Peri. 353.99259 | +0.66177413 | +0.74750644 |
| a | 2.2555457 | Node 317.42325 | -0.68426232 | +0.57098094 |
| e | 0.1800679 | Incl. 4.86258 | -0.30633329 | +0.33943318 |
| P | 3.39 | H 13.9 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 770714 095 | 1.1+ | 2.0- | 840927 675 | 0.4- | 0.0 | 911103 801 | 0.3+ | 0.6+ |
| 770722 095 | 1.2+ | 1.1+ | 841020 095 | 0.7+ | 1.4+ | 911103 801 | 0.4- | 0.6+ |
| 770814 095 | 2.3- | 1.5+ | 911008 801 | 0.7+ | 1.4- | 911106 801 | 0.0 | 0.5+ |
| 790127 675 | 0.3- | 0.1+ | 911008 801 | 0.6- | 0.2- | 911106 801 | 0.1- | 0.1- |
| 790129 675 | 0.5+ | 0.7+ | 911011 801 | 0.1- | 0.8- | | | |
| 840926 675 | 0.4- | 1.0- | 911011 801 | 0.2+ | 0.7- | | | |

(5086)* 1978 RH1 = 1978 TM1 = 1987 HA2

Discovered 1978 Sept. 5 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. T. Furuta (d, JAM 1968), T. Kobayashi (MPC 13056)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi

| | | | | |
|---|---|---|---|---|
| M | 182.90179 | (2000.0) | P | Q |
| n | 0.30696944 | Peri. 82.02251 | -0.07998331 | +0.99679006 |
| a | 2.1764029 | Node 183.39577 | -0.93623700 | -0.07632846 |
| e | 0.1142067 | Incl. 3.38665 | -0.34214463 | -0.02415657 |
| P | 3.21 | H 13.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 780905 095 | 0.2+ | 0.5- | 900226 809 | 0.4- | 0.6+ | 900319 403 | 0.7- | 0.2- |
| 781002 095 | 0.6+ | 0.6- | 900226 809 | 0.0 | 0.4+ | 900322 095 | 1.4- | 1.8- |
| 781008 095 | 1.3- | 2.2+ | 900227 809 | 0.1- | 0.3- | 900424 801 | 0.5+ | 0.1- |
| 870428 046 | 0.5- | 0.2- | 900227 809 | 0.6+ | 0.4- | 900424 801 | 0.5+ | 0.2- |
| 870428 046 | 0.6+ | 0.0 | 900227 809 | 1.2+ | 0.5- | 911009 801 | 0.3- | 0.6+ |
| 870429 046 | 0.3+ | 1.3+ | 900301 809 | 0.1- | 0.2- | 911009 801 | 0.3- | 0.5+ |
| 870429 046 | 0.0 | 0.5+ | 900301 809 | 0.6+ | 0.3- | 911011 801 | 0.2+ | 0.5+ |
| 900224 809 | 1.0+ | 0.6+ | 900301 809 | 1.2+ | 0.4- | 911011 801 | 0.9+ | 0.4+ |
| 900224 809 | 1.2+ | 0.7+ | 900318 400 | (1.1- | 4.4+) | 911106 801 | 0.5- | 0.2- |
| 900224 809 | 1.3+ | 0.8+ | 900318 400 | 2.0- | 1.3+ | 911106 801 | 0.7- | 0.3- |
| 900226 809 | 1.0- | 0.7+ | 900319 403 | 1.4- | 0.8+ | | | |

(5087)* 1978 RM2 = 1985 DB2

Discovered 1978 Sept. 12 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Id. H. Oishi (MPC 11142)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M 34.71311 | | (2000.0) | P | Q |
| n 0.21669745 | Peri. | 147.02381 | +0.92888940 | +0.36997974 |
| a 2.7451549 | Node | 191.29878 | -0.35558724 | +0.87831588 |
| e 0.0085459 | Incl. | 4.89466 | -0.10354799 | +0.30278077 |
| P 4.55 | H | 12.9 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 780901 | 095 | 1.3+ | 0.0 | 850227 | 809 | 0.2+ | 1.1+ | 910712 | 801 | 0.4+ | 1.1+ |
| 780912 | 095 | 1.8- | 0.3+ | 850227 | 809 | 0.1+ | 0.5+ | 910712 | 801 | 1.0+ | 0.2- |
| 780928 | 095 | 0.8+ | 1.8+ | 870916 | 095 | (11.1+ | 2.1+) | 910712 | 809 | 0.4- | 0.5+ |
| 781004 | 095 | 0.5- | 0.2+ | 900327 | 400 | (4.8- | 7.7+) | 910712 | 809 | 0.2+ | 0.7+ |
| 781009 | 095 | 0.3- | 0.3- | 900327 | 400 | (1.9- | 8.9+) | 910712 | 809 | 0.4+ | 0.8+ |
| 850220 | 809 | 1.5+ | 0.1- | 900329 | 400 | 0.0 | 0.3- | 910714 | 809 | 0.8- | 0.2+ |
| 850220 | 809 | 1.6+ | 0.0 | 900329 | 400 | 0.4- | 2.1- | 910714 | 809 | 0.4- | 0.6+ |
| 850220 | 809 | 1.9+ | 0.1+ | 910704 | 809 | 1.3+ | 0.9+ | 910714 | 809 | 0.3- | 0.4+ |
| 850222 | 809 | 0.1- | 0.5+ | 910704 | 809 | 1.4+ | 0.8+ | 910715 | 809 | 1.1- | 1.1- |
| 850222 | 809 | 0.3+ | 0.4+ | 910704 | 809 | 1.7+ | 0.7+ | 910715 | 809 | 0.7- | 1.1- |
| 850222 | 809 | 0.6+ | 0.5+ | 910705 | 809 | 1.0- | 0.6+ | 910715 | 809 | 0.3- | 1.2- |
| 850224 | 809 | 0.0 | 0.1+ | 910705 | 809 | 0.5- | 0.5+ | 910716 | 809 | 0.7- | 0.4- |
| 850224 | 809 | 0.0 | 0.1- | 910705 | 809 | 0.5- | 0.4+ | 910716 | 809 | 0.7- | 0.3- |
| 850224 | 809 | 0.2- | 0.1- | 910708 | 809 | 0.6- | 1.3- | 910716 | 809 | 0.6- | 0.3- |
| 850225 | 809 | 0.3- | 0.2+ | 910708 | 809 | 0.1- | 1.2- | 910807 | 801 | 0.2+ | 0.0 |
| 850225 | 809 | 0.1- | 0.2+ | 910711 | 801 | 0.0 | 0.1+ | 910807 | 801 | 0.7+ | 0.3+ |
| 850225 | 809 | 0.3- | 0.3+ | 910711 | 809 | 0.5- | 1.1+ | 910808 | 801 | 0.4+ | 0.5- |
| 850226 | 809 | 1.4- | 0.9+ | 910711 | 801 | 0.2- | 0.0 | 910808 | 801 | 0.2+ | 0.4- |
| 850226 | 809 | 1.1- | 1.2+ | 910711 | 809 | 0.2+ | 1.2+ | | | | |
| 850226 | 809 | 1.0- | 1.0+ | 910711 | 809 | 0.7+ | 1.2+ | | | | |

(5088)* 1979 QZ1 = 1982 DP6 = 1985 RS3

Discovered 1979 Aug. 22 by C.-I. Lagerkvist at the European Southern Observatory.

Id. H. Oishi (JAM 2034), E. Goffin (MPC 11514)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M 11.16072 | | (2000.0) | P | Q |
| n 0.17934568 | Peri. | 84.90678 | -0.02746113 | -0.99962214 |
| a 3.1141685 | Node | 6.66719 | +0.91294499 | -0.02557442 |
| e 0.1447277 | Incl. | 0.59889 | +0.40715763 | -0.01007648 |
| P 5.50 | H | 12.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 790822 | 809 | 0.0 | 0.7- | 850911 | 809 | 0.1+ | 0.1+ | 850921 | 809 | 1.0- | 1.6+ |
| 790822 | 809 | 0.6+ | 0.1- | 850911 | 809 | 0.3+ | 0.2+ | 850921 | 809 | 0.9- | 1.7+ |
| 790822 | 809 | 0.3- | 0.4- | 850914 | 809 | 0.1+ | 0.7+ | 850922 | 809 | 0.1- | 0.2- |
| 790823 | 809 | 0.5- | 1.5- | 850914 | 809 | 0.1+ | 0.8+ | 850922 | 809 | 0.0 | 0.1- |
| 790823 | 809 | 0.9- | 1.1- | 850914 | 809 | 0.5+ | 0.8+ | 870130 | 801 | 0.7- | 0.5- |
| 790826 | 809 | 0.3- | 0.2- | 850915 | 809 | 0.3+ | 0.7- | 900529 | 413 | (4.1+ | 1.8+) |
| 790826 | 809 | 0.1+ | 1.1- | 850915 | 809 | 0.5+ | 0.7- | 900529 | 413 | (0.6+ | 4.4+) |
| 790826 | 809 | 0.2+ | 1.0- | 850915 | 809 | 0.5+ | 0.7- | 900816 | 511 | 1.2- | 1.3+ |
| 790830 | 809 | 1.0+ | 0.2- | 850916 | 809 | 0.5- | 0.6+ | 900915 | 675 | 0.4+ | 0.1- |
| 790830 | 809 | (0.6+ | 10.7-) | 850916 | 809 | 0.2- | 0.6+ | 900915 | 675 | 0.2+ | 0.3+ |
| 820227 | 010 | 0.9+ | 0.1+ | 850916 | 809 | 0.1- | 0.6+ | 911103 | 801 | 0.3+ | 0.2- |
| 850907 | 809 | 0.9+ | 0.4- | 850918 | 809 | 0.1- | 0.5+ | 911103 | 801 | 0.3+ | 0.1- |
| 850907 | 809 | 0.7+ | 0.3- | 850918 | 809 | 0.2+ | 0.6+ | 911106 | 801 | 0.1- | 0.7- |
| 850907 | 809 | 0.9+ | 0.3- | 850918 | 809 | 0.4+ | 0.7+ | 911106 | 801 | 0.1- | 0.7- |
| 850908 | 809 | 0.4+ | 0.5- | 850920 | 809 | 0.8- | 0.1- | 911205 | 801 | 0.6- | 0.6- |
| 850908 | 809 | 0.6+ | 0.4- | 850920 | 809 | 0.8- | 0.3- | 911205 | 801 | 0.0 | 0.5- |
| 850908 | 809 | 0.7+ | 0.3- | 850920 | 809 | 0.8- | 0.1- | | | | |
| 850911 | 809 | 0.1- | 0.1+ | 850921 | 809 | 0.9- | 1.6+ | | | | |

(5089)* 1979 SN = 1979 SG = 1977 FG2 = 1986 CO = 1988 RJ9
Discovered 1979 Sept. 25 by A. Mrkos at Klet.
Id. S. Nakano (d, MPC 10610; MPC 14945)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| M | 159.84253 | | (2000.0) | | P | | Q |
| n | 0.21114411 | Peri. | 126.40291 | | -0.37801577 | | -0.92407836 |
| a | 2.7930802 | Node | 345.48779 | | +0.76088851 | | -0.27538602 |
| e | 0.0806692 | Incl. | 13.01189 | | +0.52740189 | | -0.26503154 |
| P | 4.67 | H | 12.5 | G | 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 770326 | 095 | 0.9+ | 0.4+ | 880904 | 809 | 0.1+ | 0.3+ | 880919 | 809 | 0.5+ | 1.1- |
| 790917 | 046 | 1.5+ | 0.5+ | 880904 | 809 | 0.2+ | 0.3+ | 880919 | 809 | 0.5+ | 0.9- |
| 790917 | 046 | 0.7+ | 0.3+ | 880905 | 809 | 0.3- | 0.5+ | 891130 | 046 | 1.2+ | 0.7+ |
| 790925 | 046 | 0.3+ | 0.2- | 880905 | 809 | 0.3- | 0.3+ | 891130 | 046 | 0.2- | 0.3+ |
| 790925 | 046 | 1.3+ | 1.0- | 880905 | 809 | 0.4- | 1.1+ | 891201 | 046 | (3.7+ | 1.0+) |
| 790926 | 046 | 1.2- | 1.6- | 880907 | 809 | 0.8- | 0.4+ | 891201 | 046 | 0.9- | 0.2+ |
| 790926 | 046 | 0.3+ | 0.7- | 880907 | 809 | 0.7- | 0.4+ | 910211 | 801 | 0.5- | 0.5- |
| 790927 | 046 | (0.9- | 2.2-) | 880910 | 809 | 1.1- | 0.7+ | 910211 | 801 | 0.8- | 0.4- |
| 790927 | 046 | 1.8- | 0.5- | 880910 | 809 | 0.9- | 0.7+ | 910212 | 801 | 0.7- | 0.2- |
| 860207 | 046 | (4.9+ | 0.1-) | 880910 | 809 | 0.9- | 0.6+ | 910212 | 801 | 0.3- | 0.8+ |
| 880901 | 809 | 0.9+ | 0.4+ | 880913 | 809 | 0.8- | 0.1- | 910314 | 046 | 0.4- | 0.9+ |
| 880901 | 809 | 1.1+ | 0.2+ | 880913 | 809 | 0.7- | 0.3- | 910314 | 046 | (2.7- | 0.1+) |
| 880901 | 809 | 1.2+ | 0.2+ | 880913 | 809 | 0.6- | 0.1- | 910315 | 046 | (2.6- | 1.1-) |
| 880903 | 809 | 0.2+ | 0.2+ | 880917 | 809 | 0.6+ | 0.8- | 910315 | 046 | (2.1- | 1.1-) |
| 880903 | 809 | 0.4+ | 0.2+ | 880917 | 809 | 0.4+ | 0.7- | 910318 | 402 | 0.3+ | 0.2- |
| 880903 | 809 | 0.5+ | 0.1+ | 880917 | 809 | 0.1+ | 0.4- | 910318 | 402 | 0.6+ | 0.6- |
| 880904 | 809 | 0.1- | 0.2+ | 880919 | 809 | 0.5+ | 1.0- | 910319 | 402 | 0.5- | 1.1- |

(5090)* 1980 CG = 1934 PG = 1978 NV1 = 1986 LJ
Discovered 1980 Feb. 9 at the Agassiz Station of the Harvard College Observatory.
Id. S. Nakano (MPC 11423; unpublished)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| M | 104.67883 | | (2000.0) | | P | | Q |
| n | 0.24480387 | Peri. | 228.91138 | | +0.96387120 | | -0.24856420 |
| a | 2.5307963 | Node | 145.16718 | | +0.26540470 | | +0.92674452 |
| e | 0.2933332 | Incl. | 9.65035 | | -0.02264198 | | +0.28170985 |
| P | 4.03 | H | 12.7 | G | 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 340804 | 078 | 0.0 | 0.4- | 860604 | 675 | (26.4+ | 2.2-) | 911205 | 801 | 0.2- | 0.1- |
| 780706 | 095 | 1.4+ | 1.5+ | 860606 | 675 | (28.9+ | 4.7-) | 911205 | 801 | 0.6- | 0.1+ |
| 800209 | 801 | 0.2+ | 0.1- | 860606 | 675 | (31.2+ | 4.6-) | 911229 | 877 | (8.6+ | 1.9+) |
| 800211 | 801 | 0.4+ | 0.4+ | 900626 | 801 | 0.4- | 1.0- | 911229 | 877 | (2.7+ | 0.5+) |
| 800213 | 801 | (3.9- | 0.5-) | 900626 | 801 | 0.5- | 0.8- | 911230 | 877 | 0.9+ | 0.5- |
| 800218 | 801 | 1.6- | 0.3- | 900816 | 801 | 0.9- | 0.5- | 911230 | 877 | 0.9+ | 0.6- |
| 800312 | 801 | 0.5+ | 0.4+ | 911106 | 801 | 0.4- | 0.0 | | | | |
| 860604 | 675 | (24.9+ | 4.8-) | 911106 | 801 | 0.4- | 0.2- | | | | |

(5091)* 1981 SD4 = 1973 YO3 = 1977 UA2 = 1979 FF1 = 1990 OS3
Discovered 1981 Sept. 25 by L. I. Chernykh at the Crimean Astrophysical Observatory.
Id. S. Nakano (MPC 17013), R. Nagata (ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| M | 231.26552 | | (2000.0) | | P | | Q |
| n | 0.21238399 | Peri. | 324.35653 | | -0.57308869 | | +0.81759389 |
| a | 2.7821990 | Node | 270.61415 | | -0.73835226 | | -0.54467001 |
| e | 0.0142655 | Incl. | 3.19686 | | -0.35553521 | | -0.18674797 |
| P | 4.64 | H | 12.0 | G | 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 731225 | 095 | 0.4+ | 1.4- | 900727 | 675 | 1.7+ | 2.1- | 911206 | 675 | 0.4- | 0.9- |
| 771020 | 033 | 0.2+ | 0.0 | 900727 | 675 | 0.8- | 0.5- | 911206 | 675 | 0.5+ | 1.0- |
| 790323 | 095 | 1.1- | 0.9- | 900730 | 675 | 0.2- | 1.4- | 920207 | 801 | 0.1+ | 0.3+ |
| 810925 | 095 | 1.8+ | 1.2+ | 900730 | 675 | 0.3+ | 1.5- | 920207 | 801 | 0.2- | 0.3+ |
| 810928 | 095 | 2.5- | 0.9+ | 900916 | 675 | 0.7+ | 0.6+ | | | | |
| 811005 | 095 | 1.1- | 0.2+ | 900916 | 675 | 0.8+ | 0.7+ | | | | |

(5092)* 1982 FJ = 1950 TA3 = 1979 VY = 1990 QR3

Discovered 1982 Mar. 21 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. E. Bowell (k, MPC 17014), G. V. Williams (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| M | 268.29637 | | (2000.0) | P | | Q | |
| n | 0.17248553 | Peri. | 207.70597 | -0.88997554 | | +0.45599897 | |
| a | 3.1962024 | Node | 359.39974 | -0.34984693 | | -0.68686493 | |
| e | 0.0618152 | Incl. | 16.13342 | -0.29249045 | | -0.56593418 | |
| P | 5.71 | H | 11.0 | G | 0.15 | | |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 501013 | 760 | 0.8+ | 0.2- | 900915 | 095 | 0.1+ | 0.8+ | 901015 | 095 | (0.1- | 3.0+) |
| 501013 | 760 | (0.03- | 0.02-)X | 900915 | 095 | (1.0+ | 4.3+) | 920106 | 801 | 0.2+ | 0.3- |
| 791114 | 095 | 2.1- | 0.2+ | 900918 | 675 | 0.7- | 0.4+ | 920106 | 801 | 0.6- | 0.6+ |
| 820321 | 688 | 2.4- | 1.0+ | 900918 | 675 | 0.3- | 0.5+ | 920108 | 801 | 0.2+ | 0.2- |
| 820321 | 688 | 0.2- | 0.6+ | 900920 | 675 | 1.0- | 1.4- | 920108 | 801 | 0.1+ | 0.3- |
| 820414 | 688 | 0.3+ | 0.5- | 900920 | 675 | 0.7- | 0.0 | 920206 | 801 | 0.4+ | 0.9- |
| 820414 | 688 | 2.3+ | 0.0 | 900923 | 095 | 0.0 | 1.1+ | 920206 | 801 | 0.8- | 0.4+ |
| 820425 | 688 | 0.7+ | 0.0 | 901010 | 400 | 1.8+ | 0.3- | 920207 | 801 | 0.7+ | 0.2- |
| 820425 | 688 | 0.2- | 0.2- | 901010 | 400 | (3.7+ | 1.6+) | 920207 | 801 | 0.9+ | 0.4+ |
| 900824 | 675 | 0.7+ | 0.5- | 901010 | 400 | (4.1+ | 1.8+) | | | | |
| 900824 | 675 | 0.3+ | 0.7- | 901015 | 095 | 0.2- | 0.9+ | | | | |

(5093)* 1982 TG1 = 1969 UL2 = 1988 FL1

Discovered 1982 Oct. 14 by L. G. Karachkina at the Crimean Astrophysical Observatory.

Id. T. Kobayashi (MPC 10939), S. Nakano (MPC 13448)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| M | 71.49670 | | (2000.0) | P | | Q | |
| n | 0.22669592 | Peri. | 190.88267 | +0.68211809 | | -0.71951872 | |
| a | 2.6638325 | Node | 216.32260 | +0.68635130 | | +0.69150413 | |
| e | 0.1666679 | Incl. | 12.71903 | +0.25226334 | | +0.06414715 | |
| P | 4.35 | H | 13.0 | G | 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 691018 | 095 | 1.0- | 2.2+ | 860909 | 095 | (1.7+ | 5.4+) | 911103 | 801 | 0.6+ | 0.1+ |
| 691105 | 095 | 1.3+ | 1.3+ | 860929 | 095 | 0.4- | 1.6+ | 911106 | 801 | 0.6+ | 0.3- |
| 821014 | 095 | 0.7+ | 2.5- | 861003 | 095 | (1.3+ | 55.2+) | 911106 | 801 | 1.1+ | 0.2- |
| 821020 | 095 | 1.3- | 0.5+ | 861006 | 801 | 0.1- | 1.4- | 911205 | 801 | 1.4- | 0.9- |
| 821024 | 095 | 0.7- | 0.3+ | 880317 | 033 | 0.2- | 0.3- | 911205 | 801 | 0.0 | 0.8- |
| 860804 | 801 | 1.4+ | 0.7- | 880317 | 033 | 0.8- | 0.1- | | | | |
| 860902 | 801 | 0.1+ | 1.3- | 911103 | 801 | 0.4+ | 0.0 | | | | |

(5094)* 1982 UT6 = 1977 UF1 = 1980 GW

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

Id. W. Landgraf (k, MPC 9032), T. Furuta (k, JAM 1631), H. Oishi (MPC 16425)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 58.57974 (2000.0) P Q
n 0.20606507 Peri. 348.28947 +0.97332917 +0.22941165
a 2.8387891 Node 358.44744 -0.20806272 +0.88129320
e 0.0864677 Incl. 1.66782 -0.09664487 +0.41314960
P 4.78 H 13.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 770919 095 | 0.0 | 1.0+ | 821114 095 | 2.5- | 1.5- | 910906 801 | 1.2- | 0.3- |
| 771007 095 | (0.6+ | 3.1+) | 910807 801 | 0.1- | 0.8+ | 910906 801 | 0.3- | 0.4+ |
| 771013 095 | (4.4+ | 0.0 ) | 910807 801 | 0.4- | 0.6+ | 910909 801 | 0.3- | 0.2+ |
| 771017 095 | 0.8- | 1.1+ | 910807 675 | 0.7- | 0.1- | 910909 801 | 0.2- | 0.3+ |
| 800414 805 | 0.2- | 0.2- | 910807 675 | (3.3- | 0.7-) | 910909 894 | (2.5+ | 2.3-) |
| 800415 805 | 0.3- | 0.3+ | 910808 675 | 0.3- | 0.8+ | 910909 894 | 1.8+ | 1.4- |
| 800416 805 | 0.6+ | 0.2+ | 910808 675 | 0.5+ | 0.3- | 910911 675 | 1.4+ | 0.5- |
| 821020 095 | 1.4+ | 0.2+ | 910810 675 | 0.6- | 0.0 | 910911 675 | 0.4- | 1.2- |
| 821025 095 | 1.7+ | 0.8+ | 910811 801 | (0.6+ | 2.3-) | 910917 675 | 1.1+ | 0.6- |
| 821109 095 | 0.2- | 0.4- | 910811 801 | 0.0 | 0.4+ | | | |

(5095)* 1983 NL = 1967 GD1 = 1990 HA1

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

Id. G. V. Williams (MPC 16578)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 110.71543 (2000.0) P Q
n 0.26030368 Peri. 187.18901 +0.89856950 +0.41678216
a 2.4293076 Node 147.07137 -0.38899541 +0.90137255
e 0.2198126 Incl. 14.63576 -0.20311432 +0.11755916
P 3.79 H 12.9 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 670411 033 | 1.7- | 0.8+ | 830713 688 | (5.2- | 0.2+) | 900519 675 | 0.4+ | 0.7- |
| 670411 033 | 1.7+ | 0.7- | 830813 688 | 0.5+ | 0.2- | 900519 675 | 0.6- | 0.9+ |
| 790528 413 | 0.0 | 0.7+ | 830813 688 | 1.1+ | 0.3+ | 910812 801 | 0.6- | 0.1- |
| 830614 413 | 0.1+ | 0.3+ | 900426 675 | 0.2+ | 1.0- | 910812 801 | 0.2- | 0.2- |
| 830710 688 | 0.6- | 0.9+ | 900426 675 | 0.6+ | 0.3- | 910908 801 | 0.3+ | 0.2- |
| 830710 688 | 1.4- | 0.1- | 900429 675 | 0.3+ | 0.4+ | 910908 801 | 0.3+ | 0.1- |
| 830713 688 | 0.3+ | 1.5- | 900429 675 | 1.1- | 0.2- | | | |

(5096)* 1983 RC5 = 1972 TH = 1981 CO = 1985 FA1 = 1985 GZ1 = 1990 SK16

Discovered 1983 Sept. 5 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.

Id. G. V. Williams (MPC 18283)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 102.43578 (2000.0) P Q
n 0.27328563 Peri. 109.04445 +0.29188784 -0.95353904
a 2.3517520 Node 323.71704 +0.82329311 +0.29018266
e 0.1499215 Incl. 7.24183 +0.48681613 +0.08097733
P 3.61 H 12.9 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 721004 095 | (10.5- | 4.8+) | 850324 688 | 0.2+ | 1.3- | 900917 675 | 0.2+ | 0.6+ |
| 810208 688 | 0.9- | 1.5- | 850414 688 | 0.9- | 0.8+ | 900917 675 | 0.3- | 0.4+ |
| 810208 688 | 0.6- | 0.1+ | 850414 688 | 0.9+ | 0.7- | 900920 675 | 0.5+ | 0.2+ |
| 830905 095 | 0.9- | 0.7+ | 900826 095 | 0.2- | 2.0+ | 900920 675 | 0.5- | 0.5+ |
| 830907 095 | 1.0+ | 0.3+ | 900826 095 | (7.7+ | 2.4-) | 920102 801 | 0.2+ | 0.8+ |
| 830909 095 | (2.9+ | 1.0-) | 900828 095 | 0.1+ | 0.6- | 920102 801 | 0.2+ | 0.5+ |
| 830912 095 | 1.4+ | 1.2- | 900828 095 | (1.1- | 3.9-) | 920107 801 | 0.6+ | 0.1+ |
| 850321 688 | 1.0+ | 0.0 | 900830 095 | 0.6- | 1.6- | 920107 801 | 0.7+ | 0.1+ |
| 850321 688 | 0.7- | 0.4- | 900830 095 | 0.3- | 1.1- | 920205 801 | 0.2+ | 0.2- |
| 850324 688 | 1.0- | 0.1+ | 900914 675 | 0.2+ | 1.3- | 920205 801 | 0.1- | 0.4+ |

(5097)* 1983 TW1 = 1966 RG = 1978 JG2 = 1987 SZ1

Discovered 1983 Oct. 12 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. T. Kobayashi (MPC 12454)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi

| | | | | |
|---|---|---|---|---|
| M | 82.99486 | (2000.0) | P | Q |
| n | 0.23532024 | Peri. 180.96746 | +0.57609495 | +0.81546505 |
| a | 2.5983433 | Node 124.21113 | -0.74947884 | +0.55431650 |
| e | 0.2250174 | Incl. 3.88000 | -0.32618412 | +0.16658323 |
| P | 4.19 | H 13.4 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 660915 | 095 | 0.4- | 2.3- | | 871001 | 372 | (1.4- | 15.9+) | 910717 | 675 | 1.1+ | 2.0+ |
| 780506 | 095 | 1.7+ | 1.1- | | 900303 | 809 | 0.8- | 0.6- | 910803 | 809 | 1.3- | 0.1+ |
| 831011 | 688 | 1.2- | 2.2- | | 900303 | 809 | 0.8- | 0.7- | 910803 | 809 | 1.4- | 0.3- |
| 831011 | 688 | 0.7+ | 0.4+ | | 900303 | 809 | 0.8- | 0.7- | 910803 | 809 | 1.1- | 1.0+ |
| 831012 | 688 | 2.7+ | 1.2- | | 900308 | 809 | 0.4- | 1.0- | 910805 | 675 | 0.1- | 0.4- |
| 831012 | 688 | 1.0+ | 1.7- | | 900308 | 809 | 0.4- | 1.1- | 910805 | 675 | 0.0 | 0.4- |
| 831104 | 688 | 0.0 | 0.1- | | 900308 | 809 | 0.4- | 1.0- | 910806 | 801 | 0.2+ | 0.2- |
| 831104 | 688 | 1.6+ | 1.3- | | 900316 | 046 | (3.7- | 2.1-) | 910806 | 801 | 0.0 | 0.5- |
| 870827 | 095 | 1.1+ | 1.2+ | | 900316 | 046 | 1.6- | 3.5- | 910807 | 675 | 0.3+ | 1.0- |
| 870902 | 095 | (5.3+ | 0.5-) | | 910712 | 801 | 0.0 | 0.7- | 910807 | 675 | 0.5- | 1.2- |
| 870916 | 372 | (7.3- | 1.7+)Y | | 910712 | 801 | 0.1- | 0.7- | 910811 | 801 | 0.5+ | 0.6- |
| 870917 | 372 | 2.7- | 0.9+ Y | | 910712 | 675 | 1.6+ | 0.6- | 910811 | 801 | 0.6+ | 0.7- |
| 870918 | 372 | (4.6- | 1.4+)Y | | 910712 | 675 | 0.5+ | 0.0 | 910906 | 809 | (1.3+ | 3.8+) |
| 870920 | 095 | 1.4- | 0.9- | | 910713 | 801 | 0.1- | 0.4- | 910906 | 809 | (0.0 | 4.3+) |
| 870922 | 095 | 1.2+ | 2.0+ | | 910714 | 675 | 0.1+ | 0.0 | 910906 | 809 | (0.5- | 3.7+) |
| 870926 | 372 | 0.5+ | 0.1+ | | 910717 | 675 | 1.9+ | 0.3- | | | | |

(5098)* 1985 CH2 = 1979 UN1 = 1981 EJ1

Discovered 1985 Feb. 14 by H. Debehogne at the European Southern Observatory.

Id. K. Hurukawa (MPC 10310), A. Lowe (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 299.36807 | (2000.0) | P | Q |
| n | 0.23907190 | Peri. 328.58226 | -0.53614963 | -0.84083401 |
| a | 2.5710885 | Node 153.61772 | +0.80504931 | -0.53586029 |
| e | 0.0718285 | Incl. 9.64419 | +0.25384875 | -0.07649785 |
| P | 4.12 | H 13.8 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 791021 | 805 | 0.6+ | 1.5+ | | 850214 | 809 | 0.2- | 1.5+ | 850220 | 809 | 0.6- | 0.6- |
| 791023 | 805 | 0.1- | 0.8+ | | 850214 | 809 | 0.0 | 1.5+ | 850220 | 809 | 0.5- | 0.8- |
| 791023 | 805 | 1.2- | 0.4+ | | 850214 | 809 | 0.0 | 1.6+ | 850220 | 809 | 0.3- | 0.5- |
| 810306 | 809 | 0.1+ | 0.5+ | | 850215 | 809 | 0.3+ | 0.0 | 850221 | 809 | 0.0 | 0.5- |
| 810306 | 809 | 0.2- | 0.5+ | | 850215 | 809 | 0.3+ | 0.1- | 850221 | 809 | 0.3+ | 0.9- |
| 810306 | 809 | 1.2- | 1.4+ | | 850215 | 809 | 0.5+ | 0.1- | 850221 | 809 | 0.4+ | 0.9- |
| 810307 | 809 | 0.9+ | 0.1- | | 850216 | 809 | 0.5- | 0.0 | 850222 | 809 | 0.2+ | 0.2+ |
| 810307 | 809 | 1.3+ | 0.8- | | 850216 | 809 | 0.3- | 0.2+ | 850222 | 809 | 0.1+ | 0.2+ |
| 810307 | 809 | 1.3+ | 0.4+ | | 850216 | 809 | 0.0 | 0.4+ | 850222 | 809 | 0.0 | 0.1- |
| 810308 | 809 | 0.4- | 1.0+ | | 850217 | 809 | 0.2+ | 0.2- | 850224 | 809 | 0.8+ | 1.7- |
| 810308 | 809 | 0.1+ | 1.0+ | | 850217 | 809 | 0.1+ | 0.0 | 850224 | 809 | 0.8+ | 1.5- |
| 810308 | 809 | 0.4+ | 1.0+ | | 850217 | 809 | 0.4+ | 0.3+ | 850224 | 809 | 0.8+ | 1.4- |
| 810309 | 809 | 0.9- | 0.9- | | 850218 | 809 | 0.9- | 0.5+ | 850225 | 809 | 0.5+ | 1.6- |
| 810309 | 809 | 0.7- | 0.4- | | 850218 | 809 | 0.8- | 0.5+ | 850225 | 809 | 0.2+ | 1.6- |
| 810309 | 809 | 0.1+ | 0.1+ | | 850218 | 809 | 0.8- | 0.4+ | 850225 | 809 | 0.5+ | 1.5- |
| 810310 | 809 | 0.0 | 0.9+ | | 850219 | 809 | 0.4- | 0.3+ | 850227 | 809 | 0.3- | 0.4- |
| 810310 | 809 | 0.0 | 1.0+ | | 850219 | 809 | 0.5- | 0.0 | 850227 | 809 | 0.4- | 0.3- |
| 810310 | 809 | 0.3+ | 0.9+ | | 850219 | 809 | 0.1- | 0.3- | 850227 | 809 | 0.5- | 0.3- |

850228 809 (2.9+ 2.6-) 910808 675 0.7+ 0.4- 910929 413 0.4+ 0.1+
850228 809 (3.1+ 2.9-) 910911 675 0.7+ 1.1- 910930 413 0.9- 0.7-
910808 675 0.4- 0.4- 910911 675(18.2- 8.3-)

(5099)* 1985 DY1 = 1971 TD1 = 1979 WC7 = 1990 HJ2
Discovered 1985 Feb. 16 by H. Debehogne at the European Southern Observatory.
Id. S. Nakano (MPC 16579)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 111.88814 | (2000.0) | P | Q |
| n | 0.25166554 | Peri. 288.91023 | +0.98483861 | -0.17226805 |
| a | 2.4845832 | Node 81.01346 | +0.16592108 | +0.90108085 |
| e | 0.0518420 | Incl. 1.18412 | +0.05062723 | +0.39796610 |
| P | 3.92 | H 13.1 | G 0.15 | |

Residuals in seconds of arc
711011 095 0.6+ 1.6- 850222 809 0.5- 0.5- 850228 809 0.1+ 0.4-
791117 095 0.5+ 1.0- 850222 809 0.4- 0.5- 900427 413 1.3+ 0.4+
850216 809 0.2- 0.3- 850223 809 0.1- 0.4- 900427 413 1.5- 0.3+
850216 809 0.2- 0.3- 850223 809 0.2- 0.3- 900430 413 2.5+ 0.1+
850216 809 0.2- 0.2- 850223 809 0.4- 0.3- 900430 413 0.2+ 0.6-
850220 809 0.5- 0.9+ 850224 809 0.8- 0.5- 900722 801 1.6- 0.3-
850220 809 0.0 0.7+ 850224 809 0.5- 0.5- 920102 801 0.4+ 0.5+
850220 809 0.6+ 0.4+ 850224 809 0.4- 0.5- 920106 801 0.1+ 0.6+
850221 809 0.3- 0.1+ 850226 809 0.9+ 0.2+ 920106 801 0.3- 0.3+
850221 809 0.0 0.2+ 850226 809 1.2+ 0.3+ 920207 801 0.4- 0.4+
850221 809 0.3+ 0.1+ 850226 809 1.6+ 0.2+ 920207 801 0.1- 0.0
850222 809 0.6- 0.2- 850228 809 0.4- 0.4-

(5100)* 1985 GW = 1978 NC8
Discovered 1985 Apr. 15 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.
Id. E. Bowell (MPC 11154)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 0.49306 | (2000.0) | P | Q |
| n | 0.25384329 | Peri. 36.35780 | -0.74092557 | -0.65853726 |
| a | 2.4703525 | Node 101.90515 | +0.58005033 | -0.72637705 |
| e | 0.1349259 | Incl. 7.73814 | +0.33848324 | -0.19673603 |
| P | 3.88 | H 13.3 | G 0.15 | |

Residuals in seconds of arc
780707 675 0.6+ 0.4+ 850515 688 1.3+ 0.6- 900914 675 0.3- 1.4-
780708 675 0.2- 0.3- 850515 688 0.4+ 1.1- 920106 801 0.2- 0.0
780709 675 0.5- 0.1- 900529 413 (6.4+ 1.1-) 920106 801 0.0 0.1+
850415 688 (2.5+ 0.1-) 900529 413 1.8+ 1.4+ 920109 801 0.1+ 0.2-
850415 688 1.0- 0.1- 900725 675 0.2- 0.0 920109 801 0.1- 0.2-
850424 688 0.8- 0.9+ 900725 675 0.6- 0.3+ 920207 801 0.5+ 0.7-
850424 688 0.3- 0.8- 900914 675 0.1+ 1.6- 920207 801 0.3+ 0.7-

(5101)* 1985 UB5 = 1969 TQ
Discovered 1985 Oct. 22 by L. V. Zhuravleva at the Crimean Astrophysical Observatory.
Id. C. M. Bardwell (MPC 12317)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

| | | | | |
|---|---|---|---|---|
| M | 121.23046 | (2000.0) | P | Q |
| n | 0.18860471 | Peri. 174.28258 | +0.93530305 | -0.34421112 |
| a | 3.0113948 | Node 206.31646 | +0.31687699 | +0.91792191 |
| e | 0.1085477 | Incl. 10.66139 | +0.15747120 | +0.19732734 |
| P | 5.23 | H 12.1 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 691007 | 095 | 0.2- | 0.5- | | 901015 | 095 | (0.5+ | 4.4+) | 920101 | 801 | 0.4- | 0.4- |
| 691016 | 095 | 0.5+ | 0.6- | | 901015 | 095 | 1.9+ | 1.3- | 920101 | 801 | 0.5+ | 0.3+ |
| 851022 | 095 | 0.3+ | 1.7+ | | 901016 | 801 | 0.4- | 0.1+ | 920107 | 801 | 0.2+ | 0.2- |
| 851109 | 095 | 1.0+ | 0.8+ | | 901016 | 801 | 0.4- | 0.1+ | 920107 | 801 | 0.3+ | 0.3- |
| 851111 | 095 | 1.6+ | 0.4+ | | 901017 | 801 | 0.2- | 0.0 | 920206 | 801 | 0.2- | 0.3- |
| 851120 | 095 | 2.9- | 1.1- | | 901017 | 801 | 0.2- | 0.1+ | 920206 | 801 | 0.1- | 0.2+ |
| 900924 | 095 | 0.6+ | 1.6- | | 901119 | 801 | 0.1- | 0.4+ | 920207 | 801 | 0.0 | 0.0 |
| 900930 | 095 | 1.2- | 1.4+ | | 901119 | 801 | 0.1- | 0.2+ | 920207 | 801 | 0.4- | 0.4- |

(5102)* 1986 RD1 = 1930 UA1 = 1939 PB = 1988 AJ1

Discovered 1986 Sept. 2 by A. Mrkos at Klet.

Id. T. Kobayashi (MPC 11857), S. Nakano (MPC 13159; unpublished)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 67.12629 | | (2000.0) | P | Q |
| n | 0.21047038 | Peri. | 50.99785 | +0.98201116 | -0.16356828 |
| a | 2.7990376 | Node | 318.17120 | +0.09712994 | +0.86602066 |
| e | 0.1966085 | Incl. | 8.13204 | +0.16192548 | +0.47249723 |
| P | 4.68 | H | 12.2 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 301017 | 690 | (35.9+ | 21.4-)X | | 860911 | 046 | (3.8+ | 3.6-) | 911007 | 046 | 1.9- | 1.0- |
| 301019 | 690 | (27.8- | 15.7-)X | | 860929 | 010 | (23.1- | 2.1+) | 911007 | 046 | 2.0- | 0.9- |
| 390808 | 020 | 1.3+ | 0.6- | | 860929 | 010 | (16.7- | 3.3+) | 911013 | 366 | 1.1- | 0.7+ |
| 390811 | 020 | 0.3- | 1.7- | | 880110 | 046 | 0.5- | 1.6- | 911013 | 366 | 0.3- | 0.2+ |
| 390811 | 020 | (2.4+ | 7.8+) | | 880110 | 046 | 1.4- | 1.8- | 911017 | 367 | 1.3+ | 0.4+ |
| 830114 | 095 | 0.5+ | 1.4+ | | 880112 | 046 | 1.0+ | 1.2- | 911017 | 367 | 0.2+ | 0.8+ |
| 860806 | 095 | (3.8- | 0.5-) | | 880112 | 046 | 0.1- | 1.7- | 911017 | 367 | 1.8+ | 1.4+ |
| 860808 | 095 | 1.4- | 1.3+ | | 880113 | 046 | 0.1- | 0.2- | 911103 | 801 | 0.1- | 0.6+ |
| 860812 | 095 | (5.2- | 1.7+) | | 880113 | 046 | 1.8+ | 0.8- | 911103 | 801 | 0.1- | 0.6+ |
| 860829 | 095 | (5.7- | 1.0-) | | 880119 | 046 | 1.9- | 0.1- | 911106 | 801 | 0.1- | 0.7+ |
| 860902 | 046 | 2.6+ | 1.9- | | 880119 | 046 | 0.9- | 1.7- | 911106 | 801 | 0.1- | 0.6+ |
| 860902 | 046 | 1.9+ | 2.3- | | 880120 | 046 | 0.6+ | 0.3- | 911115 | 366 | 0.6+ | 0.5+ |
| 860904 | 046 | (4.6+ | 0.5+) | | 880120 | 046 | 2.1- | 0.9+ | 920207 | 801 | 0.3+ | 0.8- |
| 860904 | 046 | (3.8+ | 0.5-) | | 911007 | 801 | 0.3- | 0.6+ | 920207 | 801 | 0.1- | 0.9- |
| 860911 | 046 | 0.4+ | 2.6- | | 911007 | 801 | 0.6- | 0.4+ | | | | |

(5103)* 1986 RP1 = 1977 QT3 = 1977 RD9 = 1985 JR1

Discovered 1986 Sept. 4 by A. Mrkos at Klet.

Id. H. Oishi (MPC 15245)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 141.52528 | | (2000.0) | P | Q |
| n | 0.21632819 | Peri. | 110.66213 | +0.45158908 | +0.89217860 |
| a | 2.7482779 | Node | 186.20712 | -0.84700527 | +0.42543727 |
| e | 0.0161482 | Incl. | 4.88116 | -0.28044496 | +0.15172496 |
| P | 4.56 | H | 12.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 770823 | 095 | 1.6- | 0.3+ | | 860904 | 046 | 0.4+ | 0.6+ | 911009 | 801 | 0.0 | 0.3- |
| 770909 | 675 | 0.8+ | 0.1+ | | 860905 | 046 | 0.7- | 1.1- | 911009 | 801 | 0.4- | 0.0 |
| 770909 | 095 | 0.0 | 0.5+ | | 860905 | 046 | 0.1- | 0.5+ | 920108 | 801 | 0.4+ | 0.2- |
| 770910 | 675 | 0.5+ | 0.5- | | 900625 | 801 | 0.4+ | 0.3+ | 920108 | 801 | 0.2+ | 0.0 |
| 850514 | 675 | (1.4- | 9.0+) | | 900625 | 801 | 0.8+ | 0.2- | 920108 | 801 | 0.1- | 0.0 |
| 860829 | 095 | 1.9+ | 2.1+ | | 900720 | 801 | 0.5- | 0.1+ | 920108 | 801 | 0.1+ | 0.2+ |
| 860904 | 046 | 1.2- | 2.0- | | 900720 | 801 | 0.8- | 0.5- | | | | |

(5104)* 1986 RU5 = 1982 SN4 = 1989 OQ = 1990 TE

Discovered 1986 Sept. 7 by L. I. Chernykh at the Crimean Astrophysical Observatory.

Id. G. V. Williams (MPC 17205)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 283.85136 | (2000.0) | P | Q |
| n | 0.23315298 | Peri. 8.17517 | -0.89525723 | +0.43858095 |
| a | 2.6144202 | Node 198.46347 | -0.42152216 | -0.89080278 |
| e | 0.1156927 | Incl. 14.35023 | -0.14433835 | -0.11881565 |
| P | 4.23 | H 11.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 820920 | 095 | (3.5+ 3.5-) | 890729 | 675 | (1.0- 2.5-) | 901009 | 413 | 0.5- 1.1+ |
| 860907 | 095 | 0.2+ 1.0+ | 890729 | 675 | 0.4- 1.5- | 901011 | 413 | 0.4- 1.1- |
| 860911 | 095 | 0.8- 0.6- | 900918 | 675 | 0.6+ 0.5- | 901011 | 413 | 0.1- 1.4+ |
| 861005 | 095 | 0.7+ 0.8- | 900918 | 675 | 0.7+ 0.7- | 920102 | 801 | 0.0 0.6- |
| 861010 | 095 | (0.9+ 2.9-) | 900920 | 675 | 1.3+ 0.1- | 920102 | 801 | 0.2+ 0.7- |
| 890705 | 675 | 0.2+ 0.6+ | 900920 | 675 | 1.2+ 0.6- | 920106 | 801 | 0.1- 0.7- |
| 890705 | 675 | 0.2- 0.7+ | 900926 | 095 | 2.1- 1.4+ | 920106 | 801 | 0.1- 0.5- |
| 890707 | 675 | 0.3- 1.4- | 900926 | 095 | (5.1- 5.8+) | 920207 | 801 | 0.2+ 0.1+ |
| 890707 | 675 | 0.4+ 1.5- | 901009 | 413 | 0.5- 0.9- | 920207 | 801 | 0.6- 0.2- |

(5105)* 1986 TM1 = 1982 UL10 = 1990 SQ10

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

Id. H. E. Holt (k, MPC 17632), R. H. McNaught (k, ibid.), B. G. Marsden (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

| | | | | |
|---|---|---|---|---|
| M | 109.34069 | (2000.0) | P | Q |
| n | 0.23544545 | Peri. 189.95973 | +0.54840024 | -0.82315200 |
| a | 2.5974220 | Node 226.96032 | +0.78040612 | +0.56704961 |
| e | 0.1564291 | Incl. 11.62163 | +0.30037222 | +0.02958917 |
| P | 4.19 | H 12.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 821023 | 095 | 0.8- 0.4- | 861204 | 688 | 1.4+ 1.5+ | 901012 | 413 | 0.2- 0.0 |
| 861003 | 095 | (1.3- 4.7-) | 900917 | 675 | 0.3+ 0.7+ | 901012 | 413 | 0.2- 0.0 |
| 861004 | 688 | 0.9+ 0.3- | 900917 | 675 | 0.6- 0.9+ | 901012 | 413 | 1.0+ 1.0+ |
| 861004 | 688 | 0.5- 0.1+ | 900917 | 675 | 1.0- 2.8- | 901012 | 413 | 1.0+ 1.0+ |
| 861007 | 095 | 0.3- 2.2- | 900917 | 675 | 0.1- 0.8- | 920107 | 801 | 0.6+ 0.4- |
| 861011 | 095 | 1.9+ 0.9- | 900919 | 675 | 0.2- 0.5+ | 920107 | 801 | 0.4+ 0.4- |
| 861105 | 688 | 1.4- 1.4+ | 900919 | 675 | 0.3- 1.3+ | 920207 | 801 | 0.9- 0.5- |
| 861105 | 688 | 1.9- 0.9+ | 900920 | 675 | 0.1- 1.7- | 920207 | 801 | 0.2- 0.3- |
| 861204 | 688 | 1.6+ 0.4+ | 900920 | 675 | 0.3- 1.1- | | | |

(5106)* 1987 DJ = 1985 YN1

Discovered 1987 Feb. 19 by P. Jensen at Brorfelde.

Id. S. Nakano (MPC 12001)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 147.30972 | (2000.0) | P | Q |
| n | 0.18710149 | Peri. 279.47484 | +0.98113412 | -0.04869267 |
| a | 3.0275028 | Node 83.48401 | +0.12308104 | +0.90362164 |
| e | 0.1161532 | Incl. 10.85431 | -0.14908688 | +0.42555488 |
| P | 5.27 | H 11.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 851217 | 010 | 0.9+ 0.3- | 870302 | 054 | 1.1- 2.1+ | 901214 | 801 | 0.6- 0.1+ |
| 851217 | 010 | (5.3+ 0.8+) | 880419 | 801 | 0.2- 2.8- | 901220 | 801 | 1.0- 0.3+ |
| 851219 | 010 | 1.8+ 1.7- | 901020 | 402 | 0.1+ 0.5- | 901220 | 801 | 1.2- 0.2+ |
| 870219 | 054 | 0.6- 0.3- | 901020 | 402 | 1.8+ 0.7+ | 920106 | 801 | 0.6+ 0.2- |
| 870220 | 054 | 0.4- 1.0+ | 901021 | 402 | 0.5- 0.2- | 920106 | 801 | 0.7+ 0.0 |
| 870222 | 054 | 0.4+ 0.9+ | 901021 | 402 | 0.0 0.2- | 920207 | 801 | 0.4+ 0.5- |
| 870224 | 054 | 1.6+ 0.5- | 901027 | 413 | 0.1- 0.6- | 920207 | 801 | 0.3+ 0.6- |
| 870226 | 054 | 2.5- 0.2+ | 901214 | 801 | 0.6- 0.1+ | | | |

(5107)* 1987 DS6 = 1976 GE1 = 1985 VY2

Discovered 1987 Feb. 24 by H. Debehogne at the European Southern Observatory.

Id. C. M. Bardwell (MPC 13313)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

| | | | | |
|---|---|---|---|---|
| M | 42.66356 | (2000.0) | P | Q |
| n | 0.17734520 | Peri. 277.68470 | -0.11677097 | -0.99315516 |
| a | 3.1375435 | Node 179.00882 | +0.96184504 | -0.11377009 |
| e | 0.0733031 | Incl. 9.03298 | +0.24742405 | -0.02644246 |
| P | 5.56 | H 12.0 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 760401 | 095 | 0.6+ | 2.5- | 870301 | 809 | 0.3+ | 0.3- | 870310 | 809 | (2.5- | 0.2-) |
| 760402 | 095 | (5.3- | 3.2-) | 870301 | 809 | 0.6+ | 0.4- | 870310 | 809 | (2.4- | 0.2-) |
| 760404 | 095 | 0.2+ | 2.1- | 870302 | 809 | 0.4- | 0.5- | 870310 | 809 | (2.2- | 0.2-) |
| 851110 | 095 | 2.4- | 2.2+ | 870302 | 809 | 0.2- | 0.6- | 890801 | 675 | 0.0 | 1.5- |
| 870224 | 809 | 0.9- | 0.8+ | 870302 | 809 | 0.0 | 0.9- | 890801 | 675 | 0.3+ | 0.7- |
| 870224 | 809 | 0.6- | 1.3+ | 870303 | 809 | 0.2- | 0.2+ | 900922 | 095 | 1.1+ | 0.2- |
| 870224 | 809 | 0.0 | 1.4+ | 870303 | 809 | 0.0 | 0.2+ | 900922 | 095 | (1.3+ | 3.0-) |
| 870225 | 809 | 0.7- | 0.2+ | 870303 | 809 | 0.2+ | 0.3+ | 901020 | 801 | 0.2+ | 1.1- |
| 870225 | 809 | 0.3- | 0.1+ | 870304 | 809 | 0.1+ | 0.4- | 901020 | 801 | 0.5+ | 0.9- |
| 870225 | 809 | 0.1- | 0.4+ | 870304 | 809 | 0.0 | 0.3- | 901120 | 801 | 0.5- | 0.9- |
| 870226 | 809 | 0.4+ | 0.1+ | 870304 | 809 | 0.1- | 0.3- | 901215 | 801 | 0.3+ | 0.7- |
| 870226 | 809 | 0.6+ | 0.1+ | 870306 | 809 | 0.1+ | 0.3- | 901215 | 801 | 0.3+ | 0.6- |
| 870226 | 809 | 0.8+ | 0.0 | 870306 | 809 | 0.1- | 0.3- | 920102 | 801 | 0.4- | 0.5- |
| 870227 | 809 | 0.0 | 0.3- | 870306 | 809 | 0.0 | 0.4- | 920102 | 801 | 0.2- | 0.7- |
| 870227 | 809 | 0.1+ | 0.0 | 870307 | 809 | 0.4- | 0.2+ | 920107 | 801 | 0.9+ | 0.0 |
| 870227 | 809 | 0.1+ | 0.2- | 870307 | 809 | 0.7- | 0.1- | 920107 | 801 | 0.9+ | 0.2- |
| 870228 | 809 | 0.3+ | 0.4+ | 870307 | 809 | 0.4- | 0.2+ | 920203 | 801 | 0.5+ | 0.3- |
| 870228 | 809 | 0.3+ | 0.3+ | 870308 | 809 | 0.8- | 0.0 | 920203 | 801 | 0.6+ | 0.8- |
| 870228 | 809 | 0.4+ | 0.3+ | 870308 | 809 | 0.9- | 0.2+ | | | | |
| 870301 | 809 | 0.6+ | 0.2- | 870308 | 809 | 0.6- | 0.2+ | | | | |

(5108)* 1987 QG2 = 1952 RP = 1952 SQ1 = 1989 CU

Discovered 1987 Aug. 21 by E. W. Elst at the European Southern Observatory.

Id. S. Nakano (MPC 14351)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 71.80990 | (2000.0) | P | Q |
| n | 0.28161570 | Peri. 77.57397 | +0.69926718 | -0.71236059 |
| a | 2.3051444 | Node 327.79438 | +0.60460251 | +0.63392835 |
| e | 0.1093458 | Incl. 6.43491 | +0.38142001 | +0.30112661 |
| P | 3.50 | H 13.2 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 520914 | 074 | 1.6- | 0.4+ | 870826 | 809 | 0.1+ | 0.2+ | 890213 | 049 | 0.7- | 1.1+ |
| 520916 | 839 | 0.4+ | 0.4+ | 870826 | 809 | 1.6+ | 0.1- | 911007 | 801 | 0.6+ | 0.3- |
| 520916 | 839 | 0.2- | 2.1+ | 890204 | 399 | 0.5- | 0.7- | 911007 | 801 | 0.6+ | 0.6+ |
| 870821 | 809 | 0.9+ | 0.0 | 890204 | 399 | (3.0+ | 1.5-) | 911010 | 801 | 0.3+ | 0.3+ |
| 870821 | 809 | 0.4- | 0.0 | 890204 | 399 | 1.2+ | 0.5+ | 911010 | 801 | 0.2+ | 0.2+ |
| 870821 | 809 | 1.7- | 0.1- | 890204 | 399 | 1.0+ | 0.7+ | 911103 | 801 | 0.4+ | 0.1+ |
| 870824 | 809 | 0.2- | 0.7- | 890205 | 399 | 1.1+ | 0.9+ | 911103 | 801 | 0.4+ | 0.2+ |
| 870824 | 809 | (2.8+ | 0.3-) | 890207 | 399 | 0.3+ | 0.2+ | 911106 | 801 | 1.0- | 0.5- |
| 870825 | 809 | 0.5- | 0.6+ | 890207 | 399 | (2.8- | 0.9+) | 911106 | 801 | 0.5- | 0.3+ |
| 870825 | 809 | 0.8+ | 1.2+ | 890207 | 399 | (2.6- | 1.1+) | 911201 | 675 | 0.0 | 0.7- |
| 870825 | 809 | 0.3+ | 0.6+ | 890211 | 399 | 0.2+ | 0.6+ | 911201 | 675 | 0.4- | 0.8+ |
| 870825 | 809 | 0.6- | 1.3- | 890211 | 399 | 1.8- | 0.1- | 911203 | 675 | 0.2- | 1.7- |
| 870825 | 809 | 0.1- | 0.7- | 890211 | 399 | 2.0+ | 1.0- | 911203 | 675 | 0.1+ | 0.0 |
| 870826 | 809 | 0.1+ | 0.2- | 890213 | 049 | 1.3- | 0.0 | | | | |

(5109)* 1987 RM1 = 1989 CK

Discovered 1987 Sept. 13 by H. Debehogne at the European Southern Observatory.

Id. S. Nakano (MPC 14352)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 271.00651 | (2000.0) | P | Q |
| n | 0.29394786 | Peri. 83.30045 | -0.63921537 | +0.76827412 |
| a | 2.2402123 | Node 146.88763 | -0.72789672 | -0.59015312 |
| e | 0.0661710 | Incl. 3.57232 | -0.24813319 | -0.24793983 |
| P | 3.35 | H 13.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 870913 | 809 | 1.4- | 0.3- | 870928 | 809 | 1.4+ | 0.4+ | 900625 | 801 | 0.4+ | 0.1- |
| 870913 | 809 | 0.0 | 0.8- | 890104 | 413 | 1.0+ | 0.9+ | 900625 | 801 | 0.7+ | 0.3+ |
| 870913 | 809 | 0.2- | 0.9- | 890104 | 413 | 0.8+ | 0.2- | 900719 | 801 | 0.3+ | 0.0 |
| 870916 | 809 | 0.4- | 0.1- | 890106 | 413 | 1.0+ | 0.4+ | 900720 | 801 | 0.4- | 0.0 |
| 870916 | 809 | 0.2- | 0.1+ | 890110 | 413 | 0.9- | 1.2+ | 900720 | 801 | 0.9+ | 0.2+ |
| 870916 | 809 | 0.2- | 0.2+ | 890110 | 413 | 1.0+ | 1.6- | 900725 | 675 | (3.4- | 0.7+) |
| 870917 | 809 | 0.3- | 0.6- | 890112 | 413 | (3.6- | 2.1-) | 900725 | 675 | (2.6- | 0.9+) |
| 870917 | 809 | 0.3- | 0.7- | 890113 | 413 | 1.6- | 0.1- | 900727 | 675 | 0.9- | 0.0 |
| 870917 | 809 | 0.1- | 0.7- | 890113 | 413 | (3.1- | 1.8+) | 900727 | 675 | 0.8- | 0.3+ |
| 870918 | 809 | 0.2- | 0.1+ | 890115 | 413 | (2.5- | 1.7+) | 900728 | 675 | 1.1- | 1.0+ |
| 870918 | 809 | 0.0 | 0.2+ | 890201 | 567 | 0.2- | 0.2+ | 900728 | 675 | 0.8- | 0.5+ |
| 870918 | 809 | 0.1+ | 0.1+ | 890201 | 567 | 0.8+ | 0.0 | 900816 | 801 | 0.5+ | 1.0+ |
| 870924 | 809 | (2.4- | 0.1+) | 890208 | 567 | 0.1- | 0.5+ | 900816 | 801 | 0.1+ | 0.6+ |
| 870924 | 809 | 0.1- | 0.6+ | 890208 | 567 | 0.4- | 0.1- | 900817 | 801 | 0.6+ | 0.1+ |
| 870924 | 809 | 0.0 | 0.5+ | 890209 | 567 | 0.3- | 0.2+ | 900817 | 801 | 0.2+ | 0.2+ |
| 870926 | 809 | 2.1- | 0.2+ | 890209 | 567 | 0.5- | 1.0- | 911107 | 801 | 0.3+ | 0.0 |
| 870926 | 809 | 0.9+ | 0.5+ | 890210 | 567 | 0.7- | 0.8+ | 911107 | 801 | 0.1+ | 0.3+ |
| 870926 | 809 | 0.9+ | 0.4+ | 890210 | 567 | 1.1- | 0.2+ | 911205 | 801 | 0.7- | 0.3+ |
| 870928 | 809 | 0.9+ | 0.5+ | 890227 | 567 | 1.2+ | 1.9+ | 911205 | 801 | 0.3+ | 0.0 |
| 870928 | 809 | 1.1+ | 0.5+ | 890227 | 567 | 1.2+ | 0.8+ | | | | |

(5110)* 1987 SV = 1937 AW = 1937 AC1 = 1937 BH = 1939 RG = 1974 CG

Discovered 1987 Sept. 19 by E. Bowell at the Anderson Mesa Station of the Lowell Observatory.

Id. S. Nakano (MPC 12449)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 79.47082 | (2000.0) | P | Q |
| n | 0.26722071 | Peri. 76.34142 | +0.86327027 | -0.50244165 |
| a | 2.3872028 | Node 313.79511 | +0.43348471 | +0.78687009 |
| e | 0.1087361 | Incl. 3.82352 | +0.25856420 | +0.35831251 |
| P | 3.69 | H 12.8 | G 0.15 | |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 370107 | 020 | (0.08+ | 0.05-)X | 870828 | 095 | 0.5- | 0.8- | 871026 | 688 | 0.2+ | 1.6+ |
| 370109 | 020 | (7.0+ | 3.6-) | 870916 | 095 | 1.0- | 0.5- | 871026 | 688 | 0.6- | 0.7+ |
| 370117 | 029 | 0.9- | 0.8- | 870919 | 688 | 1.0+ | 0.4+ | 911114 | 901 | 0.2- | 0.1- |
| 370117 | 029 | 0.7+ | 0.4- | 870919 | 688 | 1.1- | 0.6+ | 911114 | 901 | 0.7+ | 1.0- |
| 390908 | 024 | 0.2- | 1.1+ | 870926 | 688 | 0.1- | 0.2- | 920102 | 801 | 0.1- | 0.2- |
| 390909 | 024 | 1.0+ | 2.8- | 870926 | 688 | 0.5- | 0.3- | 920102 | 801 | 0.1- | 0.1- |
| 740214 | 095 | 0.1+ | 0.7+ | 871016 | 688 | 1.2+ | 1.6+ | 920108 | 801 | 0.2- | 0.0 |
| 740218 | 095 | 0.5+ | 1.1+ | 871016 | 688 | (1.0- | 2.5+) | 920108 | 801 | 0.2- | 0.1- |

(5111)* 1987 SE4 = 1962 XO = 1980 TV14

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

Id. S. Nakano (MPC 12450)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 126.97451 (2000.0) P Q
n 0.27288571 Peri. 98.65484 +0.96704716 +0.23678639
a 2.3540491 Node 247.69029 -0.25459335 +0.89733407
e 0.1263817 Incl. 5.80376 -0.00141845 +0.37245640
P 3.61 H 13.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 621202 760 | 0.5- | 0.1+ | 870926 095 | 0.1+ | 0.6+ | 871026 688 | 0.6+ | 0.8+ |
| 621202 760 | 0.6+ | 0.9+ | 870929 688 | 1.5+ | 1.2+ | 911007 801 | 0.4+ | 0.2- |
| 801015 095 | 0.7+ | 0.9+ | 870929 688 | 1.0+ | 0.4+ | 911007 801 | 0.3+ | 0.1- |
| 801017 095 | 0.6- | 0.1+ | 871016 688 | 0.1- | 1.3- | 911009 801 | 0.2+ | 0.6- |
| 801101 675 | 0.5- | 0.2+ | 871016 688 | 1.8- | 1.6- | 911009 801 | 0.3+ | 0.3- |
| 801102 675 | 0.5- | 0.3- | 871023 095 | 0.1+ | 0.1+ | 920108 801 | 0.4- | 0.0 |
| 870902 095 | 0.5- | 0.2+ | 871025 054 | 0.1- | 0.9- | 920108 801 | 0.3- | 0.0 |
| 870917 095 | 0.6- | 1.2+ | 871026 688 | 0.2+ | 1.6- | | | |

(5112)* 1987 SM13 = 1987 SL29 = 1971 TK1 = 1990 OV1
Discovered 1987 Sept. 23 by S. Ueda and H. Kaneda at Kushiro.
Id. H. Kaneda (MPC 17634)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 145.12558 (2000.0) P Q
n 0.30727372 Peri. 341.50885 +0.71326693 -0.69516068
a 2.1749658 Node 62.87283 +0.65507100 +0.61579553
e 0.1301246 Incl. 5.76853 +0.24926346 +0.37087397
P 3.21 H 13.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 711011 095 | 0.2- | 0.3+ | 900729 675 | 0.7+ | 0.1- | 920206 801 | 0.7+ | 0.4- |
| 870923 399 (3.2+ | 1.2+) | | 900729 675 | 0.2+ | 0.0 | 920206 801 | 1.0+ | 1.0- |
| 870923 399 (4.3+ | 1.1-) | | 900730 675 | 0.2+ | 0.2+ | 920226 399 | 2.3- | 0.6+ |
| 870923 399 | 1.6+ | 1.2- | 900730 675 | 0.4+ | 0.4+ | 920226 399 | 1.9- | 0.9+ |
| 870924 095 (5.2- | 0.4+) | | 900914 675 | 0.8- | 1.0- | 920229 399 | 0.6+ | 0.9- |
| 871025 399 | 0.1- | 0.3+ | 900914 675 | 0.1- | 0.7- | 920229 399 | 1.3+ | 0.8- |
| 871025 399 | 1.2- | 0.2- | 900915 675 | 0.5+ | 0.3+ | | | |
| 871025 399 | 0.1+ | 0.0 | 900915 675 | 0.9- | 0.3+ | | | |

(5113)* 1988 BN
Discovered 1988 Jan. 19 by T. Seki at Geisei.
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 342.37144 (2000.0) P Q
n 0.22679728 Peri. 217.34829 -0.94094343 +0.03051725
a 2.6630388 Node 320.04314 +0.23199379 -0.66724569
e 0.2267679 Incl. 31.67087 -0.24658538 -0.74421226
P 4.35 H 12.6 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 880119 372 | 2.6+ | 0.2- | 880213 675 (9.7- | 1.8-) | | 890701 474 (3.2- | 0.4-) | |
| 880120 372 | 0.6- | 2.7- | 880213 894 (3.2- | 0.4-) | | 890728 474 | 0.6+ | 0.5+ |
| 880123 372 | 0.8+ | 2.1+ | 880213 894 | 0.4- | 2.1+ | 890728 474 | 1.2+ | 0.4+ |
| 880125 372 | 0.1+ | 0.3+ | 880218 871 (3.2+ | 2.2+) | | 900921 372 (3.6- | 0.9+) | |
| 880129 372 | 0.1- | 2.1+ | 880221 372 | 0.9- | 2.0- | 900921 372 | 0.1- | 1.6+ |
| 880208 372 | 0.0 | 0.1- | 880221 372 | 0.1+ | 0.9- | 911209 372 | 0.2+ | 0.5- |
| 880208 372 | 0.3- | 0.1- | 880414 801 | 0.1+ | 0.6- | 911209 372 | 1.5+ | 1.2+ |
| 880211 675(13.2- | 1.9-) | | 890629 474 | 0.7- | 0.6+ | 911229 372 | 0.4+ | 0.8- |
| 880212 894 | 0.5+ | 0.3- | 890629 474 | 1.6- | 0.5+ | 911229 372 | 1.5- | 0.8+ |
| 880212 894 | 0.4+ | 1.7+ | 890701 474 | 2.7- | 0.6- | 920102 372 | 0.5- | 0.3- |

(5114)* 1988 CO = 1986 TS3
Discovered 1988 Feb. 15 by S. Ueda and H. Kaneda at Kushiro.
Id. T. Kobayashi (MPC 12952)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi

| | | | | |
|---|---|---|---|---|
| M | 309.94704 | (2000.0) | P | Q |
| n | 0.25366763 | Peri. 213.43055 | -0.52943056 | +0.84781266 |
| a | 2.4714928 | Node 24.64342 | -0.76156777 | -0.45924038 |
| e | 0.0120689 | Incl. 4.16466 | -0.37378845 | -0.26516404 |
| P | 3.89 | H 12.6 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 861004 | 046 | 1.4+ | 1.6+ | 880211 | 399 | 1.8- | 0.8+ | 901027 399 | 0.5+ | 0.2+ |
| 861004 | 046 | (1.8+ | 2.5+) | 880211 | 399 | 1.0+ | 0.4+ | 901111 400 | 0.7- | 0.9- |
| 861005 | 046 | 2.1- | 1.5+ | 880211 | 399 | 1.7+ | 1.0+ | 901111 400 | 0.2- | 0.5+ |
| 861005 | 046 | (5.2- | 0.9-) | 880215 | 399 | (3.3- | 1.1+) | 920205 399 | 1.4- | 0.4+ |
| 861009 | 046 | 0.2- | 1.5- | 880215 | 399 | 0.1- | 0.0 | 920205 399 | 1.4- | 0.5- |
| 861009 | 046 | 0.2+ | 0.3- | 880215 | 399 | 1.6+ | 0.4+ | 920208 399 | 0.2+ | 1.3- |
| 861010 | 046 | (5.0- | 4.2-) | 880219 | 399 | (0.6+ | 4.6+)Y | 920208 399 | 0.3+ | 2.1- |
| 861010 | 046 | (2.1- | 3.0-) | 880219 | 399 | 0.0 | 1.6+ | 920225 399 | 1.1+ | 0.1- |
| 880208 | 399 | 0.1- | 1.1- | 880219 | 399 | 1.2- | 0.2- Y | 920225 399 | 0.1- | 0.4- |
| 880208 | 399 | 1.2+ | 0.3- | 880312 | 054 | 2.1- | 1.4+ | 920226 399 | 0.4- | 0.4+ |
| 880208 | 399 | 1.0+ | 0.1- | 880312 | 054 | (3.6- | 1.5+) | 920226 399 | 0.2+ | 0.2+ |
| 880211 | 399 | (3.9- | 1.0+) | 901027 | 399 | 1.0+ | 1.3- | | | |

(5115)* 1988 CD4 = 1985 QR3 = 1990 MS

Discovered 1988 Feb. 13 by E. W. Elst at the European Southern Observatory.

Id. E. Bowell (k, MPC 16697), B. G. Marsden (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

| | | | | |
|---|---|---|---|---|
| M | 92.75905 | (2000.0) | P | Q |
| n | 0.18780036 | Peri. 93.53873 | +0.98053897 | +0.12925688 |
| a | 3.0199872 | Node 259.07450 | -0.17573125 | +0.91344055 |
| e | 0.1311068 | Incl. 8.65578 | +0.08753204 | +0.38590027 |
| P | 5.25 | H 12.2 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 850823 | 675 | 0.2- | 0.8- | 880223 | 413 | 0.1- | 0.5+ | 900728 675 | 0.4+ | 2.1- |
| 850823 | 675 | 0.9+ | 0.3- | 880225 | 413 | 0.8- | 0.3- | 900728 675 | 0.3+ | 0.6- |
| 880213 | 809 | 0.4+ | 1.1- | 880225 | 413 | 1.0+ | 0.4- | 900728 675 | 0.8+ | 2.4- |
| 880215 | 809 | 0.2+ | 2.1- | 900618 | 675 | 1.5+ | 0.3- | 900729 675 | 1.0- | 0.5+ |
| 880216 | 809 | 0.2+ | 1.1- | 900618 | 675 | 0.6+ | 0.2- | 900729 675 | 0.8- | 0.2+ |
| 880216 | 809 | 0.0 | 1.1- | 900621 | 675 | 0.0 | 0.1- | 900730 675 | 0.2+ | 0.2- |
| 880216 | 809 | 0.2- | 1.1- | 900621 | 675 | 0.5+ | 0.7- | 900730 675 | 0.9+ | 1.0- |
| 880221 | 809 | 1.5- | 0.1+ | 900724 | 675 | 1.1- | 0.5- | 911205 801 | 0.6+ | 1.7- |
| 880221 | 809 | 1.3- | 0.2+ | 900724 | 675 | 0.1+ | 0.4- | 911205 801 | 0.4+ | 2.2- |
| 880221 | 809 | 1.6- | 0.3+ | 900725 | 675 | 1.2+ | 1.3- | 920207 801 | 0.2+ | 1.4- |
| 880223 | 809 | 0.0 | 1.1- | 900725 | 675 | 0.6+ | 2.6- | 920207 801 | 0.1- | 1.0- |
| 880223 | 809 | 0.5- | 1.3- | 900727 | 675 | 1.1- | 1.6+ | | | |
| 880223 | 809 | 0.6- | 1.8- | 900728 | 675 | 0.3+ | 0.1- | | | |

(5116)* 1988 EU = 1970 BC = 1982 DH3 = 1982 HQ2

Discovered 1988 Mar. 13 by P. Jensen at Brorfelde.

Id. S. Nakano (MPC 13161)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 14.42050 | (2000.0) | P | Q |
| n | 0.17283654 | Peri. 29.30186 | +0.49273968 | -0.86886021 |
| a | 3.1918735 | Node 31.24856 | +0.77933976 | +0.41617462 |
| e | 0.1191873 | Incl. 5.29243 | +0.38708803 | +0.26810561 |
| P | 5.70 | H 11.4 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 700131 | 095 | 0.4- | 1.4- | 710402 | 675 | 0.7- | 0.4- | 710514 675 | 2.1- | 0.4+ |
| 710326 | 675 | 0.2+ | 1.4- | 710416 | 675 | 0.4+ | 1.6- | 710516 675 | 0.5- | 1.8+ |
| 710326 | 675 | 0.5+ | 1.4- | 710416 | 675 | 2.3- | 2.3- | 820220 033 | 1.6+ | 0.1+ |
| 710327 | 675 | 0.4+ | 0.8- | 710513 | 675 | 0.3- | 1.7+ | 820220 033 | 1.6+ | 0.2+ |

820220 033 1.6+ 0.0 880314 054 0.4- 0.8- 911009 595 0.5+ 0.0
820427 033 2.0- 1.2- 880318 054 0.3- 0.0 911009 595 0.2- 0.8-
820427 033 1.2- 0.8- 880323 809 0.5- 0.7+ 911009 595 0.5- 0.5+
850818 095 (3.4+ 4.1-) 880323 809 1.8- 0.6- 920205 801 0.2- 0.4-
850823 095 2.5+ 1.5- 880324 809 1.3+ 0.8- 920206 801 0.7- 0.6-
850915 095 0.1- 1.9- 880324 809 1.4- 0.2+ 920206 801 0.2- 0.1-
850920 095 2.7+ 2.7- 911008 596 0.9- 0.3- 920206 801 0.4- 0.1-
880313 054 1.7+ 0.2- 911008 596 1.0+ 1.1-
880313 054 0.3- 0.3- 911008 596 0.0 0.8+

(5117)* 1988 GH = 1972 GH = 1980 XP1
Discovered 1988 Apr. 8 by K. Endate and K. Watanabe at Kitami.
Id. S. Nakano (MPC 13154), T. Kobayashi (ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 305.01106 | (2000.0) | P | Q |
| n | 0.18447860 | Peri. 153.14399 | -0.99551280 | -0.06648644 |
| a | 3.0561316 | Node 23.33904 | +0.02020403 | -0.84450476 |
| e | 0.0749417 | Incl. 9.78556 | +0.09244495 | -0.53140500 |
| P | 5.34 | H 11.8 | G 0.15 | |

Residuals in seconds of arc
720414 095 (3.8- 2.0-) 880416 399 0.7- 1.3+ 901020 801 0.1- 0.3+
801210 095 0.5+ 1.1- 880416 046 2.2+ 1.9- 901021 801 0.0 0.4+
851018 095 (1.2+ 3.8+) 880416 046 1.0+ 1.1- 920101 801 0.4+ 0.5+
880408 400 1.5- 0.6- 880509 400 0.1+ 0.0 920106 801 0.1- 0.3+
880408 400 2.3+ 1.7+ 880509 400 0.5- 0.5+ 920106 801 0.1- 0.1+
880410 046 0.3- 0.2+ 880509 400 0.0 1.6+ 920206 801 0.1- 0.6-
880410 046 1.9- 1.2- 900914 809 0.2+ 0.6- 920206 801 0.1+ 0.4+
880414 046 2.3- 1.9- 900914 809 0.9+ 0.7- 920207 801 0.1- 0.4-
880414 046 0.1- 0.5- 900914 809 0.2+ 0.8- 920207 801 0.3- 0.1-
880416 399 0.2- 0.5+ 901020 801 0.1- 0.3+
880416 399 0.9+ 0.1+ 901020 801 0.3- 0.2+

(5118)* 1988 RB = 1937 KH = 1976 YB1 = 1980 TS11 = 1980 VH2
Discovered 1988 Sept. 7 by P. Jensen at Brorfelde.
Id. B. G. Marsden (MPC 13682)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

| | | | | |
|---|---|---|---|---|
| M | 348.68797 | (2000.0) | P | Q |
| n | 0.23457809 | Peri. 61.19914 | +0.67881288 | +0.70635172 |
| a | 2.6038208 | Node 253.02550 | -0.72539635 | +0.60257924 |
| e | 0.2163981 | Incl. 12.11306 | -0.11407549 | +0.37143710 |
| P | 4.20 | H 11.6 | G 0.15 | |

Residuals in seconds of arc (or two decimals in units of degrees)
370531 078(0.03+ 0.04+)X 880907 054 0.9- 1.1- 881002 054 0.3+ 0.5+
761216 095 3.5- 2.5- 880908 054 0.0 0.2- 910221 808 0.8- 0.2+
761218 095 1.3+ 1.0- 880909 054 0.1+ 0.4- 910221 808 0.6- 1.2-
801009 095 0.2+ 0.4+ 880916 054 0.3- 1.0- 910506 413 0.7+ 1.3-
801110 330 2.2+ 3.6+ 880920 054 0.5+ 0.2-
880907 054 0.5+ 0.0 880920 054 0.5+ 0.9-

(5119)* 1988 RA1
Discovered 1988 Sept. 8 by P. Jensen at Brorfelde.
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 133.31204 | (2000.0) | P | Q |
| n | 0.08304403 | Peri. 15.52164 | +0.88039338 | +0.43575051 |
| a | 5.2031192 | Node 317.02718 | -0.45908342 | +0.68408423 |
| e | 0.1078242 | Incl. 15.93633 | -0.11895339 | +0.58493611 |
| P | 11.87 | H 10.2 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 880908 | 054 | 0.6- | 0.2+ | | 890929 | 675 | 0.9+ | 0.4- | | 911202 | 675 | 0.3+ | 0.2+ |
| 880909 | 054 | 0.8+ | 1.9+ | | 890929 | 675 | 0.5+ | 0.9- | | 911202 | 675 | 0.7+ | 0.7- |
| 880909 | 054 | 0.8- | 0.2+ | | 891101 | 675 | 1.3- | 0.9+ | | 911206 | 675 | 0.2- | 0.1+ |
| 880911 | 675 | 0.9+ | 1.9- | | 891101 | 675 | 0.0 | 0.2+ | | 911206 | 675 | 0.3- | 0.0 |
| 880911 | 675 | 0.3+ | 1.1- | | 891122 | 675 | 0.2+ | 1.1- | | 920106 | 801 | 0.3+ | 1.0+ |
| 880916 | 054 | 0.7- | 1.0+ | | 891122 | 675 | 1.4- | 0.3- | | 920106 | 801 | 0.5+ | 0.5+ |
| 880920 | 054 | 0.2+ | 0.8+ | | 901111 | 675 | 0.2+ | 1.6+ | | 920206 | 801 | 0.7- | 0.6+ |
| 881002 | 054 | 0.1+ | 1.3+ | | 901111 | 675 | 0.6+ | 0.9- | | 920206 | 801 | 0.8- | 0.5+ |
| 881010 | 054 | 0.1+ | 1.2+ | | 901114 | 675 | 0.8+ | 1.2- | | | | | |
| 881010 | 054 | 0.9- | 1.9- | | 901114 | 675 | 0.4+ | 1.2- | | | | | |

(5120)* 1988 TZ1

Discovered 1988 Oct. 13 by C. S. Shoemaker at Palomar.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | | |
|---|---|---|---|---|---|
| M | 155.96397 | (2000.0) | P | Q | |
| n | 0.08100230 | Peri. | 22.54667 | +0.71607341 | +0.58570137 |
| a | 5.2901884 | Node | 295.89754 | -0.68735312 | +0.49689745 |
| e | 0.1091144 | Incl. | 24.96836 | -0.12159178 | +0.64034899 |
| P | 12.17 | H | 9.8 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 880914 | 675 | 0.2- | 1.3+ | | 891102 | 675 | 0.4- | 0.2- | | 911202 | 675 | 0.5- | 1.0+ |
| 880914 | 675 | 0.3- | 1.9+ | | 891103 | 675 | 1.0- | 1.5- | | 911202 | 675 | (2.3+ | 5.0-) |
| 881013 | 675 | 0.3- | 0.6+ | | 891103 | 675 | 0.1- | 1.6- | | 911206 | 675 | 1.0+ | 1.0- |
| 881013 | 675 | 0.4- | 1.2+ | | 901111 | 675 | 1.7+ | 1.9- | | 920102 | 801 | 0.1+ | 1.2+ |
| 881104 | 675 | 0.4+ | 1.3- | | 901113 | 675 | 0.5+ | 1.7- | | 920102 | 801 | 0.2+ | 1.1+ |
| 881106 | 675 | 0.2- | 0.2- | | 910120 | 675 | 0.5- | 0.4+ | | 920106 | 801 | 0.2+ | 0.7+ |
| 891102 | 675 | 0.7- | 0.1+ | | 910120 | 675 | (4.7- | 1.3-) | | 920106 | 801 | 0.3+ | 0.7+ |

(5121)* 1989 AX1 = 1941 WO = 1954 PA = 1984 QF1

Discovered 1989 Jan. 15 by M. Yanai and K. Watanabe at Kitami.

Id. T. Kobayashi (MPC 15893)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 95.48114 | (2000.0) | P | Q | |
| n | 0.29579389 | Peri. | 20.31172 | +0.94632412 | -0.32320641 |
| a | 2.2308819 | Node | 358.53600 | +0.27882895 | +0.82082611 |
| e | 0.1702326 | Incl. | 6.46353 | +0.16347804 | +0.47093748 |
| P | 3.33 | H | 13.0 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 411116 | 062 | 0.3+ | 0.8+ | | 890130 | 400 | 1.3- | 1.4- | | 911104 | 411 | 1.1+ | 0.6- |
| 411116 | 062 | 0.1- | 2.2+ | | 890207 | 400 | 0.3- | 2.2- | | 911106 | 366 | 0.5- | 0.8+ |
| 540807 | 760 | 1.6- | 2.1- | | 890207 | 400 | (1.0+ | 4.3-) | | 911106 | 366 | (0.5- | 2.6+) |
| 540807 | 760 | 0.5+ | 0.3+ | | 910812 | 801 | 0.6- | 0.4+ | | 911130 | 366 | 1.1+ | 0.1+ |
| 840831 | 688 | 0.7+ | 2.1- | | 910812 | 801 | 0.0 | 1.2+ | | 911130 | 366 | 0.1+ | 0.4+ |
| 840831 | 688 | 1.8+ | 1.0- | | 910912 | 801 | 0.2- | 0.5+ | | 911130 | 367 | 0.4- | 0.5+ |
| 840831 | 688 | 1.7+ | 0.7- | | 910912 | 801 | 0.2- | 0.6+ | | 911130 | 367 | 0.9- | 0.3+ |
| 890113 | 400 | (0.3- | 5.3-) | | 911007 | 801 | 0.2+ | 0.4+ | | 911130 | 367 | 0.8- | 0.3+ |
| 890113 | 400 | (0.9- | 6.4-) | | 911007 | 801 | 0.0 | 0.2+ | | 911201 | 902 | 1.4+ | 0.5+ |
| 890115 | 400 | (1.0- | 7.9-) | | 911009 | 801 | 0.1+ | 0.3+ | | 911201 | 902 | 1.1- | 1.0- |
| 890115 | 400 | (2.8- | 9.4-) | | 911009 | 801 | 0.1+ | 0.4+ | | 911201 | 366 | 0.4- | 0.7- |
| 890115 | 400 | (0.2+ | 10.0-) | | 911103 | 366 | (2.3+ | 0.9-) | | 911204 | 367 | 0.5- | 1.5- |
| 890130 | 400 | 0.3+ | 0.2- | | 911103 | 366 | 0.2- | 0.0 | | 911204 | 367 | 0.0 | 1.1- |
| 890130 | 400 | 0.1+ | 2.4- | | 911104 | 411 | 1.2+ | 0.3- | | 911204 | 367 | 1.3- | 0.8- |

(5122)* 1989 AZ1 = 1979 UH3 = 1983 NV = 1985 BE

Discovered 1989 Jan. 3 by A. Mrkos at Klet.

Id. S. Nakano (MPC 14358)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 9.67670 (2000.0) P Q
n 0.23664361 Peri. 259.40094 +0.95389126 -0.22146223
a 2.5886472 Node 113.14989 +0.27681129 +0.91004822
e 0.2011777 Incl. 12.72900 -0.11604729 +0.35038082
P 4.16 H 12.1 G 0.15
Residuals in seconds of arc

| | | |
|---|---|---|
| 620803 760 (3.7- 4.1+) | 890104 046 2.6+ 0.0 | 900325 801 0.5- 0.6+ |
| 620803 760 (4.4- 4.8+) | 890104 046 1.7+ 0.3+ | 910610 801 0.0 0.4- |
| 791025 808 0.0 0.8+ | 890109 046 (3.3- 1.2-) | 910610 801 0.4- 0.6- |
| 791025 808 1.1- 0.5+ | 890109 046 2.1- 1.9- | 910611 801 0.0 0.9- |
| 830713 688 1.0+ 2.7- | 890111 675 1.2- 1.2- | 910611 801 0.0 1.1- |
| 830713 688 (1.3- 5.3-) | 890111 675 0.5- 0.9- | 910614 293 (1.3+ 3.1-) |
| 850116 046 (3.5+ 2.0-) | 890114 293 1.7- 1.2+ | 910709 801 (0.0 2.8-) |
| 850116 046 1.0+ 0.9+ | 890114 293 (3.3- 2.6+) | 910709 801 0.0 0.7+ |
| 850118 046 0.8+ 0.1+ | 890207 071 0.8- 0.2- | 910711 801 0.6+ 0.2+ |
| 850118 046 (3.3+ 1.1+) | 890207 071 1.3- 1.3+ | 910711 801 0.0 0.1- |
| 890103 046 1.4+ 1.3- | 890207 071 0.4- 1.0- | |
| 890103 046 1.9+ 1.9- | 900325 801 0.7- 0.6+ | |

(5123)* 1989 BL = 1951 YW = 1986 WA9
Discovered 1989 Jan. 28 by Y. Oshima at the Gekko Observatory.
Id. H. Oishi (MPC 14358)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 120.18346 (2000.0) P Q
n 0.08226012 Peri. 30.62635 -0.31879716 -0.93663892
a 5.2361227 Node 78.29743 +0.83680206 -0.35006528
e 0.1043171 Incl. 8.52594 +0.44511873 -0.01272128
P 11.98 H 9.9 G 0.15
Residuals in seconds of arc

| | | |
|---|---|---|
| 511223 711 1.0- 3.6+ | 890203 888 0.0 0.0 | 900128 675 1.7- 0.1+ |
| 511223 711 (0.7- 7.5+) | 890203 888 0.1- 0.4+ | 900221 675 0.7+ 1.8- |
| 861130 381 0.0 0.6- | 890205 888 0.2+ 0.0 | 900221 675 1.7+ 0.4- |
| 861130 381 0.4+ 0.8- | 890205 888 0.3- 0.1+ | 900327 675 2.3+ 0.7+ |
| 861201 381 1.4+ 0.5- | 890207 888 0.7- 0.6+ | 900327 675 (1.5- 2.6-) |
| 861201 381 0.1- 1.2- | 890207 888 0.2- 0.4+ | 910309 675 0.9+ 0.1- |
| 890111 675 0.9- 0.4- | 890210 888 0.0 0.3+ | 910312 675 0.6+ 1.7+ |
| 890111 675 0.9- 0.9+ | 890210 888 0.2- 0.1- | 910312 675 0.2+ 0.7+ |
| 890128 888 (3.3- 2.6+) | 890213 888 (7.1- 1.8-) | 910414 675 0.4- 0.3- |
| 890128 888 (4.2- 4.3+) | 890213 888 (6.0- 0.1-) | 910414 675 0.6+ 0.6- |
| 890129 888 0.2- 0.4- | 890226 888 0.9- 0.1+ | 910416 675 0.7- 0.3+ |
| 890129 888 0.3- 0.1- | 890226 888 0.7- 0.2- | 910514 675 (3.0- 0.5-) |
| 890131 675 1.9+ 1.2- | 900126 675 0.6- 0.2+ | 910516 675 1.0- 1.0- |
| 890201 675 0.5+ 2.0- | 900126 675 0.1- 0.5+ | 910518 675 0.9- 0.7- |
| 890201 675 1.4+ 0.3+ | 900128 675 1.1- 0.1- | |

(5124)* 1989 CW = 1982 BL10 = 1990 OP3
Discovered 1989 Feb. 4 by T. Seki at Geisei.
Id. H. E. Holt (k, MPC 16876), G. V. Williams (ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 264.92700 (2000.0) P Q
n 0.28924231 Peri. 280.94142 -0.43095465 +0.90232730
a 2.2644435 Node 323.52604 -0.82179085 -0.39663387
e 0.0799537 Incl. 0.88099 -0.37274374 -0.16878099
P 3.41 H 13.7 G 0.15
Residuals in seconds of arc

| | | |
|---|---|---|
| 820119 095 0.3+ 1.4+ | 890205 049 0.2- 2.3- | 890206 875 0.2- 1.3+ |
| 890204 372 (6.3- 3.6-) | 890205 049 0.3- 0.8- | 890210 875 2.1- 0.6+ |
| 890204 372 (0.4+ 3.0-) | 890206 875 0.4+ 0.0 | 890210 372 (4.1- 1.1-)Y |

890210 875 (5.4- 2.6+) 890213 372 2.3- 0.1+ 900914 675 2.2+ 2.3-
890211 372 0.8- 0.6- 890214 809 0.3+ 0.7- 900914 675 1.4+ 0.9-
890211 372 1.1- 0.6- 890214 809 0.6+ 0.1- 900915 675 1.6+ 0.3-
890212 809 0.4- 0.2- 890214 372 1.4- 0.1+ 900915 675 1.0- 0.6-
890212 809 0.1- 0.1- 890214 372 1.0+ 0.3- 900918 675 1.4+ 1.5-
890212 809 0.3- 0.2- 890227 399 (3.6- 0.5-) 900918 675 (2.1+ 3.9-)
890213 049 0.3- 0.8- 890227 399 1.4+ 2.1- 911204 372 1.1+ 1.0-
890213 049 (0.2- 3.2+) 890227 399 1.8+ 0.7- 911208 372 1.4+ 0.9+
890213 049 0.7+ 0.8- 890306 372 0.8- 0.1- 911208 372 (3.1- 0.1+)
890213 049 1.2+ 0.7+ 890306 372 0.9+ 0.8+ 911210 033 0.3+ 1.3-
890213 809 0.3+ 0.5- 900727 675 0.5- 0.7- 911210 033 0.4- 0.7-
890213 809 0.5+ 0.7- 900727 675 0.2+ 0.2- 911211 372 2.5- 1.1+
890213 809 0.3+ 0.6- 900730 675 1.4- 1.2- 911212 033 0.0 0.2+
890213 875 2.3- 1.4+ 900730 675 0.9- 0.4- 911229 372 (3.5- 0.6-)
890213 875 0.9- 0.4- 900815 372 (1.6- 2.9+) 911229 372 0.1- 0.8+
890213 372 1.7+ 0.4- 900815 372 0.2- 1.0+

(5125)* 1989 CN1 = 1976 YX4

Discovered 1989 Feb. 10 by S. Ueda and H. Kaneda at Kushiro.

Id. T. Kobayashi (MPC 14478)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M 340.03779 | | (2000.0) | P | Q |
| n 0.25473428 | Peri. | 85.29463 | -0.32315763 | -0.94595879 |
| a 2.4645887 | Node | 23.61450 | +0.83929875 | -0.29968655 |
| e 0.1594678 | Incl. | 3.87040 | +0.43720333 | -0.12389487 |
| P 3.87 | H | 13.2 | G 0.15 | |

Residuals in seconds of arc

761218 095 0.7- 1.4+ 890227 399 1.1- 1.2+ 910915 675 0.8+ 0.8-
761220 095 0.1- 1.4+ 890227 399 0.1- 0.8- 910917 675 1.5+ 1.3-
870924 413 0.7- 0.1+ 890308 372 1.9- 1.1- 910917 675 0.7+ 1.1-
870924 413 0.7+ 1.1+ 890308 372 1.3- 1.1- 910930 399 0.7- 0.2+
890210 399 0.4- 0.5- 910907 399 1.3- 0.9+ 910930 399 0.2- 0.1+
890210 399 1.5+ 0.6- 910907 399 0.4- 1.5+ 911008 801 0.2- 1.0-
890210 399 0.4- 0.8+ 910913 801 0.3+ 0.4+ 911008 801 0.1- 1.1-
890212 400 0.2+ 1.0- 910913 801 0.5+ 0.4+ 911009 801 0.3- 1.0-
890212 400 1.6+ 0.6+ 910915 675 0.4- 0.2- 911009 801 0.3- 0.8-
890212 400 0.0 1.8- 910915 675 0.6+ 0.0
890227 399 0.4- 0.4- 910915 675 2.0+ 2.5-

(5126)* 1989 CH2

Discovered 1989 Feb. 1 by C. S. Shoemaker at Palomar.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

| | | | | |
|---|---|---|---|---|
| M 124.00598 | | (2000.0) | P | Q |
| n 0.08283711 | Peri. | 353.38876 | -0.35373403 | -0.82202520 |
| a 5.2117802 | Node | 116.48882 | +0.87937989 | -0.45483522 |
| e 0.0268170 | Incl. | 29.90749 | +0.31868988 | +0.34263610 |
| P 11.90 | H | 10.1 | G 0.15 | |

Residuals in seconds of arc

890111 675 1.4- 1.4+ 900128 675 1.9+ 0.6- 910313 801 0.1+ 1.0+
890111 675 0.7- 0.9+ 900221 675 0.1- 0.3- 910313 801 0.0 0.7+
890201 675 1.1+ 0.5+ 900224 675 0.5- 0.3- 910317 801 0.0 0.7+
890201 675 0.4+ 0.3+ 900327 675 0.8- 0.7- 910317 801 0.0 1.0+
890307 675 0.5+ 0.3+ 900327 675 0.8- 0.0 910414 675 1.2+ 0.3-
890308 675 0.6- 1.2- 910209 801 0.5- 0.4+ 910414 675 0.6+ 1.1-
900126 675 0.9+ 0.6- 910209 801 0.4- 0.3+ 910416 675 0.1- 0.3-
900126 675 0.7- 1.8- 910216 801 0.1+ 0.4-
900128 675 0.0 0.1+ 910216 801 0.3- 0.6+

(5127)* 1989 CO3 = 1969 TX = 1980 TR7
Discovered 1989 Feb. 4 by E. W. Elst at the European Southern Observatory.
Id. S. Nakano (MPC 14623)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M | 46.48768 | | (2000.0) | | P | | Q | |
| n | 0.26899640 | Peri. | 202.04576 | | +0.67729033 | | -0.73428076 | |
| a | 2.3766856 | Node | 205.39404 | | +0.68998862 | | +0.65562150 | |
| e | 0.1524348 | Incl. | 6.14835 | | +0.25533022 | | +0.17604606 | |
| P | 3.66 | H | 14.5 | G | 0.15 | | | |

Residuals in seconds of arc

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 691007 | 095 | 0.8- | 0.3+ | 890302 | 809 | 2.3- | 0.1+ | 910914 | 033 | 0.3- | 0.9+ |
| 691016 | 095 | 0.2- | 0.9+ | 890302 | 809 | 1.7- | 0.7+ | 910915 | 033 | 0.1- | 1.1+ |
| 801010 | 095 | 2.0+ | 2.4- | 890303 | 809 | 1.7+ | 0.0 | 910915 | 033 | 0.5- | 0.5+ |
| 890204 | 809 | 0.6- | 0.2- | 890303 | 809 | 1.3+ | 0.3- | 910915 | 675 | 0.6- | 0.3- |
| 890204 | 809 | 0.6- | 0.3- | 890303 | 809 | 1.5+ | 0.4- | 910918 | 033 | 0.3- | 1.5+ |
| 890204 | 809 | 1.5+ | 0.5- | 890303 | 809 | 1.2- | 0.3+ | 911003 | 033 | 1.5+ | 0.1- |
| 890207 | 809 | 1.3+ | 0.3+ | 890303 | 809 | 1.6- | 0.2- | 911004 | 033 | 1.3+ | 0.2- |
| 890207 | 809 | 0.5+ | 1.1+ | 890303 | 809 | 0.8- | 0.6- | 911004 | 033 | 0.9+ | 0.1- |
| 890207 | 809 | 0.6+ | 0.6+ | 910913 | 033 | 0.5- | 0.2+ | 911109 | 675 | 1.2- | 0.7- |
| 890302 | 809 | 1.0+ | 0.1- | 910913 | 033 | 0.4- | 0.5+ | 911109 | 675 | 0.3- | 0.7+ |
| 890302 | 809 | 0.5+ | 0.2+ | 910913 | 675 | 0.5- | 0.8- | 911110 | 801 | 0.5- | 0.1- |
| 890302 | 809 | 0.6+ | 0.0 | 910913 | 675 | 0.7+ | 0.8- | 911110 | 801 | 0.2- | 0.4+ |
| 890302 | 809 | 1.8- | 0.0 | 910913 | 033 | 0.5+ | 0.7+ | 911110 | 675 | 1.0- | 1.8- |

(5128)* 1989 FJ = 1970 AK = 1980 KW = 1982 UA5
Discovered 1989 Mar. 30 by M. Koishikawa at the Ayashi Station of the Sendai Astronomical Observatory.
Id. S. Nakano (MPC 14625)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M | 269.21143 | | (2000.0) | | P | | Q | |
| n | 0.21419770 | Peri. | 123.38063 | | -0.95342552 | | -0.29145402 | |
| a | 2.7664713 | Node | 39.83009 | | +0.22039042 | | -0.84896879 | |
| e | 0.1433714 | Incl. | 6.96594 | | +0.20593165 | | -0.44080216 | |
| P | 4.60 | H | 12.3 | G | 0.15 | | | |

Residuals in seconds of arc

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700104 | 095 | 0.2+ | 1.0- | 890405 | 391 | 1.4- | 0.8+ | 910913 | 801 | 0.4- | 0.7+ |
| 800517 | 095 | 0.2- | 0.1+ | 890405 | 391 | 2.0- | 1.3+ | 910913 | 675 | 0.1+ | 0.8- |
| 821020 | 033 | 0.4- | 0.0 | 890406 | 391 | 0.4+ | 0.1+ | 910913 | 675 | 0.3+ | 0.3- |
| 890330 | 391 | (8.4- | 0.9+) | 890406 | 391 | 1.9- | 2.0+ | 910916 | 675 | 0.2+ | 1.0- |
| 890330 | 391 | (9.6- | 0.5-) | 890413 | 391 | 1.4- | 1.0- | 910916 | 675 | 0.1+ | 1.4- |
| 890331 | 391 | (6.4- | 0.8+) | 890413 | 391 | (3.9- | 0.2+) | 911106 | 801 | 0.8+ | 0.2- |
| 890331 | 391 | 1.3- | 1.4+ | 890428 | 391 | 0.5+ | 2.4- | 911106 | 801 | 0.3- | 0.1- |
| 890402 | 391 | 2.3+ | 1.6+ | 890428 | 391 | 0.3- | 1.8- | 911107 | 675 | 0.5+ | 1.0+ |
| 890402 | 391 | 2.3+ | 0.3+ | 890429 | 391 | 2.2+ | 2.4- | 911107 | 675 | 1.3- | 0.7+ |
| 890404 | 391 | 0.1- | 0.6+ | 890429 | 391 | 1.5+ | 1.5- | 911109 | 675 | 1.2+ | 0.9+ |
| 890404 | 391 | 0.2- | 0.2+ | 910913 | 801 | 0.3- | 0.7+ | 911109 | 675 | 0.6- | 0.2+ |

(5129)* 1989 GN = 1949 MH
Discovered 1989 Apr. 7 by E. F. Helin at Palomar.
Id. B. G. Marsden (MPC 17020)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| M | 356.05995 | | (2000.0) | | P | | Q | |
| n | 0.26840734 | Peri. | 350.94817 | | -0.93196286 | | -0.36053560 | |
| a | 2.3801617 | Node | 167.70897 | | +0.34285671 | | -0.91068169 | |
| e | 0.0849552 | Incl. | 10.33771 | | +0.11787492 | | -0.20167532 | |
| P | 3.67 | H | 12.1 | G | 0.15 | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 490620 | 024 | 0.1- | 1.7- | | 890502 | 675 | 1.1+ | 1.6+ | | 900925 | 675 (0.7+ 3.1-) |
| 890406 | 400 | 1.5- | 0.4- | | 900818 | 675 | 1.8- | 0.0 | | 900925 | 675 (0.7+ 2.7-) |
| 890406 | 400 | 1.9- | 0.2- | | 900818 | 675 | 0.7- | 0.3- | | 911009 | 801 0.0 0.2- |
| 890406 | 400 | 0.3+ | 0.2+ | | 900820 | 675 | 0.4- | 0.7+ | | 911009 | 801 0.8- 1.0- |
| 890407 | 675 | 0.5- | 0.2- | | 900820 | 675 | 0.5- | 0.4+ | | 920130 | 675 0.2+ 0.0 |
| 890407 | 675 | 0.4- | 1.2- | | 900826 | 095 | 2.4+ | 0.7- | | 920130 | 675 0.5+ 0.6- |
| 890408 | 675 | (1.4- | 2.8-) | | 900826 | 095 | (6.3+ | 1.5-) | | 920201 | 675 0.7- 0.7- |
| 890408 | 675 | 0.9- | 1.2- | | 900914 | 675 | 0.8+ | 2.1- | | 920201 | 675 0.1+ 1.0- |
| 890430 | 675 | 1.8+ | 1.9- | | 900914 | 675 | (0.3+ | 2.8-) | | 920203 | 801 0.2+ 0.6- |
| 890430 | 675 | 0.5+ | 0.6- | | 900923 | 675 | (1.8+ | 3.4-) | | 920203 | 801 0.2+ 0.7- |
| 890502 | 675 | 0.7+ | 1.4+ | | 900923 | 675 | 1.2+ | 2.0- | | | |

(5130)* 1989 SC7 = 1990 VE8

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

Id. C. S. Shoemaker (MPC 17637)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | | |
|---|---|---|---|---|---|
| M | 102.66937 | (2000.0) | P | Q | |
| n | 0.08117653 | Peri. | 105.38868 | +0.94602159 | +0.21792074 |
| a | 5.2826163 | Node | 242.53870 | -0.28039062 | +0.92154797 |
| e | 0.0096927 | Incl. | 15.68616 | +0.16255541 | +0.32134077 |
| P | 12.14 | H | 9.8 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 880914 | 675 | 0.5+ | 1.0- | | 901022 | 675 | 0.3+ | 0.1+ | | 911206 | 675 1.1- 1.4- |
| 880914 | 675 | (7.3+ | 4.3+) | | 901111 | 675 | 0.7- | 0.3+ | | 920101 | 675 0.1- 1.1- |
| 890830 | 675 | 1.3- | 0.3+ | | 901111 | 675 | 0.5- | 0.3+ | | 920101 | 675 0.9+ 0.0 |
| 890901 | 675 | 2.5+ | 0.8+ | | 901113 | 675 | 0.2+ | 1.1+ | | 920102 | 801 0.1+ 1.0+ |
| 890902 | 675 | 0.3+ | 2.6- | | 901113 | 675 | 0.1+ | 0.6+ | | 920102 | 801 0.1+ 1.2+ |
| 890930 | 675 | 0.3- | 0.5+ | | 911107 | 675 | 0.9+ | 2.3- | | 920104 | 675 0.2- 0.3+ |
| 890930 | 675 | 0.0 | 0.3- | | 911107 | 675 | 0.6+ | 2.1- | | 920106 | 801 0.3- 0.8+ |
| 891101 | 675 | 0.5- | 1.1+ | | 911109 | 675 | 0.3+ | 0.7- | | 920106 | 801 0.3- 0.8+ |
| 891102 | 675 | 1.0- | 0.1- | | 911202 | 675 | 1.3- | 0.2+ | | | |
| 901020 | 675 | 0.5+ | 0.6+ | | 911206 | 675 | 0.0 | 0.5+ | | | |

(5131)* 1990 BG

Discovered 1990 Jan. 21 by E. F. Helin and B. Roman at Palomar.

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell

| | | | | | |
|---|---|---|---|---|---|
| M | 58.84932 | (2000.0) | P | Q | |
| n | 0.54383002 | Peri. | 135.68276 | -0.27564949 | +0.78464704 |
| a | 1.4864852 | Node | 110.54580 | -0.96061800 | -0.24593454 |
| e | 0.5698419 | Incl. | 36.37087 | +0.03507732 | -0.56907400 |
| P | 1.81 | H | 14.1 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 781206 | 413 | 0.4+ | 0.8+ | | 900220 | 675 | 0.1- | 1.5- | | 900324 | 675 2.1- 0.0 |
| 781206 | 413 | 0.4+ | 1.5- | | 900223 | 675 | 0.6+ | 0.6- | | 900324 | 675 2.0- 0.2+ |
| 900121 | 675 | 1.0- | 0.8+ | | 900223 | 675 | 0.4+ | 0.7- | | 900327 | 801 1.0+ 0.4+ |
| 900122 | 675 | (0.8+ | 3.1-) | | 900227 | 801 | 2.6+ | 0.2- | | 900327 | 801 1.3+ 0.4+ |
| 900124 | 675 | 0.6+ | 0.9- | | 900228 | 801 | 1.7+ | 0.2+ | | 900621 | 413 0.4- 0.3- |
| 900124 | 675 | 0.4+ | 0.5- | | 900228 | 801 | 1.0+ | 0.4- | | 900917 | 474 0.4- 1.2+ |
| 900125 | 675 | 0.3- | 0.7- | | 900228 | 675 | 0.7+ | 0.1- | | 900917 | 474 0.6+ 0.1+ |
| 900126 | 675 | 1.3- | 1.2+ | | 900228 | 675 | 0.6+ | 0.7+ | | 900919 | 474 0.5+ 0.3- |
| 900126 | 675 | (2.9- | 1.1+) | | 900301 | 675 | 1.1- | 0.1+ | | 900919 | 474 0.8+ 0.0 |
| 900126 | 657 | 0.3+ | 2.7+ | | 900301 | 675 | 1.1- | 0.5+ | | 910210 | 801 0.8- 0.8- |
| 900130 | 675 | 1.9- | 0.2- | | 900322 | 801 | 0.6+ | 0.2- | | 910211 | 801 1.1- 0.9- |
| 900203 | 685 | (4.3+ | 10.1-) | | 900322 | 801 | 0.5+ | 0.2- | | 920101 | 801 0.7+ 0.3- |
| 900203 | 685 | (13.2+ | 17.1-) | | 900322 | 675 | 0.5- | 0.1+ | | 920101 | 801 0.5- 0.1- |
| 900220 | 675 | 0.9+ | 0.6- | | 900322 | 675 | 0.9- | 0.6+ | | 920102 | 801 0.8+ 0.0 |

920102 801 0.5+ 0.3+ 920109 675 (5.3- 1.2+) 920205 801 0.2- 0.7+
920106 801 0.3- 0.1+ 920109 675 (5.0+ 1.0+) 920206 801 0.7- 0.9-
920106 801 0.1- 0.3+ 920205 801 0.4+ 0.3+ 920206 801 0.7- 0.7-

(5132)* 1990 ME = 1973 QU1 = 1976 GQ = 1985 HW1 = 1986 QS5
Discovered 1990 June 22 by H. E. Holt at Palomar.
Id. G. V. Williams (MPC 16881)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 135.20443 | (2000.0) | P | Q |
| n | 0.22550456 | Peri. 142.31866 | +0.56984752 | +0.81953698 |
| a | 2.6732065 | Node 162.16604 | -0.79367155 | +0.56790356 |
| e | 0.1148961 | Incl. 11.35027 | -0.21297714 | +0.07645056 |
| P | 4.37 | H 12.0 | G 0.15 | |

Residuals in seconds of arc
730831 095 0.1- 2.6+ 900622 675 0.5- 1.1- 911004 801 0.1+ 0.3+
730905 095 0.2- 0.7- 900622 675 0.4- 0.6- 911004 801 0.1- 0.1+
760401 095 0.2+ 2.2+ 900623 675 0.7- 1.3- 911004 801 0.1+ 0.2+
760402 095 (6.2- 3.9+) 900623 675 0.8- 1.2- 911007 801 0.1- 0.3+
760404 095 0.2- 2.4+ 900818 675 0.8- 2.2+ 911007 801 0.3- 0.0
850419 046 2.4+ 1.6- 900818 675 1.2+ 0.8+ 911108 801 0.1+ 0.1-
850419 046 1.0- 2.2+ 900821 675 1.9+ 0.8+ 911108 801 0.0 0.3-
860830 095 0.1+ 1.7+ 911004 801 0.1+ 0.3+

(5133)* 1990 PA = 1983 EB3
Discovered 1990 Aug. 12 by R. H. McNaught at Siding Spring.
Id. G. V. Williams (MPC 17212)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 153.53465 | (2000.0) | P | Q |
| n | 0.22011256 | Peri. 279.22608 | +0.97039275 | -0.12330658 |
| a | 2.7166863 | Node 88.05890 | +0.19860128 | +0.89671419 |
| e | 0.2234874 | Incl. 11.99375 | -0.13746068 | +0.42508722 |
| P | 4.48 | H 11.6 | G 0.15 | |

Residuals in seconds of arc
790324 413 0.2+ 0.5+ 901015 801 0.3- 0.8+ 901206 592 (2.9- 4.2-)
830314 095 0.5- 0.0 901015 413 0.2+ 0.0 910114 592 2.1+ 0.2+
880124 413 1.3+ 0.5- 901016 801 0.2- 0.1+ 910114 592 1.4+ 0.8+
900812 413 0.6- 0.1+ 901016 801 0.3- 0.0 910115 592 (3.5- 1.2-)
900813 413 0.5+ 0.1- 901016 095 1.7+ 0.9- 910115 592 (4.2- 0.8-)
900818 413 0.8+ 0.6+ 901016 095 1.2+ 0.8- 920108 801 0.5- 0.3-
900828 413 1.2- 1.1- 901108 413 0.3- 0.1- 920108 801 1.2- 0.2+
900916 413 0.6+ 0.8- 901109 413 0.0 0.1+ 920206 801 0.1- 0.4-
901014 095 0.6+ 0.4- 901205 592 1.2- 2.0+ 920206 801 0.2+ 0.4-
901014 095 0.4- 0.5- 901205 592 1.5- 0.8+
901015 801 0.3- 0.8+ 901206 592 1.6- 1.4-

(5134)* 1990 SM2 = 1947 LL = 1981 WN6 = 1983 CG = 1985 PL2 = 1986 WS6
Discovered 1990 Sept. 17 by H. E. Holt at Palomar.
Id. S. Nakano (MPC 17450)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 220.33839 | (2000.0) | P | Q |
| n | 0.21145106 | Peri. 195.07891 | +0.26960769 | +0.95261039 |
| a | 2.7903765 | Node 90.71645 | -0.86828894 | +0.30374093 |
| e | 0.0358240 | Incl. 8.09899 | -0.41639646 | -0.01657987 |
| P | 4.66 | H 12.0 | G 0.15 | |

Residuals in seconds of arc
470615 690 0.6+ 0.4- 830211 688 0.0 0.5- 861128 010 1.3+ 2.6-
470616 690 1.0- 0.6- 830215 688 0.7- 2.3- 861128 010 0.4- 1.3-
811124 095 0.5+ 0.8+ 830215 688 0.3- 2.1- 861128 010 0.3- 1.5-
830211 688 0.3+ 1.0- 850813 095 2.2+ 2.8- 900917 675 0.4+ 0.8-

900917 675 0.1- 0.8- 900930 372 0.7- 0.2+ 911228 376 0.3- 1.1+
900919 675 0.2- 1.8- 901001 809 0.5- 0.6+ 920102 801 0.2- 0.5+
900919 675 0.7+ 0.5- 901001 809 0.2- 0.7+ 920102 801 0.0 0.4+
900930 809 0.4- 0.9+ 901001 809 0.3+ 0.8+ 920106 801 0.1+ 0.5+
900930 809 0.2- 1.1+ 911205 801 0.4+ 0.4+ 920106 801 0.1+ 0.6+
900930 809 0.3+ 1.1+ 911205 801 0.4+ 0.6+ 920110 894 0.8+ 1.1+
900930 372 1.1- 0.8- 911228 376 0.9- 1.0+ 920110 894 0.6- 0.2-

(5135)* 1990 UE = 1969 JG = 1982 DE = 1989 GV7
Discovered 1990 Oct. 16 by S. Ueda and H. Kaneda at Kushiro.
Id. H. Kaneda (MPC 17454)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 287.97692 (2000.0) P Q
n 0.29408571 Peri. 229.35668 -0.08672778 +0.99566131
a 2.2395122 Node 35.71047 -0.89570488 -0.06311586
e 0.1279951 Incl. 3.31156 -0.43610900 -0.06837353
P 3.35 H 12.9 G 0.15
Residuals in seconds of arc
690505 095 (5.0- 1.8-) 901016 399 0.2- 1.0+ 920129 399 0.2- 1.7+
690516 095 0.4- 1.5+ 901016 399 0.7+ 0.6+ 920205 399 0.2+ 0.5+
820216 046 0.5- 0.5- 901016 399 0.2- 0.7+ 920205 399 0.1+ 0.2-
820216 046 0.5+ 0.5+ 901019 399 0.4- 1.4- 920208 399 0.5- 1.5-
820220 688 (3.6+ 2.9-) 901019 399 1.1- 0.7- 920208 399 0.3- 1.0-
820220 688 1.9+ 2.4- 901019 399 1.5+ 1.0- 920221 399 1.6- 0.7+
890404 391 0.6- 0.4- 901022 399 0.2+ 0.2+ 920221 399 1.5- 1.3+
890404 391 1.6- 1.2+ 920128 399 1.0+ 0.0 920222 399 1.0- 0.8+
890412 400 1.5+ 1.8- 920128 399 1.6+ 0.5- 920222 399 0.1- 0.5+
890412 400 0.7+ 1.4- 920129 399 0.4+ 0.8+

(5136)* 1990 UG2 = 1964 WC = 1979 RF
Discovered 1990 Oct. 20 by R. H. McNaught at Siding Spring.
Id. G. V. Williams (MPC 17827)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 112.83708 (2000.0) P Q
n 0.18715226 Peri. 290.31797 +0.74914104 -0.63683390
a 3.0269552 Node 109.69944 +0.65669812 +0.67794170
e 0.1072581 Incl. 11.16434 +0.08680599 +0.36720245
P 5.27 H 11.9 G 0.15
Residuals in seconds of arc
641129 760 0.2- 2.0- 901022 413 (3.9- 1.4-) 920101 801 0.4+ 0.4-
641129 760 1.8+ 1.5- 901022 413 (3.3+ 1.7+) 920108 801 0.4+ 0.5+
790901 095 1.4- 1.0- 901108 413 2.2- 1.1+ 920108 801 0.3+ 0.3+
890830 413 1.1+ 0.0 901109 413 0.6- 0.7+ 920204 894 0.5+ 0.8+
901014 095 0.3+ 1.2+ 901109 413 0.5- 1.6+ 920204 894 0.3+ 2.4+
901014 095 (2.6+ 2.9-) 901215 675 0.8+ 0.4+ 920205 801 0.3+ 0.1-
901016 095 1.7+ 0.1- 901215 675 0.4- 1.1- 920205 801 0.2+ 0.1-
901016 095 2.3+ 0.8- 901218 675 1.3- 0.5- 920205 399 1.0- 1.6-
901020 413 1.3- 0.8+ 901218 675 0.6+ 0.2+ 920205 399 1.9- 0.5-
901020 413 (2.1+ 3.2+) 920101 801 0.3+ 0.2+

(5137)* 1990 VC = 1982 VR5 = 1982 XO4 = 1986 WS3
Discovered 1990 Nov. 8 by J. M. Baur at Chions.
Id. B. G. Marsden (MPC 17643)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 281.61018 (2000.0) P Q
n 0.23991987 Peri. 24.54174 -0.27319560 +0.94339185
a 2.5650268 Node 230.18146 -0.91809088 -0.31407591
e 0.0706274 Incl. 14.17463 -0.28718166 +0.10662145
P 4.11 H 13.3 G 0.15

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 821114 | 381 | 1.5+ | 2.4+ | 901113 | 567 | 0.2- | 1.0- | 910215 493 | 0.7- | 0.5- |
| 821114 | 381 | 1.4+ | 1.7+ | 901113 | 567 | 0.8- | 1.6- | 911215 567 | 0.4- | 0.8- |
| 821214 | 381 | 0.3+ | 0.9+ | 901206 | 567 | 1.7+ | 0.7- | 911215 567 | 0.7+ | 0.6- |
| 821214 | 381 | 0.1+ | 0.2- | 901206 | 567 | 0.7+ | 0.1+ | 911215 567 | 0.7+ | 0.7- |
| 861125 | 010 | (3.0- | 3.3+) | 901206 | 567 | 1.1+ | 0.0 | 911216 567 | 0.1- | 0.7+ |
| 861125 | 010 | 3.4- | 0.6+ | 901207 | 493 | 1.3+ | 0.0 | 911216 567 | 0.2- | 0.1- |
| 861125 | 010 | (4.7- | 0.0 ) | 901207 | 493 | 1.1+ | 0.3- | 911216 567 | 0.0 | 0.1- |
| 861125 | 010 | 3.3- | 0.1+ | 901211 | 567 | 0.0 | 0.7- | 911231 567 | 0.5+ | 0.0 |
| 901108 | 567 | 0.9+ | 0.0 | 901211 | 567 | 0.3+ | 0.5- | 911231 567 | 0.3+ | 0.3- |
| 901108 | 567 | 1.1- | 0.6+ | 901211 | 567 | 0.6+ | 0.3- | 911231 567 | 0.5- | 0.7+ |
| 901109 | 567 | 0.1+ | 1.2- | 901212 | 493 | 0.8+ | 0.5+ | 920125 567 | 0.1- | 0.1- |
| 901109 | 567 | (3.1- | 1.7-) | 901212 | 493 | 0.8- | 0.0 | 920125 567 | 0.5- | 0.3+ |
| 901110 | 567 | 0.7+ | 0.4- | 901215 | 567 | 0.1- | 1.0+ | 920127 567 | 0.2- | 0.3- |
| 901110 | 567 | 0.1+ | 0.3- | 901215 | 567 | 1.0- | 1.1+ | 920127 567 | 0.5- | 0.6- |
| 901112 | 567 | 0.4- | 1.5- | 901215 | 567 | 1.9- | 1.0+ | 920127 567 | 0.0 | 0.1+ |
| 901112 | 567 | 0.4+ | 0.6- | 910215 | 493 | 2.1+ | 0.2+ | | | |

(5138)* 1990 VD2 = 1957 VB = 1987 HX

Discovered 1990 Nov. 13 by T. Hioki and S. Hayakawa at Okutama.

Id. G. V. Williams (MPC 19307)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 74.76140 | (2000.0) | P | Q |
| n | 0.18048242 | Peri. 264.50075 | -0.14465853 | -0.98947607 |
| a | 3.1010787 | Node 193.81808 | +0.91324331 | -0.13222135 |
| e | 0.1694232 | Incl. 0.79595 | +0.38086818 | -0.05877597 |
| P | 5.46 | H 11.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 571114 | 330 | 0.4+ | 0.5+ | 901113 | 877 | 1.5- | 0.6+ | 920106 801 | 0.2+ | 0.3- |
| 571116 | 330 | (0.6- | 3.8+) | 901115 | 877 | 1.2- | 0.5- | 920106 801 | 0.3+ | 0.1+ |
| 571118 | 330 | 0.5- | 0.4- | 901115 | 877 | 0.3+ | 0.6+ | 920107 801 | 0.1- | 0.3- |
| 870423 | 046 | (0.3- | 3.9-) | 901115 | 095 | (7.0+ | 5.9+) | 920107 801 | 0.6+ | 0.3+ |
| 870423 | 046 | 0.5- | 1.7- | 901115 | 095 | (0.7+ | 3.3+) | 920206 801 | 0.2+ | 0.2+ |
| 901028 | 095 | 2.1- | 0.4- | 901117 | 399 | 0.1+ | 0.7- | 920206 801 | 0.3+ | 0.2+ |
| 901029 | 095 | 1.9+ | 0.4+ | 901117 | 399 | 1.6+ | 0.2- | 920208 877 | 0.2+ | 1.2+ |
| 901112 | 399 | (1.7- | 5.2-) | 901123 | 877 | 1.3- | 0.7+ | 920208 877 | 0.2+ | 0.4- |
| 901112 | 399 | 1.7+ | 0.5- | 901123 | 877 | 2.3- | 0.1+ | 920209 877 | 0.7+ | 1.3- |
| 901112 | 399 | 1.6+ | 2.2- | 901123 | 095 | 1.7+ | 0.4+ | 920209 877 | 2.2- | 1.0+ |
| 901113 | 877 | 2.1- | 0.1- | 901123 | 095 | 2.1+ | 0.5+ | | | |

(5139)* 1990 VH4 = 1956 UM = 1959 JH = 1973 FG2 = 1989 QK1

Discovered 1990 Nov. 13 by M. Mukai and M. Takeishi at JCPM Kagoshima Station.

Id. H. Kaneda (MPC 18433)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M | 247.90904 | (2000.0) | P | Q |
| n | 0.20411048 | Peri. 222.49469 | +0.16962444 | +0.98461533 |
| a | 2.8568834 | Node 57.31239 | -0.89026370 | +0.17135084 |
| e | 0.0315487 | Incl. 2.85735 | -0.42267967 | +0.03422780 |
| P | 4.83 | H 11.3 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 561029 | 760 | 0.0 | 0.2+ | 901017 | 095 | 2.6+ | 0.4- | 901115 095 | 1.1+ | 1.0- |
| 590502 | 760 | 1.2- | 2.2+ | 901028 | 095 | 0.5- | 2.6+ | 901121 364 | (3.5- | 2.0-) |
| 590502 | 760 | 0.8+ | 0.2- | 901029 | 095 | 0.0 | 0.4+ | 901121 364 | 1.1- | 0.7- |
| 730330 | 095 | 3.0+ | 1.7+ | 901113 | 364 | 1.9+ | 1.4- | 901121 095 | 0.2- | 0.3- |
| 730331 | 095 | (4.9+ | 1.8+) | 901113 | 364 | (3.2+ | 2.1-) | 901121 095 | 0.4- | 0.0 |
| 890829 | 808 | 0.6- | 0.5+ | 901114 | 095 | (6.1+ | 0.4+) | 901122 364 | 2.0- | 0.6+ |
| 890829 | 808 | 0.9+ | 0.1- | 901114 | 095 | 0.1+ | 1.1+ | 901122 364 | 0.8- | 0.1- |
| 901017 | 095 | 0.2- | 0.6+ | 901115 | 095 | (9.8+ | 3.2+) | 901123 095 | 1.6- | 0.9+ |

901123 095 0.1+ 0.3+ 920126 364 0.2+ 2.0- 920202 364 0.6- 0.5-
920112 372 (2.3- 4.4+) 920126 364 0.6- 0.6+ 920202 364 1.5+ 1.0+
920114 372 (2.4- 4.8+) 920127 364 1.0- 1.4-
920115 372 0.8- 1.8+ 920127 364 0.4- 1.5-

(5140)* 1990 XH = 1950 TP3 = 1953 FC1 = 1967 TF = 1976 GH6 = 1978 RG
Discovered 1990 Dec. 8 by S. Ueda and H. Kaneda at Kushiro.
Id. H. Kaneda (MPC 17648)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M | 138.31333 | (2000.0) | P | Q |
| n | 0.17311167 | Peri. 210.49955 | +0.96433936 | -0.25915436 |
| a | 3.1884907 | Node 164.24589 | +0.26461733 | +0.94005595 |
| e | 0.1056232 | Incl. 11.41724 | +0.00522261 | +0.22166152 |
| P | 5.69 | H 11.2 | G 0.15 | |

Residuals in seconds of arc
501013 760 0.1- 1.1+ 901208 399 1.4- 0.7- 920129 399 0.0 0.7+
530316 024 (0.7- 4.2-) 901208 399 1.5- 0.3- 920129 399 1.6- 0.5-
530320 024 0.7- 1.7- 901213 399 0.1- 1.2+ 920202 399 0.3- 0.2-
671012 095 2.0+ 0.4+ 901213 399 1.1+ 1.9- 920202 399 (2.9- 0.8+)
671029 095 1.7- 1.8- 901223 399 1.3+ 0.2+ 920207 801 1.4+ 0.0
760402 095 (3.7- 5.5+) 901223 399 1.2+ 0.5+ 920207 801 1.7+ 0.1+
780901 095 (1.8+ 3.7-) 920102 801 0.9+ 0.5+ 920221 399 0.8+ 1.4+
780905 095 0.7- 0.4- 920102 801 1.2+ 0.6+ 920221 399 0.3+ 0.3+
780907 095 0.8+ 1.3+ 920128 399 0.0 0.5- 920222 399 0.9- 1.2-
901208 399 0.9- 0.6- 920128 399 1.4- 0.1- 920222 399 1.2- 1.0+

(5141)* 1990 YB = 1974 RZ = 1977 DD10 = 1979 RP = 1979 SK4 = 1985 XN2 = 1989 UE9
Discovered 1990 Dec. 16 by T. Seki at Geisei.
Id. S. Nakano (MPC 17828), N. S. Chernykh (d, ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 259.33754 | (2000.0) | P | Q |
| n | 0.20244580 | Peri. 184.90635 | +0.79354824 | +0.60758705 |
| a | 2.8725231 | Node 137.61868 | -0.55659252 | +0.74696889 |
| e | 0.0607702 | Incl. 2.84479 | -0.24593894 | +0.26995454 |
| P | 4.87 | H 12.6 | G 0.15 | |

Residuals in seconds of arc
740911 095 (7.4- 2.9+) 890930 675 0.6+ 0.6+ 901219 372 0.1- 0.2-
770219 381 1.2- 0.6+ 890930 675 0.7- 0.0 901219 372 1.3+ 0.0
770219 381 1.1+ 0.8- 891030 095 2.5+ 0.7- 901221 372 0.0 0.5-
790902 095 0.0 0.5- 891030 095 1.7+ 1.4- 901221 372 0.7+ 1.3+
790924 095 1.2- 2.5+ 891103 675 0.8- 0.2+ 901227 372 (4.2+ 1.6-)
790924 095 1.2+ 2.0- 891103 675 0.5- 0.5+ 901227 372 0.6+ 0.4+
851214 675(20.9+ 0.8-) 891104 675 0.7- 0.3+ 910118 511 0.2+ 1.1-
851214 675(23.2+ 0.2-) 891104 675 0.1+ 0.9+ 910118 511 0.7+ 0.9-
890928 675 0.8- 0.3+ 901216 372 0.4- 0.5- 910121 372 2.2- 0.5-
890928 675 1.4- 1.0- 901216 372 0.6- 2.3+ 910121 372 (0.1- 4.1+)

(5142)* 1990 YD = A921 TD = 1929 SN = 1933 SF = 1971 CE = 1974 YR = 1975 BN1
Discovered 1990 Dec. 18 by T. Hioki and S. Hayakawa at Okutama.
Id. R. Nagata (MPC 17649)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 161.11244 | (2000.0) | P | Q |
| n | 0.24335885 | Peri. 192.61284 | +0.78602456 | -0.61639639 |
| a | 2.5408047 | Node 205.62371 | +0.57622802 | +0.75814062 |
| e | 0.2724662 | Incl. 6.25609 | +0.22388982 | +0.21278697 |
| P | 4.05 | H 12.0 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 211010 | 024 | (6.9- | 6.8-) | 741220 | 330 | 1.4+ | 0.4+ | 901223 | 877 | 0.7- | 0.6- |
| 211011 | 024 | 0.2- | 1.1- | 750116 | 330 | (10.3- | 1.0+) | 901223 | 877 | 0.9- | 0.6- |
| 211031 | 024 | (2.3- | 3.5+) | 901115 | 095 | 1.9+ | 0.5- | 910106 | 877 | 0.3- | 0.1+ |
| 290929 | 690 | 1.6+ | 0.8+ | 901116 | 095 | (0.8+ | 2.3-) | 910106 | 877 | 0.5- | 0.2- |
| 291009 | 690 | 1.3- | 0.9+ | 901218 | 877 | 0.7+ | 1.1- | 910113 | 877 | 0.3- | 0.2+ |
| 330921 | 012 | 0.6- | 0.7+ | 901218 | 877 | 0.6+ | 0.0 | 910114 | 877 | 0.1- | 1.3+ |
| 710201 | 029 | 0.1+ | 0.4+ | 901219 | 877 | 0.1+ | 0.1+ | 910114 | 877 | 0.8+ | 0.7- |
| 710202 | 029 | 0.5- | 1.7+ | 901219 | 877 | 1.6- | 0.4+ | | | | |

(5143)* 1991 VL = 1962 PG

Discovered 1991 Nov. 7 by C. S. Shoemaker at Palomar.

Id. G. V. Williams (MPC 19682), B. A. Skiff (ibid.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | | |
|---|---|---|---|---|---|
| M | 41.67923 | (2000.0) | P | Q | |
| n | 0.39682620 | Peri. | 226.31476 | -0.99170650 | -0.04346574 |
| a | 1.8340133 | Node | 310.80872 | +0.09758039 | -0.86710085 |
| e | 0.7714824 | Incl. | 9.19515 | -0.08364379 | -0.49623265 |
| P | 2.48 | H | 13.9 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 620803 | 760 | 0.1- | 0.9- | 911108 | 675 | 0.2+ | 1.5- | 911229 | 587 | (2.4- | 2.7+) |
| 620803 | 760 | 0.1- | 1.9+ | 911109 | 675 | 0.2+ | 0.6+ | 911231 | 675 | 0.7+ | 1.5- |
| 820724 | 688 | 0.4+ | 0.0 | 911129 | 587 | 0.4+ | 1.3- | 911231 | 675 | 0.2+ | 1.4- |
| 820724 | 688 | 0.5+ | 0.5- | 911201 | 675 | 0.8- | 0.1- | 920101 | 801 | 0.1- | 0.7+ |
| 820820 | 413 | 0.4- | 0.0 | 911201 | 675 | 0.5- | 0.6+ | 920101 | 801 | 0.3- | 0.7+ |
| 820820 | 413 | 0.2- | 0.0 | 911202 | 587 | 0.3- | 0.7+ | 920105 | 801 | 0.0 | 0.8+ |
| 911005 | 675 | 0.8- | 0.8- | 911203 | 675 | 0.7+ | 0.3- | 920105 | 801 | 0.1- | 0.8+ |
| 911005 | 675 | 0.7- | 0.2- | 911203 | 675 | 0.6+ | 0.1+ | 920202 | 801 | 0.1+ | 0.1- |
| 911010 | 675 | 0.3- | 1.2- | 911204 | 801 | 0.2- | 1.0+ | 920202 | 801 | 0.1+ | 0.5+ |
| 911010 | 675 | 2.0+ | 1.7- | 911205 | 801 | 0.3- | 0.6+ | 920205 | 801 | 0.7- | 0.4+ |
| 911012 | 675 | 0.8- | 0.6+ | 911206 | 801 | 0.2- | 1.0+ | 920205 | 801 | 0.8- | 0.3+ |
| 911012 | 675 | 0.3+ | 1.0+ | 911206 | 801 | 0.1- | 1.2+ | | | | |
| 911107 | 675 | 0.9+ | 1.6- | 911207 | 587 | 1.0- | 1.2+ | | | | |

(5144)* 1991 XX = 1939 PC = 1951 PK = 1975 QA = 1987 QV11 = 1988 SS4

Discovered 1991 Dec. 2 by C. S. Shoemaker at Palomar.

Id. G. V. Williams, C. S. Shoemaker (1989 obs.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | | |
|---|---|---|---|---|---|
| M | 160.40815 | (2000.0) | P | Q | |
| n | 0.08199434 | Peri. | 329.38628 | +0.38624647 | +0.91775640 |
| a | 5.2474316 | Node | 323.10878 | -0.81204226 | +0.29081642 |
| e | 0.2712291 | Incl. | 8.85390 | -0.43749403 | +0.27046072 |
| P | 12.02 | H | 8.9 | G 0.15 | |

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

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 390809 | 020 | (9.6- | 1.8-)X | 870827 | 095 | 0.1- | 0.7+ | 911202 | 675 | 0.2+ | 0.3+ |
| 390811 | 020 | (0.04- | 0.00+)X | 880917 | 095 | 1.3- | 2.3+ | 911202 | 675 | 0.6+ | 0.6+ |
| 510806 | 711 | 1.8+ | 2.4- Y | 891105 | 675 | 0.8- | 0.4+ | 911206 | 675 | 0.4+ | 0.7- |
| 510806 | 711 | 0.3- | 0.7- Y | 891105 | 675 | 0.7- | 0.4+ | 911206 | 675 | 0.1+ | 0.4- |
| 510808 | 094 | (0.03- | 0.00-)X | 891124 | 675 | 0.1+ | 1.5- | 920205 | 675 | 1.3- | 2.3- |
| 740810 | 688 | 1.1- | 1.1- | 891124 | 675 | 0.3+ | 0.5+ | 920205 | 675 | 1.1+ | 0.1- |
| 750825 | 485 | 0.1- | 0.7+ | 891125 | 675 | 0.6- | 2.2- | 920208 | 675 | 0.3+ | 0.1- |
| 750825 | 485 | 1.2+ | 0.0 | 891125 | 675 | 0.2+ | 0.7+ | 920208 | 675 | 0.2+ | 0.2- |

(5145)* 1992 AD

Discovered 1992 Jan. 9 by Spacewatch at Kitt Peak.

Id. C. S. Shoemaker (1991 obs.), J. Mueller (1989 obs.), R. H. McNaught (1977, 1982 obs.)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M 2.91832 | | (2000.0) | P | Q |
| n 0.01063419 | Peri. | 354.88402 | -0.41810032 | -0.83234241 |
| a 20.4801433 | Node | 119.38374 | +0.84755304 | -0.50156630 |
| e 0.5758518 | Incl. | 24.68233 | +0.32687302 | +0.23587574 |
| P 92.68 | H | 7.3 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 770722 413 | 0.2+ | 1.1+ | 920118 413 | 0.4+ | 0.1- | 920205 691 | 1.0- | 0.7+ |
| 820822 413 | 1.0- | 1.3+ | 920118 413 | 0.4+ | 0.0 | 920205 691 | 1.1- | 0.8+ |
| 891106 675 | 0.4+ | 0.5- | 920118 413 | 0.5+ | 0.2- | 920205 801 | 0.5+ | 0.5+ |
| 891106 675 | 0.8+ | 0.8- | 920123 372 | 0.2+ | 0.6- | 920205 801 | 0.4+ | 0.5+ |
| 891106 675 | 1.2+ | 0.9- | 920123 568 | 0.3+ | 0.3+ | 920205 675 | (0.4- | 2.4-) |
| 910119 675 | 0.6+ | 0.9- | 920124 399 | 0.3+ | 1.0+ | 920205 675 | 0.8+ | 1.0- |
| 910119 675 | 1.5- | 0.5- | 920124 399 | 0.4+ | 1.0+ | 920205 402 | (2.8+ | 0.2+) |
| 920101 675 | 1.2+ | 0.9- | 920125 399 | 1.1- | 1.0+ | 920205 402 | 0.6+ | 1.3+ |
| 920101 675 | (1.6+ | 3.3-) | 920125 399 | 1.1- | 1.0+ | 920206 809 | (3.9- | 1.0+) |
| 920109 691 | 0.4- | 0.4- | 920126 691 | 0.7- | 0.1+ | 920206 658 | 0.2- | 0.7+ |
| 920109 691 | 0.2- | 0.5- | 920126 691 | 1.0- | 0.1- | 920206 658 | 1.0- | 0.2+ |
| 920109 691 | 0.5- | 0.1- | 920126 691 | 1.1- | 0.1+ | 920206 658 | 0.9- | 0.0 |
| 920109 675 | 1.3+ | 0.9- | 920126 657 | 0.6+ | 0.7+ | 920207 658 | 0.5+ | 0.5+ |
| 920110 691 | 0.7- | 0.2- | 920126 657 | 0.3+ | 0.7+ | 920207 658 | 0.2+ | 1.1+ |
| 920110 691 | 0.5- | 0.3- | 920126 402 | (1.8+ | 2.0+) | 920207 658 | 0.3+ | 0.8+ |
| 920110 691 | 0.3- | 0.0 | 920126 402 | 0.2- | 0.4+ | 920208 399 | 0.8+ | 1.0+ |
| 920110 675 | 1.1+ | 0.6+ | 920127 372 | 0.6+ | 0.2+ | 920208 399 | 0.2+ | 0.0 |
| 920113 691 | 0.4- | 0.1+ | 920131 049 | 1.3- | 1.9- | 920211 413 | 0.6+ | 0.1- |
| 920113 691 | 0.3- | 0.0 | 920204 675 | 0.9+ | 1.7- | 920211 413 | 0.6+ | 0.2- |
| 920113 691 | 0.6- | 0.2- | 920204 675 | (0.2- | 4.7-) | 920211 413 | 0.6+ | 0.3- |
| 920114 399 | 0.2+ | 0.2- | 920204 049 | 1.6- | 0.8- | 920212 413 | 1.4+ | 0.4- |
| 920114 399 | 0.6+ | 0.6- | 920205 691 | 1.2- | 0.4+ | | | |

(5146)* 1992 BP = 1974 DC2 = 1974 DE2 = 1975 LH = 1980 RS6 = 1980 TX6 = 1988 JU2

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

Id. H. Kaneda, T. Urata (d, NOC 1160)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M 307.42403 | | (2000.0) | P | Q |
| n 0.21667669 | Peri. | 272.56966 | -0.30693760 | +0.94780352 |
| a 2.7453302 | Node | 338.92160 | -0.74958500 | -0.29665924 |
| e 0.1525868 | Incl. | 13.89372 | -0.58643980 | -0.11688364 |
| P 4.55 | H | 11.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 740227 808 | 0.5+ | 0.2+ | 880512 808 | 0.1+ | 0.7- | 920208 399 | 1.5- | 0.5- |
| 740227 808 | 0.4- | 0.0 | 880512 808 | 0.3+ | 1.0- | 920208 399 | 0.2+ | 0.9+ |
| 740228 808 | 0.6+ | 0.4- | 920128 399 | 0.6+ | 0.2- | 920209 400 | 0.8+ | 1.1- |
| 750613 805 | 2.1- | 0.3+ | 920128 399 | 1.4+ | 0.2- | 920209 400 | 1.2+ | 0.4+ |
| 750614 805 | 1.1- | 0.2- | 920129 399 | 0.1+ | 1.4+ | 920225 399 | 0.3- | 0.2+ |
| 800913 675 | 2.0+ | 0.6- | 920129 399 | (2.9+ | 1.4+) | 920225 399 | 0.8- | 0.1- |
| 800914 675 | 2.1+ | 0.1- | 920205 399 | 1.0- | 1.0- | 920226 399 | 0.7+ | 0.4- |
| 801012 095 | 1.8- | 0.6+ | 920205 399 | 1.4- | 0.6+ | 920226 399 | 1.1- | 1.3+ |

(5147)* 1992 BQ = 1950 JU = 1972 TS8 = 1981 SS7 = 1981 WE5 = 1984 JT = 1986 XS1 = 1988 GD2

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

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M 306.15979 | | (2000.0) | P | Q |
| n 0.23218342 | Peri. | 275.01303 | -0.14302104 | +0.98915121 |
| a 2.6216934 | Node | 346.62330 | -0.84088601 | -0.13931590 |
| e 0.2021642 | Incl. | 8.33554 | -0.52197289 | -0.04659368 |
| P 4.24 | H | 12.1 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 500511 | 839 | 0.8+ | 1.7+ | | 861201 | 010 | (3.5- | 0.0 ) | 920205 | 399 | (3.9+ 0.1-) |
| 500512 | 839 | 0.0 | 0.6- | | 861201 | 010 | 1.3+ | 0.9- | 920208 | 399 | 2.0- 0.6+ |
| 721006 | 095 | 0.9- | 0.2- | | 880413 | 054 | 1.9+ | 0.9- | 920208 | 399 | 0.9+ 0.6+ |
| 810929 | 095 | 0.8+ | 2.7+ | | 920128 | 399 | 0.6- | 0.1+ | 920225 | 399 | 0.2- 0.1+ |
| 811124 | 095 | 0.1- | 0.0 | | 920128 | 399 | 0.0 | 0.5+ | 920225 | 399 | 0.3+ 0.5- |
| 840503 | 688 | 0.6- | 1.2- | | 920129 | 399 | (3.1- | 0.4-) | 920226 | 399 | 0.8+ 0.6+ |
| 840503 | 688 | 0.5- | 0.5- | | 920129 | 399 | 2.4- | 2.2+ | 920226 | 399 | 0.9+ 0.0 |
| 861201 | 010 | 1.9- | 2.1- | | 920205 | 399 | 1.5+ | 0.7- | | | |

(5148)* 5557 P-L = 1974 CS = 1980 GC1

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

Id. K. Hurukawa (MPC 9301)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 72.52802 | (2000.0) | P | Q |
| n | 0.17825465 | Peri. 218.17449 | -0.89074773 | +0.45448075 |
| a | 3.1268627 | Node 348.85498 | -0.41178587 | -0.81070151 |
| e | 0.1334608 | Incl. 1.17595 | -0.19235613 | -0.36906680 |
| P | 5.53 | H 13.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 600924 | 675 | 0.9- | 0.0 | | 740214 | 095 | 0.5+ | 1.5+ | 910325 | 809 | 0.5+ 1.1- |
| 600926 | 675 | 0.9- | 0.0 | | 800414 | 805 | 0.6+ | 1.2+ | 910325 | 809 | 1.0+ 1.1- |
| 600928 | 675 | 0.5- | 0.6+ | | 800415 | 805 | 0.9+ | 0.1+ | 910325 | 809 | 1.1+ 1.4- |
| 601017 | 675 | 0.4- | 1.3+ | | 800416 | 805 | 0.2- | 1.7+ | 910419 | 809 | 1.8+ 1.8+ |
| 601022 | 675 | 0.8+ | 0.9+ | | 910323 | 809 | 1.6- | 0.5- | 910419 | 809 | (0.8- 3.5+) |
| 601025 | 675 | 0.5+ | 1.4+ | | 910323 | 809 | 1.9- | 0.3- | 910419 | 809 | 0.4+ 1.7+ |
| 601026 | 675 | 0.3- | 0.4- | | 910323 | 809 | 1.7- | 0.0 | | | |

(5149)* 6582 P-L = 1985 DF4

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

Id. E. Bowell (MPC 11844)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 142.73493 | (2000.0) | P | Q |
| n | 0.17618224 | Peri. 103.71615 | -0.42760670 | -0.90396100 |
| a | 3.1513354 | Node 11.60069 | +0.82419353 | -0.39107503 |
| e | 0.1566429 | Incl. 0.75542 | +0.37129172 | -0.17295905 |
| P | 5.59 | H 12.6 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 600924 | 675 | 0.4+ | 1.2- | | 881008 | 807 | 1.0- | 0.9- | 910324 | 809 | 1.1- 0.5+ |
| 600926 | 675 | 0.1+ | 1.4- | | 881103 | 807 | 0.9+ | 0.3- | 910324 | 809 | 0.9- 0.5+ |
| 600927 | 675 | 1.3+ | 0.5- | | 881106 | 807 | 0.3+ | 0.2- | 910324 | 809 | 0.9- 0.5+ |
| 600928 | 675 | 0.1+ | 1.0- | | 881108 | 807 | 0.5+ | 0.7- | 910325 | 809 | 0.8- 1.6+ |
| 601017 | 675 | 1.1- | 1.4- | | 910317 | 809 | 1.4+ | 0.6- | 910325 | 809 | 0.6- 1.5+ |
| 601022 | 675 | 0.0 | 0.3- | | 910317 | 809 | 1.6+ | 0.7- | 910325 | 809 | 0.3- 1.6+ |
| 601024 | 675 | 0.9- | 1.4+ | | 910317 | 809 | 1.9+ | 0.6- | 910408 | 809 | 0.4- 0.5- |
| 601026 | 675 | 2.1+ | 0.2- | | 910319 | 809 | 0.7+ | 0.4- | 910408 | 809 | 0.8- 0.6- |
| 850222 | 675 | 1.2- | 1.7- | | 910319 | 809 | 0.7+ | 0.4- | 910408 | 809 | 1.4- 2.3- |
| 850223 | 675 | 0.2- | 1.7- | | 910319 | 809 | 0.8+ | 0.6- | 910410 | 809 | 0.3- 1.8- |
| 880916 | 807 | 1.1+ | 0.2+ | | 910323 | 809 | 0.4+ | 0.7+ | 910410 | 809 | 1.1- 1.8- |
| 880918 | 807 | 1.2+ | 0.4- | | 910323 | 809 | 0.6+ | 0.4+ | 910410 | 809 | 2.1- 2.0- |
| 881004 | 807 | 1.5- | 1.1- | | 910323 | 809 | 0.8+ | 0.6+ | | | |

(5150)* 7571 P-L = 1939 EK = 1970 EW = 1974 FL1 = 1976 UG5 = 1978 EJ3 = 1978 GL1 = 1978 JL2

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 11522)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 268.11264 (2000.0) P Q
n 0.25290182 Peri. 120.12949 -0.90504262 -0.42002992
a 2.4764795 Node 35.15747 +0.33922724 -0.80771454
e 0.1091402 Incl. 6.66959 +0.25655943 -0.41372949
P 3.90 H 12.9 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 390314 | 062 | 0.1- | 0.1+ | 761030 | 095 | (3.5+ 0.2-) | 881210 801 | 0.8- 0.0 |
| 390318 | 062 | (1.3- | 9.6-) | 780306 | 095 | 0.5- 1.5+ | 910905 413 | 1.2+ 0.5+ |
| 601017 | 675 | 0.2- | 0.1- | 780407 | 095 | (4.0- 0.4+) | 910905 413 | (2.6+ 1.0+) |
| 601022 | 675 | 0.6- | 0.3- | 780509 | 095 | 1.3- 0.1+ | 911008 801 | 0.3+ 0.5+ |
| 601025 | 675 | 0.1+ | 0.2- | 841119 | 675 | 0.2+ 0.4+ | 911009 801 | 1.5- 0.3+ |
| 601026 | 675 | 0.1+ | 0.3- | 841121 | 675 | 0.5+ 0.9+ | 911011 801 | 0.6+ 0.0 |
| 700307 | 095 | 1.2+ | 1.3- | 841127 | 010 | 0.4- 0.1+ | 911011 801 | 0.7+ 0.3- |
| 740321 | 095 | 0.6+ | 0.4- | 841128 | 010 | 0.5- 1.2- | | |

(5151)* 2160 T-2 = 1962 WB2 = 1979 WA6 = 1985 VL3 = 1987 GH = 1990 QW8
Discovered 1973 Sept. 29 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.
Id. D. W. E. Green (k, MPC 14965; MPC 17464), S. Nakano (MPC 17464)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 61.31194 (2000.0) P Q
n 0.17163065 Peri. 4.65483 +0.61227459 -0.79054416
a 3.2068069 Node 47.59165 +0.72484907 +0.55486561
e 0.1880138 Incl. 0.98087 +0.31577470 +0.25916034
P 5.74 H 12.8 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 621130 | 760 | 0.8+ | 0.6+ | 851110 | 095 | 0.9+ 0.1- | 900911 809 | 0.2- 0.6+ |
| 621130 | 760 | 0.3- | 1.3+ | 851120 | 095 | 0.0 1.6+ | 900912 809 | 1.0- 0.1- |
| 730919 | 675 | 1.1- | 0.4+ | 870401 | 675 | (14.9- 1.0-) | 900912 809 | 0.9- 0.1- |
| 730919 | 675 | 0.1+ | 0.0 | 870401 | 675 | (12.5- 1.8-) | 900912 809 | 0.5- 0.1- |
| 730920 | 675 | 1.1- | 1.2- | 870403 | 675 | (12.9- 0.9-) | 900912 809 | (3.3- 1.6+) |
| 730924 | 675 | 1.8- | 0.5+ | 870403 | 675 | (12.1- 2.1-) | 900913 809 | (3.1- 1.7+) |
| 730924 | 675 | 1.4- | 0.7+ | 900816 | 809 | (2.2+ 0.3-) | 900913 809 | (2.8- 1.7+) |
| 730925 | 675 | 0.7+ | 1.4- | 900816 | 809 | 0.1+ 1.6- | 900913 809 | 0.6- 1.0+ |
| 730925 | 675 | 1.0+ | 1.9- | 900816 | 809 | (1.0- 2.4-) | 900914 809 | 0.4- 1.0+ |
| 730929 | 675 | 0.3- | 1.2- | 900818 | 809 | 1.8+ 0.3- | 900914 809 | 0.5- 1.0+ |
| 730929 | 675 | 0.1+ | 0.6- | 900818 | 809 | 0.4+ 0.7- | 900916 675 | 0.7- 1.1- |
| 730930 | 675 | 0.6+ | 0.2- | 900818 | 809 | 0.2+ 1.1- | 900916 675 | (1.3- 4.6-) |
| 730930 | 675 | 0.3+ | 0.7- | 900826 | 809 | 0.2+ 1.1+ | 911205 801 | 0.6- 0.2+ |
| 731004 | 675 | 1.0+ | 0.1+ | 900826 | 809 | 0.0 1.7+ | 911205 801 | 0.1+ 0.1- |
| 731004 | 675 | 0.9+ | 0.3+ | 900826 | 809 | 1.5+ 1.8+ | 920101 801 | 0.2- 0.1+ |
| 731005 | 675 | 0.7+ | 1.4- | 900910 | 809 | 0.2- 0.3+ | 920101 801 | 0.6- 0.2+ |
| 731005 | 675 | (2.4- | 3.1+) | 900910 | 809 | 0.2+ 0.4+ | 920107 801 | 0.4- 0.0 |
| 731005 | 675 | 0.9+ | 0.8- | 900910 | 809 | 0.6+ 0.6+ | 920107 801 | 0.2+ 0.4- |
| 731005 | 675 | (0.9- | 2.8+) | 900911 | 809 | 0.7- 0.9+ | | |
| 791117 | 095 | 0.7+ | 0.0 | 900911 | 809 | 0.4- 0.9+ | | |

A920 TA = 1978 WW18 = 1981 JZ5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 246.43372 (2000.0) P Q
n 0.25526799 Peri. 82.09815 +0.87647079 +0.47694828
a 2.4611522 Node 249.39486 -0.46475749 +0.80251553
e 0.2604069 Incl. 4.02622 -0.12569579 +0.35845385
P 3.86 H 13.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 201008 | 029 | 1.2+ | 2.1+ | 201017 | 029 | (3.7- 1.7-) | 781201 675 | 0.1- 0.2+ |
| 201010 | 029 | 0.5- | 2.6- | 201020 | 029 | 1.1- 0.9- | 810508 675 | 0.6- 0.5+ |
| 201017 | 029 | 0.2+ | 1.6+ | 781130 | 675 | 0.0 0.5+ | 810509 675 | 0.8+ 0.5+ |

1931 FC = 1982 DJ5 = 1983 RE8 = 2177 T-2
Id. S. Nakano (MPC 15062), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M 328.24709 | (2000.0) | P | Q | |
| n 0.28974449 | Peri. 223.82602 | -0.79809417 | +0.60243190 | |
| a 2.2618263 | Node 353.19166 | -0.52403649 | -0.70303333 | |
| e 0.1260397 | Incl. 5.33506 | -0.29737425 | -0.37791526 | |
| P 3.40 | H 13.5 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 310316 | 024 | 2.2- | 2.4+ | 730925 | 675 | 0.9- | 2.4- | 731005 | 675 | 1.5+ | 1.2- |
| 310318 | 024 | 2.6+ | 0.5+ | 730925 | 675 | 1.2- | 0.8- | 731005 | 675 | 1.9+ | 0.2+ |
| 310326 | 024 | 2.2+ | 1.5+ | 730929 | 675 | 0.3- | 2.6+ | 820222 | 010 | 0.5- | 0.6- |
| 730919 | 675 | 1.0- | 0.2+ | 730929 | 675 | 0.3+ | 2.7+ | 830911 | 095 | 1.3- | 2.4+ |
| 730919 | 675 | 1.8- | 0.8+ | 730930 | 675 | 0.1+ | 0.2+ | 900920 | 675 | 0.3+ | 0.2+ |
| 730920 | 675 | 1.6- | 0.2+ | 730930 | 675 | 0.0 | 1.0- | 900920 | 675 | 0.1- | 1.3+ |
| 730924 | 675 | (3.4- | 0.8+) | 731004 | 675 | 1.0+ | 0.3- | | | | |
| 730924 | 675 | (3.7- | 1.6+) | 731004 | 675 | 0.9+ | 0.6- | | | | |

1936 QE1 = 1986 RU1
Id. H. Kaneda (MPC 16574)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M 125.92009 | (2000.0) | P | Q | |
| n 0.23677513 | Peri. 202.92914 | +0.98239584 | -0.17848808 | |
| a 2.5876885 | Node 166.98516 | +0.18531103 | +0.96842036 | |
| e 0.1662201 | Incl. 14.17271 | -0.02362718 | +0.17408049 | |
| P 4.16 | H 12.3 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 360828 | 024 | (0.4- | 6.7-) | 860912 | 095 | 2.4+ | 1.9- | 900817 | 801 | 0.1+ | 0.7+ |
| 360911 | 024 | 0.4+ | 3.2- | 900718 | 801 | 0.4- | 0.1- | 900819 | 801 | 0.2+ | 0.7+ |
| 360917 | 024 | (4.1+ | 6.5+) | 900718 | 801 | 0.4- | 0.0 | 900819 | 801 | 0.2+ | 0.5+ |
| 860905 | 046 | 1.0- | 0.7+ | 900720 | 801 | 0.0 | 0.1+ | 920101 | 801 | 0.2- | 0.2+ |
| 860906 | 046 | 0.9- | 1.4+ | 900720 | 801 | 0.3+ | 0.4- | 920106 | 801 | 0.2+ | 0.5+ |
| 860907 | 095 | 1.2- | 1.5+ | 900817 | 801 | 0.1+ | 0.7+ | 920106 | 801 | 0.0 | 0.4+ |

1969 TQ1 = 1980 TN15 = 1986 WD2
Id. H. Oishi (JAM 2056; unpublished)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M 21.40183 | (2000.0) | P | Q | |
| n 0.17677925 | Peri. 328.72381 | +0.79244087 | -0.60800479 | |
| a 3.1442364 | Node 68.79998 | +0.56984254 | +0.70952584 | |
| e 0.1690670 | Incl. 2.99165 | +0.21752460 | +0.35623483 | |
| P 5.58 | H 12.9 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 691008 | 095 | 0.6+ | 1.3- | 861130 | 046 | 0.0 | 1.6+ | 910914 | 675 | 0.4- | 0.3+ |
| 691013 | 095 | 1.4+ | 0.7- | 861201 | 046 | 0.8- | 2.2- | 910915 | 675 | 0.4- | 1.7+ |
| 691016 | 095 | 0.5+ | 3.0- | 861201 | 046 | 0.1+ | 0.8- | 910915 | 675 | 0.0 | 1.6+ |
| 691104 | 095 | (7.4- | 0.4-) | 861203 | 046 | 1.0+ | 2.1+ | 910916 | 675 | 0.1- | 0.4- |
| 801005 | 046 | 0.8- | 1.7+ | 861203 | 046 | 1.1- | 0.1- | 910916 | 675 | 0.2- | 0.1- |
| 801005 | 046 | 0.3- | 0.7- | 910911 | 675 | 0.6- | 0.2- | | | | |
| 861130 | 046 | 0.4+ | 1.8+ | 910914 | 675 | 0.8+ | 0.2- | | | | |

1972 RU1 = 1979 UE4 = 3159 T-1
Id. S. Nakano, T. Kobayashi
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M 275.09359 | (2000.0) | P | Q | |
| n 0.28363153 | Peri. 119.29625 | +0.85210563 | +0.52187290 | |
| a 2.2942093 | Node 209.29840 | -0.50384759 | +0.79752510 | |
| e 0.1759898 | Incl. 4.63640 | -0.14161073 | +0.30265886 | |
| P 3.47 | H 14.4 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 710324 675 | 0.9+ | 1.0+ | 710327 675 | 0.9- | 0.1+ | 721013 095 | 2.0+ | 2.3- |
| 710325 675 | 1.5+ | 0.8- | 710402 675 | 2.3- | 0.4- | 791016 095 | 0.6- | 2.0+ |
| 710326 675 | 0.2+ | 1.0- | 720911 095 | 1.2- | 0.0 | | | |
| 710326 675 | 0.1- | 1.3- | 721005 095 | 0.4+ | 1.6- | | | |

1974 OE = 1978 TR6 = 1978 TN9
Id. E. Bowell (k, MPC 10612), B. G. Marsden (d, ibid.)

| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | Williams |
|---|---|---|---|
| M 35.54345 | (2000.0) | P | Q |
| n 0.28041145 | Peri. 277.90367 | +0.40396178 | +0.91412950 |
| a 2.3117395 | Node 16.05558 | -0.78267168 | +0.36483711 |
| e 0.1175588 | Incl. 7.14127 | -0.47353977 | +0.17680819 |
| P 3.51 | H 13.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 740716 808 | 0.0 | 0.1- | 740720 808 | 0.7+ | 0.5+ | 910319 808 | 1.2+ | 1.6- |
| 740716 808 | 0.1- | 0.4- | 740818 809 | (5.1+ | 5.9-) | 910319 808 | (3.6+ | 0.5+) |
| 740717 808 | 0.1- | 0.2+ | 781002 095 | 0.0 | 0.1+ | 910321 808 | 1.3- | 1.4+ |
| 740717 808 | 0.7- | 0.6- | 781004 675 | 0.3+ | 0.0 | 910321 808 | (4.6- | 1.9+) |
| 740720 808 | 0.1+ | 0.4+ | 781005 675 | 0.2- | 0.4- | | | |

1975 SK = 1981 WZ8 = 1986 RG13 = 1991 NB5

| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | Williams |
|---|---|---|---|
| M 344.28041 | (2000.0) | P | Q |
| n 0.17579838 | Peri. 324.52085 | +0.82529093 | -0.56332039 |
| a 3.1559211 | Node 69.81200 | +0.52735408 | +0.74375148 |
| e 0.1959613 | Incl. 2.41572 | +0.20197168 | +0.35986648 |
| P 5.61 | H 12.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 750930 675 | 0.4+ | 1.3- | 860909 095 | 0.3- | 0.7+ | 910711 809 | 0.3- | 0.5+ |
| 751001 675 | 0.4+ | 0.4- | 910710 809 | 0.4- | 0.2- | 910711 809 | 0.0 | 0.7+ |
| 751002 675 | 0.0 | 0.2- | 910710 809 | 0.1+ | 0.1+ | 910711 809 | 0.0 | 0.3+ |
| 811125 095 | 0.4- | 2.0+ | 910710 809 | 0.3+ | 0.2+ | | | |

1976 GO3 = 1981 NX = 1984 CF1
Id. H. Oishi (MPC 12122)

| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | Williams |
|---|---|---|---|
| M 284.48320 | (2000.0) | P | Q |
| n 0.23036868 | Peri. 90.93370 | -0.91308514 | +0.40627229 |
| a 2.6354438 | Node 113.03786 | -0.38758482 | -0.83810507 |
| e 0.0941645 | Incl. 2.17376 | -0.12670257 | -0.36403670 |
| P 4.28 | H 13.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 760401 095 | 1.4- | 1.3+ | 840204 688 | 1.7+ | 1.6+ | 900826 809 | 1.3- | 1.6- |
| 760402 095 | (2.0- | 4.3-) | 900816 809 | (3.5+ | 1.3+) | 900826 809 | 1.0- | 1.7- |
| 760404 095 | 0.6- | 1.7- | 900816 809 | 1.7+ | 2.1+ | 900826 809 | 1.3- | 2.0- |
| 760423 095 | 1.2- | 1.7- | 900816 809 | 1.3+ | 0.9+ | 900827 675 | (0.2- | 4.0-) |
| 781130 675 | 0.1- | 0.7- | 900820 809 | 1.4+ | 2.0+ | 900827 675 | 0.9- | 2.3- |
| 781201 675 | 0.0 | 0.8- | 900820 809 | 1.1+ | 1.6+ | 900913 675 | 2.1- | 1.3- |
| 810702 805 | 2.1+ | 0.9+ | 900820 809 | 1.7+ | 0.6+ | 900913 675 | 0.9- | 0.9- |
| 810702 805 | 1.1+ | 1.7+ | 900823 675 | 1.3- | 0.5- | | | |
| 840204 688 | 0.3+ | 1.1- | 900823 675 | (0.6- | 2.7-) | | | |

1977 EX = 1991 NO7
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 191.02189 (2000.0) P Q
n 0.22797678 Peri. 229.59914 -0.98177460 -0.08148944
a 2.6538455 Node 305.04799 +0.15804224 -0.85181852
e 0.1049366 Incl. 12.10595 -0.10555223 -0.51745984
P 4.32 H 12.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 770313 | 095 | 0.1- | 0.1+ | 910715 | 809 | 0.6+ | 0.2- | 910716 | 809 | 0.8- 0.2+ |
| 770322 | 095 | 0.9- | 0.4- | 910715 | 809 | 0.4+ | 0.3- | 910716 | 809 | 0.6- 0.3+ |
| 770325 | 095 | 1.1+ | 0.3+ | 910715 | 809 | 0.8+ | 0.4- | 910716 | 809 | 0.3- 0.3+ |

1977 RW6 = 1975 EP5 = 1982 SM4
Id. S. Nakano (MPC 9754)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 20.60251 (2000.0) P Q
n 0.20090007 Peri. 327.76537 +0.98989983 +0.14096495
a 2.8872385 Node 24.14454 -0.12099531 +0.89547123
e 0.0853207 Incl. 2.11186 -0.07388138 +0.42220867
P 4.91 H 12.6 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 750315 | 095 | 3.5- | 2.5- | 870925 | 095 | (4.8+ | 0.9-) | 910710 | 809 | 0.6+ 0.7- |
| 770911 | 095 | 1.0- | 0.8+ | 871022 | 095 | 1.9- | 2.3- | 910711 | 809 | 2.2- 0.4- |
| 770918 | 095 | 0.2+ | 1.1- | 871027 | 095 | 0.4- | 0.4+ | 910711 | 809 | 1.7- 0.5- |
| 770921 | 095 | 1.5+ | 0.6- | 900401 | 675 | 2.0+ | 0.1+ | 910711 | 809 | 1.5- 0.3- |
| 790127 | 675 | 0.2- | 0.1- | 900401 | 675 | 0.6+ | 1.0+ | 910711 | 809 | 1.4+ 0.0 |
| 790129 | 675 | 0.2- | 1.1- | 900525 | 675 | 1.1+ | 0.3- | 910711 | 809 | 1.7+ 0.1+ |
| 820920 | 095 | 2.8+ | 1.2+ | 910710 | 809 | 0.3+ | 0.4- | | | |
| 820926 | 095 | 0.2+ | 0.8+ | 910710 | 809 | 0.5+ | 0.3- | | | |

1978 VP1 = 1989 UD4
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 169.36666 (2000.0) P Q
n 0.17973809 Peri. 173.81504 +0.52595771 -0.84587117
a 3.1096342 Node 244.42048 +0.77605264 +0.51997545
e 0.1345374 Incl. 5.64449 +0.34800975 +0.11885915
P 5.48 H 13.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 781030 | 010 | 0.7+ | 0.2- | 781201 | 675 | 0.1+ | 0.0 | 891026 | 033 | 0.3- 0.3- |
| 781101 | 010 | 0.8- | 0.1- | 891023 | 033 | 0.4+ | 0.1+ | | | |
| 781130 | 675 | 0.0 | 0.1+ | 891023 | 033 | 0.0 | 0.5+ | | | |

1978 VN3 = 3068 T-1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 356.54801 (2000.0) P Q
n 0.21890362 Peri. 214.40791 +0.18530614 -0.98153064
a 2.7266794 Node 224.96583 +0.91603584 +0.19004592
e 0.0903673 Incl. 3.85661 +0.35572457 +0.02191238
P 4.50 H 15.9 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 710325 | 675 | 0.7+ | 1.4+ | 781105 | 675 | 0.0 | 0.4+ | 781129 | 675 | (5.2- 1.2-) |
| 710326 | 675 | 0.9- | 0.4- | 781106 | 675 | 1.8- | 0.2+ | 781129 | 675 | 2.2+ 0.6+ |
| 710326 | 675 | 0.1+ | 0.4- | 781107 | 675 | 1.3+ | 0.7- | 781130 | 675 | 2.6- 0.7- |
| 710327 | 675 | 0.1+ | 0.6- | 781108 | 675 | 0.9+ | 0.2+ | 781130 | 675 | (3.7+ 1.5+) |

1980 TT3 = 1991 TA5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 62.71818 (2000.0) P Q
n 0.27194411 Peri. 37.23286 +0.78045368 -0.62520549
a 2.3594799 Node 1.47598 +0.53972670 +0.67115946
e 0.1193065 Incl. 7.10544 +0.31557431 +0.39832534
P 3.62 H 14.3 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 801007 | 675 | 1.2- | 0.4+ | 801015 | 095 | (5.1+ | 2.2-) | 911009 | 033 | 0.3+ | 0.0 |
| 801008 | 675 | 1.0- | 0.6- | 911005 | 033 | 0.5- | 0.3- | 911009 | 033 | 0.4- | 0.0 |
| 801009 | 675 | 1.0+ | 0.2- | 911006 | 033 | 0.0 | 0.6+ | 911010 | 033 | 0.8+ | 0.5- |
| 801010 | 675 | 1.2+ | 0.3+ | 911006 | 033 | 0.2- | 0.3+ | | | | |

1981 DF = 1992 BT
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 30.73712 (2000.0) P Q
n 0.17514262 Peri. 153.47499 -0.58158017 -0.80660262
a 3.1637937 Node 331.71266 +0.70115875 -0.43119256
e 0.1034719 Incl. 12.87874 +0.41248141 -0.40430829
P 5.63 H 12.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 810228 | 809 | 0.1+ | 0.2+ | 810304 | 809 | 0.4+ | 0.2- | 810308 | 809 | 0.6+ | 0.1+ |
| 810228 | 809 | 0.6+ | 0.1+ | 810304 | 809 | 0.6+ | 0.3- | 810308 | 809 | 0.6+ | 0.1- |
| 810228 | 809 | 1.3+ | 0.1+ | 810304 | 809 | 0.5+ | 0.0 | 810308 | 809 | 0.2+ | 0.3+ |
| 810301 | 809 | 0.3- | 0.3+ | 810305 | 809 | 0.6- | 0.4- | 810309 | 809 | 0.0 | 0.2- |
| 810301 | 809 | 0.1- | 0.4+ | 810305 | 809 | 0.9- | 0.5- | 810309 | 809 | 0.2- | 0.1+ |
| 810301 | 809 | 0.1+ | 0.3+ | 810305 | 809 | 1.2- | 0.6- | 810309 | 809 | 0.5- | 0.3+ |
| 810302 | 809 | 0.6- | 0.0 | 810306 | 809 | 0.5+ | 0.0 | 920128 | 399 | (5.5- | 0.0 ) |
| 810302 | 809 | 0.7- | 0.1- | 810306 | 809 | 0.9+ | 0.0 | 920128 | 399 | (4.8- | 0.2-) |
| 810302 | 809 | 0.6- | 0.1- | 810306 | 809 | 1.2+ | 0.2- | 920129 | 399 | 1.0+ | 0.5- |
| 810303 | 809 | 0.8- | 0.0 | 810307 | 809 | 0.1- | 0.3+ | 920129 | 399 | 0.6- | 0.1+ |
| 810303 | 809 | 0.6- | 0.1- | 810307 | 809 | 0.1- | 0.2+ | 920205 | 399 | 0.0 | 0.4- |
| 810303 | 809 | 0.3- | 0.1- | 810307 | 809 | 0.2- | 0.3+ | 920205 | 399 | 0.4- | 0.7+ |

1981 EH1 = 1992 CA1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Urata
M 23.97719 (2000.0) P Q
n 0.17839616 Peri. 356.21599 -0.85614599 -0.51376401
a 3.1252088 Node 152.64612 +0.47719884 -0.82716947
e 0.1718759 Incl. 6.91526 +0.19823044 -0.22767787
P 5.52 H 12.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 810306 | 809 | 0.7+ | 0.5- | 810309 | 809 | 0.1+ | 0.1- | 920201 | 364 | 1.4+ | 0.6- |
| 810306 | 809 | 0.0 | 0.1- | 810309 | 809 | 0.3+ | 0.1- | 920201 | 364 | 1.3+ | 0.2+ |
| 810306 | 809 | 0.4+ | 0.2- | 810309 | 809 | 0.4+ | 0.0 | 920208 | 364 | 0.8- | 0.1+ |
| 810307 | 809 | 0.4- | 0.6- | 810310 | 809 | 0.3- | 0.2+ | 920208 | 364 | 0.7- | 0.3+ |
| 810307 | 809 | 0.2- | 0.9- | 810310 | 809 | 0.2- | 0.3+ | 920208 | 364 | 2.0- | 0.5+ |
| 810307 | 809 | 0.1+ | 0.8- | 810310 | 809 | 0.1- | 0.3+ | 920208 | 364 | 2.3- | 0.6- |
| 810308 | 809 | 0.1- | 0.8+ | 810314 | 809 | 0.3- | 0.2- | 920222 | 364 | 1.1+ | 0.1+ |
| 810308 | 809 | 0.1+ | 0.8+ | 810314 | 809 | 0.5- | 0.1- | 920222 | 364 | 2.0+ | 0.3+ |
| 810308 | 809 | 0.4+ | 0.9+ | 810314 | 809 | 0.5- | 0.1+ | | | | |

1981 ES5 = 1991 NP3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 14.96340 (2000.0) P Q
n 0.22868855 Peri. 76.95317 +0.94487658 -0.29029987
a 2.6483361 Node 299.74293 +0.18920277 +0.86156556
e 0.1880926 Incl. 10.04481 +0.26722753 +0.41645020
P 4.31 H 14.0 G 0.15

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 810202 | 413 | 0.0 | 1.1- | 810409 | 413 | 1.5- | 0.1+ | 910706 | 809 | 0.1- | 0.2+ |
| 810307 | 413 | 0.5- | 1.4+ | 810409 | 413 | 0.4+ | 0.3- | 910707 | 809 | 0.1+ | 0.4- |
| 810307 | 413 | 1.0+ | 0.2- | 810429 | 413 | 0.7+ | 1.4- | 910707 | 809 | 0.1- | 0.5- |
| 810310 | 413 | 1.2- | 1.4+ | 910706 | 809 | 0.0 | 0.3+ | | | | |
| 810312 | 413 | 1.2+ | 0.1- | 910706 | 809 | 0.0 | 0.5+ | | | | |

1981 EK7 = 1989 UG7
Id. S. Nakano (MPC 15879)

| | | | | | |
|---|---|---|---|---|---|
| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | | Bowell | |
| M | 263.05811 | (2000.0) | P | Q | |
| n | 0.17599646 | Peri. | 73.78129 | +0.43183866 | +0.90054164 |
| a | 3.1535527 | Node | 221.91920 | -0.85366451 | +0.39004335 |
| e | 0.1463358 | Incl. | 4.32647 | -0.29115678 | +0.19207015 |
| P | 5.60 | H | 13.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 781130 | 675 | 0.3+ | 0.3- | 810315 | 413 | 0.6+ | 1.3- | 810430 | 413 | (4.6+ | 3.1-) |
| 781201 | 675 | 0.3- | 0.3- | 810405 | 413 | 1.2- | 0.8- | 810502 | 413 | 0.0 | 1.1- |
| 810209 | 413 | 0.2- | 1.3+ | 810405 | 413 | 0.1- | 1.3- | 891023 | 033 | 1.2+ | 1.1- |
| 810301 | 413 | 1.5+ | 0.1+ | 810406 | 413 | (2.0- | 1.2+) | 891023 | 033 | 0.1- | 0.6+ |
| 810307 | 413 | 1.6+ | 0.7+ | 810406 | 413 | 0.3+ | 0.5- | 891025 | 033 | 0.1+ | 0.6+ |
| 810307 | 413 | 1.2+ | 0.0 | 810407 | 413 | 1.2- | 1.0+ | 891025 | 033 | 0.1+ | 0.7+ |
| 810311 | 413 | 1.6- | 1.0+ | 810407 | 413 | 0.6+ | 0.4+ | 891027 | 033 | 1.4- | 0.6- |
| 810311 | 413 | 0.1- | 0.2- | 810412 | 413 | 0.2- | 1.1+ | | | | |
| 810315 | 413 | 1.1- | 0.4- | 810412 | 413 | (3.3+ | 1.8-) | | | | |

1981 EZ18

| | | | | | |
|---|---|---|---|---|---|
| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | | Williams | |
| M | 43.48967 | (2000.0) | P | Q | |
| n | 0.22348460 | Peri. | 50.48320 | +0.90391249 | +0.42683117 |
| a | 2.6892900 | Node | 284.23442 | -0.40062059 | +0.82235598 |
| e | 0.0474533 | Incl. | 1.62696 | -0.14981773 | +0.37622572 |
| P | 4.41 | H | 13.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 770424 | 675 | 0.8+ | 1.5+ | 810311 | 413 | 0.5+ | 0.1+ | 810502 | 413 | 0.8- | 1.6- |
| 770425 | 675 | 0.2+ | 1.2+ | 810311 | 413 | 1.2+ | 0.5- | 910710 | 809 | 0.2+ | 0.2- |
| 810209 | 413 | 0.2+ | 0.4- | 810316 | 413 | 1.2- | 0.8+ | 910710 | 809 | 0.6+ | 0.2- |
| 810213 | 413 | 0.7- | 0.4- | 810316 | 413 | (4.3+ | 1.2-) | 910710 | 809 | 0.9+ | 0.1+ |
| 810302 | 413 | 0.1+ | 0.5+ | 810329 | 413 | 0.7+ | 0.6- | 910711 | 809 | 0.7- | 0.4- |
| 810302 | 413 | 0.2+ | 1.1- | 810329 | 413 | (3.3- | 1.1-) | 910711 | 809 | 0.7- | 0.6- |
| 810303 | 413 | (2.3- | 0.9+) | 810408 | 413 | 1.1- | 0.5+ | 910711 | 809 | 0.7- | 0.7- |
| 810303 | 413 | 1.0+ | 1.1- | 810408 | 413 | 1.2- | 0.4+ | 910712 | 809 | 0.1- | 0.2+ |
| 810307 | 413 | 0.1- | 1.0+ | 810411 | 413 | 1.2- | 0.0 | 910712 | 809 | 0.2+ | 0.2+ |
| 810307 | 413 | 1.7+ | 0.3- | 810430 | 413 | 1.0- | 0.4- | 910712 | 809 | 0.5+ | 0.0 |

1981 EW20 = 1989 VU5
Id. E. Bowell (MPC 18621)

| | | | | | |
|---|---|---|---|---|---|
| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | | Bowell | |
| M | 232.96198 | (2000.0) | P | Q | |
| n | 0.17420583 | Peri. | 299.97321 | +0.71367795 | +0.70046093 |
| a | 3.1751257 | Node | 15.56416 | -0.63705849 | +0.65159204 |
| e | 0.1322365 | Incl. | 0.91275 | -0.29123918 | +0.29117400 |
| P | 5.66 | H | 13.1 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 781130 | 675 | 0.5- | 1.1+ | 810303 | 413 | 1.6+ | 0.9- | 810316 | 413 | 1.2- | 0.0 |
| 781201 | 675 | 0.1- | 1.2+ | 810303 | 413 | 0.8+ | 0.1+ | 810316 | 413 | (2.7- | 0.1+) |
| 810202 | 413 | 1.3+ | 1.6- | 810307 | 413 | 1.2- | 1.5+ | 810329 | 413 | 0.9- | 1.1+ |
| 810213 | 413 | 0.0 | 1.4- | 810307 | 413 | 1.1+ | 0.6- | 810329 | 413 | (1.9- | 1.8+) |
| 810302 | 413 | 1.2- | 0.8+ | 810311 | 413 | 1.0+ | 0.4- | 810408 | 413 | 0.8- | 0.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 810408 | 413 | 0.2+ 0.1- | 810426 | 413 | (1.2+ 3.4-) | 891103 | 675 | 1.0+ 0.9- |
| 810411 | 413 | 0.8- 0.3- | 810502 | 413 | 0.6- 0.3+ | 891104 | 675 | 0.4+ 0.5- |
| 810411 | 413 | 0.4+ 0.0 | 891103 | 675 | 0.9- 1.1- | 891104 | 675 | 0.6+ 0.4- |

1981 EZ25 = 1955 SD2 = 1955 TH = 1992 DO

| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | Nakano |
|---|---|---|---|
| M 133.60813 | (2000.0) | P | Q |
| n 0.17149528 | Peri. 31.61824 | +0.89284664 | -0.44921840 |
| a 3.2084943 | Node 354.75848 | +0.30397060 | +0.65362046 |
| e 0.1902779 | Incl. 20.54351 | +0.33230521 | +0.60908384 |
| P 5.75 | H 12.4 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 550922 | 024 | 2.2+ 2.3- | 810306 | 413 | 1.3+ 0.2- | 810409 | 413 | 1.5+ 0.7+ |
| 551011 | 760(95.1+ | 55.1+)X | 810311 | 413 | 0.9- 0.0 | 810501 | 413 | 0.8+ 0.7- |
| 810212 | 413 | 1.1- 0.1- | 810311 | 413 | 0.1+ 0.1- | 810503 | 413 | 0.2- 1.5- |
| 810212 | 413 | 0.8- 0.4- | 810315 | 413 | 1.3- 0.2+ | 920225 | 372 | 0.4+ 0.7+ |
| 810213 | 413 | 0.0 1.2- | 810406 | 413 | 1.3- 1.7+ | 920226 | 372 | (5.5+ 3.0-) |
| 810302 | 413 | 1.0- 0.2- | 810408 | 413 | 0.6+ 1.0- | 920227 | 372 | 0.3+ 0.0 |
| 810302 | 413 | 0.6+ 0.7- | 810408 | 413 | 0.4- 0.9- | | | |
| 810306 | 413 | 0.8- 0.1- | 810409 | 413 | 0.5- 1.0+ | | | |

1981 ES27 = 3279 T-1

Id. S. Nakano, T. Kobayashi

| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | Nakano |
|---|---|---|---|
| M 114.51698 | (2000.0) | P | Q |
| n 0.29467349 | Peri. 200.88794 | -0.89616050 | +0.44356553 |
| a 2.2365331 | Node 5.48942 | -0.38710043 | -0.76819108 |
| e 0.1533828 | Incl. 7.25574 | -0.21690922 | -0.46166231 |
| P 3.34 | H 17.0 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 710325 | 675 | (5.0+ 3.1-) | 810212 | 413 | 0.7- 1.2+ | 810315 | 413 | 1.1+ 0.3- |
| 710326 | 675 | 1.2+ 2.1- | 810213 | 413 | 0.6- 1.2+ | 810410 | 413 | 0.8+ 2.1+ |
| 710326 | 675 | 2.5+ 1.8- | 810302 | 413 | 1.2+ 0.9- | 810501 | 413 | 0.6+ 0.1+ |
| 710327 | 675 | 2.5- 0.6+ | 810311 | 413 | 0.8+ 0.7- | 810503 | 413 | 0.5- 0.6+ |
| 710402 | 675 | 2.3- 1.3+ | 810311 | 413 | 0.7+ 0.2+ | | | |
| 810209 | 413 | 0.5- 0.1- | 810315 | 413 | 1.9- 0.8- | | | |

1981 WA1 = 1988 EO2 = 1990 OG3

Id. A. Lowe (k, MPC 17013), G. V. Williams (ibid.)

| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | Williams |
|---|---|---|---|
| M 85.36245 | (2000.0) | P | Q |
| n 0.19912549 | Peri. 249.06256 | +0.95614514 | -0.29010445 |
| a 2.9043669 | Node 127.77963 | +0.28409797 | +0.88511819 |
| e 0.0709266 | Incl. 2.92432 | +0.07123780 | +0.36387524 |
| P 4.95 | H 12.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 811124 | 688 | 0.3+ 1.8- | 900727 | 675 | 1.1- 0.5- | 900918 | 675 | 1.7+ 0.6+ |
| 811124 | 688 | 0.0 0.1- | 900730 | 675 | 0.8- 0.4+ | 900918 | 675 | 1.2+ 1.8- |
| 811202 | 688 | (4.1+ 2.1-) | 900730 | 675 | 0.1- 0.7- | 911205 | 801 | 0.3- 0.8+ |
| 811202 | 688 | 0.2+ 0.1+ | 900914 | 675 | 0.8+ 0.6- | 911205 | 801 | 0.2+ 0.3- |
| 880310 | 552 | 0.3+ 1.7- | 900914 | 675 | 1.2- 0.8+ | 920102 | 801 | 0.1- 0.7+ |
| 880310 | 552 | 1.0- 0.6- | 900915 | 675 | 0.1- 0.2- | 920102 | 801 | 0.2- 0.5+ |
| 900727 | 675 | 0.6- 0.3- | 900915 | 675 | 1.0+ 0.4+ | | | |

1982 UR6 = 1981 JM3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 240.92688 (2000.0) P Q
n 0.26466368 Peri. 313.81277 +0.99918433 -0.01097585
a 2.4025540 Node 46.85719 +0.02665823 +0.90213593
e 0.2212837 Incl. 3.05303 -0.03033173 +0.43131229
P 3.72 H 13.9 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 810508 | 675 | 0.3+ | 0.5- | 821020 | 095 | 0.4- 0.3+ | 821109 | 095 0.6+ 0.0 |
| 810509 | 675 | 0.0 | 1.3+ | 821025 | 095 | 0.1+ 0.0 | 821114 | 095 0.6- 0.4+ |

1985 CT = 1978 EC6 = 1992 BM1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 105.83289 (2000.0) P Q
n 0.28001079 Peri. 258.58711 +0.65164199 -0.72890677
a 2.3139441 Node 147.50512 +0.75305544 +0.65485537
e 0.2355731 Incl. 22.99871 -0.09094073 +0.19964808
P 3.52 H 13.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 780306 | 095 | 2.6- | 0.7+ | 850225 | 688 | 2.2+ 0.8- | 850324 | 688 0.3+ 0.3+ |
| 850212 | 675 | 1.2+ | 0.1+ | 850318 | 688 | 0.5+ 0.3- | 920129 | 675 1.2- 0.1+ |
| 850216 | 675 | 0.5- | 1.2- | 850318 | 688 | 1.0+ 1.3- | 920130 | 675 0.7- 0.2+ |
| 850225 | 688 | 1.4+ | 1.7+ | 850324 | 688 | 1.3- 0.6+ | 920130 | 675 0.3- 0.0 |

1985 CJ1 = 1987 SF22 = 1989 FK
Id. T. Kobayashi (MPC 14616; unpublished), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 13.98330 (2000.0) P Q
n 0.26248743 Peri. 54.17953 -0.39766582 -0.91566170
a 2.4158152 Node 59.35377 +0.81835260 -0.38280533
e 0.1251273 Incl. 3.90083 +0.41492279 -0.12257131
P 3.75 H 10.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 850215 | 046 | 0.0 | 0.0 | 890404 | 372 | 0.7+ 1.2- | 911110 | 400 1.2+ 0.6+ |
| 850215 | 046 | (2.9- | 0.3+) | 890404 | 372 | 0.1+ 1.1- | 911111 | 399 0.3+ 0.2- |
| 850216 | 046 | 0.8- | 0.5+ | 890411 | 372 | 1.3- 1.2+ | 911111 | 399 0.4+ 0.6- |
| 850216 | 046 | 1.2- | 0.0 | 890411 | 372 | (0.3+ 2.7+) | 911126 | 046 1.3- 2.3- |
| 850220 | 046 | 1.8+ | 0.6- | 890412 | 372 | (0.4+ 3.3-) | 911126 | 046 0.9- 1.9+ |
| 850220 | 046 | (2.9+ | 1.3-) | 890412 | 372 | 0.8- 1.6- | 911127 | 046 1.5- 0.0 |
| 870918 | 095 | 0.8+ | 1.8- | 911109 | 400 | 1.6+ 1.0- | 911127 | 046 0.2+ 0.2+ |
| 890329 | 372 | 0.6+ | 1.1+ | 911109 | 400 | 0.9- 1.2+ | | |
| 890329 | 372 | (1.4- | 3.0+) | 911110 | 400 | 0.8+ 0.1+ | | |

1985 CM1 = 1992 DH
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 1.13582 (2000.0) P Q
n 0.28311169 Peri. 69.55288 -0.92091695 +0.38478314
a 2.2970168 Node 133.02016 -0.38171485 -0.85820426
e 0.0958686 Incl. 4.87092 -0.07877649 -0.33974605
P 3.48 H 13.7 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 850213 | 809 | 0.6- | 0.6+ | 850217 | 809 | 1.1- 0.3+ | 850220 | 809 1.4- 0.4- |
| 850213 | 809 | 0.5- | 0.4+ | 850218 | 809 | 1.0+ 0.1+ | 850220 | 809 0.8- 0.6+ |
| 850213 | 809 | 0.6- | 0.3+ | 850218 | 809 | 1.4+ 0.1- | 850221 | 809 0.5+ 0.9- |
| 850215 | 809 | 1.4+ | 0.6- | 850218 | 809 | 1.7+ 0.0 | 850221 | 809 0.7+ 0.8- |
| 850215 | 809 | 1.0+ | 0.3- | 850219 | 809 | 0.3- 1.0+ | 850221 | 809 0.9+ 0.8- |
| 850215 | 809 | 0.4+ | 0.2- | 850219 | 809 | 0.2+ 0.8+ | 850224 | 809 0.2+ 0.8- |
| 850217 | 809 | 1.7- | 0.8+ | 850219 | 809 | 0.7+ 0.6+ | 850224 | 809 0.9- 0.5- |
| 850217 | 809 | 1.4- | 0.5+ | 850220 | 809 | 1.4- 0.6- | 850224 | 809 1.6- 0.4- |

850227 809 0.4- 0.0 850228 809 1.2+ 0.2- 920226 399 0.6- 0.5+
850227 809 0.7- 0.1- 850228 809 1.5+ 0.2- 920226 399 0.6+ 0.3-
850227 809 1.0- 0.1- 920225 399 0.3- 0.6+
850228 809 1.2+ 0.3- 920225 399 0.6+ 0.3+

1986 RX2 = 1964 TD1 = 1975 TR1 = 1991 NK5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 16.52366 (2000.0) P Q
n 0.17796143 Peri. 15.87965 +0.99997025 -0.00097603
a 3.1302963 Node 344.17035 -0.00234721 +0.90641575
e 0.2006692 Incl. 1.60736 +0.00734765 +0.42238552
P 5.54 H 13.0 G 0.15
Residuals in seconds of arc
641008 330 0.1- 0.8+ 860929 046 (4.8- 4.1+) 910710 809 0.3- 0.1+
751003 095 0.1+ 1.1- 860930 046 (4.5+ 1.7+) 910710 809 0.0 0.2+
860906 688 1.8- 0.4- 860930 046 (4.0+ 2.2+) 910710 809 0.3+ 0.3+
860906 688 1.3- 0.1- 861001 046 (5.7- 1.5+) 910711 809 0.4- 0.4-
860912 688 (5.9+ 0.5+) 861001 046 3.0+ 1.9+ 910711 809 0.0 0.2-
860912 688 0.2+ 0.7- 861006 095 (5.0+ 2.1-) 910711 809 0.5+ 0.1+
860929 046 (0.3+ 3.6+) 861010 095 0.2- 0.4-

1986 TR4 = 1943 VH = 1992 AW1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 108.45937 (2000.0) P Q
n 0.22776177 Peri. 108.40632 +0.93165812 -0.35642515
a 2.6555154 Node 272.52277 +0.30099499 +0.86584834
e 0.1867123 Incl. 4.04827 +0.20350717 +0.35109511
P 4.33 H 12.5 G 0.15
Residuals in seconds of arc
431103 062 1.1+ 0.4- 860911 095 0.2- 0.5- 920112 894 0.1- 0.7+
431104 062 1.1- 0.1+ 861005 095 0.0 0.6- 920115 894 0.2+ 0.1-
860907 095 0.4+ 0.4+ 861011 054 0.3- 1.0+ 920115 894 0.0 0.4-

1986 WM5 = 1991 NO3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 60.89965 (2000.0) P Q
n 0.18152562 Peri. 0.61780 +0.41562678 +0.88926834
a 3.0891862 Node 293.95470 -0.83537582 +0.29020582
e 0.1826164 Incl. 12.05971 -0.35972436 +0.35352849
P 5.43 H 11.5 G 0.15
Residuals in seconds of arc
860909 095 0.5- 1.0+ 910706 809 0.8+ 1.2+ 910712 809 0.2- 0.5-
860929 095 0.3- 0.4+ 910706 809 1.1+ 1.3+ 910712 809 0.2+ 0.6-
861003 095 0.6+ 0.9- 910707 809 0.1- 1.4- 910714 809 0.6- 0.0
861127 010 0.2+ 0.5- 910707 809 0.0 1.0- 910714 809 0.6- 0.1-
910706 809 0.7+ 1.0+ 910712 809 0.7- 0.3- 910714 809 0.5- 0.1+

1986 XR5 = 1991 RU21
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 43.05258 (2000.0) P Q
n 0.18351189 Peri. 338.31277 +0.98291915 -0.17990692
a 3.0668550 Node 32.12818 +0.17774946 +0.87342030
e 0.3001591 Incl. 4.18111 +0.04769771 +0.45251572
P 5.37 H 13.3 G 0.15
Residuals in seconds of arc
861130 381 0.1+ 0.2+ 861201 381 0.1+ 0.7- 910915 675 0.3+ 0.0
861130 381 0.0 0.2- 861205 801 0.7- 0.7+ 910917 675 0.2+ 0.3-
861201 381 0.5+ 0.1- 910915 675 0.6- 0.2+ 910917 675 0.0 0.1+

1987 DK6 = 1991 PJ16 = 1991 RJ17
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 161.52615 (2000.0) P Q
n 0.30938859 Peri. 293.43987 -0.17827296 +0.98368678
a 2.1650429 Node 326.26309 -0.88623515 -0.17114218
e 0.1819778 Incl. 2.48331 -0.42755819 -0.05541361
P 3.19 H 14.3 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 870223 809 | 0.2+ | 0.5- | 870228 809 | 0.8- | 0.3+ | 870305 809 | 0.3+ | 0.4- |
| 870223 809 | 0.4+ | 0.4- | 870228 809 | 1.0- | 0.4+ | 870305 809 | 0.7+ | 0.6- |
| 870223 809 | 1.0+ | 0.4- | 870228 809 | 1.0- | 0.1+ | 870305 809 | 0.3+ | 0.8- |
| 870224 809 | 0.6- | 0.5- | 870301 809 | 0.1- | 0.2- | 870306 809 | 0.3+ | 0.7- |
| 870224 809 | 0.1- | 0.5- | 870301 809 | 0.3+ | 0.1+ | 870306 809 | 0.5+ | 0.6- |
| 870224 809 | 0.2- | 0.6- | 870301 809 | 0.6+ | 0.2+ | 870306 809 | 0.2+ | 0.6- |
| 870225 809 | 0.9- | 0.3+ | 870302 809 | 0.4+ | 0.3+ | 910807 675 | 1.6+ | 1.4- |
| 870225 809 | 0.8- | 0.1+ | 870302 809 | 0.9+ | 0.3+ | 910808 675 | 0.4+ | 2.4- |
| 870225 809 | 0.8- | 0.2+ | 870302 809 | 0.8+ | 0.1+ | 910911 675 | 1.9+ | 1.6+ |
| 870226 809 | 1.3- | 0.0 | 870303 809 | 0.1+ | 0.1+ | 910911 675 | 0.3- | 1.4+ |
| 870226 809 | 1.3- | 0.0 | 870303 809 | 0.3+ | 0.3+ | 910913 675 | 0.5- | 1.2- |
| 870226 809 | 1.1- | 0.3+ | 870303 809 | 0.5+ | 0.4+ | 910913 675 | 1.1- | 0.4- |
| 870227 809 | 0.2- | 0.1- | 870304 809 | 0.3+ | 0.2- | 910916 675 | 0.9- | 0.8- |
| 870227 809 | 0.1+ | 0.5+ | 870304 809 | 0.4+ | 0.2- | 910916 675 | 0.4+ | 0.3+ |
| 870227 809 | 0.5- | 0.5+ | 870304 809 | 0.5+ | 0.1- | | | |

1987 QZ1 = 1989 CG5 = 1991 TE8
Id. T. Kobayashi (MPC 15067; unpublished)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi
M 45.38601 (2000.0) P Q
n 0.26026274 Peri. 78.67929 +0.78558191 -0.61563417
a 2.4295623 Node 319.27647 +0.52408254 +0.71537036
e 0.1522976 Incl. 5.46146 +0.32893550 +0.33051449
P 3.79 H 13.8 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 870821 809 | 0.5+ | 1.4+ | 870828 809 | 0.7- | 0.3- | 870903 809 | 0.7+ | 2.2- |
| 870821 809 | 0.5- | 1.5+ | 870829 809 | 2.2+ | 1.1+ | 890202 033 | 0.5- | 0.4+ |
| 870821 809 | 0.3+ | 1.8+ | 870829 809 | 1.4+ | 1.5+ | 890204 033 | 0.3+ | 0.2- |
| 870825 809 | 2.8- | 1.9- | 870829 809 | 1.1+ | 1.5+ | 890210 033 | 0.3+ | 0.1+ |
| 870825 809 | 0.3- | 0.6- | 870831 809 | 2.1+ | 0.8+ | 890210 033 | 0.1+ | 0.3+ |
| 870825 809 | 1.5- | 1.2+ | 870831 809 | 0.2+ | 0.1- | 910913 675 | 0.0 | 0.2- |
| 870826 809 | 0.0 | 1.1- | 870831 809 | 0.3- | 0.1+ | 910913 675 | 0.4- | 0.5- |
| 870826 809 | 0.3+ | 1.0- | 870831 809 | 1.3- | 0.2- | 910915 675 | 0.2- | 0.4+ |
| 870826 809 | 0.5- | 0.4- | 870831 809 | 1.2- | 0.5+ | 910915 675 | 0.4- | 0.1- |
| 870828 809 | 0.5- | 0.7- | 870831 809 | 1.0- | 0.7- | 911008 400 | 0.3+ | 0.2+ |
| 870828 809 | 0.8+ | 0.5- | 870903 809 | 0.7+ | 1.8- | 911008 400 | 0.6+ | 0.3+ |

1987 SR1 = 1987 WD3 = 1978 JZ = 1991 PT17
Id. S. Nakano (d, MPC 15384), E. Bowell (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 101.38588 (2000.0) P Q
n 0.23899811 Peri. 111.67139 +0.45101657 +0.89234480
a 2.5716177 Node 185.23810 -0.87316123 +0.43710020
e 0.1834609 Incl. 11.02481 -0.18486080 +0.11253518
P 4.12 H 13.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 780505 095 | 0.0 | 0.2- | 870929 688 | (0.6- | 4.3-) | 910807 675 | 0.3+ | 0.6+ |
| 870902 095 | 0.7- | 0.9- | 870929 688 | 0.8- | 1.5+ | 910807 675 | 0.4- | 0.2- |
| 870921 688 | 0.3- | 1.9- | 871117 010 | 0.2+ | 0.6- | | | |
| 870921 688 | 1.9+ | 1.1+ | 871117 010 | 0.4- | 0.2+ | | | |

1987 UQ3 = 1979 HO4 = 1984 YG6
Id. S. Nakano (MPC 15416); 1987 UQ3 = 1959 VG (ibid.) is invalid (cf. MPC 19724, where these observations are deleted)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M 153.23840 | (2000.0) | P | Q | |
| n 0.27865445 | Peri. 257.38279 | +0.93084008 | +0.34889155 | |
| a 2.3214468 | Node 82.11780 | -0.27796997 | +0.86908234 | |
| e 0.1234284 | Incl. 6.29900 | -0.23721182 | +0.35067161 | |
| P 3.54 | H 13.5 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 790424 095 | 0.0 | 0.1+ | | 871026 054 | 0.9+ | 1.0+ | | 920102 801 | 0.0 | 0.4+ |
| 841223 010 | (14.7- | 16.8-) | | 871026 054 | 0.9- | 0.3+ | | 920107 801 | 0.0 | 0.1+ |
| 841223 010 | (14.2- | 15.2-) | | 911205 801 | 0.1+ | 0.1- | | 920107 801 | 0.2+ | 0.1+ |
| 870927 095 | 1.0+ | 1.1- | | 911205 801 | 0.4- | 1.3- | | | | |
| 871023 095 | 1.0- | 0.1+ | | 920102 801 | 0.0 | 0.4+ | | | | |

1987 WO1 = 1991 UX1

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M 58.13886 | (2000.0) | P | Q | |
| n 0.23868387 | Peri. 162.73077 | +0.79280809 | -0.60213746 | |
| a 2.5738743 | Node 234.66776 | +0.54464838 | +0.76937176 | |
| e 0.0359684 | Incl. 6.63517 | +0.27352053 | +0.21330162 | |
| P 4.13 | H 12.8 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 871122 688 | 0.7+ | 1.2+ | | 871126 046 | 1.3- | 0.3+ | | 911031 399 | 0.1- | 1.4- |
| 871122 688 | 1.4- | 0.7- | | 871126 046 | 0.4- | 0.4- | | 911031 399 | 0.1+ | 0.8- |
| 871123 046 | 0.7+ | 0.4- | | 871127 046 | 0.7+ | 0.4+ | | 911109 399 | 0.2+ | 0.1+ |
| 871123 046 | (6.1+ | 2.3+) | | 911029 399 | 0.5+ | 0.9+ | | 911109 399 | 0.0 | 0.6+ |
| 871126 046 | 1.0+ | 0.3- | | 911029 399 | 0.7- | 0.6+ | | | | |

1988 FM = 1951 EL2 = 1992 DE

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M 356.24896 | (2000.0) | P | Q | |
| n 0.24005680 | Peri. 181.76922 | -0.95621985 | +0.28589820 | |
| a 2.5640513 | Node 15.29276 | -0.26550656 | -0.75770094 | |
| e 0.1130852 | Incl. 13.70674 | -0.12308476 | -0.58664427 | |
| P 4.11 | H 13.1 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 510313 711 | 1.3+ | 1.7+ Y | | 880409 875 | 0.1- | 2.1+ | | 920225 376 | 0.8+ | 3.1- |
| 880318 875 | 0.9+ | 0.3- | | 880409 875 | 0.1- | 0.5+ | | 920225 376 | 1.6- | 0.1+ |
| 880318 875 | 0.7+ | 0.8- | | 880409 875 | 0.9- | 2.0- | | 920227 376 | 0.0 | 0.3+ |
| 880323 875 | 0.7- | 1.7+ | | 880413 875 | 0.8+ | 1.3- | | 920227 376 | 0.4+ | 1.5+ |
| 880323 875 | 2.3- | 1.2+ | | 880413 875 | 1.2+ | 2.0- | | | | |

1988 RW3 = 1981 JA4

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

| | | | | |
|---|---|---|---|---|
| M 273.32431 | (2000.0) | P | Q | |
| n 0.17409007 | Peri. 292.97401 | +0.70892371 | +0.70519651 | |
| a 3.1765331 | Node 22.18579 | -0.63575717 | +0.64582137 | |
| e 0.1429636 | Incl. 1.69703 | -0.30535225 | +0.29259637 | |
| P 5.66 | H 13.7 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 810508 675 | 0.2- | 0.3+ | | 880910 033 | 0.5- | 0.3- | | 881005 807 | 0.9+ | 0.1- |
| 810509 675 | 0.2+ | 0.3- | | 880910 033 | 1.2- | 0.6- | | 881008 807 | 1.4+ | 0.3- |
| 880908 033 | 0.1+ | 0.9+ | | 880911 033 | 1.0- | 0.3- | | 881104 807 | 0.2- | 0.7+ |
| 880909 033 | 0.1- | 0.8+ | | 880915 675 | 0.4+ | 0.1- | | 881106 807 | 0.4- | 0.1- |
| 880909 033 | 0.7+ | 0.1+ | | 880915 675 | 0.2- | 0.7- | | | | |

1988 ST2 = 1981 JH5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 276.65332 (2000.0) P Q
n 0.17337655 Peri. 228.31245 +0.63056182 +0.77517529
a 3.1852424 Node 80.82091 -0.69995293 +0.58948462
e 0.1300295 Incl. 2.24471 -0.33534712 +0.22718089
P 5.68 H 12.8 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 810508 | 675 | 0.8- | 0.2+ | 880918 | 807 | 0.2+ | 0.1- | 881008 | 807 | 0.6+ | 1.0- |
| 810509 | 675 | 0.8+ | 0.1- | 881004 | 807 | 1.0- | 0.1+ | 881105 | 807 | 0.2+ | 0.4+ |
| 880916 | 807 | 0.2+ | 0.1+ | 881005 | 807 | 0.4+ | 0.1+ | 881107 | 807 | 0.7- | 0.5+ |

1989 EL2 = 1990 RY1
Id. H. E. Holt (MPC 17636)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 299.69554 (2000.0) P Q
n 0.30428695 Peri. 223.64973 -0.37396976 +0.92687296
a 2.1891751 Node 24.44395 -0.82792727 -0.31786998
e 0.1032038 Incl. 4.49799 -0.41795103 -0.19966269
P 3.24 H 13.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 890312 | 399 | 1.4+ | 0.3+ | 890404 | 399 | 0.6+ | 0.6- | 900922 | 809 | (5.2+ | 0.4-) |
| 890312 | 399 | 0.9+ | 0.4+ | 890406 | 399 | 0.5- | 0.8- | 900922 | 809 | (4.8+ | 0.5-) |
| 890312 | 399 | (2.5- | 0.6+) | 890406 | 399 | 0.9- | 1.5- | 920128 | 399 | 1.0- | 0.8- |
| 890312 | 399 | 1.9- | 1.5+ | 890406 | 399 | 0.6- | 1.0- | 920128 | 399 | 0.8- | 0.1- |
| 890312 | 399 | 0.6- | 0.5- | 900915 | 809 | 0.2+ | 1.2- | 920129 | 399 | 1.2+ | 0.5- |
| 890326 | 399 | 0.5- | 0.5+ | 900915 | 809 | 0.4- | 1.3- | 920129 | 399 | 0.5+ | 0.1+ |
| 890326 | 399 | 0.4+ | 0.4+ | 900915 | 809 | 0.5+ | 0.6- | 920205 | 399 | 0.2+ | 0.6- |
| 890326 | 399 | 1.5- | 0.5- | 900915 | 675 | 0.3+ | 0.6+ | 920205 | 399 | 0.8- | 0.2+ |
| 890326 | 399 | 1.2+ | 0.1+ | 900917 | 675 | 0.1- | 0.2- | 920208 | 399 | 0.6+ | 0.2- |
| 890404 | 399 | 1.1+ | 0.3- | 900917 | 675 | 0.5+ | 0.9+ | 920208 | 399 | 0.2- | 1.7+ |
| 890404 | 399 | (1.7+ | 2.2-) | 900922 | 809 | (5.0+ | 0.6-) | | | | |

1989 FA = 1990 OJ3
Id. S. Nakano (MPC 17020)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 18.47011 (2000.0) P Q
n 0.28876770 Peri. 350.93320 -0.75388612 -0.65611213
a 2.2669240 Node 147.97972 +0.60676640 -0.71528187
e 0.0871109 Incl. 3.70290 +0.25197274 -0.24060074
P 3.41 H 13.6 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 890328 | 402 | 1.1+ | 1.2- | 900730 | 675 | 0.1- | 0.2- | 911214 | 898 | 0.9+ | 0.7- |
| 890328 | 402 | 0.9+ | 0.4- | 900730 | 675 | 0.1- | 0.3- | 911214 | 898 | 0.8- | 1.6- |
| 890329 | 402 | 1.2- | 1.4- | 900914 | 675 | 1.3+ | 0.2- | 911230 | 898 | 0.1- | 0.0 |
| 890329 | 402 | 2.0- | 0.2- | 900914 | 675 | 0.1- | 0.0 | 911230 | 898 | 0.2+ | 0.1+ |
| 900727 | 675 | 0.0 | 1.6- | 900915 | 675 | 0.1- | 2.3- | 920101 | 898 | 0.8+ | 0.1+ |
| 900727 | 675 | 0.5+ | 1.0- | 900915 | 675 | 0.0 | 0.2+ | 920101 | 898 | 1.1- | 1.1- |

1989 GF1 = 1992 AK
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 40.06003 (2000.0) P Q
n 0.28660742 Peri. 150.33831 -0.62692481 -0.77871129
a 2.2783010 Node 338.45682 +0.70133387 -0.55070450
e 0.1052128 Incl. 3.74096 +0.33925814 -0.30055494
P 3.44 H 14.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 890403 | 809 | 0.4- | 0.5- | 890403 | 809 | 0.5- | 0.3- | 890405 | 809 | 0.9+ | 0.4+ |
| 890403 | 809 | 0.5- | 0.6- | 890405 | 809 | 1.3+ | 0.5+ | 890405 | 809 | 0.6+ | 0.7+ |

890408 809 0.2+ 0.3+ 890410 809 0.1- 0.6- 920104 877 0.7- 0.8+
890408 809 0.3- 0.7+ 890410 809 1.0- 0.8- 920104 877 (4.0- 1.8+)
890408 809 0.0 0.3+ 920103 877 1.4+ 0.8+
890410 809 0.1+ 0.2- 920103 877 0.7- 1.6-

1990 BF2 = 1991 NX2
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 272.03333 (2000.0) P Q
n 0.29846195 Peri. 40.93669 -0.49282315 -0.86722297
a 2.2175669 Node 78.70092 +0.77825179 -0.47583880
e 0.0393596 Incl. 4.15562 +0.38916514 -0.14663482
P 3.30 H 13.5 G 0.15
Residuals in seconds of arc
900121 402 0.4+ 0.1+ 900202 399 (3.2+ 0.5-) 900302 399 0.3+ 0.9+
900121 402 0.1- 0.5- 900202 399 (5.6+ 2.6+) 900302 399 1.4+ 1.0-
900127 675 0.4- 1.0- 900218 399 (3.7- 0.5-) 910704 809 0.9+ 0.2+
900127 675 0.1+ 1.5- 900218 399 0.8- 2.0+ 910704 809 0.9+ 0.0
900130 675 0.1- 1.6- 900218 399 0.8- 2.6+ 910704 809 1.2+ 0.1-
900130 675 0.6- 0.4- 900223 675 0.8+ 0.1+ 910705 809 0.9- 0.2-
900130 399 0.3- 0.3- 900223 675 0.5- 0.8- 910705 809 0.7- 0.1-
900130 399 1.8- 0.7- 900228 399 1.0+ 0.9- 910705 809 0.4- 0.2+
900130 399 0.3+ 0.9- 900228 399 1.0+ 2.3+ 910716 675 1.1- 2.1-
900202 399 (0.6+ 3.2+) 900302 399 0.3- 0.1+ 910716 675 0.2+ 0.1+

1990 DM2 = 1978 RK3 = 1987 QT2 = 1988 VH4
Epoch 1992 June 27.0 TT = JDT 2448800.5 Ichikawa
M 96.41658 (2000.0) P Q
n 0.21393666 Peri. 308.66083 -0.48001905 +0.87618984
a 2.7687213 Node 292.60075 -0.78960650 -0.45302744
e 0.0378847 Incl. 2.68696 -0.38223460 -0.16449164
P 4.61 H 12.3 G 0.15
Residuals in seconds of arc
780903 095 0.7- 1.7+ 870826 809 0.7+ 0.9- 900225 809 0.8- 1.8+
870822 809 0.3+ 0.0 870826 809 0.7+ 1.3- 900225 809 0.5- 1.8+
870822 809 0.8- 0.3- 881103 054 0.0 0.4- 900225 809 0.1- 1.8+
870822 809 0.6+ 0.4- 881103 054 1.2+ 0.4- 900301 809 0.3- 0.7-
870825 809 0.6- 0.1+ 881104 054 0.8- 0.5- 900301 809 0.1- 0.9-
870825 809 0.0 0.1+ 900224 809 0.6+ 1.6- 900301 809 0.0 0.8-
870825 809 0.8+ 0.4- 900224 809 0.9+ 1.4- 900317 095 1.1- 1.9-
870826 809 0.1+ 2.1- 900224 809 1.3+ 1.4- 900317 095 1.7- 0.4-

1990 QW1 = 1992 CG
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 100.32596 (2000.0) P Q
n 0.25211174 Peri. 80.77455 +0.42138765 -0.90647204
a 2.4816508 Node 344.21804 +0.78780127 +0.38075935
e 0.1065882 Incl. 5.74375 +0.44922333 +0.18256714
P 3.91 H 13.7 G 0.15
Residuals in seconds of arc
900816 809 1.5- 0.9- 900828 675 1.9+ 0.1+ 900919 675 0.2- 1.1-
900816 809 2.2- 0.2- 900828 675 2.1+ 0.9+ 920208 372 0.7+ 0.3-
900816 809 2.3- 0.4- 900914 675 0.9- 0.5- 920208 372 0.2+ 0.3-
900822 675 1.9+ 1.1+ 900914 675 0.3- 0.3+ 920209 372 1.3- 1.2+
900822 675 2.0+ 0.8+ 900919 675 0.7- 0.1+ 920209 372 0.6+ 0.3-

1990 QO3 = 1990 SL26
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 65.83773 (2000.0) P Q
n 0.17813991 Peri. 48.71594 +0.72360025 -0.69001877
a 3.1282052 Node 354.83473 +0.56508144 +0.60607872
e 0.0741279 Incl. 10.64878 +0.39634031 +0.39565474
P 5.53 H 12.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 900816 | 801 | 0.1+ | 0.9+ | 900826 | 809 | 0.6- | 1.3- | 900921 | 095 | 2.2+ | 0.0 |
| 900816 | 801 | 0.4- | 0.4+ | 900827 | 675 | 0.1+ | 2.3- | 901015 | 801 | 0.1- | 0.0 |
| 900817 | 801 | 0.7+ | 0.9+ | 900827 | 675 | 0.7- | 0.5- | 901015 | 801 | 0.3+ | 0.3+ |
| 900817 | 801 | 0.2+ | 0.0 | 900828 | 095 | (3.1- | 2.5-) | 901016 | 801 | 0.1+ | 0.2+ |
| 900818 | 801 | 0.3- | 0.6+ | 900828 | 095 | 1.8+ | 1.1- | 901016 | 801 | 0.2+ | 0.2+ |
| 900818 | 801 | 0.2- | 0.7+ | 900913 | 809 | 1.4- | 0.3- | 901018 | 801 | 0.3+ | 0.1+ |
| 900819 | 801 | 0.5+ | 0.6+ | 900913 | 809 | 1.0- | 0.3- | 901018 | 801 | 0.3+ | 0.2+ |
| 900819 | 801 | 0.4- | 0.5+ | 900913 | 809 | 0.6- | 0.3- | 901021 | 801 | 0.2- | 0.4+ |
| 900820 | 809 | 1.6+ | 0.5+ | 900914 | 809 | 1.3- | 0.5+ | 901021 | 801 | 0.0 | 0.4+ |
| 900820 | 809 | 0.2+ | 0.7+ | 900914 | 809 | 1.2- | 0.4+ | 901114 | 801 | 0.1- | 0.0 |
| 900820 | 809 | 0.4- | 0.2+ | 900914 | 809 | 0.8- | 0.1+ | 901115 | 801 | 0.1+ | 0.1- |
| 900820 | 801 | 0.5+ | 0.8+ | 900914 | 675 | 0.4+ | 0.6- | 901116 | 801 | 0.7- | 0.1+ |
| 900820 | 801 | 0.3+ | 0.9+ | 900914 | 675 | 0.1+ | 0.5- | 901116 | 801 | 0.4+ | 0.4+ |
| 900823 | 675 | 0.7- | 0.2+ | 900916 | 801 | 0.2+ | 0.2+ | 911008 | 801 | 0.3- | 0.3- |
| 900823 | 675 | 0.3- | 0.3+ | 900916 | 801 | 0.4+ | 0.2+ | 911008 | 801 | 0.5- | 0.1+ |
| 900825 | 675 | 1.3+ | 0.6- | 900919 | 801 | 0.2+ | 0.4+ | 911103 | 801 | 0.4+ | 0.2+ |
| 900825 | 675 | 0.1+ | 0.1+ | 900919 | 801 | 0.1+ | 0.3+ | 911103 | 801 | 0.1+ | 0.1- |
| 900826 | 809 | 1.2- | 1.2- | 900919 | 675 | 0.1+ | 1.2- | 911107 | 801 | 0.1+ | 0.2- |
| 900826 | 809 | 0.8- | 1.7- | 900919 | 675 | 0.7+ | 0.1- | 911107 | 801 | 0.1+ | 0.2+ |

1990 SK6 = 1978 GT1 = 1985 DM1 = 1992 BS
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 332.60312 (2000.0) P Q
n 0.27271213 Peri. 174.44537 -0.90892267 +0.41148608
a 2.3550479 Node 30.13727 -0.38753848 -0.77405651
e 0.0615340 Incl. 7.71147 -0.15386196 -0.48116080
P 3.61 H 13.9 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 780407 | 095 | 0.6- | 1.3+ | 900922 | 809 | 0.1+ | 0.7- | 920128 | 399 | 1.2- | 1.5- |
| 850225 | 688 | 0.3- | 0.2+ | 900922 | 809 | 0.7+ | 0.5- | 920128 | 399 | 0.9- | 2.0+ |
| 850225 | 688 | 2.1+ | 2.2- | 900922 | 809 | 0.2- | 0.2- | 920129 | 399 | 1.5+ | 0.1+ |
| 900915 | 809 | 0.2- | 0.8- | 900925 | 809 | 0.7+ | 1.6+ | 920129 | 399 | 0.7- | 0.5+ |
| 900915 | 809 | 0.9- | 1.1- | 900925 | 809 | 0.3+ | 1.4+ | | | | |
| 900915 | 809 | 0.4- | 0.6- | 900925 | 809 | 0.0 | 1.4+ | | | | |

1990 SZ7 = 1992 DW
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 56.52029 (2000.0) P Q
n 0.29361141 Peri. 99.17605 -0.76069216 -0.64483799
a 2.2419234 Node 40.72125 +0.54176196 -0.69381927
e 0.1059893 Incl. 6.54614 +0.35754919 -0.32062250
P 3.36 H 13.8 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 900914 | 809 | 0.1- | 0.2- | 900922 | 809 | 0.2+ | 0.5- | 920226 | 399 | 0.9- | 0.9+ |
| 900914 | 809 | 1.0+ | 0.6+ | 900925 | 809 | 0.1+ | 0.3+ | 920229 | 399 | 0.8+ | 1.4- |
| 900914 | 809 | 0.7- | 0.0 | 900925 | 809 | 0.0 | 0.5+ | 920229 | 399 | 0.5+ | 0.1- |
| 900922 | 809 | 0.1- | 0.6- | 900925 | 809 | 0.2- | 0.2+ | | | | |
| 900922 | 809 | 0.2- | 0.4- | 920226 | 399 | 0.5- | 0.6+ | | | | |

1990 SD14 = 1978 WH18
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 132.55791 (2000.0) P Q
n 0.24120817 Peri. 161.69512 +0.81695913 -0.57641779
a 2.5558854 Node 233.51713 +0.52628811 +0.75788055
e 0.2521843 Incl. 1.27546 +0.23579357 +0.30554802
P 4.09 H 15.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 781130 | 675 | 0.3+ | 0.9- | 900924 | 809 | 0.3- | 0.3+ | 900925 | 809 | 1.0+ | 0.1+ |
| 781201 | 675 | 0.3- | 0.8+ | 900924 | 809 | 0.0 | 0.4+ | 900927 | 809 | 0.8- | 0.7+ |
| 900923 | 809 | 0.3- | 0.8- | 900924 | 809 | 0.2+ | 0.2+ | 900927 | 809 | 0.4- | 0.7+ |
| 900923 | 809 | 0.0 | 1.0- | 900925 | 809 | 0.3- | 0.2- | 900927 | 809 | 0.1+ | 0.6+ |
| 900923 | 809 | 0.5+ | 1.0- | 900925 | 809 | 0.2+ | 0.2+ | | | | |

1990 TK1 = 1975 VU4 = 1979 ON4 = 1985 UB4 = 1985 VT3
Id. H. Kaneda (MPC 17452), L. V. Zhuravleva (d, ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 106.34264 (2000.0) P Q
n 0.19656547 Peri. 281.68309 +0.62815027 -0.77702524
a 2.9295297 Node 129.32570 +0.73282699 +0.57320280
e 0.0721825 Incl. 3.01826 +0.26151835 +0.26013521
P 5.01 H 12.1 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 751102 | 095 | (4.1+ | 2.9-) | 901111 | 809 | 0.7- | 0.9- | 901117 | 809 | 0.1- | 0.4- |
| 790724 | 675 | 1.5- | 1.2+ | 901111 | 809 | 0.8- | 0.7- | 901117 | 809 | 0.2+ | 0.5- |
| 790724 | 413 | 0.2- | 1.7- | 901111 | 809 | 0.7- | 0.6- | 901117 | 809 | 0.1- | 0.4- |
| 790725 | 675 | 0.7- | 0.7+ | 901111 | 400 | 1.2+ | 0.2- | 901120 | 809 | 0.4- | 1.2- |
| 790727 | 675 | 2.5+ | 0.8- | 901111 | 400 | 2.0+ | 0.4- | 901120 | 809 | 0.6- | 1.2- |
| 851021 | 095 | (6.3- | 0.4-) | 901112 | 809 | 0.4- | 0.9+ | 901120 | 809 | 0.7- | 0.9- |
| 851111 | 095 | 0.2+ | 0.6- | 901112 | 809 | 0.5+ | 1.4+ | 920102 | 801 | 0.4- | 0.6- |
| 901015 | 400 | 0.2- | 1.1+ | 901112 | 809 | 0.8+ | 1.2+ | 920102 | 801 | 0.4+ | 0.1- |
| 901015 | 400 | 0.3+ | 1.3+ | 901114 | 809 | 0.3- | 0.6+ | 920108 | 801 | 0.2- | 0.3+ |
| 901019 | 400 | (0.7+ | 5.0+) | 901114 | 809 | 0.3- | 0.5+ | 920108 | 801 | 0.1+ | 0.0 |
| 901019 | 400 | (3.6- | 3.1+) | 901114 | 809 | 0.2+ | 0.8+ | | | | |

1990 TV12 = 1989 SX13
Id. B. G. Marsden (MPC 18124)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 107.52022 (2000.0) P Q
n 0.08303387 Peri. 111.52184 +0.92322577 +0.12963042
a 5.2035436 Node 242.65914 -0.20973491 +0.95878091
e 0.0910774 Incl. 24.03051 +0.32197119 +0.25285394
P 11.87 H 10.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 781130 | 675 | 0.0 | 0.6+ | 891004 | 493 | 0.1+ | 0.4- | 901018 | 033 | 0.1- | 0.4+ |
| 781201 | 675 | 0.2+ | 0.8+ | 891005 | 493 | 0.7+ | 0.6+ | 901113 | 675 | 0.2+ | 0.8- |
| 890926 | 493 | (4.9- | 4.8-) | 901014 | 033 | 0.2+ | 0.2- | 901113 | 675 | 0.8- | 0.4- |
| 890927 | 493 | (5.4- | 5.7-) | 901015 | 033 | 0.1+ | 0.4+ | 901114 | 675 | 0.4- | 0.2- |
| 891003 | 493 | 0.5+ | 1.0- | 901015 | 033 | 0.2- | 0.4+ | 901114 | 675 | 0.3- | 0.8- |
| 891003 | 493 | 1.3- | 0.6+ | 901018 | 033 | 1.0+ | 0.1+ | | | | |

1990 VU14 = 1990 UM13 = 1990 WU11 = 1979 UJ1
Id. A. Lowe (d), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 67.06643 (2000.0) P Q
n 0.18413795 Peri. 19.56290 -0.18867259 -0.97289650
a 3.0598996 Node 81.48984 +0.88204072 -0.22773702
e 0.1064642 Incl. 7.76938 +0.43174856 +0.04010302
P 5.35 H 11.5 G 0.15

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 791021 | 805 | 1.0+ | 1.4+ | | 901029 | 095 | 0.5+ | 0.4- | | 901121 | 095 (2.6- 5.2-) |
| 791023 | 805 | 1.2- | 0.9- | | 901115 | 095 (8.4+ | 1.4+) | | | 901123 | 809 0.1- 0.4- |
| 791023 | 805 | 0.3+ | 0.5- | | 901115 | 095 | 0.2+ | 1.1+ | | 901123 | 809 0.2- 0.3- |
| 901028 | 095 | 0.9- | 0.0 | | 901121 | 095 (0.8- | 5.6-) | | | 901123 | 809 0.4+ 0.1+ |

1990 WE = 1983 EP3 = 1992 DM

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 81.46900 | (2000.0) | P | Q | |
| n | 0.21720198 | Peri. | 3.61353 | -0.08350219 | -0.98395786 |
| a | 2.7409022 | Node | 91.22170 | +0.91027907 | -0.13969092 |
| e | 0.1959371 | Incl. | 9.07275 | +0.40548663 | +0.11096566 |
| P | 4.54 | H | 12.6 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 830315 | 095 | 1.1+ | 2.2+ | | 901119 | 413 | 1.3+ | 1.3+ | | 920226 | 402 0.1+ 0.4- |
| 901012 | 808 | 0.5- | 0.3- | | 901121 | 372 | 0.7+ | 0.8- | | 920227 | 402 0.7+ 0.1- |
| 901012 | 808 | 0.8- | 0.1- | | 901121 | 413 | 0.4+ | 0.7+ | | 920227 | 402 0.4- 0.7- |
| 901014 | 808 | 2.3- | 0.3- | | 901123 | 372 | 1.2+ | 0.6- | | | |
| 901119 | 413 | 0.1+ | 1.4+ | | 920226 | 402 | 1.1- | 0.3- | | | |

1991 NT3

Epoch 1991 July 3.0 TT = JDT 2448440.5 Williams

| | | | | | |
|---|---|---|---|---|---|
| M | 36.11271 | (2000.0) | P | Q | |
| n | 0.40441963 | Peri. | 292.68952 | -0.73784328 | +0.63509727 |
| a | 1.8109838 | Node | 287.53766 | -0.49712420 | -0.74037602 |
| e | 0.3039627 | Incl. | 13.86880 | -0.45656853 | -0.22021538 |
| P | 2.44 | H | 14.5 | G 0.15 | |

From 37 observations 1991 July 6-24.

1991 PY5 = 1991 RN12 = 1980 PM3

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 102.18234 | (2000.0) | P | Q | |
| n | 0.18122187 | Peri. | 118.01898 | -0.16781683 | +0.96794552 |
| a | 3.0926372 | Node | 140.86493 | -0.97606898 | -0.13655233 |
| e | 0.2034479 | Incl. | 17.22185 | -0.13829988 | -0.21079596 |
| P | 5.44 | H | 13.4 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 800803 | 675 | 0.0 | 0.2+ | | 910806 | 809 | 0.3- | 1.3- | | 910904 | 809 0.1+ 2.0- |
| 800805 | 675 | 0.0 | 0.3- | | 910814 | 809 | 1.4+ | 0.1+ | | 910906 | 809 0.6- 0.9+ |
| 910805 | 675 | 0.3- | 1.6+ | | 910814 | 809 | 0.5+ | 0.0 | | 910906 | 809 1.1- 1.0+ |
| 910805 | 675 | 0.0 | 1.8+ | | 910814 | 809 | 0.3+ | 0.2- | | 910906 | 809 0.7- 1.0+ |
| 910806 | 809 | 0.9- | 1.1- | | 910904 | 809 | 0.9+ | 0.5- | | | |
| 910806 | 809 | 0.0 | 0.8- | | 910904 | 809 | 0.7+ | 0.4- | | | |

1991 PO8 = 1991 RC12 = 1982 RL1

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 46.93140 | (2000.0) | P | Q | |
| n | 0.21455081 | Peri. | 24.83070 | +0.99701906 | +0.04902254 |
| a | 2.7634352 | Node | 332.16069 | -0.07225072 | +0.86414280 |
| e | 0.2819991 | Incl. | 7.32990 | +0.02707087 | +0.50085329 |
| P | 4.59 | H | 14.8 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 820914 | 046 (7.2+ | 1.1-) | | 910805 | 675 | 0.6- | 0.9+ | | 910904 | 809 | 0.6+ 0.6+ |
| 820914 | 046 | 2.3+ | 0.5+ | 910806 | 675 | 0.2+ | 0.1- | | 910904 | 809 | 0.3+ 1.0+ |
| 820915 | 046 | 2.6- | 0.3- | 910806 | 675 | 0.8+ | 0.7+ | | 910904 | 809 | 0.6+ 0.5+ |
| 820915 | 046 | 1.2+ | 0.5- | 910807 | 675 | 0.6- | 1.7- | | 910906 | 809 | 0.2- 1.0- |
| 820916 | 046 | 1.3+ | 0.1+ | 910807 | 675 | 1.7- | 0.2- | | 910906 | 809 | 1.0- 0.3- |
| 820916 | 046 | 2.2- | 0.2+ | 910810 | 675 | 2.5+ | 0.9- | | 910906 | 809 | 0.7- 0.4- |
| 910805 | 675 | 1.8- | 0.3+ | 910810 | 675 | 1.4+ | 0.6+ | | | | |

1991 PF10 = 1969 TS2 = 1988 TD3
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 83.17899 (2000.0) P Q
n 0.31302016 Peri. 209.14345 +0.99431001 +0.10420104
a 2.1482649 Node 144.85400 -0.08876652 +0.92532339
e 0.0694114 Incl. 2.20319 -0.05889072 +0.36458027
P 3.15 H 14.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 691007 095 | 0.3+ | 0.7- | 881017 071 | 0.0 | 2.0+ | 910808 675 | 0.0 | 0.1+ |
| 881015 071 | 1.4- | 0.7- | 910807 675 | 1.4- | 0.5- | 910810 675 | 0.2+ | 0.3- |
| 881015 071 | 0.9+ | 0.9- | 910807 675 | 0.3- | 0.8- | 910911 675 | 0.6+ | 0.6+ |
| 881017 071 | 0.5+ | 0.4- | 910808 675 | 0.3+ | 0.2+ | 910911 675 | 0.3+ | 1.1+ |

1991 PT10 = 1987 SL20
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda
M 70.59459 (2000.0) P Q
n 0.24355198 Peri. 68.06720 +0.98516301 +0.16334302
a 2.5394613 Node 282.50098 -0.17052155 +0.89695710
e 0.2656221 Incl. 3.09187 -0.01939696 +0.41083697
P 4.05 H 14.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 870917 095 | 1.1- | 0.4- | 910808 675 | 1.1- | 0.5+ | 910917 675 | 0.5- | 0.5+ |
| 870926 095 | 1.5+ | 0.6- | 910915 675 | 0.2- | 0.2- | 910917 675 | 0.8- | 0.4+ |
| 910807 675 | 1.7+ | 1.2- | 910915 675 | 0.6+ | 0.8+ | | | |

1991 PO14 = 1991 RL12 = 1981 QW1 = 1986 QS2 = 1989 CM8 = 1989 EC1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 286.25058 (2000.0) P Q
n 0.19213266 Peri. 118.76716 -0.22993777 -0.97211698
a 2.9744174 Node 344.32267 +0.82295993 -0.16898467
e 0.0826081 Incl. 9.80409 +0.51948588 -0.16258151
P 5.13 H 12.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 810830 688 | 3.1- | 1.3- | 890301 875 | 0.4- | 1.4- | 910904 809 | 0.8+ | 1.5- |
| 810830 688 | 0.6- | 1.9- | 890301 875 | 0.5+ | 2.3- | 910904 809 | 0.0 | 1.1- |
| 860828 809 | 1.8+ | 2.3+ | 890308 875 | 0.2- | 1.1- | 910904 809 | 0.5- | 1.8- |
| 860828 809 | 2.5+ | 2.6+ | 890308 875 | 0.2+ | 0.1+ | 910906 809 | 0.2+ | 1.5- |
| 860828 809 | 2.7+ | 2.9+ | 910806 675 | 1.0- | 1.8+ | 910906 809 | 1.3- | 0.9- |
| 890209 809 | 0.8+ | 1.8+ | 910806 675 | 0.5- | 0.4+ | 910906 809 | 1.4- | 1.4- |
| 890209 809 | 0.4- | 3.5+ | 910810 675 | 0.4- | 1.7+ | | | |
| 890209 809 | (1.6- | 5.0+) | 910810 675 | (4.3- | 5.8+) | | | |

1991 RY4 = 1978 WP1 = 1978 WY16
Id. K. Ichikawa; 6372 P-L = 1978 WP1 (MPC 16242) is invalid
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 67.20361 (2000.0) P Q
n 0.22201219 Peri. 146.49750 +0.99909830 -0.03610970
a 2.7011674 Node 215.59237 +0.02533686 +0.92914014
e 0.1707319 Incl. 2.19888 +0.03406793 +0.36796017
P 4.44 H 15.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 781129 675 | 1.1- | 0.5+ | 910913 033 | 0.4+ | 0.1+ | 910916 675 | 0.4- | 0.3+ |
| 781130 675 | 0.8+ | 0.0 | 910913 033 | 0.7- | 0.4- | 910916 675 | 0.0 | 0.9- |
| 781130 675 | 0.1+ | 0.6+ | 910913 033 | 0.3- | 0.1+ | 910918 033 | 0.1- | 0.2+ |
| 781201 675 | 0.2+ | 1.1- | 910914 033 | 0.1- | 0.3+ | 911003 033 | 0.5- | 0.0 |
| 910910 675 | 0.5+ | 0.6+ | 910915 033 | 0.6+ | 0.3- | 911004 033 | 0.6+ | 0.1+ |
| 910910 675 | 0.2+ | 0.2+ | 910915 033 | 0.5- | 0.1- | 911004 033 | 0.3+ | 0.1- |

1991 RF14 = 1984 SS2 = 1990 GR
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 132.45191 (2000.0) P Q
n 0.28271904 Peri. 93.04857 +0.40236481 +0.91447264
a 2.2991431 Node 200.84004 -0.88055474 +0.37376271
e 0.1467353 Incl. 6.92965 -0.25045143 +0.15505236
P 3.49 H 14.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 840925 | 688 | 1.9+ | 2.7- | 900416 | 809 | 1.3- | 1.0- | 910915 675 1.3- 0.7- |
| 840925 | 688 | (7.4+ | 0.6-) | 900416 | 809 | 0.4+ | 1.0- | 910915 675 0.3- 0.2+ |
| 840928 | 688 | 0.4- | 2.4- | 900417 | 809 | 0.4- | 1.2- | 911007 033 1.2+ 0.3- |
| 840928 | 688 | (4.2+ | 2.1-) | 900417 | 809 | 1.2- | 0.8- | 911007 033 1.0+ 0.0 |
| 900415 | 809 | 0.1+ | 1.1- | 910913 | 675 | 0.0 | 0.1- | 911008 033 1.3+ 0.1- |
| 900416 | 809 | 0.5+ | 1.0- | 910913 | 675 | 1.7- | 0.9+ | |

1991 RQ21 = 1976 JM6 = 1980 DG5 = 1989 EA2 = 2081 T-1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 304.46790 (2000.0) P Q
n 0.21771822 Peri. 64.57227 -0.43607424 -0.89878401
a 2.7365677 Node 51.35608 +0.80356355 -0.41141934
e 0.1113510 Incl. 3.30422 +0.40512329 -0.15139829
P 4.53 H 13.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 710324 | 675 | 1.7- | 1.6- | 890305 | 046 | 0.5+ | 0.8- | 910911 675 0.3- 0.7- |
| 710325 | 675 | 0.5+ | 0.4- | 890305 | 046 | 1.2- | 0.3+ | 910915 675 0.5+ 0.2- |
| 710325 | 675 | 0.3- | 0.7- | 890306 | 046 | 0.4+ | 0.4- | 910915 675 0.4+ 0.3+ |
| 710326 | 675 | 0.4+ | 0.6+ | 890306 | 046 | 1.2- | 1.4- | 910917 675 0.6- 0.9- |
| 710327 | 675 | 0.0 | 0.4+ | 890307 | 046 | 0.5+ | 0.6- | 910917 675 1.3+ 1.0- |
| 760503 | 809 | 0.3+ | 0.4+ | 890307 | 046 | 0.6- | 0.0 | 910917 675 0.3+ 0.2- |
| 800221 | 095 | 1.5+ | 2.0+ | 910911 | 675 | 0.1+ | 0.4+ | 910917 675 0.5- 0.3- |

1991 VB
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 72.82053 (2000.0) P Q
n 0.29436955 Peri. 134.14773 +0.85341186 -0.50984015
a 2.2380724 Node 256.78671 +0.44079168 +0.81691786
e 0.4098354 Incl. 6.39320 +0.27819217 +0.26964464
P 3.35 H 17.0 G 0.15
From 16 observations 1991 Nov. 1-1992 Jan. 13, mean residual 0".95.

1991 YA
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bardwell
M 39.55624 (2000.0) P Q
n 0.21704966 Peri. 174.12976 -0.00331865 -0.71800953
a 2.7421843 Node 274.40099 +0.88673544 +0.31963899
e 0.4414965 Incl. 44.27346 +0.46226534 -0.61829866
P 4.54 H 14.5 G 0.15
From 13 observations 1991 Dec. 2-1992 Feb. 7, mean residual 0".96.

1991 YX = 1984 YT2 = 1987 QP9
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 99.68067 (2000.0) P Q
n 0.28719894 Peri. 265.73855 +0.75552217 -0.65120833
a 2.2751716 Node 134.87393 +0.63395939 +0.69922497
e 0.1594166 Incl. 5.79165 +0.16517185 +0.29497821
P 3.43 H 14.2 G 0.15

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 841223 | 095 | 0.3+ | 1.9- | | 911203 | 675 | 1.0- | 0.5- | | 920102 | 511 | 0.2- | 1.1+ |
| 841227 | 095 | (17.0- | 5.0+) | | 911203 | 675 | 1.8+ | 2.1- | | 920102 | 511 | 1.1- | 1.4+ |
| 870821 | 809 | 0.3- | 0.7+ | | 911231 | 511 | 1.5+ | 0.2+ | | 920111 | 889 | 0.3- | 0.9+ |
| 870821 | 809 | 0.1- | 0.8+ | | 911231 | 511 | 0.7- | 0.1+ | | 920111 | 889 | 0.2+ | 1.3+ |

1992 AA

| | | | | | |
|---|---|---|---|---|---|
| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | | | Marsden |
| M 61.36138 | | (2000.0) | | P | Q |
| n 0.35335905 | Peri. | 354.39670 | | -0.12670351 | -0.98192629 |
| a 1.9814901 | Node | 102.82498 | | +0.91559635 | -0.17029962 |
| e 0.3898655 | Incl. | 8.29051 | | +0.38161438 | +0.08257604 |
| P 2.79 | H | 16.0 | G | 0.15 | |

From 25 observations 1991 Dec. 8-1992 Feb. 7, mean residual 0".82.

1992 AB

| | | | | | |
|---|---|---|---|---|---|
| Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 | | | | | Bardwell |
| M 346.31360 | | (2000.0) | | P | Q |
| n 0.16542517 | Peri. | 55.66436 | | -0.61449891 | -0.44245687 |
| a 3.2865102 | Node | 88.92531 | | +0.31358546 | -0.89669772 |
| e 0.5533854 | Incl. | 40.78927 | | +0.72391661 | +0.01284969 |
| P 5.96 | H | 14.0 | G | 0.15 | |

From 20 observations 1992 Jan. 1-Feb. 7.

1992 AE

| | | | | | |
|---|---|---|---|---|---|
| Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 | | | | | Williams |
| M 28.67689 | | (2000.0) | | P | Q |
| n 0.30466880 | Peri. | 283.70479 | | +0.97002247 | -0.21609060 |
| a 2.1873455 | Node | 88.86096 | | +0.24269179 | +0.88499890 |
| e 0.4336791 | Incl. | 6.38468 | | -0.01253423 | +0.41240974 |
| P 3.24 | H | 14.5 | G | 0.15 | |

From 27 observations 1992 Jan. 10-Feb. 7.

1992 AX

| | | | | | |
|---|---|---|---|---|---|
| Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 | | | | | Williams |
| M 285.07533 | | (2000.0) | | P | Q |
| n 0.39590438 | Peri. | 108.35631 | | -0.67447099 | +0.71755564 |
| a 1.8368591 | Node | 117.94578 | | -0.72963034 | -0.61184980 |
| e 0.2769363 | Incl. | 11.34579 | | -0.11282045 | -0.33279680 |
| P 2.49 | H | 14.0 | G | 0.15 | |

From 13 observations 1992 Jan. 4-Feb. 5.

1992 AT1 = 1969 TG3 = 1983 NY

| | | | | | |
|---|---|---|---|---|---|
| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | | | Kaneda |
| M 147.64767 | | (2000.0) | | P | Q |
| n 0.27656408 | Peri. | 242.98853 | | +0.99613700 | -0.01355133 |
| a 2.3331296 | Node | 117.67706 | | +0.04355082 | +0.93418824 |
| e 0.1422980 | Incl. | 5.62232 | | -0.07625224 | +0.35652306 |
| P 3.56 | H | 13.0 | G | 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 691009 | 095 | 0.0 | 0.0 | | 830713 | 688 | 0.4- | 0.6+ | | 920124 | 400 | 1.1+ | 1.3- |
| 830711 | 688 | 1.9+ | 1.3- | | 920106 | 400 | 0.7+ | 0.7+ | | 920205 | 400 | 0.9+ | 0.8+ |
| 830711 | 688 | 2.3- | 0.8+ | | 920106 | 400 | 1.0- | 0.2+ | | 920205 | 400 | 1.0+ | 0.1- |
| 830713 | 688 | 0.8+ | 0.2- | | 920124 | 400 | 2.5- | 0.2- | | | | | |

1992 BA
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Marsden

| | | | | |
|---|---|---|---|---|
| M | 239.09954 | (2000.0) | P | Q |
| n | 0.63449477 | Peri. 107.18555 | -0.37224750 | +0.92084535 |
| a | 1.3412735 | Node 140.33103 | -0.90560115 | -0.33296623 |
| e | 0.0676389 | Incl. 10.47758 | -0.20326917 | -0.20292197 |
| P | 1.55 | H 20.5 | G 0.15 | |

From 18 observations 1992 Jan. 27-Feb. 10.

1992 BB
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 327.96890 | (2000.0) | P | Q |
| n | 0.38097893 | Peri. 330.31577 | -0.92859941 | -0.32455125 |
| a | 1.8845258 | Node 194.65620 | +0.24746584 | -0.90289304 |
| e | 0.2678013 | Incl. 45.32261 | -0.27652088 | +0.28186991 |
| P | 2.59 | H 15.5 | G 0.15 | |

From 11 observations 1992 Jan. 25-Feb. 12.

1992 BC
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Williams

| | | | | |
|---|---|---|---|---|
| M | 317.08421 | (2000.0) | P | Q |
| n | 0.58636854 | Peri. 77.03336 | -0.91137401 | +0.35707158 |
| a | 1.4136946 | Node 123.53622 | -0.40241735 | -0.87742445 |
| e | 0.3485319 | Incl. 14.21529 | +0.08635798 | -0.32035329 |
| P | 1.68 | H 19.0 | G 0.15 | |

From 19 observations 1992 Jan. 29-Feb. 7.

1992 BF
Epoch 1992 Jan. 19.0 TT = JDT 2448640.5 Bardwell

| | | | | |
|---|---|---|---|---|
| M | 200.27748 | (2000.0) | P | Q |
| n | 1.13903778 | Peri. 336.30367 | +0.37697049 | +0.92206213 |
| a | 0.9080518 | Node 315.70504 | -0.82845187 | +0.29330985 |
| e | 0.2695288 | Incl. 7.21592 | -0.41419892 | +0.25252872 |
| P | 0.87 | H 18.5 | G 0.15 | |

From 13 observations 1992 Jan. 30-Feb. 6.

1992 BM = 1982 DN2 = 1984 WP1 = 1984 YC1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M | 92.77141 | (2000.0) | P | Q |
| n | 0.29209277 | Peri. 77.18655 | +0.39539751 | -0.91833316 |
| a | 2.2496874 | Node 349.46846 | +0.79982641 | +0.35389066 |
| e | 0.1626598 | Incl. 5.66054 | +0.45159552 | +0.17727267 |
| P | 3.37 | H 14.2 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 820221 | 046 | 0.9- | 1.5+ | 920128 | 399 | 0.2- | 0.5- | 920205 | 399 | 1.9- | 1.9- |
| 820221 | 046 | 1.7+ | 0.1- | 920128 | 399 | 0.6+ | 2.4+ | 920208 | 399 | 1.2+ | 0.7+ |
| 841120 | 688 | 1.2+ | 0.1- | 920129 | 399 | 1.7- | 0.3- | 920208 | 399 | 1.9+ | 1.3+ |
| 841120 | 688 | (7.5+ | 0.9+) | 920129 | 399 | 0.1- | 1.4- | | | | |
| 841217 | 095 | 1.3- | 0.7+ | 920205 | 399 | 0.5- | 2.1- | | | | |

1992 CE = 1973 US1 = 1977 EW1 = 1979 OO15 = 1981 WF3 = 1987 QF11
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | |
|---|---|---|---|---|
| M | 317.62639 | (2000.0) | P | Q |
| n | 0.12421303 | Peri. 21.15435 | -0.78673080 | +0.61690528 |
| a | 3.9782427 | Node 196.99229 | -0.57660105 | -0.74710670 |
| e | 0.0721457 | Incl. 4.31067 | -0.22042203 | -0.24750646 |
| P | 7.93 | H 10.3 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 731026 | 095 | 0.4+ | 0.7- | 811124 | 033 | 0.0 | 0.2+ | 920209 | 400 | 0.2- 0.5+ |
| 770313 | 095 | 1.0+ | 0.2- | 811124 | 033 | 0.3- | 0.0 | 920209 | 400 | 1.4+ 0.7+ |
| 770322 | 095 | 0.7- | 0.6- | 870828 | 095 | 0.7+ | 1.3- | 920225 | 399 | 0.8- 0.3+ |
| 770325 | 095 | 0.4- | 0.1+ | 920205 | 400 | 0.2+ | 0.9+ | 920225 | 399 | 1.2- 2.4- |
| 790730 | 095 | 0.7- | 1.4+ | 920205 | 400 | 1.5+ | 0.0 | 920226 | 399 | 0.7- 0.4+ |

1992 CT = 1976 YQ1 = 1985 UA6 = 1990 UK13 = 1990 WA12

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 134.11912 | (2000.0) | P | Q | |
| n | 0.20625056 | Peri. | 326.56605 | +0.82070047 | -0.56920430 |
| a | 2.8370868 | Node | 68.20575 | +0.53521656 | +0.73552027 |
| e | 0.0707057 | Incl. | 3.06025 | +0.19998491 | +0.36744577 |
| P | 4.78 | H | 12.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 761216 | 095 | 0.6+ | 2.5- | 901121 | 364 | 0.2+ | 2.8+ | 920213 | 372 | 0.8- 0.7+ |
| 761218 | 095 | 0.6- | 1.1- | 901121 | 364 | 0.2- | 0.8+ | 920213 | 372 | 0.8- 2.1+ |
| 761220 | 095 | 0.6+ | 1.0- | 920205 | 372 | 0.3- | 1.3+ | 920224 | 372 | 0.5- 0.3- |
| 851018 | 095 | 0.8- | 1.4+ | 920205 | 372 | 1.0+ | 0.9+ | 920224 | 372 | 0.2- 1.2- |
| 901028 | 095 | 1.1- | 0.6- | 920208 | 372 | 1.7+ | 0.2- | 920225 | 372 | 0.0 1.1- |
| 901029 | 095 | 0.3+ | 0.3- | 920208 | 372 | 1.0+ | 0.6+ | 920225 | 372 | 0.2+ 0.4+ |

1992 CU = 1969 VC2 = 1990 WG3

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | |
|---|---|---|---|---|---|
| M | 19.30601 | (2000.0) | P | Q | |
| n | 0.18881081 | Peri. | 78.32164 | -0.93926076 | -0.29731427 |
| a | 3.0092029 | Node | 84.20112 | +0.20705776 | -0.88928368 |
| e | 0.1129224 | Incl. | 9.92314 | +0.27370843 | -0.34753238 |
| P | 5.22 | H | 11.7 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 691115 | 095 | 1.0+ | 2.5- | 901119 | 809 | 0.6+ | 0.5+ | 920214 | 886 | 1.0- 1.1- |
| 901118 | 809 | 1.6- | 0.3- | 901119 | 809 | 0.8+ | 1.4+ | 920225 | 886 | 0.1- 0.3+ |
| 901118 | 809 | 0.5- | 0.1- | 920213 | 886 | 1.0+ | 1.1- | 920225 | 886 | 1.0- 0.5+ |
| 901118 | 809 | 0.0 | 0.4+ | 920213 | 886 | 1.1+ | 2.2- | 920226 | 886 | 0.2+ 1.4+ |
| 901119 | 809 | 0.2- | 0.7+ | 920214 | 886 | 0.5- | 0.3+ | 920226 | 886 | 0.2+ 1.6+ |

1992 CC1

Epoch 1992 Feb. 8.0 TT = JDT 2448660.5 Williams

| | | | | | |
|---|---|---|---|---|---|
| M | 105.91809 | (2000.0) | P | Q | |
| n | 0.60364985 | Peri. | 21.97208 | +0.96692105 | -0.23099387 |
| a | 1.3865834 | Node | 349.45687 | +0.02848185 | +0.51927719 |
| e | 0.3741584 | Incl. | 36.24871 | +0.25348069 | +0.82279587 |
| P | 1.63 | H | 15.0 | G 0.15 | |

From 18 observations 1992 Feb. 9-28.

1992 CG1 = 1981 CC1 = 1981 EX48 = 1985 XJ2 = 1987 FR1 = 1989 TG9

Epoch 1992 June 27.0 TT = JDT 2448800.5 Kaneda

| | | | | | |
|---|---|---|---|---|---|
| M | 331.54084 | (2000.0) | P | Q | |
| n | 0.18162895 | Peri. | 105.05820 | -0.77538795 | +0.62914846 |
| a | 3.0880146 | Node | 113.96003 | -0.59979560 | -0.70686687 |
| e | 0.1309659 | Incl. | 3.40495 | -0.19753168 | -0.32328229 |
| P | 5.43 | H | 12.2 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 810201 | 801 | 3.9+ | 0.4- | 870323 | 033 | 2.2- | 0.1- | 920208 | 399 | 0.2+ 1.5- |
| 810308 | 095 | 1.8+ | 1.9+ | 891007 | 809 | 0.9+ | 1.3- | 920225 | 399 | 0.1+ 0.8- |
| 851214 | 675 | 4.0- | 0.8+ | 891007 | 809 | 2.0+ | 0.3- | 920225 | 399 | 1.9+ 0.9- |
| 851214 | 675 | 3.8- | 1.5+ | 891007 | 809 | 0.7+ | 1.3- | 920226 | 399 | 1.0- 1.1- |
| 870322 | 033 | 1.7- | 0.0 | 920208 | 399 | 0.9+ | 1.4- | 920226 | 399 | 0.3- 0.7- |

1992 CH1
Epoch 1992 Feb. 8.0 TT = JDT 2448660.5 Marsden

| | | | | | | |
|---|---|---|---|---|---|---|
| M | 0.50351 | | (2000.0) | P | | Q |
| n | 0.48248033 | Peri. | 355.38679 | -0.78390320 | | -0.58648132 |
| a | 1.6099645 | Node | 145.94839 | +0.58066001 | | -0.80872293 |
| e | 0.2840960 | Incl. | 21.34435 | +0.21984024 | | +0.04479835 |
| P | 2.04 | H | 19.0 | G | 0.15 | |

From 11 observations 1992 Feb. 8-15.

1992 DA = 1974 DW = 1979 SM13
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | | | |
|---|---|---|---|---|---|---|
| M | 4.76280 | | (2000.0) | P | | Q |
| n | 0.27501187 | Peri. | 164.39699 | -0.97711743 | | +0.21054376 |
| a | 2.3419004 | Node | 27.81252 | -0.20142171 | | -0.87028021 |
| e | 0.1677623 | Incl. | 3.71278 | -0.06834337 | | -0.44529057 |
| P | 3.58 | H | 13.5 | G | 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 740216 | 095 | 0.2- | 0.8- | 920225 | 372 | 0.8+ | 0.2- | 920227 | 372 | 1.2+ | 1.5+ |
| 790920 | 675 | 0.5+ | 0.1+ | 920225 | 372 | 0.2- | 0.6- | 920305 | 372 | 0.5- | 0.2+ |
| 790921 | 675 | 0.7- | 0.3+ | 920226 | 372 | 1.4+ | 0.6- | 920305 | 372 | 1.2- | 0.0 |
| 920224 | 372 | 1.0- | 0.1+ | 920226 | 372 | 0.1+ | 0.4- | | | | |
| 920224 | 372 | 0.8+ | 0.9- | 920227 | 372 | 1.0- | 1.8+ | | | | |

1992 DC
Epoch 1992 Feb. 8.0 TT = JDT 2448660.5 Marsden

| | | | | | | |
|---|---|---|---|---|---|---|
| M | 357.94828 | | (2000.0) | P | | Q |
| n | 0.23906875 | Peri. | 154.20379 | -0.82661370 | | -0.56210536 |
| a | 2.5711111 | Node | 351.43667 | +0.47932077 | | -0.67775554 |
| e | 0.4773085 | Incl. | 10.57924 | +0.29489216 | | -0.47400949 |
| P | 4.12 | H | 17.5 | G | 0.15 | |

From 6 observations 1992 Feb. 26-28.

1992 DU
Epoch 1992 Feb. 28.0 TT = JDT 2448680.5 Marsden

| | | | | | | |
|---|---|---|---|---|---|---|
| M | 43.58677 | | (2000.0) | P | | Q |
| n | 0.78887444 | Peri. | 121.64053 | -0.19750397 | | -0.96736786 |
| a | 1.1600164 | Node | 337.99983 | +0.69282547 | | -0.02319923 |
| e | 0.1750459 | Incl. | 25.06784 | +0.69353086 | | -0.25231174 |
| P | 1.25 | H | 25.0 | G | 0.15 | |

From 15 observations 1992 Feb. 26-29.

2530 P-L = 1991 RS21
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

| | | | | | | |
|---|---|---|---|---|---|---|
| M | 25.79715 | | (2000.0) | P | | Q |
| n | 0.28501920 | Peri. | 35.49096 | +0.52345702 | | -0.85145354 |
| a | 2.2867568 | Node | 22.99563 | +0.76165281 | | +0.45079273 |
| e | 0.1305347 | Incl. | 4.68842 | +0.38193944 | | +0.26797909 |
| P | 3.46 | H | 14.4 | G | 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 600924 | 675 | 0.8+ | 0.7- | 601022 | 675 | 0.0 | 0.1- | 910917 | 675 | 1.2- | 0.1- |
| 600926 | 675 | 0.5- | 0.1+ | 601025 | 675 | 0.2+ | 0.3- | 910917 | 675 | 0.3+ | 0.4- |
| 600928 | 675 | 0.3- | 0.7- | 601026 | 675 | 0.1- | 0.6+ | 910917 | 675 | 0.5+ | 0.2+ |
| 600929 | 675 | 0.4+ | 1.1+ | 910915 | 675 | 0.2+ | 0.0 | | | | |
| 601017 | 675 | 0.4- | 0.2- | 910915 | 675 | 0.1+ | 0.4+ | | | | |

4319 P-L = 1991 NL6
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 107.65466 (2000.0) P Q
n 0.31493361 Peri. 43.59648 +0.46266118 +0.88490840
a 2.1395546 Node 254.02934 -0.82792856 +0.40963219
e 0.1309995 Incl. 3.20089 -0.31698410 +0.22167225
P 3.13 H 15.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 600924 | 675 | 0.3+ | 0.2- | 910711 | 809 | 0.0 | 0.3- | 910712 | 809 | 0.5- | 0.5+ |
| 600925 | 675 | 1.3- | 0.5- | 910711 | 809 | 0.5+ | 0.2- | 910716 | 809 | 0.4- | 0.3- |
| 600926 | 675 | 0.3+ | 0.4- | 910711 | 809 | 1.0+ | 0.3- | 910716 | 809 | 0.3+ | 0.2- |
| 600928 | 675 | 0.8+ | 0.3+ | 910712 | 809 | 1.2- | 0.3+ | 910716 | 809 | 1.1+ | 0.1+ |
| 601026 | 675 | 0.1- | 0.9+ | 910712 | 809 | 0.8- | 0.5+ | | | | |

4556 P-L = 1991 RT21
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 36.91101 (2000.0) P Q
n 0.18990041 Peri. 328.85556 +0.97544628 -0.21691564
a 2.9976812 Node 43.72519 +0.21170548 +0.87582095
e 0.1371783 Incl. 3.16042 +0.06070700 +0.43114414
P 5.19 H 13.7 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 600924 | 675 | 0.7- | 0.5- | 601022 | 675 | 1.1+ | 0.2+ | 910915 | 675 | 0.3- | 0.2- |
| 600926 | 675 | 0.1- | 0.3- | 601025 | 675 | 0.7- | 0.7+ | 910915 | 675 | 0.0 | 0.2+ |
| 600927 | 675 | 0.1- | 0.5+ | 601025 | 675 | 1.1+ | 1.3- | 910917 | 675 | 0.1+ | 0.8- |
| 600928 | 675 | 0.2+ | 0.4+ | 601026 | 675 | 1.4- | 0.5+ | 910917 | 675 | 0.3+ | 0.6+ |
| 601017 | 675 | 0.4+ | 1.3+ | 601026 | 675 | 0.2+ | 1.3- | | | | |

4559 P-L = 1978 WN17
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 160.72345 (2000.0) P Q
n 0.16770555 Peri. 181.11712 +0.99752346 +0.07032905
a 3.2566500 Node 174.84975 -0.06445477 +0.91904532
e 0.1548565 Incl. 0.55882 -0.02815181 +0.38782667
P 5.88 H 14.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 600926 | 675 | 0.3- | 0.8- | 601017 | 675 | 0.4- | 0.8+ | 601026 | 675 | 0.4- | 0.6+ |
| 600927 | 675 | 0.0 | 0.5+ | 601022 | 675 | 0.1- | 0.5- | 781130 | 675 | 0.1+ | 0.4- |
| 600928 | 675 | 0.7+ | 0.4- | 601025 | 675 | 0.5+ | 0.2- | 781201 | 675 | 0.1- | 0.3+ |

6058 P-L = 3090 T-1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 15.28893 (2000.0) P Q
n 0.24620622 Peri. 319.14363 +0.54781634 +0.83597119
a 2.5211772 Node 343.98822 -0.73376091 +0.46151629
e 0.1904448 Incl. 6.74453 -0.40186091 +0.29690888
P 4.00 H 15.3 G 0.15
Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 600924 | 675 | 0.0 | 0.2+ | 601022 | 675 | 0.1- | 0.2+ | 710326 | 675 | 0.0 | 0.6+ |
| 600925 | 675 | 0.3+ | 0.9+ | 601024 | 675 | 0.8+ | 0.4+ | 710327 | 675 | 3.1- | 1.3+ |
| 600926 | 675 | 0.8- | 0.1- | 601026 | 675 | 0.0 | 0.2+ | 710416 | 675 | 1.9+ | 1.9- |
| 600928 | 675 | 0.9- | 0.9- | 710325 | 675 | 3.0+ | 0.3+ | 710416 | 675 | 1.5- | 0.3+ |
| 601017 | 675 | 1.0+ | 0.9- | 710326 | 675 | 0.3- | 0.7- | | | | |

6328 P-L = 3048 T-1
Id. S. Nakano, T. Kobayashi

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 30.14994 (2000.0) P Q
n 0.23611019 Peri. 179.15832 -0.98889744 +0.14834748
a 2.5925446 Node 9.38616 -0.13664567 -0.88492014
e 0.0891590 Incl. 3.04152 -0.05839362 -0.44148541
P 4.17 H 14.4 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 600924 675 | 0.1- | 0.5+ | 601026 675 | 0.5+ | 1.0- | 710327 675 | 0.5+ | 2.9- |
| 600925 675 | 0.4+ | 0.2+ | 710324 675 | 0.7- | 1.3+ | 710402 675 | 0.2- | 0.3- |
| 600926 675 | 0.4+ | 0.2- | 710325 675 | 1.0- | 0.1+ | 710416 675 | 0.0 | 0.9- |
| 600928 675 | 0.5+ | 1.2- | 710326 675 | 0.0 | 1.1+ | 710416 675 | 0.1+ | 0.1+ |
| 601017 675 | 1.0+ | 0.7- | 710326 675 | 0.9+ | 1.4- | 710416 675 | 0.5- | 0.4+ |
| 601022 675 | 0.3+ | 1.7- | 710326 675 | 0.7- | 0.4+ | 710416 675 | 2.0+ | 1.0+ |
| 601025 675 | 0.8- | 0.1- | 710326 675 | 0.2+ | 1.7- | 710513 675 | 0.9- | 1.1- |
| 601026 675 | 0.3- | 0.4+ | 710327 675 | 1.4- | 0.0 | 710514 675 | 0.0 | 0.4+ |

6588 P-L = 1978 WE19
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 125.94612 (2000.0) P Q
n 0.17081133 Peri. 330.71185 +0.49563026 -0.86845679
a 3.2170533 Node 89.57467 +0.79909517 +0.45075355
e 0.1395745 Incl. 0.66192 +0.34029039 +0.20640748
P 5.77 H 13.5 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 600924 675 | 0.5- | 0.7+ | 601017 675 | 0.8- | 0.5+ | 781130 675 | 0.3- | 0.2+ |
| 600926 675 | 0.5- | 0.4+ | 601022 675 | 0.4+ | 0.4- | 781201 675 | 0.2+ | 0.0 |
| 600927 675 | 0.3+ | 0.5+ | 601024 675 | 0.1+ | 1.1- | | | |
| 600928 675 | 0.0 | 0.3+ | 601026 675 | 1.1+ | 1.3- | | | |

6615 P-L = 1992 BU1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 342.65372 (2000.0) P Q
n 0.29538307 Peri. 180.12267 -0.94373421 +0.32960304
a 2.2329499 Node 19.18931 -0.30334590 -0.83029119
e 0.0935723 Incl. 4.70722 -0.13170805 -0.44942004
P 3.34 H 14.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 600924 675 | 0.5- | 0.6+ | 601017 675 | 1.1+ | 0.7+ | 920130 675 | 0.2+ | 0.6- |
| 600926 675 | 0.1+ | 0.3+ | 601022 675 | 1.4- | 0.6- | 920130 675 | 0.1- | 0.2+ |
| 600927 675 | 0.2+ | 0.4- | 601024 675 | 0.4+ | 0.1+ | 920202 675 | 0.4- | 0.7+ |
| 600928 675 | 0.2+ | 0.8- | 601026 675 | 0.1- | 0.2+ | 920202 675 | 0.2+ | 0.3- |

7068 P-L = 1982 SO8
Id. T. Kobayashi (MPC 13693)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Kobayashi
M 82.96904 (2000.0) P Q
n 0.22457277 Peri. 154.34745 +0.99483521 -0.07160307
a 2.6805957 Node 210.02785 +0.04880935 +0.95892019
e 0.2517635 Incl. 8.26586 +0.08899752 +0.27449058
P 4.39 H 13.7 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 601017 675 | 0.2+ | 0.2- | 820921 095 | (1.4- | 5.4+) | 911109 399 | 2.1- | 2.1- |
| 601022 675 | 0.6+ | 0.3- | 911009 801 | 0.4+ | 0.0 | 911109 399 | 0.5+ | 0.9- |
| 601024 675 | 0.3- | 0.3+ | 911009 801 | 0.5+ | 0.1+ | 911111 399 | 2.1+ | 1.1+ |
| 601026 675 | 0.8+ | 0.2+ | 911107 801 | 0.6+ | 0.7+ | 911111 399 | 1.8+ | 0.8+ |
| 820919 095 | 0.5+ | 0.4+ | 911107 801 | 0.6+ | 0.7+ | | | |

9508 P-L = 1986 ED1
Id. T. Kobayashi (MPC 14630)

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

| | | | | |
|---|---|---|---|---|
| M | 28.48721 | (2000.0) | P | Q |
| n | 0.17466391 | Peri. 93.26516 | -0.98468040 | +0.16945543 |
| a | 3.1695719 | Node 96.49381 | -0.17185639 | -0.90327349 |
| e | 0.1348527 | Incl. 2.37086 | -0.02949406 | -0.39418506 |
| P | 5.64 | H 12.8 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 601017 675 | 0.1- | 0.2+ | 601026 675 | 0.3+ | 1.1+ | 860305 688 | 0.3- | 1.0+ |
| 601022 675 | 1.2- | 0.8- | 781130 675 | 0.2- | 0.0 | 860305 688 | 1.1+ | 1.4- |
| 601024 675 | 0.9+ | 0.4- | 781201 675 | 0.2+ | 0.1- | 860312 809 | 0.8- | 0.6+ |

9575 P-L = 1991 RV21

Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell

| | | | | |
|---|---|---|---|---|
| M | 85.74629 | (2000.0) | P | Q |
| n | 0.31781736 | Peri. 280.94745 | +0.99874533 | +0.00632609 |
| a | 2.1265926 | Node 78.70378 | +0.01442561 | +0.91359450 |
| e | 0.1876777 | Incl. 2.90371 | -0.04795476 | +0.40657727 |
| P | 3.10 | H 15.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 601017 675 | 0.1+ | 0.1- | 601026 675 | 0.3+ | 0.5+ | 910917 675 | 0.0 | 0.6- |
| 601022 675 | 0.2- | 0.5+ | 910915 675 | 0.1- | 0.3+ | 910917 675 | 0.2+ | 0.4- |
| 601024 675 | 0.1- | 0.8- | 910915 675 | 0.1- | 0.6+ | | | |

1081 T-1 = 1221 T-2

Id. S. Nakano, T. Kobayashi

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 275.52410 | (2000.0) | P | Q |
| n | 0.18199707 | Peri. 341.45366 | -0.33225782 | +0.94274155 |
| a | 3.0838491 | Node 269.13232 | -0.86164297 | -0.31590956 |
| e | 0.0648005 | Incl. 1.66409 | -0.38363542 | -0.10695572 |
| P | 5.42 | H 13.6 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 710324 675 | 1.0+ | 0.8- | 730919 675 | 1.8+ | 0.4+ | 730929 675 | 0.4+ | 0.2- |
| 710325 675 | 0.2- | 1.0+ | 730920 675 | 1.9- | 0.0 | 730930 675 | 0.4+ | 0.5+ |
| 710325 675 | 0.7- | 0.5+ | 730924 675 | 2.0- | 0.4+ | 730930 675 | 0.1- | 1.5+ |
| 710326 675 | 0.6+ | 0.1- | 730924 675 | 0.1- | 0.9- | 731004 675 | 0.1+ | 0.0 |
| 710327 675 | 0.7+ | 1.7- | 730925 675 | (1.6- | 3.5-) | 731004 675 | 0.8+ | 1.0- |
| 710402 675 | 1.4- | 1.2+ | 730925 675 | 1.3- | 0.4- | 731005 675 | 0.1+ | 0.4- |
| 730919 675 | 0.9+ | 0.4- | 730929 675 | 1.5+ | 0.1+ | 731005 675 | 0.5- | 0.5+ |

1181 T-1 = 1991 EF4 = 2067 T-2

Id. S. Nakano, T. Kobayashi

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 67.59292 | (2000.0) | P | Q |
| n | 0.19502243 | Peri. 228.65208 | -0.96791002 | +0.24879257 |
| a | 2.9449619 | Node 325.71052 | -0.20770599 | -0.87130991 |
| e | 0.0897345 | Incl. 3.60157 | -0.14145110 | -0.42299090 |
| P | 5.05 | H 12.8 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 710324 675 | 0.6+ | 0.2- | 710514 675 | 1.1- | 0.2- | 730929 675 | 1.1+ | 0.9+ |
| 710325 675 | 0.9- | 0.4- | 730919 675 | 1.3- | 0.9+ | 730930 675 | 0.4+ | 1.4- |
| 710325 675 | 0.5+ | 0.7- | 730919 675 | 1.1- | 2.1+ | 730930 675 | 1.4+ | 1.2- |
| 710326 675 | 0.1- | 0.1- | 730920 675 | 1.1- | 0.4+ | 731004 675 | 1.1+ | 1.1- |
| 710327 675 | 0.1+ | 0.3+ | 730924 675 | 0.5- | 1.3+ | 731004 675 | 1.6+ | 1.1- |
| 710402 675 | 1.0+ | 0.2+ | 730924 675 | 0.6- | 1.6+ | 731005 675 | 0.3- | 1.0- |
| 710416 675 | 1.0- | 0.3- | 730925 675 | 0.0 | 1.2- | 731005 675 | 0.4+ | 0.2+ |
| 710416 675 | 0.4+ | 1.2- | 730925 675 | 1.0- | 1.5- | 910312 809 | 0.6- | 0.4+ |
| 710513 675 | 0.7- | 0.7+ | 730929 675 | 0.7+ | 0.3- | 910312 809 | 0.4- | 0.3+ |

910312 809 0.3- 0.1+ 910314 809 0.7+ 0.7- 910317 809 0.1+ 0.8+
910314 809 0.2+ 0.9- 910317 809 0.1- 0.5+
910314 809 0.5+ 0.7- 910317 809 0.1+ 0.7+

1198 T-1 = 1990 TM9
Id. S. Nakano, T. Kobayashi
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 351.78074 (2000.0) P Q
n 0.18128035 Peri. 199.27631 -0.89636934 -0.44041425
a 3.0919720 Node 314.48522 +0.41546814 -0.79480515
e 0.1140176 Incl. 4.06467 +0.15462288 -0.41751655
P 5.44 H 13.7 G 0.15
Residuals in seconds of arc
710324 675 0.5+ 0.5- 710416 675 0.3+ 1.6- 901011 033 0.7+ 0.9+
710325 675 0.0 0.8+ 710416 675 1.0+ 1.3- 901012 033 0.3+ 0.3-
710325 675 0.1+ 1.2+ 710513 675 0.1+ 0.4+ 901013 033 1.2+ 1.3-
710326 675 0.6- 0.6- 710514 675 0.3+ 0.7+ 901014 033 0.3- 0.2-
710327 675 0.1- 0.3+ 901010 033 1.3- 1.4+
710402 675 1.4- 0.8+ 901011 033 0.6- 0.4-

1293 T-1 = 1991 PW15
Id. S. Nakano, T. Kobayashi
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 54.15571 (2000.0) P Q
n 0.31029103 Peri. 32.55279 +0.95162078 -0.30678383
a 2.1608431 Node 345.28258 +0.26526206 +0.84872057
e 0.0943902 Incl. 3.91950 +0.15509328 +0.43076336
P 3.18 H 15.0 G 0.15
Residuals in seconds of arc
710325 675 1.1+ 0.5+ 710327 675 1.8+ 0.4- 910806 675 0.6- 0.2+
710325 675 0.7+ 0.9- 710402 675 1.3- 0.8+ 910806 675 0.4- 0.9-
710325 675 0.1- 0.5+ 710416 675 0.6+ 2.6- 910810 675 0.6+ 0.5+
710326 675 0.4- 1.5+ 710416 675 1.3- 0.1+ 910810 675 0.4+ 0.3+
710326 675 1.0- 0.2- 710513 675 0.8+ 0.6+
710326 675 0.5- 0.4- 710514 675 0.2- 0.4+

1295 T-1 = 1990 BV3 = 1991 GF3
Id. S. Nakano, T. Kobayashi
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 231.64059 (2000.0) P Q
n 0.19877370 Peri. 218.51998 +0.61172367 -0.79074986
a 2.9077926 Node 193.81394 +0.74718717 +0.58691880
e 0.0489439 Incl. 5.42088 +0.25981820 +0.17389932
P 4.96 H 13.9 G 0.15
Residuals in seconds of arc
710324 675 1.3+ 0.7- 710327 675 1.4- 0.6+ 910408 809 1.5- 0.1-
710325 675 0.1- 0.3- 710402 675 2.3- 0.5- 910408 809 0.2+ 1.0+
710325 675 0.5+ 0.6+ 710416 675 0.1- 0.3+ 910408 809 0.9+ 0.6+
710325 675 0.2- 0.4+ 710416 675 0.3+ 0.8- 910408 809 0.4+ 1.4+
710326 675 2.4+ 0.5- 900124 033 0.1- 0.0 910410 809 1.3+ 0.3-
710326 675 0.0 0.5+ 900124 033 0.1+ 0.1+ 910410 809 1.4+ 0.9-
710326 675 0.4- 0.2- 910408 809 2.4- 0.1+ 910410 809 0.9+ 1.1-
710327 675 (6.5+ 4.3-) 910408 809 1.1- 0.0

2151 T-1 = 1987 SO12
Id. S. Nakano, T. Kobayashi

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M 86.70284 | (2000.0) | P | Q | |
| n 0.27113969 | Peri. 232.73319 | +0.86655957 | -0.49736945 | |
| a 2.3641443 | Node 157.00580 | +0.48476041 | +0.81919972 | |
| e 0.1854272 | Incl. 6.05542 | +0.11866698 | +0.28554414 | |
| P 3.64 | H 14.8 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 710324 675 | 1.1- | 0.7+ | 870916 809 | 0.4+ | 0.4+ | 870923 809 | 0.3- | 1.1- |
| 710325 675 | 0.2- | 0.8+ | 870916 809 | 0.5+ | 0.5+ | 870927 809 | 0.3+ | 0.0 |
| 710325 675 | 0.1+ | 0.5+ | 870918 809 | 0.4- | 0.2+ | 870927 809 | 0.2+ | 0.2- |
| 710326 675 | 0.1- | 0.6- | 870918 809 | 0.2- | 0.2+ | 870927 809 | 0.5+ | 0.1- |
| 710327 675 | 0.1+ | 0.6- | 870918 809 | 0.1+ | 0.0 | 871001 809 | 0.3- | 0.6+ |
| 710402 675 | 1.3+ | 0.8- | 870923 809 | 0.4- | 0.8- | 871001 809 | 0.0 | 0.4+ |
| 870916 809 | 0.2+ | 0.6+ | 870923 809 | 0.3- | 1.0- | 871001 809 | 0.2- | 0.2+ |

3100 T-1 = 1969 VS = 1990 VG4

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M 119.86282 | (2000.0) | P | Q | |
| n 0.23653829 | Peri. 232.52039 | +0.11227403 | -0.99148077 | |
| a 2.5894155 | Node 211.22637 | +0.94715944 | +0.12687603 | |
| e 0.1688205 | Incl. 7.31790 | +0.30047221 | -0.02946792 | |
| P 4.17 | H 13.3 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 691111 095 | 0.3+ | 1.4- | 710402 675 | 1.4- | 0.9+ | 901112 364 | 1.3- | 1.9- |
| 710325 675 | 2.5+ | 0.2- | 710402 675 | 0.8- | 0.6- | 901121 364 | 0.9- | 0.0 |
| 710326 675 | 0.0 | 0.5- | 710416 675 | 0.3+ | 1.4- | 901121 364 | 0.7+ | 0.7+ |
| 710326 675 | 1.7- | 0.1- | 710416 675 | 2.0+ | 1.7- | 901122 364 | 0.5+ | 3.2+ |
| 710327 675 | 1.1- | 2.2+ | 901112 364 | 1.1- | 2.6- | 901122 364 | 2.0+ | 1.1+ |

3163 T-1 = 1992 BE

Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams

| | | | | |
|---|---|---|---|---|
| M 119.68814 | (2000.0) | P | Q | |
| n 0.08202464 | Peri. 346.22176 | +0.99964363 | +0.02382200 | |
| a 5.2461395 | Node 12.43199 | -0.01591984 | +0.89424618 | |
| e 0.1254116 | Incl. 3.20794 | -0.02142846 | +0.44694102 | |
| P 12.02 | H 12.5 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 710324 675(16.8+ | 24.2-) | | 710402 675 | 0.0 | 0.7+ | 920130 691 | 0.1+ | 0.5- |
| 710325 675 | 0.6- | 0.2- | 920129 691 | 0.1+ | 0.1- | 920130 691 | 0.3+ | 0.2+ |
| 710326 675 | 0.0 | 0.3- | 920129 691 | 0.3- | 0.5+ | 920209 691 | 0.3+ | 0.3- |
| 710326 675 | 0.4- | 0.7- | 920129 691 | 0.2+ | 0.1- | 920209 691 | 0.1- | 0.2+ |
| 710327 675 | 1.0+ | 0.6+ | 920130 691 | 0.3- | 0.0 | 920209 691 | 0.2- | 0.2+ |

3332 T-1 = 1987 YE1

Id. S. Nakano, T. Kobayashi

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M 128.30238 | (2000.0) | P | Q | |
| n 0.27804306 | Peri. 118.71519 | +0.71149303 | -0.70220800 | |
| a 2.3248486 | Node 285.90294 | +0.63486803 | +0.65829984 | |
| e 0.2183477 | Incl. 1.55556 | +0.30119805 | +0.27119226 | |
| P 3.54 | H 15.2 | G 0.15 | | |

Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 710325 675 | 2.5+ | 0.1- | 710402 675 | 0.7+ | 1.0- | 880111 033 | 0.2+ | 0.4+ |
| 710326 675 | 1.2- | 0.3+ | 871222 033 | 0.3- | 0.3- | 880111 033 | 0.0 | 0.2+ |
| 710326 675 | 0.9- | 0.0 | 871225 033 | 0.2+ | 0.3- | | | |
| 710327 675 | 1.1- | 0.7+ | 871225 033 | 0.1- | 0.0 | | | |

4195 T-1 = 1991 LD2

Id. S. Nakano, T. Kobayashi

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 92.99934 | (2000.0) | P | Q |
| n | 0.20369954 | Peri. 140.43703 | -0.55384176 | +0.83078269 |
| a | 2.8607244 | Node 95.86452 | -0.77731164 | -0.49209998 |
| e | 0.0146094 | Incl. 3.18746 | -0.29840563 | -0.26007254 |
| P | 4.84 | H 14.0 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 710324 | 675 | 0.6+ | 2.0- | 710513 | 675 | 0.2+ | 0.4- | 910606 | 809 | 0.0 | 2.0+ |
| 710326 | 675 | 1.0+ | 1.7+ | 710514 | 675 | 0.8- | 0.5+ | 910606 | 809 | 0.2+ | 1.9+ |
| 710326 | 675 | 0.9+ | 0.2+ | 710514 | 675 | 0.5+ | 0.8- | 910606 | 809 | 1.0- | 1.1+ |
| 710327 | 675 | 1.0- | 1.5- | 710516 | 675 | 0.4+ | 1.7- | 910608 | 809 | 0.6+ | 1.5- |
| 710402 | 675 | 1.2- | 0.1+ | 710516 | 675 | 1.3+ | 2.0+ | 910608 | 809 | 0.5- | 1.2- |
| 710416 | 675 | 0.5+ | 0.4- | 910518 | 809 | 0.9+ | 0.0 | 910608 | 809 | 0.2+ | 1.5- |
| 710416 | 675 | 1.6- | 0.7+ | 910518 | 809 | 0.4- | 0.3- | | | | |
| 710513 | 675 | 0.7- | 2.0+ | 910518 | 809 | 0.2+ | 0.8- | | | | |

4214 T-1 = 1977 RE19

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 65.45221 | (2000.0) | P | Q |
| n | 0.23410977 | Peri. 331.64146 | -0.58326619 | -0.81159554 |
| a | 2.6072921 | Node 153.99655 | +0.75889373 | -0.55911676 |
| e | 0.1246661 | Incl. 4.36456 | +0.28962192 | -0.16941408 |
| P | 4.21 | H 15.0 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 710324 | 675 | 0.6+ | 0.2+ | 710327 | 675 | 0.1+ | 0.1+ | 710416 | 675 | 1.4- | 0.2- |
| 710326 | 675 | 1.0- | 0.0 | 710402 | 675 | 0.3+ | 0.1- | 770909 | 675 | 0.0 | 1.4- |
| 710326 | 675 | 0.1+ | 0.2- | 710416 | 675 | 1.2+ | 0.2+ | 770910 | 675 | 0.0 | 1.4+ |

4232 T-1 = 1980 BA1 = 1980 DY1

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 235.93382 | (2000.0) | P | Q |
| n | 0.21111376 | Peri. 123.77383 | -0.75655541 | -0.65288018 |
| a | 2.7933478 | Node 15.57487 | +0.54507189 | -0.66088833 |
| e | 0.1658445 | Incl. 7.92771 | +0.36127627 | -0.37010009 |
| P | 4.67 | H 13.9 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 710324 | 675 | 0.2+ | 1.0+ | 710402 | 675 | 1.8+ | 1.0+ | 710514 | 675 | 0.7+ | 0.9+ |
| 710326 | 675 | 2.0- | 1.1- | 710416 | 675 | 1.5+ | 0.5- | 710514 | 675 | 0.8- | 0.2- |
| 710326 | 675 | 1.7- | 0.8- | 710416 | 675 | 0.5- | 0.5+ | 800123 | 095 | 0.6- | 0.2+ |
| 710327 | 675 | 1.0+ | 0.1+ | 710513 | 675 | 0.3- | 0.9- | 800220 | 095 | 0.6+ | 0.2- |

4277 T-1 = 1950 TX1 = 1985 QO5 = 1991 RH5

Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano

| | | | | |
|---|---|---|---|---|
| M | 55.34057 | (2000.0) | P | Q |
| n | 0.16821473 | Peri. 183.74100 | +0.99949985 | +0.02864512 |
| a | 3.2500749 | Node 174.56308 | -0.02408187 | +0.96404985 |
| e | 0.0227585 | Incl. 8.12912 | -0.02049668 | +0.26417293 |
| P | 5.86 | H 12.1 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 501015 | 024 | 0.6+ | 2.2- | 710416 | 675 | 1.4+ | 0.3- | 910913 | 675 | 0.2- | 2.2- |
| 710324 | 675 | 1.3- | 1.1- | 710513 | 675 | 0.3+ | 0.2- | 910913 | 675 | 0.0 | 0.5- |
| 710326 | 675 | 2.6- | 1.9- | 710514 | 675 | 0.2+ | 0.5- | 910914 | 675 | 0.3- | 1.9+ |
| 710326 | 675 | 1.9- | 0.5- | 710516 | 675 | 1.2+ | 0.2+ | 910914 | 675 | 0.8+ | 1.6+ |
| 710327 | 675 | 0.1+ | 1.3- | 850823 | 095 | 0.3+ | 0.1- | 910916 | 675 | 0.1+ | 2.0- |
| 710402 | 675 | 0.6+ | 0.9- | 910911 | 675 | 0.2+ | 0.5- | 910916 | 675 | 0.6+ | 1.5- |
| 710416 | 675 | 0.7+ | 0.6+ | 910911 | 675 | 0.4- | 0.5- | | | | |

4349 T-1 = 1977 RJ8
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 71.35182 (2000.0) P Q
n 0.21392486 Peri. 190.89244 +0.98277005 +0.17592973
a 2.7688231 Node 158.72023 -0.15566776 +0.95314296
e 0.3105800 Incl. 8.98383 -0.09965228 +0.24610410
P 4.61 H 13.4 G 0.15
Residuals in seconds of arc
710324 675 (8.4+ 4.7-) 710327 675 1.2+ 2.4- 710416 675 1.0+ 0.1+
710326 675 1.0- 0.8+ 710402 675 0.2- 0.6+ 770908 675 0.2+ 0.1+
710326 675 0.3- 1.0+ 710416 675 0.7- 0.2- 770909 675 0.2- 0.1-

4854 T-1 = 1973 UC5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 290.15314 (2000.0) P Q
n 0.19008732 Peri. 271.48246 +0.53412849 +0.83980013
a 2.9957158 Node 31.42345 -0.68245612 +0.49615937
e 0.0690635 Incl. 10.74178 -0.49895931 +0.22036701
P 5.19 H 13.5 G 0.15
Residuals in seconds of arc
710416 675 0.8+ 0.6- 710514 675 0.0 0.2- 731027 033 0.3+ 0.7-
710416 675 0.9- 0.5+ 710516 675 0.5+ 0.9- 731028 033 0.1- 0.4+
710513 675 0.3- 1.3+ 731027 033 0.2- 0.3+

1079 T-2 = 1991 RQ8 = 1991 RX8
Id. E. Bowell (MPC 19328), G. V. Williams (d, ibid.)
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 98.57857 (2000.0) P Q
n 0.21982525 Peri. 310.95051 +0.74454480 +0.66755995
a 2.7190530 Node 7.17386 -0.60221801 +0.67428790
e 0.1325774 Incl. 1.87819 -0.28807379 +0.31575234
P 4.48 H 13.5 G 0.15
Residuals in seconds of arc
730919 675 0.7+ 1.0- 730930 675 0.5- 0.1- 910911 675 1.1- 0.4-
730919 675 0.7- 0.7+ 730930 675 0.0 0.7+ 910913 400 0.7+ 0.7+
730920 675 0.8+ 0.8- 731004 675 1.0+ 0.0 910913 400 0.3+ 1.7+
730924 675 1.0- 1.1- 731004 675 0.6+ 0.7+ 910914 675 0.4- 0.1+
730924 675 0.5- 1.1- 731005 675 0.8- 0.7+ 910914 675 0.4- 0.4+
730925 675 0.2- 1.0- 731005 675 0.7+ 1.1+ 911107 675 0.9+ 0.4-
730925 675 0.7- 0.3+ 810508 675 1.8- 1.5- 911107 675 0.8+ 0.2+
730929 675 1.2+ 0.1- 810509 675 1.7+ 1.3+ 911109 675 1.7- 0.8-
730929 675 0.0 0.4- 910911 675 0.2- 0.4- 911109 675 0.5+ 0.1-

1210 T-2 = 1992 ED
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 347.20879 (2000.0) P Q
n 0.29345204 Peri. 232.81599 -0.75244442 +0.65853697
a 2.2427350 Node 348.35455 -0.58296703 -0.67469678
e 0.0774716 Incl. 3.55272 -0.30655641 -0.33333665
P 3.36 H 13.7 G 0.15
Residuals in seconds of arc
730919 675 1.3+ 0.9- 730929 675 0.4- 0.6+ 731005 675 0.2+ 0.9-
730919 675 0.7+ 0.4- 730929 675 0.3+ 0.3+ 920302 399 0.4+ 0.2+
730920 675 0.4+ 0.3+ 730930 675 0.8- 1.4+ 920302 399 0.3- 0.1+
730924 675 1.1- 0.2- 730930 675 0.2- 1.0+ 920303 399 0.7+ 0.5+
730924 675 0.8- 0.4+ 731004 675 1.6+ 1.0- 920303 399 0.8- 0.7-
730925 675 2.0- 1.4- 731004 675 0.7+ 0.4+
730925 675 0.8- 1.2+ 731005 675 0.9+ 0.8-

1274 T-2 = 1978 WE18
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 349.38245 (2000.0) P Q
n 0.21884519 Peri. 66.82688 +0.21807427 -0.97591306
a 2.7271648 Node 10.58265 +0.88279909 +0.19459147
e 0.0345706 Incl. 1.90585 +0.41606417 +0.09862987
P 4.50 H 14.3 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 730919 | 675 | 0.7- | 0.7- | 730924 | 675 | 0.1- | 1.2+ | 730930 | 675 | 1.4- | 0.1+ |
| 730919 | 675 | 0.4+ | 0.3+ | 730924 | 675 | 0.7- | 0.4- | 731004 | 675 | 0.3+ | 0.1- |
| 730919 | 675 | 0.5- | 1.9+ | 730924 | 675 | 0.5- | 1.3+ | 731004 | 675 | 0.4+ | 1.1- |
| 730919 | 675 | 1.2- | 0.2- | 730925 | 675 | 0.5- | 1.3- | 731005 | 675 | 1.1+ | 0.3+ |
| 730919 | 675 | 1.2+ | 0.3- | 730925 | 675 | 0.8+ | 0.0 | 731005 | 675 | 1.3+ | 1.2+ |
| 730920 | 675 | 0.5- | 0.4+ | 730929 | 675 | 0.2+ | 1.2- | 781130 | 675 | 0.6- | 0.1- |
| 730920 | 675 | (0.3+ | 3.2+) | 730929 | 675 | 0.1+ | 0.3- | 781201 | 675 | 0.6+ | 0.2+ |
| 730924 | 675 | 0.4+ | 1.1- | 730930 | 675 | (2.6- | 0.1+) | | | | |

1617 T-2 = 1954 JP = 1983 GN2 = 1984 SY3 = 1988 XP4 = 1990 ED8 = 1991 PR17
Id. E. Bowell (k), G. V. Williams
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 179.28298 (2000.0) P Q
n 0.27179824 Peri. 233.79094 -0.64063365 +0.76783482
a 2.3603240 Node 356.36132 -0.68113739 -0.57084731
e 0.1420625 Incl. 3.85648 -0.35445787 -0.29079725
P 3.63 H 13.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 540501 | 839 | 0.7+ | 0.6- | 881214 | 888 | 0.3+ | 1.1+ | 900309 | 809 | 1.3- | 0.6+ |
| 730919 | 675 | 0.1- | 0.7- | 881214 | 888 | 0.4+ | 0.3+ | 900309 | 809 | 0.9- | 0.6+ |
| 730919 | 675 | 0.3+ | 0.4+ | 900304 | 809 | 0.5- | 0.8- | 900309 | 809 | 0.4- | 0.5+ |
| 730920 | 675 | 1.7- | 1.5- | 900304 | 809 | 0.7- | 0.8- | 910808 | 675 | 0.1+ | 0.6+ |
| 730924 | 675 | 0.1- | 1.9- | 900304 | 809 | 0.3- | 0.7- | 910808 | 675 | 0.3- | 0.1+ |
| 730924 | 675 | 1.4+ | 1.1- | 900306 | 809 | 0.4+ | 0.6- | 910911 | 675 | 0.5+ | 0.5- |
| 730925 | 675 | 0.5- | 2.0- | 900306 | 809 | 0.7+ | 0.5- | 910911 | 675 | 0.1+ | 0.4- |
| 730925 | 675 | 0.6- | 0.2- | 900306 | 809 | 0.8+ | 0.5- | 910917 | 675 | 0.1+ | 1.3+ |
| 830410 | 095 | (0.1- | 7.0-) | 900308 | 809 | 0.5- | 0.0 | 910917 | 675 | 0.1+ | 0.3+ |
| 840927 | 033 | 1.0+ | 0.7+ | 900308 | 809 | 0.0 | 0.1+ | | | | |
| 840927 | 033 | 0.8+ | 1.4+ | 900308 | 809 | 0.5+ | 0.2+ | | | | |

1017 T-3 = 1986 RZ2
Id. S. Nakano (MPC 12700), K. Hurukawa
Epoch 1992 June 27.0 TT = JDT 2448800.5 Nakano
M 114.96425 (2000.0) P Q
n 0.21277849 Peri. 26.87814 +0.66019131 +0.73971386
a 2.7787591 Node 284.74102 -0.71107410 +0.55967750
e 0.1406964 Incl. 7.74161 -0.24191126 +0.37361010
P 4.63 H 13.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 771007 | 675 | 0.7+ | 0.2- | 771017 | 675 | 0.9+ | 0.7+ | 860929 | 095 | 2.2- | 0.5+ |
| 771011 | 675 | 2.2+ | 0.1- | 771017 | 675 | 0.9+ | 0.5+ | 861004 | 688 | 0.7+ | 0.6- |
| 771011 | 675 | 2.2+ | 0.4- | 771022 | 675 | 1.8- | 2.0- | 861004 | 688 | 0.2+ | 0.6+ |
| 771012 | 675 | 0.1+ | 0.6+ | 771022 | 675 | 2.3- | 0.5- | 911103 | 801 | 0.2- | 0.5+ |
| 771012 | 675 | 0.4- | 1.6+ | 860906 | 095 | (8.9- | 2.4+) | 911103 | 801 | 0.2- | 0.4+ |
| 771016 | 675 | 1.1- | 1.9- | 860911 | 688 | 0.9+ | 0.1- | 920105 | 801 | 0.2+ | 0.1- |
| 771016 | 675 | 0.5- | 0.5- | 860911 | 688 | 0.1+ | 0.2+ | 920106 | 801 | 0.0 | 0.0 |

1194 T-3 = 1991 OE1
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 78.78053 (2000.0) P Q
n 0.27383493 Peri. 8.66088 +0.77562946 +0.62612964
a 2.3486059 Node 312.26020 -0.58536754 +0.66629373
e 0.1292210 Incl. 6.18624 -0.23610120 +0.40498683
P 3.60 H 14.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 771016 675 | 0.2+ | 0.0 | 771022 675 | 0.1+ | 0.3- | 910718 809 | 0.3- | 0.3+ |
| 771016 675 | 0.2- | 0.2- | 771022 675 | 0.6- | 0.3+ | 910719 809 | 0.8+ | 0.5- |
| 771017 675 | 0.3- | 0.0 | 910718 809 | 1.2- | 0.4+ | 910719 809 | 1.3+ | 0.5- |
| 771017 675 | 0.7+ | 0.3+ | 910718 809 | 0.7- | 0.4+ | | | |

2247 T-3 = 1991 NV2
Epoch 1992 June 27.0 TT = JDT 2448800.5 Williams
M 109.51964 (2000.0) P Q
n 0.27159620 Peri. 319.81771 -0.06449980 +0.99624972
a 2.3614944 Node 306.40750 -0.89619624 -0.08324961
e 0.2113453 Incl. 4.10939 -0.43894428 +0.02357949
P 3.63 H 14.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 771007 675 | 0.5+ | 0.8+ | 771017 675 | 0.1+ | 0.1+ | 910704 809 | 0.6+ | 0.6- |
| 771011 675 | 1.0- | 1.1+ | 771021 675 | 1.4+ | 0.5- | 910704 809 | 1.1+ | 0.3- |
| 771011 675 | 1.3- | 1.3+ | 771021 675 | 0.1- | 0.1- | 910704 809 | 1.6+ | 0.3- |
| 771012 675 | 1.2- | 0.2+ | 771022 675 | 0.6+ | 0.4+ | 910705 809 | 0.2- | 0.5- |
| 771012 675 | 1.0- | 0.4- | 771022 675 | 1.4+ | 0.8- | 910705 809 | 0.2+ | 0.2- |
| 771016 675 | 0.1+ | 1.8- | 910703 809 | 2.0- | 0.2+ | 910705 809 | 0.6+ | 0.0 |
| 771016 675 | 0.5+ | 1.4- | 910703 809 | 1.2- | 0.6+ | | | |
| 771017 675 | 0.0 | 1.1+ | 910703 809 | 0.6- | 0.8+ | | | |

2327 T-3 = 1990 HJ5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Marsden
M 40.07464 (2000.0) P Q
n 0.21084323 Peri. 138.61348 +0.80443715 -0.59235597
a 2.7957367 Node 257.76541 +0.53229324 +0.75216438
e 0.0999460 Incl. 2.61971 +0.26371346 +0.28872678
P 4.67 H 14.0 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 771007 675 | 1.2+ | 0.5- | 771016 675 | 0.1+ | 1.1- | 771022 675 | 1.3- | 0.3- |
| 771011 675 | 0.6+ | 1.1+ | 771017 675 | 2.0- | 0.8+ | 900429 413 | 0.6+ | 0.2- |
| 771011 675 | 0.1+ | 1.9+ | 771017 675 | 1.0- | 0.7+ | 900501 413 | 0.4- | 0.3+ |
| 771012 675 | 0.5+ | 0.1- | 771021 675 | 1.2+ | 0.6+ | 900502 413 | 0.1- | 0.1- |
| 771012 675 | 0.2+ | 0.5+ | 771021 675 | 0.9+ | 0.8- | | | |
| 771016 675 | 0.7- | 2.6- | 771022 675 | 0.3+ | 0.1- | | | |

3220 T-3 = 1981 JN5
Epoch 1992 June 27.0 TT = JDT 2448800.5 Bowell
M 320.91091 (2000.0) P Q
n 0.17702648 Peri. 98.19436 +0.11859417 +0.99294272
a 3.1413082 Node 178.61640 -0.91774525 +0.10977491
e 0.1227444 Incl. 1.00070 -0.37905024 +0.04488011
P 5.57 H 13.6 G 0.15
Residuals in seconds of arc

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 771007 675 | 0.2+ | 0.2- | 771016 675 | 0.2+ | 0.4+ | 771021 675 | 0.8- | 0.2- |
| 771011 675 | 1.1- | 0.1- | 771016 675 | 0.2- | 1.0- | 771022 675 | 2.0+ | 0.3- |
| 771011 675 | 0.8- | 0.2+ | 771017 675 | 0.3+ | 1.9+ | 771022 675 | 0.2- | 0.2- |
| 771012 675 | 0.8+ | 0.6+ | 771017 675 | 0.7- | 0.3+ | 810508 675 | 0.2+ | 0.4- |
| 771012 675 | 1.2+ | 1.0- | 771021 675 | 1.1- | 0.3- | 810509 675 | 0.2- | 0.4+ |

4045 T-3 = 1990 BP
Id. S. Nakano (MPC 15908)

| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | Nakano |
|---|---|---|---|
| M 146.02976 | (2000.0) | P | Q |
| n 0.26814132 | Peri. 110.77979 | -0.68327290 | +0.72465209 |
| a 2.3817357 | Node 115.79194 | -0.70144262 | -0.61738713 |
| e 0.1101641 | Incl. 5.70735 | -0.20277175 | -0.30612495 |
| P 3.68 | H 13.5 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 771007 | 675 | 1.1+ | 1.0+ | 771017 | 675 | 0.5- | 0.6+ | 900124 | 887 | 2.2+ | 0.9- |
| 771011 | 675 | 0.7- | 1.9- | 771021 | 675 | 1.7+ | 0.7+ | 910706 | 809 | 0.0 | 0.7- |
| 771011 | 675 | 0.2- | 1.1- | 771021 | 675 | 1.8+ | 0.8+ | 910706 | 809 | 0.1- | 0.6- |
| 771012 | 675 | 1.0- | 0.6- | 771022 | 675 | 0.2+ | 0.4- | 910706 | 809 | 0.2- | 0.5- |
| 771012 | 675 | 0.7- | 1.7- | 771022 | 675 | 1.4+ | 1.0- | 910707 | 809 | 0.1+ | 1.6+ |
| 771016 | 675 | 1.9- | 1.5+ | 900121 | 887 | 0.2- | 0.5+ | 910707 | 809 | 0.2+ | 1.5+ |
| 771016 | 675 | 1.3- | 1.1+ | 900121 | 887 | 1.8- | 1.1+ | | | | |
| 771017 | 675 | 0.1+ | 1.4+ | 900124 | 887 | 0.0 | 0.7+ | | | | |

4157 T-3 = 1989 BH1
Id. S. Nakano (MPC 14480)

| Epoch 1992 June 27.0 TT = JDT 2448800.5 | | | Nakano |
|---|---|---|---|
| M 341.93376 | (2000.0) | P | Q |
| n 0.28692472 | Peri. 345.40642 | -0.86058392 | -0.50850589 |
| a 2.2766210 | Node 163.93386 | +0.47702305 | -0.82442470 |
| e 0.1027752 | Incl. 5.92851 | +0.17844977 | -0.24848677 |
| P 3.44 | H 15.1 | G 0.15 | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 771007 | 675 | 0.2+ | 1.3- | 771021 | 675 | 0.1- | 1.2+ | 890203 | 046 | 3.6- | 0.6- |
| 771011 | 675 | 0.7+ | 0.2+ | 771022 | 675 | 0.2+ | 1.3- | 911102 | 809 | 0.7+ | 1.6+ |
| 771011 | 675 | 1.1+ | 0.6- | 771022 | 675 | 0.6+ | 0.8- | 911102 | 809 | 0.3- | 0.2+ |
| 771012 | 675 | 0.2+ | 0.8- | 890126 | 046 | 1.2+ | 1.0- | 911102 | 809 | 1.5- | 0.4+ |
| 771012 | 675 | 0.4+ | 0.8- | 890126 | 046 | 0.4+ | 0.6+ | 911106 | 809 | 0.1+ | 1.3+ |
| 771016 | 675 | 0.7- | 1.5+ | 890127 | 046 | 2.0- | 1.2+ | 911106 | 809 | 0.0 | 0.8+ |
| 771016 | 675 | 0.4- | 1.5+ | 890127 | 046 | 0.1- | 0.9- | 911106 | 809 | 0.8+ | 0.7- |
| 771017 | 675 | 0.4- | 1.6- | 890128 | 046 | 3.4+ | 0.8+ | 911109 | 809 | 0.1+ | 0.6- |
| 771017 | 675 | 0.4- | 1.4- | 890128 | 046 | 3.3+ | 0.7+ | 911109 | 809 | 0.3- | 0.1- |
| 771021 | 675 | 0.8- | 1.8+ | 890203 | 046 | 2.8- | 2.0- | 911109 | 809 | 0.1- | 0.7- |

* * * * *

EPHEMERIDES.

1992 AB a,e,i = 3.29, 0.55, 41 Elements MPC 19871

| Date | TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | V |
|---|---|---|---|---|---|---|---|---|
| 1992 | 02 28 | 04 03.13 | +43 38.5 | 1.192 | 1.535 | 88.9 | 40.2 | 16.9 |
| 1992 | 03 09 | 04 17.89 | +47 17.3 | 1.261 | 1.508 | 83.1 | 40.8 | 17.0 |
| 1992 | 03 19 | 04 38.69 | +50 37.9 | 1.324 | 1.487 | 78.4 | 41.0 | 17.1 |
| 1992 | 03 29 | 05 05.92 | +53 36.5 | 1.381 | 1.474 | 74.6 | 40.8 | 17.1 |
| 1992 | 04 08 | 05 40.07 | +56 05.7 | 1.432 | 1.468 | 71.8 | 40.4 | 17.2 |
| 1992 | 04 18 | 06 21.22 | +57 54.6 | 1.477 | 1.470 | 69.7 | 39.8 | 17.3 |
| 1992 | 04 28 | 07 08.46 | +58 49.6 | 1.518 | 1.479 | 68.3 | 39.2 | 17.3 |
| 1992 | 05 08 | 07 59.50 | +58 38.5 | 1.557 | 1.496 | 67.4 | 38.6 | 17.4 |
| 1992 | 05 18 | 08 50.90 | +57 15.5 | 1.596 | 1.519 | 67.0 | 37.8 | 17.4 |
| 1992 | 05 28 | 09 39.39 | +54 43.0 | 1.639 | 1.549 | 66.7 | 36.9 | 17.5 |
| 1992 | 06 07 | 10 23.08 | +51 11.5 | 1.687 | 1.585 | 66.5 | 36.0 | 17.6 |
| 1992 | 06 17 | 11 01.48 | +46 55.6 | 1.744 | 1.626 | 66.2 | 34.9 | 17.7 |
| 1992 | 06 27 | 11 35.05 | +42 10.4 | 1.810 | 1.671 | 65.6 | 33.7 | 17.8 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1992 07 07 | 12 04.64 | +37 09.4 | 1.888 | 1.720 | 64.7 | 32.3 | 17.9 |
| 1992 07 17 | 12 31.08 | +32 04.4 | 1.978 | 1.773 | 63.4 | 30.8 | 18.0 |
| 1992 07 27 | 12 55.08 | +27 04.0 | 2.079 | 1.828 | 61.5 | 29.2 | 18.2 |
| 1992 08 06 | 13 17.27 | +22 14.8 | 2.191 | 1.885 | 59.2 | 27.5 | 18.3 |
| 1992 08 16 | 13 38.07 | +17 41.2 | 2.312 | 1.945 | 56.4 | 25.7 | 18.4 |
| 1992 08 26 | 13 57.81 | +13 25.6 | 2.439 | 2.005 | 53.2 | 23.8 | 18.6 |

1991 YA a,e,i = 2.74, 0.44, 44 Elements MPC 19870

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | V |
|---|---|---|---|---|---|---|---|
| 1992 02 28 | 05 18.28 | -07 27.7 | 1.169 | 1.633 | 97.9 | 36.9 | 17.4 |
| 1992 03 09 | 05 31.21 | -09 10.0 | 1.298 | 1.666 | 92.4 | 36.5 | 17.7 |
| 1992 03 19 | 05 45.77 | -10 27.5 | 1.424 | 1.702 | 87.5 | 35.8 | 17.9 |
| 1992 03 29 | 06 01.65 | -11 29.9 | 1.548 | 1.742 | 83.3 | 34.7 | 18.1 |
| 1992 04 08 | 06 18.65 | -12 24.0 | 1.668 | 1.783 | 79.6 | 33.5 | 18.3 |
| 1992 04 18 | 06 36.60 | -13 15.1 | 1.785 | 1.828 | 76.2 | 32.2 | 18.4 |
| 1992 04 28 | 06 55.32 | -14 06.3 | 1.899 | 1.874 | 73.1 | 30.9 | 18.6 |
| 1992 05 08 | 07 14.70 | -15 00.1 | 2.010 | 1.921 | 70.3 | 29.6 | 18.7 |
| 1992 05 18 | 07 34.62 | -15 58.4 | 2.119 | 1.970 | 67.6 | 28.4 | 18.9 |
| 1992 05 28 | 07 54.94 | -17 01.9 | 2.225 | 2.019 | 65.1 | 27.1 | 19.0 |
| 1992 06 07 | 08 15.61 | -18 11.3 | 2.330 | 2.069 | 62.6 | 25.8 | 19.1 |
| 1992 06 17 | 08 36.50 | -19 26.8 | 2.434 | 2.120 | 60.2 | 24.6 | 19.2 |
| 1992 06 27 | 08 57.55 | -20 47.9 | 2.537 | 2.171 | 57.7 | 23.3 | 19.3 |

1992 BB a,e,i = 1.88, 0.27, 45 Elements MPC 19872

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | V |
|---|---|---|---|---|---|---|---|
| 1992 02 28 | 05 58.03 | -48 12.2 | 0.914 | 1.419 | 96.2 | 43.9 | 17.8 |
| 1992 03 09 | 06 16.70 | -42 35.5 | 0.870 | 1.404 | 97.5 | 44.5 | 17.6 |
| 1992 03 19 | 06 39.91 | -35 52.9 | 0.834 | 1.392 | 98.7 | 45.0 | 17.5 |
| 1992 03 29 | 07 06.65 | -28 10.4 | 0.811 | 1.384 | 99.3 | 45.4 | 17.5 |
| 1992 04 08 | 07 35.98 | -19 48.9 | 0.807 | 1.380 | 98.9 | 45.8 | 17.5 |
| 1992 04 18 | 08 06.91 | -11 25.2 | 0.827 | 1.381 | 97.4 | 46.2 | 17.5 |
| 1992 04 28 | 08 38.53 | -03 39.1 | 0.872 | 1.385 | 94.7 | 46.4 | 17.7 |
| 1992 05 08 | 09 10.13 | +02 59.3 | 0.939 | 1.394 | 91.2 | 46.4 | 17.8 |
| 1992 05 18 | 09 41.16 | +08 17.2 | 1.024 | 1.406 | 87.4 | 45.9 | 18.0 |
| 1992 05 28 | 10 11.27 | +12 17.0 | 1.122 | 1.422 | 83.4 | 45.1 | 18.2 |
| 1992 06 07 | 10 40.32 | +15 07.9 | 1.228 | 1.442 | 79.4 | 43.8 | 18.4 |
| 1992 06 17 | 11 08.29 | +17 02.2 | 1.338 | 1.464 | 75.5 | 42.2 | 18.6 |
| 1992 06 27 | 11 35.23 | +18 11.0 | 1.449 | 1.489 | 71.9 | 40.4 | 18.8 |
| 1992 07 07 | 12 01.29 | +18 43.8 | 1.560 | 1.517 | 68.4 | 38.6 | 18.9 |
| 1992 07 17 | 12 26.61 | +18 48.6 | 1.667 | 1.546 | 65.2 | 36.6 | 19.0 |
| 1992 07 27 | 12 51.33 | +18 31.6 | 1.770 | 1.577 | 62.2 | 34.7 | 19.2 |
| 1992 08 06 | 13 15.64 | +17 57.8 | 1.868 | 1.610 | 59.4 | 32.9 | 19.3 |

1992 AX a,e,i = 1.84, 0.28, 11 Elements MPC 19871

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | V |
|---|---|---|---|---|---|---|---|
| 1992 02 28 | 07 26.88 | +28 40.9 | 0.885 | 1.700 | 130.0 | 26.5 | 16.1 |
| 1992 03 09 | 07 26.02 | +29 45.7 | 0.931 | 1.663 | 119.6 | 31.3 | 16.3 |
| 1992 03 19 | 07 30.64 | +30 27.6 | 0.983 | 1.627 | 110.6 | 34.9 | 16.5 |
| 1992 03 29 | 07 40.22 | +30 48.8 | 1.037 | 1.591 | 102.8 | 37.7 | 16.6 |
| 1992 04 08 | 07 54.08 | +30 49.7 | 1.091 | 1.556 | 96.0 | 39.8 | 16.7 |
| 1992 04 18 | 08 11.52 | +30 30.0 | 1.143 | 1.522 | 90.1 | 41.3 | 16.8 |
| 1992 04 28 | 08 31.85 | +29 48.9 | 1.190 | 1.489 | 84.9 | 42.3 | 16.9 |
| 1992 05 08 | 08 54.50 | +28 45.0 | 1.234 | 1.459 | 80.4 | 43.0 | 16.9 |
| 1992 05 18 | 09 18.93 | +27 17.7 | 1.274 | 1.430 | 76.6 | 43.5 | 17.0 |
| 1992 05 28 | 09 44.67 | +25 26.5 | 1.309 | 1.405 | 73.2 | 43.7 | 17.0 |
| 1992 06 07 | 10 11.40 | +23 11.2 | 1.341 | 1.382 | 70.3 | 43.7 | 17.0 |
| 1992 06 17 | 10 38.82 | +20 33.1 | 1.370 | 1.363 | 67.8 | 43.6 | 17.0 |
| 1992 06 27 | 11 06.70 | +17 33.8 | 1.398 | 1.348 | 65.7 | 43.4 | 17.1 |
| 1992 07 07 | 11 34.96 | +14 15.5 | 1.426 | 1.337 | 63.8 | 43.0 | 17.1 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1992 07 17 | 12 03.50 | +10 41.9 | 1.454 | 1.330 | 62.2 | 42.5 | 17.1 |
| 1992 07 27 | 12 32.32 | +06 56.9 | 1.485 | 1.328 | 60.8 | 41.9 | 17.1 |
| 1992 08 06 | 13 01.46 | +03 05.3 | 1.519 | 1.331 | 59.5 | 41.0 | 17.1 |
| 1992 08 16 | 13 30.98 | -00 47.4 | 1.558 | 1.338 | 58.2 | 40.0 | 17.2 |
| 1992 08 26 | 14 00.92 | -04 35.9 | 1.602 | 1.350 | 56.9 | 38.9 | 17.2 |

1992 DC a,e,i = 2.57, 0.48, 11 Elements MPC 19874

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | V |
|---|---|---|---|---|---|---|---|
| 1992 02 28 | 09 59.57 | +24 13.5 | 0.373 | 1.349 | 161.2 | 13.7 | 16.8 |
| 1992 03 09 | 09 57.72 | +18 48.7 | 0.394 | 1.362 | 155.5 | 17.6 | 17.1 |
| 1992 03 19 | 09 59.74 | +13 33.7 | 0.431 | 1.382 | 148.5 | 22.1 | 17.4 |
| 1992 03 29 | 10 05.63 | +08 49.8 | 0.482 | 1.408 | 141.6 | 26.2 | 17.8 |
| 1992 04 08 | 10 14.92 | +04 43.6 | 0.547 | 1.441 | 135.1 | 29.4 | 18.3 |
| 1992 04 18 | 10 26.96 | +01 12.3 | 0.623 | 1.479 | 129.3 | 31.7 | 18.7 |
| 1992 04 28 | 10 41.02 | -01 49.9 | 0.711 | 1.522 | 123.9 | 33.3 | 19.1 |
| 1992 05 08 | 10 56.59 | -04 29.8 | 0.809 | 1.569 | 118.9 | 34.3 | 19.4 |
| 1992 05 18 | 11 13.25 | -06 53.3 | 0.917 | 1.619 | 114.1 | 34.8 | 19.8 |

1992 CC1 a,e,i = 1.39, 0.37, 36 Elements MPC 19873

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | V |
|---|---|---|---|---|---|---|---|
| 1992 02 28 | 11 24.21 | +19 03.1 | 0.768 | 1.744 | 165.1 | 8.4 | 16.2 |
| 1992 03 09 | 10 51.76 | +17 04.3 | 0.795 | 1.774 | 165.7 | 7.9 | 16.3 |
| 1992 03 19 | 10 24.11 | +14 40.1 | 0.855 | 1.801 | 153.4 | 14.4 | 16.7 |
| 1992 03 29 | 10 03.73 | +12 10.0 | 0.943 | 1.825 | 140.0 | 20.6 | 17.2 |
| 1992 04 08 | 09 50.78 | +09 46.3 | 1.052 | 1.845 | 127.9 | 25.3 | 17.6 |
| 1992 04 18 | 09 44.21 | +07 33.0 | 1.175 | 1.863 | 117.3 | 28.6 | 18.0 |
| 1992 04 28 | 09 42.66 | +05 29.3 | 1.306 | 1.878 | 107.8 | 30.7 | 18.3 |
| 1992 05 08 | 09 44.99 | +03 32.1 | 1.441 | 1.889 | 99.4 | 31.8 | 18.5 |
| 1992 05 18 | 09 50.28 | +01 38.5 | 1.575 | 1.898 | 91.7 | 32.2 | 18.7 |
| 1992 05 28 | 09 57.81 | -00 14.0 | 1.706 | 1.903 | 84.7 | 32.0 | 18.9 |
| 1992 06 07 | 10 07.13 | -02 07.6 | 1.832 | 1.905 | 78.3 | 31.4 | 19.1 |

1992 CH1 a,e,i = 1.61, 0.28, 21 Elements MPC 19874

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | V |
|---|---|---|---|---|---|---|---|
| 1992 02 28 | 11 49.96 | +35 35.1 | 0.201 | 1.166 | 148.5 | 26.3 | 17.0 |
| 1992 03 09 | 12 14.48 | +46 33.5 | 0.245 | 1.182 | 136.2 | 35.6 | 17.8 |
| 1992 03 19 | 12 32.62 | +52 07.2 | 0.300 | 1.203 | 127.8 | 40.8 | 18.4 |
| 1992 03 29 | 12 44.92 | +54 13.3 | 0.360 | 1.229 | 122.3 | 43.4 | 18.9 |
| 1992 04 08 | 12 53.30 | +54 05.7 | 0.422 | 1.259 | 118.6 | 44.3 | 19.3 |
| 1992 04 18 | 13 00.09 | +52 27.4 | 0.485 | 1.292 | 115.9 | 44.3 | 19.7 |
| 1992 04 28 | 13 06.76 | +49 45.7 | 0.549 | 1.328 | 113.9 | 43.9 | 20.0 |

(4769) Castalia a,e,i = 1.06, 0.48, 9 Elements MPC 17949

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | V |
|---|---|---|---|---|---|---|---|
| 1992 02 28 | 18 10.96 | -34 15.1 | 0.539 | 0.923 | 66.9 | 80.6 | 18.2 |
| 1992 03 09 | 18 17.31 | -36 39.3 | 0.556 | 1.010 | 75.6 | 72.2 | 18.2 |
| 1992 03 19 | 18 23.13 | -38 58.1 | 0.558 | 1.092 | 84.3 | 65.2 | 18.1 |
| 1992 03 29 | 18 25.60 | -41 21.4 | 0.547 | 1.167 | 93.4 | 58.7 | 18.0 |
| 1992 04 08 | 18 21.81 | -43 54.4 | 0.528 | 1.236 | 103.4 | 52.0 | 17.9 |
| 1992 04 18 | 18 08.55 | -46 32.2 | 0.506 | 1.298 | 114.4 | 44.8 | 17.7 |
| 1992 04 28 | 17 42.72 | -48 52.2 | 0.485 | 1.353 | 126.5 | 36.7 | 17.5 |
| 1992 05 08 | 17 03.46 | -50 06.9 | 0.475 | 1.402 | 138.9 | 28.2 | 17.3 |
| 1992 05 18 | 16 16.76 | -49 23.5 | 0.480 | 1.445 | 149.3 | 20.9 | 17.1 |
| 1992 05 28 | 15 33.98 | -46 36.4 | 0.505 | 1.482 | 153.1 | 18.0 | 17.2 |
| 1992 06 07 | 15 03.18 | -42 39.4 | 0.551 | 1.512 | 148.4 | 20.6 | 17.5 |
| 1992 06 17 | 14 45.39 | -38 39.1 | 0.616 | 1.537 | 139.4 | 25.5 | 17.9 |
| 1992 06 27 | 14 37.94 | -35 13.6 | 0.694 | 1.555 | 129.8 | 30.2 | 18.4 |
| 1992 07 07 | 14 38.01 | -32 34.4 | 0.783 | 1.568 | 120.7 | 33.9 | 18.8 |
| 1992 07 17 | 14 43.44 | -30 38.6 | 0.877 | 1.575 | 112.4 | 36.6 | 19.1 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1992 07 27 | 14 52.72 | -29 18.3 | 0.975 | 1.577 | 104.7 | 38.5 | 19.4 |
| 1992 08 06 | 15 04.94 | -28 25.2 | 1.072 | 1.572 | 97.7 | 39.7 | 19.6 |
| 1992 08 16 | 15 19.49 | -27 51.9 | 1.167 | 1.562 | 91.3 | 40.4 | 19.8 |
| 1992 08 26 | 15 35.92 | -27 32.1 | 1.258 | 1.546 | 85.2 | 40.6 | 19.9 |
| 1992 09 05 | 15 54.03 | -27 20.5 | 1.343 | 1.524 | 79.4 | 40.6 | 20.1 |
| 1992 09 15 | 16 13.61 | -27 12.6 | 1.419 | 1.496 | 74.0 | 40.2 | 20.1 |

Comet Zanotta-Brewington (1991g1) Elements MPC 19818

| Date TT | R. A. (2000) Decl. | Delta | r | Elong. | Phase | m1 |
|---|---|---|---|---|---|---|
| 1992 04 08 | 06 13.48 -68 16.4 | 1.011 | 1.445 | 91.7 | 43.9 | 10.6 |
| 1992 04 18 | 07 39.61 -66 29.1 | 1.085 | 1.594 | 99.4 | 38.4 | 11.2 |
| 1992 04 28 | 08 48.30 -62 48.9 | 1.178 | 1.742 | 105.5 | 33.8 | 11.8 |
| 1992 05 08 | 09 39.55 -58 19.0 | 1.292 | 1.887 | 109.5 | 30.3 | 12.3 |
| 1992 05 18 | 10 18.33 -53 46.2 | 1.431 | 2.029 | 111.2 | 27.7 | 12.9 |
| 1992 05 28 | 10 48.98 -49 35.9 | 1.593 | 2.169 | 110.7 | 25.9 | 13.4 |
| 1992 06 07 | 11 14.41 -45 59.5 | 1.777 | 2.306 | 108.3 | 24.7 | 13.9 |
| 1992 06 17 | 11 36.36 -42 59.9 | 1.980 | 2.441 | 104.5 | 23.8 | 14.4 |
| 1992 06 27 | 11 55.92 -40 35.0 | 2.198 | 2.574 | 99.8 | 22.9 | 14.8 |
| 1992 07 07 | 12 13.82 -38 40.9 | 2.429 | 2.704 | 94.4 | 22.0 | 15.2 |
| 1992 07 17 | 12 30.52 -37 13.3 | 2.668 | 2.832 | 88.6 | 21.0 | 15.7 |
| 1992 07 27 | 12 46.30 -36 07.8 | 2.913 | 2.958 | 82.6 | 19.9 | 16.0 |
| 1992 08 06 | 13 01.41 -35 20.7 | 3.160 | 3.082 | 76.3 | 18.6 | 16.4 |
| 1992 08 16 | 13 15.97 -34 48.7 | 3.407 | 3.205 | 69.9 | 17.3 | 16.7 |
| 1992 08 26 | 13 30.10 -34 29.0 | 3.651 | 3.325 | 63.5 | 15.8 | 17.0 |
| 1992 09 05 | 13 43.87 -34 19.1 | 3.888 | 3.444 | 57.0 | 14.2 | 17.3 |
| 1992 09 15 | 13 57.31 -34 17.3 | 4.116 | 3.562 | 50.5 | 12.6 | 17.6 |
| 1992 09 25 | 14 10.45 -34 21.7 | 4.333 | 3.677 | 44.0 | 10.9 | 17.8 |
| 1992 10 05 | 14 23.31 -34 31.2 | 4.536 | 3.792 | 37.5 | 9.2 | 18.1 |
| 1992 10 15 | 14 35.87 -34 44.5 | 4.723 | 3.905 | 31.3 | 7.6 | 18.3 |

Periodic Comet Holmes Elements MPC 16379

| Date TT | R. A. (2000) Decl. | Delta | r | Elong. | Phase | m2 |
|---|---|---|---|---|---|---|
| 1992 04 08 | 18 09.14 -44 45.0 | 2.851 | 3.266 | 105.6 | 17.2 | 19.8 |
| 1992 04 18 | 18 13.85 -45 36.4 | 2.689 | 3.226 | 113.7 | 16.6 | 19.6 |
| 1992 04 28 | 18 15.96 -46 28.2 | 2.537 | 3.186 | 121.9 | 15.6 | 19.4 |
| 1992 05 08 | 18 15.11 -47 18.2 | 2.398 | 3.146 | 130.2 | 14.2 | 19.2 |
| 1992 05 18 | 18 11.11 -48 02.3 | 2.275 | 3.105 | 138.4 | 12.5 | 19.0 |
| 1992 05 28 | 18 04.04 -48 35.4 | 2.172 | 3.065 | 146.0 | 10.7 | 18.8 |
| 1992 06 07 | 17 54.33 -48 51.5 | 2.091 | 3.025 | 151.9 | 9.1 | 18.6 |
| 1992 06 17 | 17 42.96 -48 45.1 | 2.035 | 2.984 | 154.6 | 8.4 | 18.5 |
| 1992 06 27 | 17 31.23 -48 14.0 | 2.003 | 2.944 | 152.9 | 9.0 | 18.5 |
| 1992 07 07 | 17 20.58 -47 19.0 | 1.995 | 2.904 | 147.5 | 10.9 | 18.5 |
| 1992 07 17 | 17 12.25 -46 05.0 | 2.011 | 2.865 | 139.9 | 13.2 | 18.6 |
| 1992 07 27 | 17 07.00 -44 38.8 | 2.047 | 2.825 | 131.6 | 15.6 | 18.7 |
| 1992 08 06 | 17 05.18 -43 07.1 | 2.100 | 2.786 | 123.0 | 17.8 | 18.8 |
| 1992 08 16 | 17 06.76 -41 35.3 | 2.167 | 2.747 | 114.6 | 19.6 | 18.9 |
| 1992 08 26 | 17 11.48 -40 06.7 | 2.243 | 2.709 | 106.4 | 21.0 | 18.9 |
| 1992 09 05 | 17 19.01 -38 42.9 | 2.327 | 2.671 | 98.6 | 21.9 | 19.0 |
| 1992 09 15 | 17 29.00 -37 23.7 | 2.415 | 2.634 | 91.1 | 22.4 | 19.1 |
| 1992 09 25 | 17 41.08 -36 08.3 | 2.503 | 2.597 | 84.0 | 22.6 | 19.1 |
| 1992 10 05 | 17 54.97 -34 55.0 | 2.592 | 2.561 | 77.1 | 22.4 | 19.2 |
| 1992 10 15 | 18 10.34 -33 42.0 | 2.678 | 2.527 | 70.5 | 21.8 | 19.2 |
| 1992 10 25 | 18 26.96 -32 27.4 | 2.760 | 2.493 | 64.2 | 21.0 | 19.2 |
| 1992 11 04 | 18 44.60 -31 09.4 | 2.836 | 2.460 | 58.1 | 20.0 | 19.2 |
| 1992 11 14 | 19 03.03 -29 46.5 | 2.907 | 2.429 | 52.1 | 18.8 | 19.2 |
| 1992 11 24 | 19 22.08 -28 17.4 | 2.971 | 2.398 | 46.3 | 17.3 | 19.2 |
| 1992 12 04 | 19 41.58 -26 40.9 | 3.028 | 2.370 | 40.7 | 15.7 | 19.1 |
| 1992 12 14 | 20 01.37 -24 56.5 | 3.077 | 2.343 | 35.2 | 14.0 | 19.1 |

Periodic Comet Slaughter-Burnham Elements MPC 16380

| Date | TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | m2 |
|---|---|---|---|---|---|---|---|---|
| 1992 | 04 08 | 20 59.00 | -23 11.2 | 4.223 | 3.959 | 68.1 | 13.6 | 18.9 |
| 1992 | 04 18 | 21 07.72 | -22 40.5 | 4.040 | 3.915 | 75.7 | 14.4 | 18.8 |
| 1992 | 04 28 | 21 15.50 | -22 13.0 | 3.852 | 3.871 | 83.6 | 15.0 | 18.7 |
| 1992 | 05 08 | 21 22.22 | -21 49.8 | 3.663 | 3.827 | 91.6 | 15.3 | 18.6 |
| 1992 | 05 18 | 21 27.71 | -21 31.7 | 3.475 | 3.782 | 99.9 | 15.3 | 18.4 |
| 1992 | 05 28 | 21 31.81 | -21 19.7 | 3.291 | 3.738 | 108.5 | 14.9 | 18.3 |
| 1992 | 06 07 | 21 34.34 | -21 14.4 | 3.115 | 3.694 | 117.4 | 14.1 | 18.1 |
| 1992 | 06 17 | 21 35.17 | -21 16.1 | 2.950 | 3.650 | 126.7 | 12.9 | 17.9 |
| 1992 | 06 27 | 21 34.18 | -21 24.7 | 2.801 | 3.605 | 136.4 | 11.2 | 17.7 |
| 1992 | 07 07 | 21 31.33 | -21 39.1 | 2.670 | 3.562 | 146.4 | 9.1 | 17.5 |
| 1992 | 07 17 | 21 26.74 | -21 57.6 | 2.561 | 3.518 | 156.8 | 6.5 | 17.3 |
| 1992 | 07 27 | 21 20.68 | -22 17.6 | 2.477 | 3.474 | 167.0 | 3.8 | 17.0 |
| 1992 | 08 06 | 21 13.59 | -22 36.0 | 2.421 | 3.431 | 173.8 | 1.8 | 16.8 |
| 1992 | 08 16 | 21 06.13 | -22 49.6 | 2.393 | 3.388 | 167.3 | 3.8 | 16.9 |
| 1992 | 08 26 | 20 59.02 | -22 56.0 | 2.392 | 3.345 | 156.9 | 6.8 | 17.0 |
| 1992 | 09 05 | 20 52.97 | -22 53.5 | 2.418 | 3.303 | 146.2 | 9.8 | 17.1 |
| 1992 | 09 15 | 20 48.56 | -22 41.7 | 2.465 | 3.261 | 135.7 | 12.4 | 17.3 |
| 1992 | 09 25 | 20 46.17 | -22 20.8 | 2.532 | 3.220 | 125.6 | 14.7 | 17.4 |
| 1992 | 10 05 | 20 46.01 | -21 51.4 | 2.613 | 3.179 | 115.9 | 16.4 | 17.5 |
| 1992 | 10 15 | 20 48.11 | -21 14.1 | 2.704 | 3.139 | 106.7 | 17.7 | 17.6 |
| 1992 | 10 25 | 20 52.34 | -20 29.6 | 2.802 | 3.099 | 97.9 | 18.5 | 17.6 |
| 1992 | 11 04 | 20 58.55 | -19 38.1 | 2.903 | 3.060 | 89.6 | 18.9 | 17.7 |
| 1992 | 11 14 | 21 06.52 | -18 39.8 | 3.004 | 3.022 | 81.6 | 18.9 | 17.8 |
| 1992 | 11 24 | 21 16.02 | -17 34.7 | 3.103 | 2.985 | 74.0 | 18.5 | 17.8 |
| 1992 | 12 04 | 21 26.85 | -16 22.7 | 3.197 | 2.949 | 66.7 | 17.9 | 17.8 |
| 1992 | 12 14 | 21 38.80 | -15 04.0 | 3.284 | 2.914 | 59.7 | 17.0 | 17.8 |
| 1992 | 12 24 | 21 51.69 | -13 38.5 | 3.364 | 2.879 | 52.9 | 15.8 | 17.8 |
| 1993 | 01 03 | 22 05.38 | -12 06.5 | 3.434 | 2.846 | 46.4 | 14.5 | 17.8 |
| 1993 | 01 13 | 22 19.72 | -10 28.2 | 3.495 | 2.815 | 40.1 | 13.0 | 17.7 |
| 1993 | 01 23 | 22 34.61 | -08 44.0 | 3.546 | 2.784 | 33.9 | 11.4 | 17.7 |

Periodic Comet Ciffreo (1985 XVI) Elements MPC 16378

| Date | TT | R. A. (2000) | Decl. | Delta | r | Variation | | m2 |
|---|---|---|---|---|---|---|---|---|
| 1992 | 04 08 | 22 04.26 | -23 30.5 | 3.460 | 2.992 | -0.71 | -3.8 | 19.9 |
| 1992 | 04 18 | 22 18.86 | -22 40.1 | 3.294 | 2.935 | -0.75 | -4.4 | 19.8 |
| 1992 | 04 28 | 22 33.14 | -21 51.9 | 3.121 | 2.878 | -0.79 | -5.0 | 19.7 |
| 1992 | 05 08 | 22 47.04 | -21 06.9 | 2.945 | 2.821 | -0.85 | -5.6 | 19.6 |
| 1992 | 05 18 | 23 00.48 | -20 26.4 | 2.766 | 2.764 | -0.91 | -6.4 | 19.5 |
| 1992 | 05 28 | 23 13.37 | -19 51.9 | 2.587 | 2.707 | -0.98 | -7.2 | 19.3 |
| 1992 | 06 07 | 23 25.59 | -19 25.0 | 2.408 | 2.649 | -1.06 | -8.1 | 19.1 |
| 1992 | 06 17 | 23 36.97 | -19 07.2 | 2.233 | 2.592 | -1.15 | -9.1 | 18.9 |
| 1992 | 06 27 | 23 47.34 | -19 00.2 | 2.063 | 2.534 | -1.26 | -10.2 | 18.7 |
| 1992 | 07 07 | 23 56.43 | -19 05.6 | 1.899 | 2.477 | -1.39 | -11.4 | 18.4 |
| 1992 | 07 17 | 00 03.93 | -19 24.7 | 1.745 | 2.420 | -1.54 | -12.8 | 18.2 |
| 1992 | 07 27 | 00 09.51 | -19 58.1 | 1.601 | 2.364 | -1.70 | -14.2 | 17.9 |
| 1992 | 08 06 | 00 12.73 | -20 45.1 | 1.471 | 2.308 | -1.89 | -15.5 | 17.6 |
| 1992 | 08 16 | 00 13.26 | -21 42.7 | 1.357 | 2.253 | -2.09 | -16.7 | 17.3 |
| 1992 | 08 26 | 00 10.83 | -22 45.3 | 1.260 | 2.199 | -2.30 | -17.7 | 17.0 |
| 1992 | 09 05 | 00 05.47 | -23 43.7 | 1.184 | 2.146 | -2.48 | -18.1 | 16.7 |
| 1992 | 09 15 | 23 57.72 | -24 25.9 | 1.129 | 2.094 | -2.61 | -18.0 | 16.5 |
| 1992 | 09 25 | 23 48.61 | -24 40.3 | 1.096 | 2.045 | -2.67 | -17.4 | 16.5 |
| 1992 | 10 05 | 23 39.64 | -24 17.8 | 1.083 | 1.997 | -2.64 | -16.7 | 16.5 |
| 1992 | 10 15 | 23 32.39 | -23 15.3 | 1.090 | 1.952 | -2.53 | -16.0 | 16.6 |
| 1992 | 10 25 | 23 28.03 | -21 35.2 | 1.113 | 1.909 | -2.37 | -15.7 | 16.7 |
| 1992 | 11 04 | 23 27.25 | -19 23.1 | 1.149 | 1.870 | -2.20 | -15.6 | 16.9 |
| 1992 | 11 14 | 23 30.20 | -16 45.8 | 1.195 | 1.834 | -2.03 | -15.9 | 17.0 |
| 1992 | 11 24 | 23 36.64 | -13 49.3 | 1.249 | 1.802 | -1.89 | -16.3 | 17.1 |

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|---|---|---|---|---|---|---|---|---|
| 1992 12 04 | 23 46.23 | -10 38.5 | 1.310 | 1.774 | -1.77 | -16.8 | 17.2 |
| 1992 12 14 | 23 58.53 | -07 17.3 | 1.375 | 1.751 | -1.68 | -17.2 | 17.3 |
| 1992 12 24 | 00 13.13 | -03 49.2 | 1.444 | 1.732 | -1.60 | -17.5 | 17.4 |

Comet Mueller (1991h1) Elements MPC 19818

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | m1 |
|---|---|---|---|---|---|---|---|
| 1992 04 08 | 23 12.26 | +24 25.6 | 1.132 | 0.612 | 32.6 | 61.9 | 11.1 |
| 1992 04 13 | 23 14.65 | +33 00.4 | 1.170 | 0.737 | 38.7 | 58.3 | 12.0 |
| 1992 04 18 | 23 18.87 | +40 47.6 | 1.219 | 0.855 | 43.9 | 54.6 | 12.7 |
| 1992 04 23 | 23 24.44 | +47 49.9 | 1.277 | 0.968 | 48.4 | 51.0 | 13.4 |
| 1992 04 28 | 23 31.17 | +54 10.5 | 1.344 | 1.076 | 52.1 | 47.6 | 14.0 |
| 1992 05 03 | 23 39.01 | +59 53.4 | 1.417 | 1.180 | 55.1 | 44.5 | 14.5 |
| 1992 05 08 | 23 48.11 | +65 02.4 | 1.495 | 1.280 | 57.6 | 41.8 | 14.9 |
| 1992 05 13 | 23 58.81 | +69 41.1 | 1.578 | 1.377 | 59.6 | 39.3 | 15.4 |
| 1992 05 18 | 00 11.8 | +73 52.9 | 1.663 | 1.472 | 61.2 | 37.0 | 15.8 |
| 1992 05 23 | 00 28.7 | +77 40.5 | 1.751 | 1.564 | 62.3 | 35.0 | 16.2 |
| 1992 05 28 | 00 53.0 | +81 05.7 | 1.841 | 1.654 | 63.2 | 33.2 | 16.5 |
| 1992 06 02 | 01 34.3 | +84 07.4 | 1.932 | 1.742 | 63.8 | 31.5 | 16.8 |
| 1992 06 07 | 03 06 | +86 34.5 | 2.023 | 1.827 | 64.2 | 30.0 | 17.1 |
| 1992 06 12 | 06 41 | +87 29.8 | 2.115 | 1.912 | 64.5 | 28.6 | 17.4 |
| 1992 06 17 | 09 32 | +86 11.4 | 2.206 | 1.994 | 64.6 | 27.4 | 17.7 |
| 1992 06 22 | 10 39.0 | +84 12.1 | 2.297 | 2.075 | 64.6 | 26.3 | 18.0 |
| 1992 06 27 | 11 12.9 | +82 10.4 | 2.388 | 2.155 | 64.5 | 25.2 | 18.2 |
| 1992 07 02 | 11 34.7 | +80 13.4 | 2.477 | 2.233 | 64.3 | 24.2 | 18.5 |
| 1992 07 07 | 11 50.9 | +78 22.7 | 2.564 | 2.310 | 64.2 | 23.3 | 18.7 |
| 1992 07 12 | 12 04.2 | +76 38.5 | 2.651 | 2.386 | 64.0 | 22.5 | 18.9 |
| 1992 07 17 | 12 15.7 | +75 00.6 | 2.736 | 2.461 | 63.8 | 21.7 | 19.1 |
| 1992 07 22 | 12 26.1 | +73 28.6 | 2.818 | 2.535 | 63.6 | 21.0 | 19.3 |
| 1992 07 27 | 12 35.8 | +72 02.4 | 2.899 | 2.608 | 63.4 | 20.4 | 19.5 |

Comet Shoemaker-Levy (1991a1) Elements MPC 19655

| Date TT | R. A. (2000) | Decl. | Delta | r | Elong. | Phase | m1 |
|---|---|---|---|---|---|---|---|
| 1992 04 28 | 00 52.65 | +39 13.5 | 2.492 | 1.722 | 31.9 | 18.0 | 11.8 |
| 1992 05 03 | 00 56.86 | +40 42.7 | 2.396 | 1.656 | 33.8 | 19.8 | 11.6 |
| 1992 05 08 | 01 01.33 | +42 22.1 | 2.293 | 1.589 | 35.9 | 21.9 | 11.3 |
| 1992 05 13 | 01 06.13 | +44 13.4 | 2.184 | 1.523 | 38.2 | 24.2 | 11.0 |
| 1992 05 18 | 01 11.39 | +46 18.5 | 2.069 | 1.457 | 40.5 | 26.8 | 10.7 |
| 1992 05 23 | 01 17.30 | +48 40.1 | 1.950 | 1.391 | 42.9 | 29.7 | 10.4 |
| 1992 05 28 | 01 24.17 | +51 21.8 | 1.826 | 1.327 | 45.3 | 32.9 | 10.0 |
| 1992 06 02 | 01 32.53 | +54 27.7 | 1.700 | 1.263 | 47.7 | 36.4 | 9.7 |
| 1992 06 07 | 01 43.34 | +58 03.1 | 1.571 | 1.201 | 49.9 | 40.2 | 9.3 |
| 1992 06 12 | 01 58.55 | +62 13.7 | 1.442 | 1.141 | 51.9 | 44.4 | 8.9 |
| 1992 06 17 | 02 22.55 | +67 03.9 | 1.316 | 1.084 | 53.5 | 48.9 | 8.4 |
| 1992 06 22 | 03 06.9 | +72 27.5 | 1.196 | 1.030 | 54.7 | 53.7 | 8.0 |
| 1992 06 27 | 04 45.4 | +77 25.8 | 1.088 | 0.980 | 55.4 | 58.6 | 7.6 |
| 1992 07 02 | 07 50.1 | +77 55.0 | 0.996 | 0.936 | 55.4 | 63.4 | 7.2 |
| 1992 07 07 | 10 05.9 | +70 51.6 | 0.930 | 0.899 | 54.8 | 67.5 | 6.9 |
| 1992 07 12 | 11 04.63 | +59 50.9 | 0.897 | 0.869 | 53.6 | 70.2 | 6.7 |
| 1992 07 17 | 11 32.62 | +47 35.6 | 0.902 | 0.849 | 52.1 | 70.9 | 6.6 |
| 1992 07 22 | 11 47.87 | +35 39.8 | 0.943 | 0.838 | 50.5 | 69.3 | 6.6 |
| 1992 07 27 | 11 56.89 | +24 59.4 | 1.014 | 0.838 | 48.8 | 65.7 | 6.8 |
| 1992 08 01 | 12 02.50 | +15 54.8 | 1.107 | 0.848 | 46.9 | 60.8 | 7.0 |
| 1992 08 06 | 12 06.09 | +08 22.2 | 1.214 | 0.869 | 44.8 | 55.3 | 7.3 |
| 1992 08 11 | 12 08.47 | +02 07.1 | 1.328 | 0.898 | 42.5 | 49.7 | 7.6 |
| 1992 08 16 | 12 10.13 | -03 06.3 | 1.444 | 0.935 | 40.1 | 44.2 | 8.0 |
| 1992 08 21 | 12 11.38 | -07 32.0 | 1.559 | 0.979 | 37.7 | 39.2 | 8.4 |
| 1992 08 26 | 12 12.44 | -11 21.2 | 1.671 | 1.029 | 35.3 | 34.6 | 8.7 |
| 1992 08 31 | 12 13.41 | -14 42.7 | 1.777 | 1.082 | 33.1 | 30.6 | 9.1 |
| 1992 09 05 | 12 14.37 | -17 43.0 | 1.877 | 1.140 | 31.1 | 27.2 | 9.4 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1992 03 09 | 11 22.60 | +03 54.1 | 1.134 | 2.127 | 178.9 | 0.5 | 15.7 | |
| -10.13 -0.15 | + 40.3 + 0.5 | 1210 T-2 | 19881 | - 5.06 +1.58 | + 12.4 - 8.3 | | | |
| 1992 04 08 | 10 56.59 | +05 29.5 | 1.209 | 2.108 | 144.7 | 15.9 | 16.6 | |
| 1992 03 09 | 11 43.16 | +12 37.2 | 1.045 | 2.030 | 169.8 | 5.0 | 15.9 | |
| -10.21 -0.34 | + 36.0 - 6.8 | 1990 SZ7 | 19866 | - 5.67 +1.58 | - 25.9 -11.2 | | | |
| 1992 04 08 | 11 15.78 | +13 00.3 | 1.146 | 2.051 | 145.5 | 16.1 | 16.5 | |
| 1992 03 09 | 11 45.33 | -04 40.4 | 2.032 | 3.012 | 168.7 | 3.7 | 17.8 | |
| - 8.57 -0.33 | + 53.2 + 5.0 | A920 TA | 19853 | - 6.76 +0.87 | + 57.2 - 3.7 | | | |
| 1992 04 08 | 11 20.11 | -01 38.7 | 2.049 | 2.973 | 152.5 | 9.0 | 18.0 | |
| 1992 03 09 | 11 57.87 | +07 32.9 | 1.913 | 2.896 | 169.8 | 3.5 | 17.9 | |
| - 9.12 -0.36 | + 61.5 - 1.4 | 1990 TX | 17451 | - 7.17 +0.92 | + 29.2 - 8.1 | | | |
| 1992 04 08 | 11 31.07 | +10 01.3 | 2.013 | 2.925 | 150.2 | 9.8 | 18.3 | |
| 1992 03 09 | 12 05.89 | +02 20.8 | 1.396 | 2.376 | 168.1 | 5.0 | 18.0 | |
| - 7.46 -0.55 | + 73.2 + 2.0 | 4214 T-1 | 19880 | - 5.83 +1.01 | + 48.5 - 9.1 | | | |
| 1992 04 08 | 11 43.09 | +05 44.1 | 1.463 | 2.409 | 155.1 | 10.1 | 18.4 | |
| 1992 03 09 | 12 11.88 | +14 41.1 | 1.572 | 2.540 | 163.4 | 6.4 | 16.1 | |
| - 8.07 -0.51 | + 65.6 - 5.8 | 1990 WE | 19868 | - 6.43 +0.96 | +6.9 -11.6 | | | |
| 1992 04 08 | 11 47.40 | +16 40.6 | 1.693 | 2.601 | 148.8 | 11.5 | 16.5 | |
| 1992 03 09 | 12 26.65 | -32 11.8 | 1.935 | 2.770 | 140.0 | 13.3 | 17.4 | |
| - 8.21 -0.75 | + 39.1 +16.6 | 1990 UO2 | 17965 | - 8.00 +0.80 | +121.5 + 8.1 | | | |
| 1992 04 08 | 11 59.45 | -27 55.3 | 1.876 | 2.809 | 153.7 | 9.1 | 17.2 | |
| 1992 03 09 | 12 33.86 | +00 11.0 | 1.988 | 2.944 | 160.8 | 6.4 | 17.5 | |
| - 6.76 -0.72 | + 40.1 + 3.0 | 1977 DS4 | 15699 | - 7.48 +0.52 | + 34.9 - 4.7 | | | |
| 1992 04 08 | 12 10.21 | +02 17.6 | 1.942 | 2.913 | 162.6 | 5.9 | 17.4 | |
| 1992 03 09 | 13 26.75 | -06 03.8 | 2.451 | 3.323 | 146.4 | 9.5 | 18.0 | |
| - 4.28 -0.88 | + 29.7 + 4.6 | 1988 ST2 | 19864 | - 7.30 -0.02 | + 42.6 - 0.9 | | | |
| 1992 04 08 | 13 07.81 | -04 05.3 | 2.288 | 3.288 | 176.8 | 1.0 | 17.3 | |
| 1992 04 08 | 13 29.37 | -10 35.8 | 1.369 | 2.367 | 173.8 | 2.6 | 17.2 | |
| - 8.79 -0.27 | + 34.4 + 2.7 | 6328 P-L | 19875 | - 7.53 +0.86 | + 32.6 - 3.6 | | | |
| 1992 04 28 | 13 11.91 | -09 22.5 | 1.394 | 2.372 | 162.0 | 7.5 | 17.5 | |
| 1992 04 08 | 13 30.59 | -11 19.0 | 1.742 | 2.739 | 173.2 | 2.5 | 17.0 | |
| - 8.25 -0.15 | + 73.5 + 2.4 | 3100 T-1 | 19879 | - 7.01 +0.73 | + 69.3 - 4.4 | | | |
| 1992 04 28 | 13 14.44 | -08 49.4 | 1.794 | 2.771 | 162.4 | 6.3 | 17.3 | |
| 1992 04 08 | 13 37.11 | -10 58.9 | 1.480 | 2.475 | 172.0 | 3.2 | 17.5 | |
| - 9.01 -0.45 | + 71.3 + 4.3 | 1972 RU1 | 19854 | - 8.51 +0.69 | + 72.5 - 3.8 | | | |
| 1992 04 28 | 13 18.45 | -08 27.0 | 1.460 | 2.441 | 163.2 | 6.8 | 17.7 | |
| 1992 04 08 | 13 36.97 | -12 43.4 | 1.311 | 2.306 | 171.1 | 3.9 | 16.6 | |
| - 9.13 -0.30 | + 51.9 + 4.1 | 1990 TF4 | 17642 | - 7.85 +0.89 | + 52.9 - 3.6 | | | |
| 1992 04 28 | 13 18.80 | -10 51.0 | 1.352 | 2.336 | 164.0 | 6.8 | 16.8 | |
| 1992 04 08 | 13 38.35 | -05 30.4 | 1.539 | 2.535 | 172.3 | 3.0 | 16.8 | |
| - 9.62 -0.24 | + 52.2 - 0.8 | 1988 BV | 12945 | - 8.39 +0.81 | + 37.3 - 6.4 | | | |
| 1992 04 28 | 13 19.29 | -03 55.3 | 1.597 | 2.571 | 161.3 | 7.2 | 17.1 | |
| 1992 04 08 | 13 38.31 | -05 01.4 | 0.996 | 1.992 | 172.2 | 3.9 | 17.8 | |
| - 8.10 -0.54 | + 79.6 + 0.2 | 1979 MR6 | 12696 | - 7.31 +0.90 | + 59.0 -10.0 | | | |
| 1992 04 28 | 13 21.46 | -02 32.6 | 0.997 | 1.976 | 160.9 | 9.6 | 18.1 | |

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1992 04 08    13 40.49   +31 07.0    2.432    3.271   140.9    11.1    17.7
-10.10 -0.30  + 30.2 -13.8   1988 JP     15712   - 9.51 +0.58  - 27.9 -14.6
1992 04 28    13 20.00   +31 10.0    2.460    3.224   132.2    13.4    17.8

1992 04 08    13 40.45   -13 14.4    1.605    2.597   170.1     3.8    18.1
- 9.96 -0.28  + 37.1 + 3.8    (4812)     18266   - 8.88 +0.79  + 40.8 - 2.0
1992 04 28    13 20.54   -11 50.6    1.649    2.634   164.7     5.8    18.3

1992 04 08    13 40.54   -06 17.2    1.535    2.531   171.9     3.2    16.8
- 9.76 -0.40  + 59.9 + 0.6   1990 XM     18299   - 9.09 +0.71  + 48.8 - 6.0
1992 04 28    13 20.58   -04 21.9    1.546    2.522   161.8     7.2    17.0

1992 04 08    13 40.23   -25 31.0    4.559    5.512   160.2     3.5    17.3
- 5.09 -0.14  + 17.8 + 3.9    (5023)     19488   - 4.93 +0.22  + 29.9 + 2.1
1992 04 28    13 29.86   -24 41.5    4.538    5.512   163.7     2.9    17.3

1992 04 08    13 44.67   -05 51.6    2.141    3.134   170.9     2.9    17.4
- 9.07 -0.31  + 19.1 - 0.2   1985 VC1    14196   - 8.65 +0.51  + 11.7 - 3.5
1992 04 28    13 26.13   -05 17.5    2.160    3.138   163.5     5.2    17.6

1992 04 08    13 43.72   -07 12.8    2.602    3.595   171.2     2.4    18.1
- 7.07 -0.24  + 40.2 + 0.5   1989 VX     15721   - 6.77 +0.38  + 34.9 - 3.1
1992 04 28    13 29.26   -05 54.1    2.618    3.599   164.4     4.3    18.3

1992 04 08    13 45.64   -11 23.9    1.991    2.982   169.9     3.4    18.2
- 9.56 -0.34  + 14.9 + 2.4   1973 SR6    13600   - 9.08 +0.56  + 17.2 - 1.4
1992 04 28    13 26.10   -10 48.1    2.013    2.999   165.8     4.7    18.3

1992 04 08    13 45.56   +14 02.3    1.416    2.369   156.8     9.6    15.8
- 7.71 -0.39  + 66.9 -12.4   1983 CE     14189   - 7.03 +0.69   +8.2 -15.9
1992 04 28    13 29.74   +15 20.9    1.465    2.377   147.7    13.1    16.0

1992 04 08    13 46.80   -11 34.0    1.889    2.880   169.6     3.6    18.0
- 8.91 -0.38  + 46.5 + 3.0    (4734)     17806   - 8.56 +0.54  + 47.9 - 2.3
1992 04 28    13 28.41   -09 54.3    1.894    2.882   166.0     4.8    18.1

1992 04 08    13 45.37   -08 05.2    2.136    3.129   170.8     2.9    17.2
- 7.43 -0.25  + 41.7 + 0.7   1990 YE     17829   - 6.93 +0.49  + 35.8 - 3.5
1992 04 28    13 30.26   -06 43.4    2.178    3.162   165.1     4.7    17.4

1992 04 08    13 45.49   -06 10.8    2.152    3.145   170.7     2.9    17.0
- 7.43 -0.32  + 48.4 + 0.3    (4727)     17804   - 7.18 +0.43  + 40.5 - 4.2
1992 04 28    13 30.14   -04 37.4    2.157    3.137   163.9     5.1    17.1

1992 04 08    13 49.34   -16 04.8    1.033    2.021   166.6     6.6    15.6
- 9.41 -0.87  + 10.1 + 7.5   1989 NO     15071   - 9.68 +0.75  + 28.8 + 1.2
1992 04 28    13 28.63   -15 19.6    1.000    1.993   166.9     6.6    15.5

1992 04 08    13 48.69   -16 20.8    1.271    2.257   166.6     5.9    16.2
- 8.56 -0.68  + 58.1 + 8.1   1989 OA     15072   - 8.65 +0.64  + 75.2 - 0.2
1992 04 28    13 30.16   -13 59.2    1.234    2.227   167.2     5.7    16.1

1992 04 08    13 48.89   -12 56.9    1.794    2.783   168.5     4.1    16.0
- 7.58 -0.44  + 49.9 + 3.9   1991 BO     17968   - 7.49 +0.48  + 54.6 - 1.8
1992 04 28    13 32.90   -11 06.7    1.778    2.769   167.4     4.5    16.0

1992 04 08    13 48.24   -09 32.3    2.536    3.526   169.9     2.9    17.6
- 7.04 -0.32  + 36.7 + 1.5   1988 SW2    18115   - 7.01 +0.33  + 35.6 - 2.1
1992 04 28    13 33.54   -08 16.4    2.516    3.503   166.6     3.8    17.6
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1992 04 08    13 51.43   -08 28.6    1.646    2.637   169.3     4.1    18.1
- 8.74 -0.59  + 61.0 + 2.7   1989 RD2    15255   - 9.01 +0.46  + 58.5 - 4.0
1992 04 28    13 32.63   -06 22.5    1.605    2.592   165.4     5.6    18.0

1992 04 08    13 52.85   -05 02.7    1.478    2.468   168.7     4.6    16.7
- 9.50 -0.53  + 57.2 - 0.2   1990 VB15   19505   - 9.28 +0.63  + 43.1 - 6.7
1992 04 28    13 32.90   -03 15.9    1.487    2.469   163.5     6.6    16.8

1992 04 08    13 53.38   -14 47.5    1.581    2.566   166.6     5.2    17.3
-10.00 -0.51  + 33.8 + 5.0   1990 TS     17217   - 9.70 +0.64  + 43.0 - 0.7
1992 04 28    13 32.53   -13 24.9    1.591    2.584   167.8     4.7    17.3

1992 04 08    13 53.18   -05 25.6    1.740    2.729   168.7     4.1    17.8
- 8.83 -0.53  + 70.1 + 0.8   1986 RR2    11349   - 8.96 +0.47  + 60.1 - 5.7
1992 04 28    13 34.40   -03 08.8    1.719    2.701   163.7     6.0    17.8

1992 04 08    13 54.95   -16 41.4    1.088    2.072   165.2     7.1    15.9
-10.15 -0.77    +1.2 + 7.4   2272 T-2    18133   -10.01 +0.83  + 20.4 + 1.6
1992 04 28    13 33.21   -16 14.0    1.091    2.087   167.9     5.8    15.8

1992 04 08    13 54.12   -03 43.1    1.500    2.488   168.1     4.8    17.5
- 9.43 -0.55  + 62.2 - 0.8   1990 VG3    17460   - 9.32 +0.60  + 45.3 - 7.4
1992 04 28    13 34.21   -01 49.0    1.504    2.484   162.8     6.9    17.6

1992 04 08    13 53.63   -13 01.6    1.347    2.334   167.5     5.3    18.4
- 8.08 -0.66  + 75.5 + 6.0   1981 EE14   15241   - 8.30 +0.55  + 82.8 - 2.7
1992 04 28    13 36.05   -10 14.6    1.316    2.310   167.9     5.2    18.3

1992 04 08    13 55.50   -09 18.4    1.922    2.910   168.2     4.1    17.8
- 9.33 -0.49  + 33.7 + 1.8    (4895)     18612   - 9.39 +0.46  + 32.1 - 2.7
1992 04 28    13 35.83   -08 08.2    1.912    2.902   167.0     4.5    17.8

1992 04 08    13 55.77   -02 38.6    1.377    2.364   167.3     5.3    16.6
- 9.15 -0.55  + 64.6 - 1.9   1985 CA2    17203   - 8.90 +0.65  + 42.5 - 8.7
1992 04 28    13 36.52   -00 44.8    1.399    2.378   162.3     7.4    16.7

1992 04 08    13 55.62   -10 52.5    1.902    2.889   167.8     4.2    17.5
- 8.68 -0.59  + 37.2 + 3.0   1989 YT     16435   - 9.18 +0.35  + 40.2 - 1.7
1992 04 28    13 36.83   -09 30.4    1.845    2.837   167.8     4.3    17.4

1992 04 08    13 55.02   -14 11.0    2.312    3.294   166.6     4.0    17.3
- 6.30 -0.37  + 29.6 + 3.2   1984 DE1    12942   - 6.38 +0.32  + 35.1 - 0.5
1992 04 28    13 41.65   -13 02.6    2.302    3.298   169.9     3.1    17.2

1992 04 08    14 05.58   -41 31.7    1.236    2.126   143.5    16.3    17.0
-14.85 -1.60  - 77.6 +20.6   1982 ST     17432   -16.70 +0.77  + 11.7 +21.7
1992 04 28    13 31.67   -42 38.8    1.193    2.123   149.5    13.9    16.8

1992 04 08    13 56.03   -16 17.7    0.801    1.788   165.3     8.2    16.0
- 6.56 -0.93  + 39.8 + 9.5   1933 FE1    13477   - 6.94 +0.75  + 59.4 - 0.4
1992 04 28    13 40.84   -14 28.7    0.785    1.785   169.8     5.7    15.8

1992 04 08    13 58.43   -08 46.8    1.397    2.385   167.5     5.2    17.0
- 8.80 -0.79  + 41.7 + 2.6   1981 JE2    16230   - 9.56 +0.43  + 39.8 - 3.7
1992 04 28    13 38.84   -07 18.9    1.346    2.338   167.2     5.5    16.9

1992 04 08    13 59.55   -19 58.9    1.663    2.634   162.2     6.7    17.9
- 9.43 -0.57  + 38.1 + 7.6    (4680)     17606   - 9.46 +0.55  + 58.1 + 1.9
1992 04 28    13 39.54   -18 17.0    1.657    2.652   168.8     4.2    17.8
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1992 04 08    13 57.78   -13 12.7    1.986    2.968   166.5     4.5    17.3
- 7.61 -0.50  + 78.7 + 4.8   1985 VN     17203   - 7.93 +0.35  + 85.4 - 1.6
1992 04 28    13 41.39   -10 22.2    1.942    2.937   169.2     3.7    17.2

1992 04 08    13 59.63   -00 45.6    1.592    2.574   165.7     5.5    16.9
- 8.75 -0.61  + 48.5 - 2.4   1991 AO3    18125   - 9.07 +0.46  + 27.4 - 7.9
1992 04 28    13 40.74   +00 35.7    1.579    2.555   161.9     7.0    16.9

1992 04 08    13 58.26   -05 28.0    2.030    3.015   167.5     4.1    17.3
- 7.78 -0.44  + 41.6 - 0.1   1991 AA1    17832   - 7.89 +0.38  + 32.5 - 4.4
1992 04 28    13 41.77   -04 09.6    2.029    3.015   165.8     4.7    17.3

1992 04 08    13 59.83   -22 45.7    1.222    2.190   160.2     8.9    15.7
- 8.50 -0.76  + 44.4 +11.5   1988 BB4    14792   - 8.71 +0.65  + 76.6 + 3.7
1992 04 28    13 41.21   -20 37.0    1.207    2.202   168.2     5.4    15.6

1992 04 08    14 00.55   -25 00.2    1.759    2.715   158.3     7.8    16.5
- 8.93 -0.65  + 10.4 + 9.2   3523 P-L    15256   - 9.35 +0.45  + 41.0 + 5.4
1992 04 28    13 41.18   -24 04.9    1.725    2.713   166.1     5.1    16.3

1992 04 08    13 57.74   +04 12.6    2.091    3.064   163.2     5.4    16.0
- 6.90 -0.38  + 61.0 - 4.4   1990 YH     17829   - 6.89 +0.38  + 34.4 - 8.6
1992 04 28    13 43.19   +05 52.2    2.121    3.076   157.7     7.1    16.1

1992 04 08    14 00.95   -10 38.7    1.866    2.849   166.6     4.7    17.9
- 8.78 -0.59  + 40.6 + 2.8   1982 UR6    19860   - 9.23 +0.37  + 42.2 - 2.1
1992 04 28    13 41.99   -09 10.9    1.831    2.825   168.8     4.0    17.8

1992 04 08    14 01.36   -04 31.2    1.478    2.463   166.5     5.4    17.7
- 8.65 -0.56  + 70.4 - 0.6   1988 BT3    17821   - 8.65 +0.55  + 53.5 - 7.5
1992 04 28    13 42.95   -02 20.4    1.497    2.483   164.6     6.2    17.8

1992 04 08    14 01.14   -07 01.7    1.902    2.886   166.9     4.5    17.6
- 7.41 -0.51  + 44.6 + 0.9   7633 P-L     7374   - 7.74 +0.35  + 38.3 - 4.0
1992 04 28    13 45.13   -05 33.9    1.884    2.875   167.3     4.4    17.6

1992 04 08    14 04.46   -11 52.3    1.334    2.317   165.4     6.2    17.9
- 9.53 -0.72  + 32.2 + 3.7   3151 T-2    17653   - 9.80 +0.59  + 35.5 - 2.3
1992 04 28    13 43.82   -10 38.5    1.336    2.333   169.8     4.4    17.9

1992 04 08    14 05.29   -13 15.7    1.182    2.164   164.8     7.0    15.6
- 9.26 -1.06  + 13.9 + 5.0   1979 SA8    11430   -10.74 +0.38  + 24.3 - 0.3
1992 04 28    13 43.84   -12 32.2    1.117    2.117   170.4     4.6    15.3

1992 04 08    14 02.43   -13 28.9    1.067    2.052   165.3     7.1    15.1
- 7.10 -0.70  +118.1 + 6.4   1990 UH     17455   - 7.14 +0.66  +117.5 - 6.7
1992 04 28    13 46.83   -09 20.2    1.083    2.082   169.9     4.8    15.1

1992 04 08    14 01.78   -09 31.6    2.543    3.525   166.6     3.8    17.1
- 6.82 -0.41  + 36.6 + 1.6   1971 SN2    15401   - 7.18 +0.23  + 36.0 - 1.9
1992 04 28    13 47.14   -08 15.4    2.507    3.502   169.4     3.0    17.0

1992 04 08    14 06.27   -17 16.6    1.381    2.356   162.7     7.3    16.0
- 9.47 -0.74  + 33.6 + 7.0   1990 UW     17456   - 9.84 +0.56  + 50.3 + 0.8
1992 04 28    13 45.65   -15 46.6    1.375    2.374   170.9     3.8    15.8

1992 04 08    14 05.09   -11 00.5    1.264    2.248   165.5     6.4    18.3
- 8.62 -0.67  + 69.8 + 3.5   1979 ME8     5847   - 8.71 +0.61  + 67.1 - 4.9
1992 04 28    13 46.47   -08 35.2    1.282    2.279   169.5     4.6    18.2
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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1992 04 08 | 14 04.62 | -10 17.8 | 1.902 | 2.883 | 165.8 | 4.9 | 16.7 |
| - 7.50 -0.53 | + 34.3 + 2.1 | 1991 AC | 17830 | - 7.88 +0.34 | + 34.0 - 2.3 | | |
| 1992 04 28 | 13 48.37 | -09 05.0 | 1.889 | 2.886 | 170.1 | 3.4 | 16.6 |
| 1992 04 08 | 14 04.43 | -00 08.6 | 2.373 | 3.348 | 164.3 | 4.6 | 16.2 |
| - 6.99 -0.40 | + 34.7 - 2.2 | (4870) | 18408 | - 7.21 +0.29 | + 18.8 - 5.5 | | |
| 1992 04 28 | 13 49.55 | +00 48.1 | 2.384 | 3.359 | 162.9 | 5.1 | 16.2 |
| 1992 04 08 | 14 04.81 | -00 08.7 | 2.136 | 3.112 | 164.2 | 5.0 | 15.6 |
| - 7.45 -0.49 | + 31.8 - 2.3 | (4717) | 17620 | - 7.88 +0.28 | + 14.9 - 6.0 | | |
| 1992 04 28 | 13 48.70 | +00 41.6 | 2.118 | 3.095 | 162.9 | 5.5 | 15.6 |
| 1992 04 08 | 14 06.01 | -07 59.4 | 2.047 | 3.028 | 165.7 | 4.7 | 17.3 |
| - 8.32 -0.50 | + 33.0 + 0.9 | 1981 SA7 | 14188 | - 8.60 +0.35 | + 28.7 - 3.1 | | |
| 1992 04 28 | 13 48.24 | -06 53.7 | 2.046 | 3.041 | 168.8 | 3.7 | 17.2 |
| 1992 04 08 | 14 04.88 | -05 02.8 | 1.047 | 2.033 | 165.8 | 7.0 | 15.7 |
| - 6.62 -0.95 | + 78.3 + 1.8 | 1988 EN | 13153 | - 7.80 +0.40 | + 64.5 - 8.6 | | |
| 1992 04 28 | 13 49.10 | -02 29.6 | 1.001 | 1.992 | 165.6 | 7.2 | 15.5 |
| 1992 04 08 | 14 04.76 | -12 08.0 | 1.929 | 2.908 | 165.3 | 5.0 | 17.2 |
| - 6.77 -0.55 | + 39.3 + 3.2 | 1978 VJ8 | 17954 | - 7.30 +0.29 | + 43.0 - 1.5 | | |
| 1992 04 28 | 13 49.86 | -10 41.1 | 1.895 | 2.894 | 171.2 | 3.0 | 17.0 |
| 1992 04 08 | 14 07.90 | -14 46.8 | 1.299 | 2.277 | 163.6 | 7.1 | 17.4 |
| - 8.34 -0.97 | + 29.1 + 6.2 | 1981 JS2 | 16230 | - 9.75 +0.32 | + 43.5 + 0.5 | | |
| 1992 04 28 | 13 48.52 | -13 28.6 | 1.231 | 2.232 | 171.7 | 3.8 | 17.0 |
| 1992 04 08 | 14 05.05 | -12 47.6 | 2.670 | 3.646 | 165.0 | 4.1 | 18.3 |
| - 6.84 -0.40 | + 37.8 + 2.6 | 1978 TO8 | 12949 | - 7.20 +0.22 | + 41.6 - 0.8 | | |
| 1992 04 28 | 13 50.40 | -11 24.8 | 2.639 | 3.638 | 171.6 | 2.3 | 18.2 |
| 1992 04 08 | 14 09.99 | -00 17.8 | 1.436 | 2.412 | 163.1 | 6.9 | 16.5 |
| - 9.51 -0.70 | + 28.6 - 3.6 | 1983 WL | 17434 | - 9.88 +0.51 | +4.5 - 8.1 | | |
| 1992 04 28 | 13 49.39 | +00 19.8 | 1.448 | 2.430 | 163.3 | 6.8 | 16.5 |
| 1992 04 08 | 14 09.01 | -20 06.5 | 1.451 | 2.418 | 160.5 | 8.0 | 16.9 |
| - 8.55 -0.75 | + 51.4 + 8.8 | 1983 WM | 17434 | - 9.10 +0.47 | + 74.0 + 1.9 | | |
| 1992 04 28 | 13 50.14 | -17 54.2 | 1.432 | 2.432 | 171.3 | 3.6 | 16.7 |
| 1992 04 08 | 14 10.63 | -26 25.7 | 1.514 | 2.462 | 155.8 | 9.6 | 16.9 |
| - 9.78 -0.82 | +8.0 +11.1 | (4705) | 17615 | -10.43 +0.50 | + 45.5 + 6.8 | | |
| 1992 04 28 | 13 49.10 | -25 28.0 | 1.496 | 2.485 | 166.2 | 5.5 | 16.7 |
| 1992 04 08 | 14 10.48 | -05 19.0 | 1.577 | 2.556 | 164.4 | 6.0 | 17.9 |
| - 9.11 -0.69 | + 48.4 0.0 | 1980 XX | 17429 | - 9.69 +0.41 | + 36.8 - 5.7 | | |
| 1992 04 28 | 13 50.58 | -03 48.1 | 1.569 | 2.560 | 166.9 | 5.1 | 17.8 |
| 1992 04 08 | 14 07.55 | -22 22.1 | 1.965 | 2.923 | 159.2 | 7.0 | 15.3 |
| - 6.86 -0.59 | + 44.2 + 7.8 | 1988 PK1 | 17823 | - 7.50 +0.28 | + 67.2 + 3.2 | | |
| 1992 04 28 | 13 52.31 | -20 26.1 | 1.913 | 2.911 | 170.4 | 3.3 | 15.1 |
| 1992 04 08 | 14 11.37 | -03 32.2 | 1.237 | 2.217 | 163.9 | 7.2 | 16.3 |
| - 8.54 -0.80 | + 52.9 - 1.4 | (4689) | 17609 | - 9.13 +0.51 | + 32.8 - 8.3 | | |
| 1992 04 28 | 13 52.40 | -01 59.6 | 1.243 | 2.232 | 165.7 | 6.4 | 16.3 |
| 1992 04 08 | 14 09.73 | -12 29.4 | 2.341 | 3.315 | 164.0 | 4.8 | 17.4 |
| - 6.56 -0.48 | + 58.2 + 3.2 | 1981 ES8 | 14187 | - 7.08 +0.22 | + 61.9 - 1.4 | | |
| 1992 04 28 | 13 55.41 | -10 24.7 | 2.307 | 3.307 | 172.3 | 2.3 | 17.2 |

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1992 04 08    14 10.05   -09 11.1    1.828    2.806   164.6     5.4    16.0
- 6.48 -0.62  + 42.8 + 2.1    (4751)     17813   - 7.29 +0.23  + 41.3 - 2.9
1992 04 28    13 55.43   -07 42.0    1.784    2.782   170.7     3.4    15.8

1992 04 08    14 13.81   -05 05.2    2.061    3.035   163.6     5.4    17.6
- 8.55 -0.63  + 33.6   0.0   1939 VD     16227   - 9.40 +0.23  + 25.4 - 4.1
1992 04 28    13 55.00   -04 02.1    2.020    3.011   167.7     4.1    17.5

1992 04 08    14 11.73   -19 03.1    1.421    2.389   160.6     8.0    16.2
- 6.69 -0.85  + 81.1 +10.1   1989 UT2    15719   - 7.90 +0.28  +107.2 + 2.1
1992 04 28    13 56.01   -15 46.8    1.351    2.354   173.3     2.8    15.8

1992 04 08    14 13.75   -12 59.9    2.020    2.992   162.9     5.6    17.9
- 7.79 -0.64    +7.5 + 2.8   4854 T-1    19881   - 8.68 +0.21  + 13.1 - 0.2
1992 04 28    13 56.43   -12 36.3    1.976    2.978   173.4     2.2    17.6

1992 04 08    14 12.90   -11 43.2    2.370    3.342   163.5     4.9    16.8
- 7.15 -0.46  + 30.3 + 2.1   1990 YL     17830   - 7.56 +0.25  + 32.0 - 1.3
1992 04 28    13 57.49   -10 37.5    2.371    3.373   172.9     2.1    16.7

1992 04 08    14 17.01   -09 48.4    1.365    2.340   162.8     7.3    16.6
- 9.32 -0.95  - 20.1 + 1.1   1952 SW1    19288   -10.63 +0.34  - 20.4 - 1.4
1992 04 28    13 55.77   -10 26.4    1.335    2.337   172.4     3.3    16.3

1992 04 08    14 14.38   -09 53.8    1.786    2.760   163.5     5.9    16.7
- 6.63 -0.62  + 35.5 + 2.0   9508 P-L    19876   - 7.38 +0.26  + 34.2 - 2.7
1992 04 28    13 59.48   -08 39.5    1.769    2.770   172.0     2.9    16.5

1992 04 08    14 18.32   -17 33.1    1.673    2.637   160.1     7.4    17.8
- 8.47 -0.87  + 31.3 + 6.5   1982 QK3    13593   - 9.89 +0.20  + 49.3 + 2.0
1992 04 28    13 58.90   -16 08.1    1.604    2.607   173.9     2.3    17.4

1992 04 08    14 18.01   -05 29.4    1.327    2.302   162.6     7.5    17.5
- 8.37 -0.89  + 10.6 - 0.8   4327 T-3    13304   - 9.49 +0.35    -1.4 - 5.1
1992 04 28    13 58.91   -05 15.8    1.312    2.309   169.3     4.6    17.3

1992 04 08    14 27.00   -29 40.6    1.295    2.225   150.9    12.6    16.5
-14.04 -1.21  - 75.4 +14.4   1981 GP     13167   -15.13 +0.69  - 15.9 +13.8
1992 04 28    13 55.92   -31 11.2    1.320    2.298   161.9     7.8    16.5

1992 04 08    14 18.72   -07 52.9    1.500    2.474   162.5     7.0    16.4
- 8.20 -0.82  + 62.8 + 2.1   1988 BJ4    17634   - 9.31 +0.29  + 57.4 - 4.8
1992 04 28    14 00.10   -05 45.9    1.472    2.470   169.9     4.1    16.2

1992 04 08    14 19.77   -31 34.9    1.911    2.826   150.5    10.0    14.8
- 8.47 -0.93    -9.5 +10.4   1949 PN     17953   -10.15 +0.13  + 31.7 + 9.5
1992 04 28    14 00.10   -31 11.7    1.817    2.793   162.2     6.3    14.5

1992 04 08    14 20.20   -07 49.2    1.648    2.619   162.2     6.7    18.2
- 8.75 -0.84  + 41.0 + 1.6   1982 JE1    10938   -10.04 +0.22  + 37.0 - 3.7
1992 04 28    14 00.35   -06 25.9    1.602    2.600   170.5     3.7    17.9

1992 04 08    14 19.39   -03 51.7    1.508    2.480   162.0     7.2    17.9
- 7.79 -0.91  + 67.7 + 0.8   1978 NU3    11835   - 9.39 +0.15  + 56.0 - 6.6
1992 04 28    14 01.14   -01 40.7    1.443    2.433   166.4     5.6    17.7

1992 04 08    14 20.11   +28 55.7    1.576    2.430   139.9    15.4    16.8
- 8.07 -0.97  +121.4 -15.9   1989 NX     17824   - 9.66 +0.22  + 41.6 -22.8
1992 04 28    14 01.20   +31 45.6    1.567    2.378   133.8    17.8    16.8
```

1992 04 08 14 19.33 -17 08.7 1.419 2.385 160.1 8.2 16.3
- 7.79 -0.82 + 47.9 + 6.7 1982 TP1 17200 - 8.73 +0.36 + 62.9 + 0.3
1992 04 28 14 01.62 -15 11.5 1.407 2.412 174.8 2.2 16.0

1992 04 08 14 17.25 -13 07.5 1.929 2.898 162.1 6.1 16.1
- 6.63 -0.60 + 37.4 + 3.2 (4779) 18092 - 7.37 +0.24 + 41.9 - 1.2
1992 04 28 14 02.42 -11 43.7 1.916 2.919 174.5 1.9 15.9

1992 04 08 14 19.43 -19 13.8 2.603 3.556 159.0 5.8 18.1
- 6.81 -0.54 + 20.1 + 4.5 9073 P-L 15571 - 7.69 +0.12 + 33.6 + 2.0
1992 04 28 14 04.27 -18 17.5 2.540 3.543 174.0 1.7 17.8

1992 04 08 14 19.63 +13 46.8 3.213 4.127 152.5 6.4 18.1
- 6.59 -0.40 + 42.3 - 5.3 1983 WF1 9687 - 7.17 +0.12 + 15.2 - 7.9
1992 04 28 14 05.35 +14 46.9 3.205 4.112 150.7 6.9 18.1

1992 04 08 14 23.14 -16 50.6 1.797 2.757 159.4 7.4 18.5
- 8.21 -0.85 + 30.7 + 5.7 1978 PX2 8797 - 9.70 +0.14 + 46.2 + 1.6
1992 04 28 14 04.24 -15 29.6 1.726 2.730 175.3 1.7 18.1

1992 04 08 14 24.10 -10 40.1 1.623 2.591 161.0 7.2 17.2
- 8.67 -0.86 + 38.1 + 2.9 (4692) 17610 - 9.99 +0.22 + 39.9 - 2.2
1992 04 28 14 04.36 -09 17.0 1.586 2.588 173.3 2.6 16.9

1992 04 08 14 23.79 +08 45.1 1.956 2.896 155.3 8.3 15.8
- 7.92 -0.70 + 49.9 - 6.0 1991 AJ1 17832 - 9.02 +0.17 + 15.8 -10.6
1992 04 28 14 05.98 +09 55.5 1.932 2.879 155.5 8.3 15.8

1992 04 08 14 21.92 -14 00.2 2.531 3.491 160.7 5.4 17.8
- 6.74 -0.50 + 30.4 + 2.8 (4778) 18092 - 7.44 +0.16 + 35.6 - 0.3
1992 04 28 14 07.09 -12 51.0 2.511 3.516 176.0 1.2 17.5

1992 04 08 14 24.18 -08 05.4 0.912 1.888 161.2 9.8 15.0
- 7.02 -1.33 -3.4 + 0.3 7637 P-L 18642 - 9.43 +0.21 - 11.7 - 4.5
1992 04 28 14 06.18 -08 15.6 0.868 1.872 172.8 3.9 14.6

1992 04 08 14 24.97 -18 18.0 1.869 2.824 158.3 7.5 17.7
- 8.18 -0.80 + 35.0 + 6.2 1986 XF1 17959 - 9.53 +0.16 + 52.3 + 2.0
1992 04 28 14 06.29 -16 46.6 1.810 2.815 175.3 1.7 17.2

1992 04 08 14 25.86 -22 11.9 1.431 2.382 156.1 9.8 16.9
- 8.15 -1.14 + 28.8 + 9.9 1986 TK1 15886 -10.42 +0.07 + 62.3 + 6.0
1992 04 28 14 06.08 -20 36.9 1.337 2.339 172.4 3.2 16.4

1992 04 08 14 38.34 -31 01.8 1.185 2.104 148.3 14.5 16.6
-13.57 -2.10 -126.3 +10.0 1987 SJ3 15888 -18.56 -0.18 - 67.1 +18.3
1992 04 28 14 04.29 -34 23.5 1.112 2.085 159.4 9.8 16.3

1992 04 08 14 22.21 -13 18.0 1.980 2.944 160.9 6.4 17.9
- 6.33 -0.69 + 35.7 + 3.6 3220 T-3 19883 - 7.54 +0.11 + 42.3 - 0.5
1992 04 28 14 07.53 -11 55.8 1.918 2.923 175.6 1.5 17.5

1992 04 08 14 25.33 -14 14.5 1.911 2.872 159.9 6.9 18.0
- 8.11 -0.73 + 44.6 + 4.3 1990 YQ 17650 - 9.23 +0.19 + 52.8 - 0.4
1992 04 28 14 07.07 -12 32.4 1.874 2.879 175.8 1.5 17.7

1992 04 08 14 27.10 -33 44.1 1.982 2.880 147.9 10.7 16.3
- 8.78 -1.00 - 22.8 +10.4 (4860) 18404 -10.76 +0.06 + 20.4 +10.4
1992 04 28 14 06.49 -33 46.5 1.890 2.858 160.1 6.9 16.0

1992 04 08 14 34.59 -34 17.1 2.004 2.892 146.5 11.0 17.5
-11.37 -1.04 - 34.3 +11.2 1990 WZ2 18825 -13.17 +0.19 + 12.1 +11.1
1992 04 28 14 08.82 -34 39.2 1.963 2.927 159.3 7.0 17.3

1992 04 08 14 27.32 -11 22.2 1.465 2.431 160.1 8.1 17.3
- 7.05 -0.88 + 52.5 + 3.6 1136 T-2 17976 - 8.47 +0.20 + 54.6 - 2.7
1992 04 28 14 10.71 -09 28.7 1.439 2.443 174.4 2.3 17.0

1992 04 08 14 21.65 -09 25.7 4.558 5.518 161.7 3.3 17.3
- 4.34 -0.27 + 24.5 + 0.7 1973 SH1 17197 - 4.79 +0.05 + 23.9 - 1.0
1992 04 28 14 12.21 -08 35.6 4.521 5.523 173.8 1.1 17.2

1992 04 08 14 28.76 -28 48.9 2.166 3.082 151.3 9.0 16.7
- 7.14 -0.74 + 12.1 + 8.6 1991 AF1 17832 - 8.44 +0.12 + 43.2 + 6.4
1992 04 28 14 12.31 -27 51.3 2.108 3.095 166.1 4.5 16.5

1992 04 08 14 33.03 -12 26.8 1.893 2.849 158.5 7.4 18.2
- 8.09 -0.80 + 34.4 + 3.2 1986 TL4 11436 - 9.50 +0.12 + 39.3 - 1.0
1992 04 28 14 14.52 -11 08.8 1.854 2.860 176.3 1.3 17.8

1992 04 08 14 31.98 -06 50.1 1.327 2.291 159.2 8.9 17.5
- 7.16 -0.99 + 72.4 + 1.5 1981 EF30 17431 - 8.83 +0.19 + 62.6 - 6.4
1992 04 28 14 14.81 -04 27.2 1.307 2.306 170.1 4.3 17.3

1992 04 08 14 34.38 -15 40.3 1.441 2.396 157.3 9.3 18.3
- 7.91 -1.19 + 41.3 + 6.8 4116 P-L 14628 -10.60 -0.07 + 59.7 + 1.8
1992 04 28 14 14.75 -13 54.3 1.340 2.346 178.0 0.8 17.6

1992 04 08 14 30.88 -13 57.5 1.007 1.974 158.7 10.6 16.1
- 6.11 -1.20 + 87.0 + 7.6 1990 UF2 18823 - 8.16 +0.22 + 96.4 - 3.3
1992 04 28 14 15.18 -10 43.2 0.984 1.989 176.1 2.0 15.6

1992 04 08 14 26.85 -25 19.5 4.667 5.584 154.0 4.5 17.4
- 4.74 -0.32 +6.2 + 3.4 (5025) 19489 - 5.35 +0.03 + 18.2 + 2.4
1992 04 28 14 16.41 -24 54.1 4.596 5.588 169.2 1.9 17.2

1992 04 08 14 30.56 -12 40.8 1.850 2.808 159.1 7.3 15.2
- 5.97 -0.73 + 66.0 + 3.9 1010 T-2 15906 - 7.24 +0.11 + 70.4 - 1.9
1992 04 28 14 16.52 -10 18.7 1.817 2.822 175.8 1.5 14.8

1992 04 08 14 33.05 -18 47.7 2.167 3.110 156.4 7.4 16.4
- 7.26 -0.71 +0.8 + 4.5 (4716) 17619 - 8.53 +0.10 + 15.1 + 2.3
1992 04 28 14 16.45 -18 29.6 2.133 3.138 175.4 1.5 16.0

1992 04 08 14 33.73 -21 31.8 1.069 2.021 154.9 12.1 17.9
- 6.60 -1.37 +1.5 + 9.7 1981 ED14 10539 - 9.40 +0.05 + 35.1 + 6.2
1992 04 28 14 16.31 -20 51.7 1.011 2.014 173.2 3.4 17.4

1992 04 08 14 33.90 -28 39.4 2.249 3.160 150.6 9.0 16.6
- 7.37 -0.78 -6.1 + 7.8 1991 BH2 17969 - 8.87 +0.06 + 23.5 + 6.5
1992 04 28 14 16.81 -28 20.7 2.189 3.175 165.8 4.5 16.3

1992 04 08 14 37.04 -15 32.8 1.622 2.573 156.8 8.8 17.9
- 8.74 -1.00 + 22.5 + 4.9 6643 P-L 17651 -10.60 +0.11 + 35.1 + 1.0
1992 04 28 14 16.60 -14 31.3 1.577 2.583 178.5 0.6 17.4

1992 04 08 14 33.73 -13 21.9 2.216 3.168 158.1 6.8 18.2
- 7.27 -0.66 + 41.0 + 3.1 1985 QH5 14350 - 8.40 +0.11 + 46.2 - 0.7
1992 04 28 14 17.29 -11 50.8 2.187 3.194 177.3 0.9 17.9

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1992 04 08 | 14 36.64 | -05 56.6 | 1.407 | 2.366 | 158.0 | 9.1 | 16.7 | |
| - 8.46 -0.80 | +144.4 - 0.5 | 1988 EF | 13054 | - 9.29 +0.38 | +119.9 | -11.3 | | |
| 1992 04 28 | 14 17.71 | -01 21.6 | 1.457 | 2.449 | 167.1 | 5.3 | 16.7 | |
| 1992 04 08 | 14 35.49 | -20 33.9 | 2.049 | 2.987 | 155.1 | 8.1 | 18.5 | |
| - 7.43 -0.81 | + 21.7 + 6.0 | 1985 SX2 | 14194 | - 9.01 +0.05 | + 40.9 | + 3.1 | | |
| 1992 04 28 | 14 18.19 | -19 28.4 | 1.986 | 2.990 | 174.6 | 1.8 | 18.1 | |
| 1992 04 08 | 14 36.73 | -04 47.7 | 1.181 | 2.143 | 157.9 | 10.1 | 18.2 | |
| - 7.52 -1.16 | +183.5 + 4.2 | 7082 P-L | 17652 | - 9.65 +0.15 | +167.2 | -12.4 | | |
| 1992 04 28 | 14 18.25 | +01 19.5 | 1.156 | 2.143 | 164.4 | 7.2 | 18.0 | |
| 1992 04 08 | 14 29.27 | -19 37.4 | 4.867 | 5.800 | 156.8 | 3.9 | 18.1 | |
| - 4.16 -0.29 | + 33.5 + 2.6 | 1987 YU1 | 16428 | - 4.71 +0.02 | + 40.9 | + 1.0 | | |
| 1992 04 28 | 14 20.09 | -18 21.4 | 4.798 | 5.803 | 175.8 | 0.7 | 17.8 | |
| 1992 04 08 | 14 34.52 | +04 03.6 | 2.500 | 3.437 | 155.7 | 6.9 | 15.5 | |
| - 6.45 -0.59 | + 36.9 - 3.3 | 1991 CC | 17969 | - 7.54 +0.05 | + 16.5 | - 6.7 | | |
| 1992 04 28 | 14 19.89 | +05 00.4 | 2.473 | 3.439 | 160.8 | 5.5 | 15.4 | |
| 1992 04 08 | 14 33.68 | -09 45.3 | 1.868 | 2.824 | 158.8 | 7.4 | 17.1 | |
| - 5.60 -0.77 | + 52.9 + 2.5 | 2570 P-L | 12698 | - 7.13 +0.03 | + 52.9 | - 2.6 | | |
| 1992 04 28 | 14 20.15 | -07 54.3 | 1.814 | 2.817 | 173.7 | 2.3 | 16.8 | |
| 1992 04 08 | 14 36.46 | -11 47.3 | 1.133 | 2.094 | 157.8 | 10.4 | 17.5 | |
| - 5.94 -1.33 | + 52.7 + 5.9 | 1981 EO20 | 16228 | - 9.07 -0.14 | + 62.7 | - 1.5 | | |
| 1992 04 28 | 14 20.26 | -09 44.6 | 1.042 | 2.047 | 175.5 | 2.2 | 16.9 | |
| 1992 04 08 | 14 37.03 | -09 29.5 | 2.081 | 3.033 | 158.0 | 7.1 | 17.3 | |
| - 6.94 -0.75 | + 46.1 + 2.1 | 1991 AD2 | 18125 | - 8.46 +0.03 | + 46.0 | - 2.3 | | |
| 1992 04 28 | 14 20.85 | -07 53.0 | 2.026 | 3.028 | 173.7 | 2.1 | 17.0 | |
| 1992 04 08 | 14 30.49 | -14 27.9 | 4.279 | 5.224 | 158.6 | 4.0 | 17.1 | |
| - 4.25 -0.33 | + 27.6 + 1.8 | 1973 SQ1 | 14343 | - 4.90 +0.01 | + 31.4 | + 0.1 | | |
| 1992 04 28 | 14 21.00 | -13 27.1 | 4.214 | 5.221 | 179.1 | 0.2 | 16.8 | |
| 1992 04 08 | 14 38.39 | -18 50.6 | 1.042 | 1.996 | 155.2 | 12.1 | 18.3 | |
| - 6.47 -1.33 | + 25.9 + 8.7 | 1981 EO11 | 10761 | - 9.03 +0.12 | + 50.6 | + 2.9 | | |
| 1992 04 28 | 14 21.45 | -17 28.2 | 1.011 | 2.017 | 176.7 | 1.6 | 17.8 | |
| 1992 04 08 | 14 38.83 | -35 05.3 | 2.498 | 3.369 | 145.3 | 9.7 | 16.3 | |
| - 7.31 -0.83 | - 19.1 + 8.6 | 1991 BY | 17968 | - 9.08 -0.02 | + 16.3 | + 8.6 | | |
| 1992 04 28 | 14 21.64 | -35 08.0 | 2.416 | 3.376 | 159.1 | 6.1 | 16.0 | |
| 1992 04 08 | 14 39.54 | -20 49.5 | 2.048 | 2.981 | 154.1 | 8.4 | 17.4 | |
| - 7.14 -0.87 | + 16.6 + 6.0 | 1989 TB11 | 16236 | - 9.02 -0.03 | + 36.5 | + 3.5 | | |
| 1992 04 28 | 14 22.55 | -19 53.9 | 1.965 | 2.968 | 174.3 | 1.9 | 17.0 | |
| 1992 04 28 | 14 23.83 | -11 18.5 | 1.393 | 2.399 | 177.1 | 1.2 | 15.7 | |
| - 9.27 -0.04 | + 26.2 - 1.0 | (4753) | 17813 | - 4.79 +1.31 | +0.6 | - 6.6 | | |
| 1992 05 28 | 14 00.26 | -10 28.0 | 1.490 | 2.389 | 144.6 | 14.2 | 16.5 | |
| 1992 04 28 | 14 24.62 | -14 39.5 | 2.163 | 3.169 | 179.4 | 0.2 | 17.2 | |
| - 7.84 +0.05 | + 37.3 + 0.5 | 1991 BM2 | 18436 | - 4.55 +0.92 | + 23.6 | - 4.5 | | |
| 1992 05 28 | 14 04.44 | -12 58.9 | 2.324 | 3.217 | 146.4 | 10.0 | 18.0 | |
| 1992 04 28 | 14 25.19 | -13 15.2 | 2.601 | 3.608 | 178.9 | 0.3 | 16.9 | |
| - 7.15 -0.02 | + 45.2 + 0.3 | 1983 XG | 13675 | - 4.69 +0.76 | + 31.5 | - 4.4 | | |
| 1992 05 28 | 14 06.00 | -11 11.5 | 2.699 | 3.586 | 146.2 | 9.1 | 17.5 | |

1992 04 28 14 26.78 -33 39.5 1.835 2.804 160.5 6.9 17.1
- 9.94 -0.01 + 46.6 +10.4 1987 BS1 17959 - 5.52 +1.26 + 78.0 - 0.6
1992 05 28 14 01.25 -30 12.3 1.923 2.831 147.6 11.1 17.4

1992 04 28 14 26.97 -13 49.8 2.654 3.661 178.9 0.3 17.2
- 7.46 -0.03 + 33.0 + 0.4 1988 RD5 18290 - 5.05 +0.75 + 22.1 - 3.8
1992 05 28 14 06.76 -12 19.5 2.755 3.645 146.7 8.8 17.8

1992 04 28 14 27.72 -19 46.6 2.582 3.585 174.3 1.6 17.0
- 7.65 -0.04 + 33.0 + 2.6 1980 FR1 19291 - 5.09 +0.80 + 32.8 - 2.6
1992 05 28 14 07.08 -17 58.3 2.679 3.582 148.4 8.5 17.5

1992 04 28 14 28.44 -14 27.3 4.282 5.288 178.6 0.3 17.3
- 5.25 -0.02 + 15.8 + 0.3 1973 SR1 16421 - 3.86 +0.45 + 10.5 - 1.9
1992 05 28 14 13.91 -13 43.8 4.404 5.297 148.9 5.7 17.8

1992 04 28 14 30.61 -24 58.2 2.386 3.380 169.1 3.2 16.5
- 7.50 -0.02 + 63.1 + 4.8 (4840) 18276 - 4.63 +0.86 + 68.8 - 2.8
1992 05 28 14 10.79 -21 26.3 2.486 3.401 149.8 8.6 16.8

1992 04 28 14 31.20 -20 04.0 1.253 2.257 173.8 2.8 16.0
-10.49 -0.20 -0.7 + 4.9 1988 GS 13598 - 5.83 +1.50 +6.2 - 2.8
1992 05 28 14 03.58 -19 41.5 1.327 2.251 147.9 13.8 16.7

1992 04 28 14 32.95 -13 19.2 1.137 2.144 177.4 1.2 15.6
- 9.41 -0.09 + 25.2 0.0 1988 EB1 13161 - 4.46 +1.46 +2.3 - 6.7
1992 05 28 14 09.30 -12 25.5 1.250 2.173 147.4 14.6 16.5

1992 04 28 14 33.23 -05 32.7 1.456 2.456 171.0 3.7 16.2
- 9.70 -0.05 + 51.4 - 4.7 (4703) 17615 - 5.47 +1.24 +5.3 - 9.2
1992 05 28 14 08.08 -03 59.4 1.588 2.476 143.4 14.1 16.9

1992 04 28 14 33.81 -25 25.1 2.482 3.474 168.5 3.3 17.0
- 9.05 -0.13 + 27.4 + 5.1 1989 TH1 15422 - 6.48 +0.88 + 41.2 - 0.9
1992 05 28 14 08.66 -23 31.0 2.538 3.450 149.5 8.6 17.3

1992 04 28 14 34.09 -05 13.5 1.734 2.732 170.6 3.4 17.9
- 8.10 -0.15 + 71.4 - 3.4 1980 RE1 16576 - 5.10 +1.02 + 28.9 - 9.4
1992 05 28 14 12.15 -02 32.0 1.805 2.688 143.4 13.0 18.4

1992 04 28 14 34.28 -01 58.4 1.860 2.851 167.5 4.4 16.1
- 7.97 -0.03 + 69.7 - 5.8 (4695) 17611 - 4.72 +0.96 + 19.3 - 9.5
1992 05 28 14 13.44 +00 21.7 2.019 2.886 142.0 12.5 16.7

1992 04 28 14 34.18 -02 19.0 1.720 2.713 167.8 4.5 17.7
- 8.26 -0.23 + 54.5 - 4.6 1978 NN1 8148 - 5.58 +1.02 +7.7 - 9.7
1992 05 28 14 11.12 -00 36.4 1.746 2.621 142.1 13.7 18.1

1992 04 28 14 35.56 -27 15.8 1.938 2.926 166.6 4.6 17.0
- 8.44 -0.14 + 35.4 + 6.8 5200 T-2 17978 - 5.27 +1.04 + 53.3 - 1.3
1992 05 28 14 12.82 -24 47.6 2.007 2.932 150.5 9.8 17.3

1992 04 28 14 36.67 -17 08.7 1.328 2.333 175.5 1.9 15.7
- 9.81 -0.19 + 60.7 + 3.2 1983 TN1 13170 - 5.60 +1.36 + 47.2 - 7.0
1992 05 28 14 10.71 -14 08.0 1.405 2.329 148.2 13.2 16.3

1992 04 28 14 37.65 -13 24.3 1.890 2.896 176.3 1.3 16.4
- 7.96 -0.15 + 43.7 + 0.5 1989 VR 15720 - 5.17 +0.96 + 27.0 - 5.5
1992 05 28 14 15.93 -11 27.4 1.970 2.883 148.5 10.6 16.9

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1992 04 28    14 38.55   -11 20.4    1.741    2.745   175.2     1.8    17.4
- 9.39 -0.10  + 48.4 - 0.8   1990 WS2    17647   - 5.92 +1.08  + 23.5 - 6.6
1992 05 28    14 13.41   -09 21.8    1.867    2.773   147.1    11.5    18.1

1992 04 28    14 38.30   -17 44.5    1.521    2.525   174.9     2.0    16.7
- 8.93 -0.35  + 82.4 + 5.2   1988 KC     13452   - 6.06 +1.17  + 77.9 - 6.5
1992 05 28    14 13.00   -13 22.4    1.501    2.424   148.5    12.6    17.1

1992 04 28    14 37.93   -15 14.3    1.736    2.741   176.2     1.4    16.0
- 7.78 -0.14  + 35.4 + 1.2    (4831)     18273   - 4.72 +1.02  + 22.6 - 4.9
1992 05 28    14 17.05   -13 36.1    1.832    2.754   149.5    10.8    16.6

1992 04 28    14 38.98   -19 38.0    1.396    2.399   173.3     2.8    17.4
-10.37 -0.35  + 38.0 + 5.1   1979 QT8    15877   - 6.83 +1.35  + 40.2 - 4.4
1992 05 28    14 10.05   -17 23.1    1.421    2.349   149.0    12.9    17.9

1992 04 28    14 40.27   -22 43.0    1.431    2.429   170.5     3.9    16.7
-10.71 -0.33  + 27.5 + 6.6    (4787)     18096   - 7.02 +1.36  + 40.3 - 2.8
1992 05 28    14 10.54   -20 43.9    1.471    2.401   149.7    12.3    17.1

1992 04 28    14 40.38   -12 36.9    2.675    3.680   175.4     1.2    17.9
- 7.46 -0.11  + 31.6   0.0   1989 WU2    16878   - 5.46 +0.70  + 19.2 - 3.8
1992 05 28    14 19.51   -11 13.7    2.774    3.682   149.2     8.1    18.4

1992 04 28    14 40.93   -01 15.7    1.198    2.190   166.3     6.2    17.4
- 8.67 -0.20  + 41.8 - 8.3   1984 CP     12800   - 4.67 +1.30  - 22.4 -11.0
1992 05 28    14 18.14   -00 41.6    1.301    2.201   143.6    15.9    17.9

1992 04 28    14 40.72   -16 18.0    2.019    3.024   175.2     1.6    18.1
- 7.74 -0.12  + 45.8 + 1.5   1981 GD1    12126   - 5.01 +0.90  + 35.3 - 4.6
1992 05 28    14 19.70   -14 05.1    2.131    3.053   150.3     9.5    18.7

1992 04 28    14 42.36   -21 10.6    1.425    2.425   171.6     3.5    18.0
-10.18 -0.16  + 43.5 + 5.1   1981 EK10   17627   - 6.00 +1.32  + 44.7 - 4.5
1992 05 28    14 15.36   -18 40.6    1.536    2.469   150.5    11.7    18.6

1992 04 28    14 40.69   -18 56.6    4.366    5.367   173.6     1.2    17.0
- 4.96 -0.06  + 27.3 + 1.3   1989 AU1    18816   - 3.81 +0.41  + 26.7 - 1.4
1992 05 28    14 26.65   -17 30.7    4.463    5.385   152.8     4.9    17.3

1992 04 28    14 41.12   -28 06.7    4.363    5.344   165.4     2.7    17.1
- 5.33 -0.08  + 26.2 + 3.3   1986 TR6    15067   - 4.11 +0.45  + 36.9 + 0.1
1992 05 28    14 26.00   -26 26.3    4.423    5.348   153.4     4.9    17.3

1992 04 28    14 45.20   -06 09.1    3.909    4.905   170.2     2.0    17.2
- 5.49 -0.10    +9.8 - 1.6   1989 BB1    18631   - 4.40 +0.43    -5.6 - 3.2
1992 05 28    14 29.38   -05 59.8    3.997    4.893   148.9     6.1    17.4

1992 04 28    14 47.13   -11 15.3    1.825    2.828   173.4     2.4    16.8
- 8.10 -0.23  + 38.1 - 0.7   6555 P-L    15727   - 5.59 +0.94  + 16.6 - 5.9
1992 05 28    14 24.45   -09 43.6    1.908    2.830   149.7    10.4    17.3

1992 04 28    14 48.26   -18 10.0    1.017    2.020   172.7     3.6    14.3
- 8.57 -0.36  + 81.4 + 4.5   1990 VE2    17644   - 4.44 +1.46  + 63.7 - 9.2
1992 05 28    14 25.38   -14 06.7    1.088    2.037   151.6    13.7    14.9

1992 04 28    14 49.89   -17 22.2    1.426    2.428   172.8     3.0    17.0
-10.61 -0.27  + 20.0 + 2.8   1981 CB1     8683   - 6.90 +1.29  + 15.8 - 4.1
1992 05 28    14 20.74   -16 15.6    1.534    2.471   151.2    11.4    17.6
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1992 04 28    14 49.36   +02 28.0    2.028    3.002   162.1     5.9    15.9
- 8.94 -0.20  + 20.5 - 6.8   1988 JV     15251   - 6.51 +0.89  - 27.3 - 8.0
1992 05 28    14 24.17   +02 19.7    2.140    3.011   142.9    11.7    16.3

1992 04 28    14 51.15   -22 43.3    2.394    3.388   169.1     3.2    17.6
- 8.07 -0.18  + 27.8 + 3.8   1978 TP6    12325   - 5.93 +0.80  + 35.1 - 1.6
1992 05 28    14 28.35   -20 59.0    2.496    3.435   153.8     7.5    17.9

1992 04 28    14 52.08   -18 14.1    1.719    2.720   171.9     3.0    17.2
- 9.12 -0.39  + 30.6 + 3.3   9540 P-L    18831   - 6.86 +1.03  + 30.0 - 3.5
1992 05 28    14 25.50   -16 30.5    1.745    2.684   152.3    10.1    17.5

1992 04 28    14 53.42   -19 39.5    1.599    2.598   170.9     3.5    15.6
- 9.30 -0.32  + 58.5 + 4.3   1990 XE     17648   - 6.44 +1.11  + 56.0 - 4.9
1992 05 28    14 27.16   -16 30.7    1.668    2.610   152.7    10.3    16.1

1992 04 28    14 55.85   -18 35.8    1.272    2.272   170.9     4.0    17.2
-10.21 -0.70  + 19.1 + 4.4   1981 ED37   16229   - 8.06 +1.30  + 22.8 - 3.7
1992 05 28    14 24.72   -17 18.0    1.248    2.197   152.4    12.4    17.4

1992 04 28    14 57.37   -28 38.8    1.468    2.450   163.5     6.7    17.3
-10.95 -0.43  + 31.3 + 9.7   1983 RM3    12964   - 7.59 +1.34  + 61.6 - 0.7
1992 05 28    14 26.28   -26 00.0    1.532    2.481   153.5    10.5    17.6

1992 04 28    14 55.33   -17 58.3    2.219    3.218   171.3     2.7    18.1
- 8.14 -0.24  + 34.3 + 2.2   1989 SL12   18118   - 6.14 +0.81  + 31.4 - 3.1
1992 05 28    14 31.99   -16 10.0    2.308    3.248   153.7     7.9    18.4

1992 04 28    14 56.22   -16 42.5    1.491    2.491   171.6     3.4    17.2
- 9.12 -0.50  + 62.6 + 3.6   1971 UK     10938   - 6.92 +1.11  + 54.8 - 6.1
1992 05 28    14 29.20   -13 28.4    1.495    2.438   152.3    11.2    17.5

1992 04 28    14 55.97   -04 00.6    2.318    3.307   166.9     3.9    16.2
- 7.75 -0.26  + 24.7 - 3.4    (4749)     17812   - 6.15 +0.72    -5.8 - 6.1
1992 05 28    14 33.31   -03 27.4    2.390    3.295   148.3     9.3    16.5

1992 04 28    14 56.72   -11 59.6    1.853    2.852   171.4     3.0    15.9
- 7.98 -0.31  + 36.7 - 0.3   1991 AX1    18635   - 5.94 +0.89  + 17.9 - 5.5
1992 05 28    14 33.63   -10 28.1    1.924    2.859   152.1     9.6    16.3

1992 04 28    14 56.80   -17 26.6    1.898    2.897   171.2     3.0    16.5
- 7.57 -0.34  + 26.4 + 2.3   1980 FB     10830   - 5.73 +0.86  + 23.2 - 3.3
1992 05 28    14 34.64   -16 02.0    1.942    2.889   154.3     8.7    16.8

1992 04 28    14 58.07   -04 18.7    1.763    2.753   166.8     4.8    16.3
- 9.07 -0.27  + 27.9 - 4.4   1942 CG     17622   - 6.58 +0.97  - 10.2 - 7.2
1992 05 28    14 32.30   -03 46.9    1.881    2.794   148.3    11.0    16.8

1992 04 28    14 55.10   -17 49.7    4.589    5.586   171.4     1.5    17.8
- 4.99 -0.13  + 16.3 + 1.0    (5012)     19288   - 4.26 +0.35  + 15.9 - 1.1
1992 05 28    14 40.34   -16 57.4    4.634    5.575   155.9     4.3    18.0

1992 04 28    14 55.23   -07 29.2    4.394    5.387   169.6     1.9    16.6
- 4.69 -0.12  + 29.1 - 1.1    (4902)     18615   - 3.93 +0.35  + 15.6 - 3.2
1992 05 28    14 41.44   -06 18.5    4.480    5.393   151.6     5.1    16.8

1992 04 28    14 58.93   -21 35.0    1.111    2.107   168.7     5.4    18.3
- 8.70 -0.59  + 53.5 + 7.1   1981 ER15   10539   - 5.78 +1.37  + 60.0 - 5.2
1992 05 28    14 33.58   -18 21.9    1.139    2.100   154.6    11.9    18.6
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1992 04 28    14 58.99   -20 52.4    1.912    2.907   169.1     3.8    17.2
- 8.41 -0.36  + 35.9 + 4.1   1950 DO     18279   - 6.48 +0.91  + 41.1 - 2.6
1992 05 28    14 34.31   -18 44.6    1.953    2.903   154.9     8.5    17.5

1992 04 28    14 59.05   -24 33.9    2.134    3.122   166.6     4.3    16.7
- 8.67 -0.41    -2.0 + 4.9    (4813)     18266   - 7.17 +0.84  + 15.8 + 0.4
1992 05 28    14 32.98   -24 04.9    2.147    3.095   155.1     7.9    16.9

1992 04 28    15 00.59   -00 59.6    1.282    2.267   163.8     7.1    15.3
- 9.19 -0.41  + 34.3 - 7.9   1966 CF     13055   - 6.29 +1.19  - 26.2 -10.4
1992 05 28    14 34.42   -00 43.1    1.377    2.294   146.8    14.0    15.8

1992 04 28    15 00.28   -31 19.0    2.184    3.153   160.8     6.0    17.2
- 8.84 -0.44    +7.2 + 7.6    (4991)     19279   - 7.29 +0.88  + 40.0 + 2.2
1992 05 28    14 33.67   -29 58.1    2.180    3.126   154.5     8.0    17.2

1992 04 28    15 02.82   -19 31.8    1.858    2.853   169.0     3.8    18.2
- 9.62 -0.39  + 36.2 + 3.7   1991 AP1    17967   - 7.55 +0.97  + 38.4 - 3.1
1992 05 28    14 34.54   -17 27.4    1.915    2.865   154.7     8.7    18.5

1992 04 28    15 03.21   -04 23.5    2.028    3.015   166.0     4.6    17.8
- 9.06 -0.39  + 17.3 - 3.6   1989 SA     15420   - 7.57 +0.82  - 14.9 - 6.4
1992 05 28    14 36.04   -04 14.8    2.071    2.988   149.3    10.0    18.1

1992 04 28    15 02.28   -14 25.1    2.619    3.615   170.4     2.7    17.7
- 7.38 -0.29  + 30.3 + 0.8   1983 TS1    14191   - 6.23 +0.62  + 22.8 - 3.2
1992 05 28    14 40.18   -12 58.0    2.654    3.595   154.6     7.0    17.9

1992 04 28    15 09.78   -62 00.1    2.338    3.098     +1.76    -2.1  18.1
-15.58 -0.93  - 11.8 +18.1   1991 AS1    18436   -11.83 +1.87  + 87.1 +11.8
1992 05 28    14 23.46   -59 55.5    2.316    3.129     +1.60    -4.6  18.1

1992 04 28    15 04.42   -22 28.7    1.809    2.800   167.1     4.6    18.2
- 9.49 -0.42  + 19.6 + 4.9   1990 YX     17966   - 7.41 +0.99  + 31.3 - 1.4
1992 05 28    14 36.46   -21 00.5    1.873    2.828   155.7     8.5    18.5

1992 04 28    15 04.36   -10 34.5    0.943    1.941   169.2     5.6    15.8
- 8.77 -0.71  + 52.2 - 1.4   1976 GR2    11341   - 6.00 +1.42  + 12.0 -10.4
1992 05 28    14 38.26   -08 41.6    0.982    1.937   152.2    14.1    16.2

1992 04 28    15 04.87   -10 20.6    1.497    2.492   169.0     4.4    16.8
- 9.24 -0.53  + 58.1 - 0.6    (4964)     19002   - 7.33 +1.05  + 29.6 - 8.1
1992 05 28    14 37.09   -07 55.1    1.529    2.468   151.6    11.3    17.2

1992 04 28    15 05.30   -00 45.0    1.597    2.577   162.9     6.6    15.1
- 9.24 -0.34  + 12.6 - 6.8   1940 GO     17423   - 6.79 +1.02  - 34.9 - 7.8
1992 05 28    14 38.76   -01 16.7    1.719    2.634   148.0    11.8    15.5

1992 04 28    15 06.00   -17 24.4    1.349    2.346   169.1     4.6    15.9
- 9.75 -0.48  + 26.4 + 2.8   1988 FB     13858   - 6.99 +1.21  + 21.3 - 4.4
1992 05 28    14 37.76   -15 59.5    1.439    2.397   155.0    10.3    16.3

1992 04 28    15 05.55   -04 39.5    1.277    2.267   165.8     6.3    16.4
- 8.26 -0.61  + 89.2 - 3.6    (4760)     17946   - 6.46 +1.10  + 33.7 -12.9
1992 05 28    14 40.32   -01 18.0    1.297    2.224   148.3    13.9    16.7

1992 04 28    15 05.29   +04 00.2    1.907    2.870   159.0     7.2    16.7
- 8.02 -0.44  + 52.1 - 7.1   1984 QF     13465   - 6.76 +0.79    -6.0 -10.7
1992 05 28    14 40.86   +05 16.0    1.934    2.816   143.7    12.3    16.9
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1992 04 28    15 07.97   -27 00.8    1.597    2.578     +1.57    +2.8  14.6
-10.00 -0.32  +110.4 + 8.2   1990 TZ     17965   - 6.87 +1.16  +117.9 - 5.7
1992 05 28    14 39.95   -20 52.2    1.696    2.657     +1.44    +1.1  14.9

1992 04 28    15 15.65   -57 21.1    1.124    1.974   135.7    20.9    16.3
-16.55 -2.03  - 49.4 +27.8   1989 CE2    17020   -13.03 +2.85  +116.2 +19.8
1992 05 28    14 22.10   -55 25.9    1.074    1.959   139.5    19.6    16.1

1992 04 28    15 06.14   -05 09.9    2.017    3.004   166.0     4.6    17.8
- 7.17 -0.35  + 55.8 - 3.1   3289 T-2    14969   - 5.76 +0.74  + 20.2 - 7.8
1992 05 28    14 44.75   -03 07.3    2.088    3.010   150.3     9.6    18.1

1992 04 28    15 08.56   -09 03.2    1.508    2.501   167.7     4.9    17.3
- 9.49 -0.47    +7.1 - 2.3   1983 AD     11619   - 7.29 +1.06  - 18.4 - 5.5
1992 05 28    14 40.57   -09 14.3    1.597    2.542   153.0    10.4    17.7

1992 04 28    15 09.23   -14 55.0    1.333    2.329   168.7     4.8    17.5
- 9.87 -0.76  + 47.8 + 2.7    (4781)     18093   - 8.45 +1.15  + 36.6 - 6.3
1992 05 28    14 38.23   -12 31.8    1.316    2.270   153.9    11.3    17.7

1992 04 28    15 15.51   -52 02.3    1.050    1.937   140.7    19.2    16.0
-13.91 -1.50  - 26.0 +26.6   1990 TN1    17453   -10.04 +2.38  +117.1 +14.7
1992 05 28    14 32.34   -49 23.2    1.043    1.960   144.8    17.3    16.0

1992 04 28    15 11.80   -37 14.2    1.308    2.259   154.5    11.1    18.0
-10.45 -0.93  - 36.2 +14.0   4100 P-L    19317   - 8.54 +1.43  + 37.2 + 7.4
1992 05 28    14 38.92   -37 00.3    1.319    2.269   153.0    11.7    18.1

1992 04 28    15 11.97   -27 12.4    1.242    2.223   162.7     7.8    16.2
-10.21 -0.71  + 26.5 + 9.7    (4670)     17419   - 7.69 +1.35  + 57.3 - 0.7
1992 05 28    14 41.31   -24 47.3    1.287    2.255   156.9    10.1    16.4

1992 04 28    15 10.47   -15 07.2    2.214    3.207   168.4     3.6    16.1
- 8.22 -0.35  +117.8 + 2.5   1989 VP     17208   - 6.83 +0.74  +102.6 - 7.1
1992 05 28    14 45.89   -09 18.8    2.256    3.199   154.1     7.9    16.4

1992 04 28    15 08.56   -42 49.0    4.693    5.585   149.7     5.2    17.0
- 6.14 -0.25    +2.8 + 5.6   1989 DJ     16432   - 5.54 +0.42  + 31.5 + 3.5
1992 05 28    14 49.81   -41 53.5    4.667    5.583   152.1     4.9    17.0

1992 04 28    15 12.66   -22 54.8    1.476    2.463   165.3     5.9    18.3
- 9.79 -0.78  + 33.5 + 6.8   1979 SK     11504   - 8.71 +1.08  + 52.5 - 1.6
1992 05 28    14 41.45   -20 30.2    1.439    2.404   156.8     9.6    18.3

1992 04 28    15 13.19   -12 50.5    1.387    2.381   167.7     5.2    17.9
- 8.92 -0.77  + 33.7 + 0.8   1989 TN     19025   - 8.04 +1.02  + 16.5 - 6.2
1992 05 28    14 44.43   -11 22.1    1.359    2.316   154.8    10.7    18.1

1992 04 28    15 13.88   -26 21.9    1.578    2.558   162.9     6.6    16.5
- 8.65 -0.53    +9.4 + 7.0   2086 T-2    15257   - 6.72 +1.04  + 33.4 + 0.2
1992 05 28    14 47.91   -25 05.1    1.658    2.627   158.4     8.2    16.8

1992 04 28    15 12.52   -15 28.4    2.043    3.035   167.9     4.0    17.8
- 7.56 -0.48  + 36.5 + 1.6   1041 T-2    15424   - 6.69 +0.72  + 29.8 - 3.8
1992 05 28    14 48.94   -13 39.0    2.043    3.001   156.8     7.7    18.0

1992 04 28    15 10.93   -34 28.9    4.373    5.315   157.0     4.2    17.7
- 5.65 -0.24    +9.2 + 4.4   5493 T-2    16884   - 5.16 +0.38  + 29.9 + 2.1
1992 05 28    14 53.57   -33 25.9    4.360    5.309   157.3     4.2    17.7
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|---|---|---|---|---|---|---|---|---|
| 1992 04 28 | 15 15.85 | -29 32.9 | 1.162 | 2.137 | 160.4 | 9.1 | 17.3 | |
| - 8.97 -0.93 | + 24.5 +11.6 | 1981 EX28 | 15242 | - 7.45 +1.31 | + 69.7 + 1.2 | | | |
| 1992 05 28 | 14 47.07 | -26 52.2 | 1.148 | 2.122 | 158.0 | 10.3 | 17.3 | |
| 1992 04 28 | 15 17.04 | -06 36.4 | 1.051 | 2.039 | 164.7 | 7.5 | 17.2 | |
| - 8.80 -1.01 | + 48.6 - 3.2 | 1989 NH1 | 15254 | - 8.17 +1.18 | -0.9 -11.8 | | | |
| 1992 05 28 | 14 47.53 | -05 09.0 | 1.016 | 1.969 | 152.1 | 13.9 | 17.3 | |
| 1992 04 28 | 15 16.93 | -14 12.7 | 1.192 | 2.184 | 166.9 | 6.0 | 17.0 | |
| - 9.10 -0.92 | + 46.3 + 2.2 | 1986 RF7 | 15413 | - 8.26 +1.14 | + 31.5 - 7.0 | | | |
| 1992 05 28 | 14 47.10 | -11 59.0 | 1.163 | 2.128 | 155.7 | 11.3 | 17.2 | |
| 1992 04 28 | 15 15.95 | -15 47.2 | 2.590 | 3.578 | 167.1 | 3.6 | 18.2 | |
| - 7.21 -0.39 | + 30.7 + 1.3 | 1983 VN7 | 15411 | - 6.60 +0.56 | + 26.5 - 2.7 | | | |
| 1992 05 28 | 14 53.48 | -14 13.9 | 2.594 | 3.554 | 158.0 | 6.1 | 18.3 | |
| 1992 04 28 | 15 19.92 | -24 48.6 | 1.716 | 2.694 | 162.9 | 6.3 | 16.7 | |
| - 9.81 -0.77 | + 15.1 + 6.4 | 1991 CK | 17969 | - 9.23 +0.92 | + 39.2 + 0.4 | | | |
| 1992 05 28 | 14 48.21 | -23 16.1 | 1.678 | 2.647 | 158.5 | 8.0 | 16.7 | |
| 1992 04 28 | 15 19.24 | -30 05.7 | 2.481 | 3.442 | 159.5 | 5.9 | 16.5 | |
| - 8.85 -0.50 | - 14.9 + 6.0 | 1991 CL3 | 18127 | - 8.09 +0.70 | + 14.4 + 2.8 | | | |
| 1992 05 28 | 14 51.61 | -30 00.5 | 2.512 | 3.474 | 158.2 | 6.2 | 16.6 | |
| 1992 04 28 | 15 14.51 | -08 40.5 | 4.496 | 5.479 | 166.2 | 2.5 | 17.7 | |
| - 4.54 -0.19 | + 34.2 - 0.8 | 1973 SY | 16693 | - 4.20 +0.29 | + 22.5 - 3.0 | | | |
| 1992 05 28 | 15 00.52 | -07 11.4 | 4.537 | 5.478 | 155.9 | 4.3 | 17.9 | |
| 1992 04 28 | 15 19.49 | +08 05.4 | 1.872 | 2.810 | 153.6 | 9.2 | 17.7 | |
| - 7.91 -0.59 | + 57.2 - 8.7 | 1984 OA | 14192 | - 7.42 +0.72 | - 12.0 -12.6 | | | |
| 1992 05 28 | 14 54.09 | +09 20.3 | 1.871 | 2.746 | 142.5 | 13.0 | 17.8 | |
| 1992 04 28 | 15 15.50 | -08 56.7 | 4.937 | 5.919 | 166.1 | 2.3 | 17.1 | |
| - 4.85 -0.18 | + 10.3 - 0.8 | 1989 BW | 18431 | - 4.55 +0.26 | +1.0 - 2.2 | | | |
| 1992 05 28 | 15 00.60 | -08 37.1 | 4.986 | 5.931 | 156.8 | 3.9 | 17.2 | |
| 1992 04 28 | 15 20.55 | -22 44.6 | 2.009 | 2.989 | 163.9 | 5.4 | 17.0 | |
| - 8.04 -0.56 | + 29.3 + 4.7 | 1984 SG1 | 18109 | - 7.35 +0.75 | + 41.8 - 1.0 | | | |
| 1992 05 28 | 14 55.04 | -20 47.4 | 2.004 | 2.977 | 160.0 | 6.7 | 17.1 | |
| 1992 04 28 | 15 19.12 | -09 34.7 | 2.412 | 3.396 | 165.5 | 4.3 | 16.9 | |
| - 6.97 -0.39 | + 34.4 - 1.1 | (4907) | 18616 | - 6.26 +0.58 | + 15.5 - 4.8 | | | |
| 1992 05 28 | 14 57.48 | -08 13.0 | 2.462 | 3.413 | 155.9 | 7.0 | 17.1 | |
| 1992 04 28 | 15 21.08 | -19 42.7 | 1.429 | 2.416 | 165.0 | 6.2 | 18.2 | |
| - 8.03 -0.74 | + 40.2 + 4.5 | 6207 P-L | 19318 | - 7.11 +0.97 | + 44.0 - 3.6 | | | |
| 1992 05 28 | 14 55.23 | -17 21.4 | 1.434 | 2.410 | 159.4 | 8.5 | 18.3 | |
| 1992 04 28 | 15 16.80 | -22 02.6 | 4.369 | 5.348 | 165.0 | 2.8 | 17.6 | |
| - 4.91 -0.21 | + 23.3 + 1.9 | 1990 DK | 18433 | - 4.55 +0.32 | + 28.0 - 0.5 | | | |
| 1992 05 28 | 15 01.64 | -20 41.3 | 4.393 | 5.364 | 161.5 | 3.4 | 17.7 | |
| 1992 04 28 | 15 21.46 | -19 55.8 | 1.442 | 2.428 | 164.9 | 6.2 | 16.3 | |
| - 7.76 -0.74 | + 32.2 + 4.3 | 1987 DH6 | 17959 | - 6.97 +0.94 | + 37.5 - 3.0 | | | |
| 1992 05 28 | 14 56.24 | -17 57.6 | 1.442 | 2.419 | 159.8 | 8.3 | 16.4 | |
| 1992 04 28 | 15 23.43 | -22 24.1 | 1.072 | 2.058 | 163.5 | 8.0 | 15.7 | |
| - 8.81 -0.98 | + 31.6 + 7.1 | (4698) | 17613 | - 7.61 +1.26 | + 47.6 - 2.8 | | | |
| 1992 05 28 | 14 54.63 | -20 06.7 | 1.083 | 2.065 | 159.8 | 9.7 | 15.8 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1992 04 28 | 15 25.12 | -22 48.9 | 1.439 | 2.420 | 162.9 | 7.0 | 17.7 |
| - 9.17 -0.99 | + 36.5 + 7.0 | 1989 TE | 15422 | - 9.35 +0.94 | + 58.8 - 1.0 |
| 1992 05 28 | 14 53.77 | -20 11.0 | 1.356 | 2.333 | 159.6 | 8.7 | 17.6 |
| 1992 04 28 | 15 23.69 | -16 17.0 | 2.273 | 3.256 | 165.2 | 4.5 | 16.2 |
| - 7.18 -0.53 | + 24.9 + 1.6 | 1988 UP | 13862 | - 7.01 +0.57 | + 22.3 - 2.6 |
| 1992 05 28 | 15 00.36 | -14 58.5 | 2.238 | 3.209 | 159.8 | 6.2 | 16.3 |
| 1992 04 28 | 15 23.42 | -00 40.9 | 1.510 | 2.479 | 159.8 | 8.1 | 15.9 |
| - 6.59 -0.66 | + 76.8 - 5.5 | 1988 PR1 | 13681 | - 6.11 +0.78 | + 17.9 -12.3 |
| 1992 05 28 | 15 01.71 | +01 53.7 | 1.523 | 2.452 | 149.7 | 12.1 | 16.1 |
| 1992 04 28 | 15 28.30 | -22 01.9 | 1.067 | 2.050 | 162.6 | 8.5 | 15.9 |
| - 8.49 -1.24 | + 36.8 + 7.8 | (4894) | 18612 | - 8.88 +1.13 | + 58.6 - 2.2 |
| 1992 05 28 | 14 57.86 | -19 20.1 | 0.997 | 1.982 | 160.5 | 9.8 | 15.7 |
| 1992 04 28 | 15 24.46 | -01 33.3 | 2.070 | 3.037 | 160.2 | 6.4 | 17.0 |
| - 6.46 -0.50 | + 64.4 - 4.1 | 6766 P-L | 12700 | - 6.06 +0.59 | + 21.8 - 9.0 |
| 1992 05 28 | 15 03.67 | +00 45.1 | 2.098 | 3.024 | 150.9 | 9.4 | 17.1 |
| 1992 04 28 | 15 28.38 | -05 22.3 | 0.994 | 1.975 | 161.6 | 9.3 | 15.2 |
| - 8.46 -1.19 | + 19.3 - 5.7 | (4724) | 17803 | - 8.75 +1.11 | - 36.8 -11.3 |
| 1992 05 28 | 14 58.29 | -05 38.2 | 0.953 | 1.918 | 154.5 | 13.1 | 15.2 |
| 1992 04 28 | 15 23.59 | -22 12.5 | 4.939 | 5.911 | 163.5 | 2.8 | 17.5 |
| - 5.23 -0.24 | -0.4 + 1.6 | (5028) | 19490 | - 5.14 +0.26 | +5.4 + 0.2 |
| 1992 05 28 | 15 07.13 | -22 02.3 | 4.936 | 5.912 | 162.9 | 2.9 | 17.5 |
| 1992 04 28 | 15 24.46 | -03 40.5 | 4.892 | 5.856 | 161.5 | 3.1 | 17.1 |
| - 4.89 -0.21 | +8.3 - 1.8 | 1986 VG1 | 18111 | - 4.76 +0.24 | -6.5 - 3.0 |
| 1992 05 28 | 15 09.15 | -03 35.6 | 4.927 | 5.861 | 155.0 | 4.2 | 17.2 |
| 1992 04 28 | 15 29.79 | -29 04.2 | 1.141 | 2.110 | 158.5 | 10.1 | 18.1 |
| - 7.48 -1.21 | + 53.6 +13.1 | 1985 RV | 13170 | - 8.04 +1.06 | +108.4 + 2.1 |
| 1992 05 28 | 15 02.27 | -24 40.6 | 1.040 | 2.028 | 161.7 | 9.0 | 17.7 |
| 1992 04 28 | 15 25.64 | -00 32.6 | 4.932 | 5.885 | 159.3 | 3.5 | 16.8 |
| - 4.98 -0.21 | +7.3 - 2.3 | (4834) | 18274 | - 4.85 +0.24 | - 10.6 - 3.4 |
| 1992 05 28 | 15 10.07 | -00 35.6 | 4.976 | 5.896 | 152.9 | 4.5 | 16.9 |
| 1992 04 28 | 15 31.18 | -14 59.8 | 2.373 | 3.351 | 163.4 | 4.9 | 16.4 |
| - 7.74 -0.54 | +6.1 + 0.7 | (4747) | 17811 | - 7.64 +0.55 | +1.8 - 2.2 |
| 1992 05 28 | 15 06.08 | -14 42.8 | 2.377 | 3.352 | 161.0 | 5.6 | 16.5 |
| 1992 04 28 | 15 26.40 | +19 33.9 | 4.882 | 5.716 | 142.8 | 6.1 | 17.1 |
| - 5.04 -0.22 | + 15.9 - 5.7 | (4833) | 18273 | - 4.88 +0.26 | - 22.0 - 6.4 |
| 1992 05 28 | 15 10.64 | +19 25.8 | 4.941 | 5.710 | 135.6 | 7.1 | 17.2 |
| 1992 04 28 | 15 33.52 | -21 25.1 | 2.080 | 3.052 | 161.7 | 5.9 | 18.0 |
| - 8.88 -0.73 | +5.5 + 3.6 | 1981 SC7 | 10836 | - 9.14 +0.64 | + 18.0 - 0.1 |
| 1992 05 28 | 15 03.94 | -20 43.2 | 2.034 | 3.015 | 162.1 | 5.9 | 17.9 |
| 1992 04 28 | 15 36.46 | -13 50.8 | 1.149 | 2.130 | 162.1 | 8.3 | 16.5 |
| - 8.73 -0.97 | + 28.6 + 0.4 | 1985 HG1 | 13039 | - 8.12 +1.07 | + 10.7 - 6.0 |
| 1992 05 28 | 15 07.40 | -12 40.0 | 1.191 | 2.173 | 160.4 | 9.0 | 16.7 |
| 1992 04 28 | 15 35.95 | -29 24.1 | 2.140 | 3.094 | 157.3 | 7.2 | 16.6 |
| - 8.42 -0.62 | + 29.4 + 6.8 | 1971 TY2 | 17623 | - 7.95 +0.72 | + 56.6 + 1.2 |
| 1992 05 28 | 15 08.93 | -27 04.8 | 2.166 | 3.148 | 162.7 | 5.5 | 16.6 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1992 04 28 | 15 34.40 | -08 43.6 | 2.496 | 3.466 | 161.6 | 5.3 | 17.5 |
| - 6.99 -0.45 | + 47.4 - 1.3 | 1981 ET31 | 16577 | - 6.73 +0.51 | + 26.4 - 5.3 |
| 1992 05 28 | 15 12.05 | -06 45.4 | 2.548 | 3.508 | 157.8 | 6.3 | 17.6 |
| 1992 04 28 | 15 39.95 | -23 17.5 | 2.005 | 2.970 | 159.6 | 6.8 | 17.9 |
| - 7.82 -0.83 | -1.6 + 3.9 | 4136 T-2 | 14969 | - 8.78 +0.55 | + 15.8 + 1.0 |
| 1992 05 28 | 15 12.49 | -22 50.8 | 1.917 | 2.905 | 164.1 | 5.5 | 17.7 |
| 1992 04 28 | 15 38.60 | +06 40.4 | 2.212 | 3.136 | 151.9 | 8.7 | 16.6 |
| - 7.23 -0.55 | + 42.6 - 7.4 | 1991 CB | 18126 | - 7.16 +0.54 | - 13.6 -10.0 |
| 1992 05 28 | 15 15.01 | +07 28.5 | 2.262 | 3.160 | 146.8 | 10.1 | 16.7 |
| 1992 04 28 | 15 40.02 | +04 26.0 | 1.458 | 2.401 | 153.3 | 10.9 | 14.7 |
| - 6.99 -0.89 | + 48.5 - 8.7 | 1991 AE | 17831 | - 7.58 +0.70 | - 25.1 -13.7 |
| 1992 05 28 | 15 15.24 | +05 10.2 | 1.440 | 2.366 | 148.9 | 12.8 | 14.7 |
| 1992 04 28 | 15 41.76 | -21 53.8 | 1.369 | 2.339 | 159.7 | 8.6 | 16.1 |
| - 7.96 -0.93 | + 81.3 + 6.7 | 1986 TN1 | 18286 | - 7.90 +0.90 | + 89.0 - 4.8 |
| 1992 05 28 | 15 14.58 | -17 17.1 | 1.373 | 2.363 | 163.8 | 6.9 | 16.1 |
| 1992 04 28 | 15 43.17 | -21 06.7 | 1.078 | 2.052 | 159.7 | 9.8 | 16.5 |
| - 7.91 -1.32 | +4.9 + 5.0 | 1976 SA6 | 15875 | - 9.07 +0.98 | + 20.8 - 0.9 |
| 1992 05 28 | 15 13.40 | -20 17.3 | 1.036 | 2.031 | 164.2 | 7.8 | 16.3 |
| 1992 04 28 | 15 45.00 | -16 55.4 | 1.489 | 2.460 | 160.0 | 8.0 | 17.9 |
| - 8.76 -1.05 | + 23.4 + 2.5 | 1986 QN3 | 12127 | - 9.77 +0.75 | + 23.0 - 3.1 |
| 1992 05 28 | 15 13.86 | -15 35.5 | 1.438 | 2.426 | 163.1 | 7.0 | 17.7 |
| 1992 04 28 | 15 42.98 | -30 48.6 | 2.218 | 3.160 | 155.2 | 7.7 | 17.3 |
| - 7.42 -0.70 | + 17.1 + 6.7 | 1988 QP | 13859 | - 7.69 +0.59 | + 48.2 + 2.6 |
| 1992 05 28 | 15 17.92 | -29 02.9 | 2.199 | 3.185 | 163.9 | 5.1 | 17.2 |
| 1992 04 28 | 15 38.76 | -25 05.8 | 4.197 | 5.150 | 159.1 | 4.0 | 17.5 |
| - 5.19 -0.34 | +1.7 + 2.3 | (5041) | 19659 | - 5.44 +0.26 | + 11.9 + 0.8 |
| 1992 05 28 | 15 21.73 | -24 42.5 | 4.169 | 5.158 | 166.0 | 2.7 | 17.5 |
| 1992 04 28 | 15 43.18 | -17 51.7 | 2.195 | 3.162 | 160.4 | 6.1 | 17.9 |
| - 7.25 -0.66 | + 39.6 + 2.4 | 1989 UL | 18293 | - 7.64 +0.52 | + 40.0 - 2.5 |
| 1992 05 28 | 15 18.67 | -15 43.1 | 2.170 | 3.158 | 164.2 | 5.0 | 17.8 |
| 1992 04 28 | 15 42.81 | -03 37.9 | 2.177 | 3.132 | 157.6 | 7.0 | 17.5 |
| - 6.89 -0.60 | + 32.3 - 3.5 | 1979 YN | 17955 | - 7.16 +0.50 | -1.1 - 6.9 |
| 1992 05 28 | 15 19.70 | -02 45.0 | 2.193 | 3.146 | 156.1 | 7.5 | 17.5 |
| 1992 04 28 | 15 42.49 | -22 11.9 | 1.835 | 2.800 | 159.5 | 7.2 | 16.6 |
| - 6.68 -0.77 | + 24.8 + 4.2 | 1978 VV9 | 17815 | - 7.16 +0.61 | + 36.7 - 0.8 |
| 1992 05 28 | 15 19.19 | -20 30.4 | 1.812 | 2.805 | 165.6 | 5.2 | 16.5 |
| 1992 04 28 | 15 45.68 | -20 04.5 | 1.477 | 2.445 | 159.4 | 8.3 | 16.5 |
| - 7.62 -1.06 | + 26.7 + 4.2 | (4799) | 18100 | - 8.84 +0.70 | + 36.7 - 1.8 |
| 1992 05 28 | 15 17.73 | -18 18.3 | 1.410 | 2.403 | 164.8 | 6.3 | 16.2 |
| 1992 04 28 | 15 45.05 | -09 07.2 | 1.976 | 2.940 | 159.2 | 7.0 | 15.9 |
| - 7.50 -0.75 | + 25.8 - 1.4 | (4804) | 18102 | - 8.20 +0.53 | +4.2 - 5.4 |
| 1992 05 28 | 15 19.16 | -08 14.7 | 1.944 | 2.917 | 160.1 | 6.8 | 15.9 |
| 1992 04 28 | 15 48.75 | -24 31.2 | 1.607 | 2.565 | 157.3 | 8.7 | 17.4 |
| - 9.04 -1.06 | -1.4 + 5.4 | (4728) | 17804 | -10.08 +0.74 | + 23.6 + 1.6 |
| 1992 05 28 | 15 16.72 | -23 51.0 | 1.566 | 2.559 | 165.0 | 5.9 | 17.2 |

1992 04 28 15 46.87 -15 44.6 2.015 2.979 159.6 6.8 16.9
- 6.96 -0.73 + 25.6 + 1.3 1989 VT1 15721 - 7.64 +0.51 + 20.9 - 3.0
1992 05 28 15 22.67 -14 27.2 1.988 2.977 164.5 5.2 16.8

1992 04 28 15 47.29 -17 02.4 2.452 3.413 159.5 5.9 18.1
- 6.54 -0.66 + 27.6 + 1.8 1971 UT1 13593 - 7.45 +0.38 + 27.8 - 1.9
1992 05 28 15 24.41 -15 32.4 2.368 3.359 165.4 4.4 17.9

1992 04 28 15 50.00 -23 07.5 1.719 2.677 157.5 8.3 16.7
- 7.65 -0.91 + 16.7 + 4.7 1991 AK 17967 - 8.48 +0.65 + 33.4 0.0
1992 05 28 15 22.92 -21 43.9 1.695 2.691 166.6 5.0 16.5

1992 04 28 15 50.90 -08 06.2 1.180 2.146 157.6 10.3 16.4
- 7.95 -1.10 + 24.9 - 3.5 1990 WB2 18435 - 8.53 +0.88 - 13.3 - 8.1
1992 05 28 15 22.54 -07 40.4 1.208 2.189 160.3 9.0 16.4

1992 04 28 15 53.62 -25 56.3 1.603 2.555 155.7 9.3 17.1
- 9.11 -1.06 +6.0 + 6.2 1986 QQ 17632 -10.05 +0.76 + 34.5 + 1.8
1992 05 28 15 21.49 -24 47.4 1.584 2.579 166.0 5.5 16.9

1992 04 28 15 54.03 -14 55.3 1.570 2.531 157.9 8.6 17.1
- 8.21 -1.01 + 49.6 + 1.9 1990 XP 17828 - 9.34 +0.65 + 40.8 - 5.0
1992 05 28 15 24.64 -12 26.8 1.537 2.526 163.8 6.4 16.9

1992 04 28 15 54.99 -14 01.3 1.347 2.311 157.7 9.5 17.1
- 7.95 -1.09 + 47.7 + 1.1 1979 MJ5 13455 - 9.00 +0.75 + 32.3 - 6.1
1992 05 28 15 26.14 -11 47.8 1.341 2.331 163.7 7.0 17.0

1992 04 28 15 47.68 -15 41.4 4.558 5.513 159.4 3.7 17.2
- 4.59 -0.31 + 10.5 + 0.4 (5123) 19842 - 4.96 +0.19 +8.4 - 1.1
1992 05 28 15 32.43 -15 10.4 4.540 5.532 166.9 2.4 17.2

1992 04 28 15 55.94 -09 29.3 1.512 2.469 156.7 9.3 16.9
- 8.19 -0.94 + 64.8 - 1.2 (4706) 17616 - 8.85 +0.70 + 33.6 - 8.4
1992 05 28 15 27.34 -06 48.6 1.536 2.514 160.5 7.8 16.9

1992 04 28 15 49.52 -30 29.9 4.376 5.301 154.2 4.7 17.7
- 4.89 -0.38 +9.7 + 3.3 1991 GX1 18440 - 5.38 +0.22 + 25.8 + 1.8
1992 05 28 15 33.02 -29 33.9 4.316 5.307 166.5 2.5 17.6

1992 04 28 15 50.03 -11 16.9 4.795 5.744 158.5 3.7 18.1
- 4.22 -0.29 + 23.7 - 0.3 1973 SO1 18280 - 4.61 +0.16 + 16.4 - 2.0
1992 05 28 15 35.95 -10 13.6 4.778 5.760 164.4 2.7 18.1

1992 04 28 16 03.28 -22 55.3 1.133 2.088 154.7 11.9 15.6
- 7.99 -1.47 - 16.0 + 4.7 1990 UF3 17458 -10.20 +0.82 +8.0 + 1.8
1992 05 28 15 31.74 -23 02.0 1.111 2.114 168.6 5.5 15.3

1992 04 28 16 04.73 -33 53.8 1.432 2.357 149.7 12.5 17.9
- 8.71 -1.32 + 10.2 +10.6 1988 DO 14355 -10.30 +0.83 + 66.6 + 5.6
1992 05 28 15 32.22 -31 49.4 1.408 2.402 165.0 6.3 17.6

1992 04 28 15 59.06 -20 10.3 2.003 2.952 156.3 7.9 17.0
- 6.74 -0.87 + 11.4 + 2.6 1989 XM 15898 - 8.21 +0.42 + 19.1 - 0.6
1992 05 28 15 34.26 -19 18.8 1.942 2.942 168.9 3.8 16.7

1992 04 28 16 02.48 -27 06.3 2.108 3.042 153.4 8.5 17.6
- 7.68 -0.98 + 20.4 + 5.8 1989 YB 15899 - 9.70 +0.39 + 49.2 + 2.6
1992 05 28 15 33.88 -25 16.1 1.976 2.976 168.6 3.9 17.2

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1992 04 28    15 53.47   -00 50.2    4.631    5.553   153.9     4.6    17.4
- 4.45 -0.31  + 15.8 - 2.3   1989 CK2    19025   - 4.92 +0.16    -3.3 - 3.8
1992 05 28    15 38.55   -00 28.9    4.619    5.563   156.6     4.1    17.4

1992 04 28    16 02.13   -10 34.0    1.574    2.525   155.5     9.5    16.4
- 6.80 -1.04  + 58.7   0.0    (4839)     18275   - 8.65 +0.49  + 36.0 - 7.3
1992 05 28    15 36.12   -07 58.6    1.519    2.505   162.7     6.9    16.2

1992 04 28    15 59.77   -11 57.3    2.467    3.413   156.3     6.8    16.4
- 5.83 -0.66  + 27.5 - 0.3   1978 CH     18104   - 6.95 +0.31  + 15.5 - 3.6
1992 05 28    15 38.83   -10 46.8    2.423    3.413   165.3     4.3    16.3

1992 04 28    16 06.19   -29 59.9    1.932    2.857   151.4     9.7    16.3
- 8.04 -1.01    -9.3 + 6.2    (4719)     17620   - 9.60 +0.54  + 25.9 + 4.1
1992 05 28    15 36.86   -29 31.2    1.908    2.906   167.3     4.4    16.1

1992 04 28    15 58.51   -31 38.2    4.453    5.363   152.0     5.1    17.3
- 4.85 -0.42    +3.6 + 3.3   1989 CW1    16432   - 5.60 +0.18  + 20.9 + 2.2
1992 05 28    15 41.74   -30 59.3    4.372    5.364   167.1     2.4    17.1

1992 04 28    16 06.27   -18 04.1    1.590    2.538   154.9     9.7    17.7
- 7.32 -1.17  + 43.2 + 3.5   1981 EN17   15879   - 9.78 +0.45  + 47.9 - 2.7
1992 05 28    15 37.61   -15 36.0    1.492    2.493   168.2     4.8    17.3

1992 04 28    16 04.74   -11 30.5    2.247    3.188   155.0     7.7    17.8
- 6.84 -0.74  + 44.9 - 0.2    (4740)     17808   - 7.99 +0.37  + 30.0 - 4.6
1992 05 28    15 40.43   -09 29.9    2.230    3.218   164.6     4.8    17.7

1992 04 28    16 06.66   -17 14.1    2.351    3.291   154.8     7.5    17.0
- 6.11 -0.74  + 44.9 + 2.0   1978 SN7    15700   - 7.50 +0.31  + 44.2 - 2.5
1992 05 28    15 44.29   -14 52.4    2.296    3.296   169.1     3.3    16.7

1992 04 28    16 16.80   -23 46.0    1.988    2.913   151.5     9.5    17.4
- 9.78 -1.11  - 44.5 + 2.9   1990 VX2    18823   -11.92 +0.47  - 21.4 + 3.7
1992 05 28    15 41.33   -25 26.3    1.967    2.971   170.1     3.4    17.2

1992 04 28    16 01.06   +10 33.3    4.497    5.356   145.3     6.1    17.4
- 4.17 -0.35  + 34.9 - 4.2   1989 EO11   16433   - 4.83 +0.14     +2.5 - 6.1
1992 05 28    15 46.66   +11 33.0    4.484    5.354   145.9     6.1    17.4

1992 04 28    16 09.57   -03 14.2    1.563    2.494   151.5    11.1    18.0
- 6.36 -1.01  + 83.4 - 3.8   3111 T-2    17978   - 8.08 +0.47  + 33.4 -11.5
1992 05 28    15 45.17   -00 04.8    1.565    2.529   156.9     9.0    18.0

1992 04 28    16 12.87   -23 12.6    1.542    2.479   152.5    10.8    16.9
- 7.40 -1.23  + 36.4 + 5.5   1991 AF     18125   - 9.84 +0.50  + 55.9 - 0.2
1992 05 28    15 43.78   -20 43.7    1.478    2.485   171.3     3.5    16.5

1992 04 28    16 07.80   -08 47.0    2.273    3.207   153.7     8.0    17.9
- 5.84 -0.76  + 51.5 - 0.8   1988 PX2    15890   - 7.39 +0.28  + 31.2 - 5.7
1992 05 28    15 46.03   -06 33.9    2.214    3.197   162.9     5.4    17.7

1992 04 28    16 08.54   -10 48.4    2.352    3.286   154.0     7.7    18.4
- 6.27 -0.71  + 39.5 - 0.6   1989 TC3    19502   - 7.47 +0.32  + 23.4 - 4.5
1992 05 28    15 46.02   -09 06.9    2.345    3.334   165.1     4.5    18.3

1992 04 28    16 10.79   -21 44.7    2.545    3.474   153.3     7.5    17.3
- 6.11 -0.79  + 12.8 + 2.6   1982 PR     13856   - 8.02 +0.21  + 23.2 + 0.4
1992 05 28    15 47.74   -20 46.6    2.422    3.429   172.3     2.3    16.9
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