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 Cambridge, MA 02138, U.S.A.
 TWX 710-320-6842 ASTROGRAM CAM ** Brian G. Marsden, Director
 Telephone 617-864-5758 ** Conrad M. Bardwell, Assistant Director
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IDENTIFICATION CHANGES.

Continuation to MPC 4938.

| Object | Date | UT | R. A. (1950) | Decl. | Old desig. | Mag. | Obs. |
|------------|---------|----------|--------------|-------------|------------|------|------|
| 1949 QJ2 * | 1949 08 | 21.93720 | 22 15 37.74 | -09 30 55.8 | 1949 PM | 14.3 | 024 |
| 1949 QJ2 | 1949 08 | 22.93246 | 22 15 00.18 | -09 42 34.2 | 1949 PM | 14.3 | 024 |
| 1950 TO4 * | 1950 10 | 05.92815 | 23 49 34.47 | +10 58 15.2 | 1950 SB | | 012 |
| 1950 TO4 | 1950 10 | 12.86714 | 23 44 16.87 | +10 23 25.7 | 1950 SB | | 012 |
| 1965 WX * | 1965 11 | 20.06040 | 01 45 21.57 | +03 48 42.6 | 1965 VD | 15.4 | 760 |
| 1965 WX | 1965 11 | 20.10276 | 01 45 20.06 | +03 48 46.6 | 1965 VD | | 760 |

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IDENTIFICATIONS.

The following list of identifications with numbered minor planets continues that on MPC 4938. Unless otherwise stated, the identifications were made at the Minor Planet Center.

| | Note | | Note | |
|-------------------|------|------------------|------|-----------------|
| 1965 UO1 = (1052) | 1 | 1973 AA = (715) | | 1973 GN = (741) |
| 1973 GO = (82) | | 1975 QM = (2066) | 2 | 1976 AB = (364) |
| 1976 MK = (1100) | 1 | 1977 UH = (1493) | | 1977 YD = (488) |
| 1978 JB = (613) | | 1979 HE = (1100) | | |

Note 1: identification by O. Kippes. 2: by T. Urata (NOC 1072).

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ROMAN NUMERAL DESIGNATIONS OF COMETS IN 1978.

The following tabulation continues that on MPC 4601 and in 'Catalogue of Cometary Orbits', 1979 edition. The previous record number of Roman numeral designations was 16 in 1974. The calculations on IAUC 3397 suggest that comet 1979h might have been at perihelion in 1978; the orbit of this comet is extremely uncertain, however, and in the absence of any further information this comet is not being given a Roman numeral designation.

| Comet | T | Name | Year/letter | Ref. |
|-----------|-----------|-------------------|-------------|-----------|
| 1978 I | Jan. 6.8 | P/Schuster | 1977o | MPC 4603 |
| 1978 II | Jan. 11.0 | P/Tempel 1 | 1977i | IAUC 3083 |
| 1978 III | Feb. 2.5 | P/Arend-Rigaux | 1977k | IAUC 3095 |
| 1978 IV | Feb. 14.9 | P/Chernykh | 1977l | MPC 4539 |
| 1978 V | Feb. 20.7 | P/Tempel 2 | 1977d | IAUC 3055 |
| 1978 VI | Mar. 15.9 | P/Wolf-Harrington | 1977j | IAUC 3091 |
| 1978 VII | Mar. 17.7 | Bradfield | 1978c | IAUC 3233 |
| 1978 VIII | Mar. 27.6 | P/Whipple | 1977h | IAUC 3081 |

| | | | | | |
|------------|-------|------|---------------------------|-------|-----------|
| 1978 IX | May | 7.4 | P/Tsuchinshan 1 | 1978e | IAUC 3188 |
| 1978 X | May | 24.7 | P/Kojima | 1977r | IAUC 3151 |
| 1978 XI | June | 15.9 | P/Wild 2 | 1978b | MPC 4604 |
| 1978 XII | July | 8.4 | P/Daniel | 1979b | IAUC 3332 |
| 1978 XIII | Aug. | 13.6 | Machholz | 1978l | MPC 4604 |
| 1978 XIV | Aug. | 19.9 | P/Ashbrook-Jackson | 1977g | IAUC 3070 |
| 1978 XV | Sept. | 14.8 | Seargent | 1978m | MPC 4604 |
| 1978 XVI | Sept. | 21.0 | P/Tsuchinshan 2 | 1978p | IAUC 3302 |
| 1978 XVII | Sept. | 24.2 | P/Comas Sola | 1977n | IAUC 3110 |
| 1978 XVIII | Sept. | 29.1 | Bradfield | 1978o | MPC 4605 |
| 1978 XIX | Oct. | 2.0 | P/Denning-Fujikawa | 1978n | IAUC 3300 |
| 1978 XX | Oct. | 9.5 | P/Haneda-Campos | 1978j | MPC 4604 |
| 1978 XXI | Nov. | 11.4 | Meier | 1978f | MPC 5031 |
| 1978 XXII | Nov. | 21.3 | P/Giclas | 1978k | MPC 4604 |
| 1978 XXIII | Nov. | 26.3 | P/Clark | 1978g | IAUC 3216 |
| 1978 XXIV | Dec. | 3.0 | P/Van Biesbroeck | 1977s | IAUC 3152 |
| 1978 XXV | Dec. | 25.8 | P/Tuttle-Giacobini-Kresak | 1978r | IAUC 3314 |
| 1978 XXVI | Dec. | 26.2 | P/Jackson-Neujmin | 1978q | IAUC 3311 |

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OBSERVATIONS MADE WITH THE 1.2-M SCHMIDT TELESCOPE AT PALOMAR BY C. T. KOWAL. MEASUREMENTS AND IDENTIFICATIONS MAINLY BY S. J. BUS.

| Object | Date | UT | R. A. (1950) | | | Decl. | Mag. | Obs. |
|-----------|---------|----------|--------------|-------|--------|-------|-------|------|
| /1976 III | 1978 11 | 29.34653 | 04 26 | 24.40 | +21 41 | 27.4 | 19.0T | 675 |
| /1976 III | 1978 11 | 30.34809 | 04 25 | 40.02 | +21 40 | 57.0 | | 675 |
| 317 | 1978 11 | 29.34653 | 04 11 | 17.85 | +17 56 | 00.4 | 14.5 | 675 |
| 317 | 1978 11 | 30.34809 | 04 10 | 11.50 | +17 53 | 20.2 | | 675 |
| 1109 | 1978 11 | 30.40503 | 04 53 | 05.36 | +24 10 | 01.7 | 17.5 | 675 |
| 1110 | 1978 11 | 29.40486 | 04 44 | 59.03 | +20 50 | 34.6 | 16.0 | 675 |
| 1110 | 1978 11 | 30.40503 | 04 43 | 45.77 | +20 45 | 26.0 | | 675 |
| 1119 | 1978 11 | 29.34653 | 04 12 | 38.45 | +22 58 | 01.6 | 17.5 | 675 |
| 1119 | 1978 11 | 30.34809 | 04 11 | 34.81 | +22 57 | 39.2 | | 675 |
| 1123 | 1978 11 | 29.40486 | 04 39 | 42.63 | +19 38 | 36.7 | 14.5 | 675 |
| 1123 | 1978 11 | 30.40503 | 04 38 | 32.49 | +19 41 | 42.7 | | 675 |
| 1128 | 1978 11 | 29.34653 | 04 23 | 28.74 | +21 49 | 16.1 | 16.5 | 675 |
| 1128 | 1978 11 | 30.34809 | 04 22 | 30.64 | +21 47 | 22.2 | | 675 |
| 1255 | 1978 11 | 29.40486 | 04 40 | 43.07 | +19 38 | 23.5 | 16.5 | 675 |
| 1255 | 1978 11 | 30.40503 | 04 39 | 50.76 | +19 33 | 50.9 | | 675 |
| 1378 | 1978 11 | 29.40486 | 04 37 | 42.51 | +24 37 | 10.8 | 18.0 | 675 |
| 1378 | 1978 11 | 30.40503 | 04 36 | 34.64 | +24 36 | 07.7 | | 675 |
| 1497 | 1978 11 | 29.40486 | 04 33 | 32.10 | +23 14 | 15.1 | 17.5 | 675 |
| 1497 | 1978 11 | 30.40503 | 04 32 | 35.27 | +23 12 | 07.4 | | 675 |
| 1761 | 1978 11 | 29.34653 | 04 05 | 08.25 | +19 57 | 50.5 | 17.5 | 675 |
| 1761 | 1978 11 | 30.34809 | 04 04 | 13.32 | +19 56 | 16.6 | | 675 |
| 1841 | 1978 11 | 29.40486 | 04 44 | 19.18 | +23 54 | 46.5 | 18.0 | 675 |
| 1841 | 1978 11 | 30.40503 | 04 43 | 29.56 | +23 53 | 52.9 | | 675 |
| 1899 | 1978 11 | 29.34653 | 04 06 | 20.42 | +23 50 | 16.1 | 18.0 | 675 |
| 1899 | 1978 11 | 30.34809 | 04 05 | 06.43 | +23 50 | 25.9 | | 675 |
| 2039 | 1978 11 | 29.34653 | 04 10 | 05.90 | +19 05 | 16.5 | 18.5 | 675 |
| 2039 | 1978 11 | 30.34809 | 04 09 | 13.14 | +19 03 | 37.9 | | 675 |
| 2169 | 1978 11 | 29.40486 | 04 44 | 33.67 | +22 15 | 41.5 | 18.0 | 675 |
| 2169 | 1978 11 | 30.40503 | 04 43 | 35.22 | +22 14 | 31.7 | | 675 |
| 2177 | 1978 11 | 29.40486 | 04 38 | 20.96 | +22 47 | 32.0 | 18.5 | 675 |
| 2177 | 1978 11 | 30.40503 | 04 37 | 28.67 | +22 46 | 11.4 | | 675 |
| 2182 | 1978 11 | 29.40486 | 04 44 | 11.65 | +23 22 | 25.6 | 18.0 | 675 |
| 2182 | 1978 11 | 30.40503 | 04 43 | 19.85 | +23 21 | 20.2 | | 675 |
| 1977 GA | 1978 11 | 29.40486 | 04 39 | 56.23 | +18 53 | 46.6 | 18.0 | 675 |
| 1977 GA | 1978 11 | 30.40503 | 04 38 | 49.84 | +18 43 | 00.2 | | 675 |

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|----------|------------------|-------------|-------------|------|-----|
| 1978 VW2 | 1978 11 29.34653 | 04 28 59.32 | +19 21 22.4 | 19.5 | 675 |
| 1978 VW2 | 1978 11 29.45694 | 04 28 53.71 | +19 21 10.9 | | 675 |
| 1978 VW2 | 1978 11 30.34809 | 04 28 06.39 | +19 19 36.4 | | 675 |
| 1978 VW2 | 1978 11 30.45712 | 04 28 00.95 | +19 19 25.4 | | 675 |
| 1978 VX2 | 1978 11 29.34653 | 04 26 15.15 | +17 51 29.8 | 20.0 | 675 |
| 1978 VX2 | 1978 11 30.34809 | 04 25 15.34 | +17 43 29.5 | | 675 |
| 1978 VC3 | 1978 11 29.34653 | 04 26 41.61 | +22 59 55.2 | 19.0 | 675 |
| 1978 VC3 | 1978 11 29.45694 | 04 26 35.16 | +22 59 27.2 | | 675 |
| 1978 VC3 | 1978 11 30.34809 | 04 25 41.92 | +22 55 49.1 | | 675 |
| 1978 VC3 | 1978 11 30.45712 | 04 25 35.43 | +22 55 23.0 | | 675 |
| 1978 VD3 | 1978 11 29.34653 | 04 25 52.33 | +23 38 37.0 | 19.5 | 675 |
| 1978 VD3 | 1978 11 29.45694 | 04 25 45.58 | +23 38 20.0 | | 675 |
| 1978 VD3 | 1978 11 30.34809 | 04 24 50.34 | +23 36 02.9 | | 675 |
| 1978 VE3 | 1978 11 29.34653 | 04 28 47.04 | +23 10 44.7 | 19.5 | 675 |
| 1978 VE3 | 1978 11 29.45694 | 04 28 41.38 | +23 10 21.5 | | 675 |
| 1978 VE3 | 1978 11 30.34809 | 04 27 55.27 | +23 07 19.8 | | 675 |
| 1978 VE3 | 1978 11 30.45712 | 04 27 49.78 | +23 06 57.5 | | 675 |
| 1978 VF3 | 1978 11 29.34653 | 04 29 06.46 | +22 45 29.2 | 18.5 | 675 |
| 1978 VF3 | 1978 11 29.45694 | 04 28 59.63 | +22 45 21.4 | | 675 |
| 1978 VF3 | 1978 11 30.34809 | 04 28 06.44 | +22 44 41.5 | | 675 |
| 1978 VF3 | 1978 11 30.45712 | 04 27 59.75 | +22 44 34.7 | | 675 |
| 1978 VG3 | 1978 11 29.40486 | 04 27 03.03 | +24 35 18.3 | 17.0 | 675 |
| 1978 VH3 | 1978 11 29.40486 | 04 29 42.58 | +20 41 01.8 | 19.0 | 675 |
| 1978 VH3 | 1978 11 30.34809 | 04 28 49.18 | +20 41 47.8 | | 675 |
| 1978 VH3 | 1978 11 30.45712 | 04 28 43.11 | +20 41 53.1 | | 675 |
| 1978 VJ3 | 1978 11 29.34653 | 04 27 38.73 | +23 20 58.0 | 20.0 | 675 |
| 1978 VJ3 | 1978 11 29.45694 | 04 27 32.93 | +23 20 27.8 | | 675 |
| 1978 VJ3 | 1978 11 30.34809 | 04 26 45.22 | +23 16 27.1 | | 675 |
| 1978 VJ3 | 1978 11 30.45712 | 04 26 39.89 | +23 16 00.7 | | 675 |
| 1978 VK3 | 1978 11 29.34653 | 04 26 12.24 | +22 27 28.2 | 19.5 | 675 |
| 1978 VK3 | 1978 11 29.45694 | 04 26 05.51 | +22 27 03.5 | | 675 |
| 1978 VK3 | 1978 11 30.34809 | 04 25 10.84 | +22 23 39.5 | | 675 |
| 1978 VL3 | 1978 11 29.34653 | 04 23 48.45 | +23 42 39.4 | 19.5 | 675 |
| 1978 VL3 | 1978 11 30.34809 | 04 22 36.06 | +23 41 29.8 | | 675 |
| 1978 VN3 | 1978 11 29.34653 | 04 28 58.60 | +19 15 02.1 | 20.0 | 675 |
| 1978 VN3 | 1978 11 29.45694 | 04 28 52.59 | +19 14 38.4 | | 675 |
| 1978 VN3 | 1978 11 30.34809 | 04 28 01.42 | +19 11 15.1 | | 675 |
| 1978 VN3 | 1978 11 30.45712 | 04 27 55.41 | +19 10 52.1 | | 675 |
| 1978 VO3 | 1978 11 29.34653 | 04 25 30.09 | +19 10 47.0 | 20.0 | 675 |
| 1978 VO3 | 1978 11 30.40017 | 04 24 18.31 | +19 07 04.3 | | 675 |
| 1978 VQ3 | 1978 11 29.40486 | 04 30 18.85 | +19 25 02.5 | 18.5 | 675 |
| 1978 VQ3 | 1978 11 30.34809 | 04 29 22.98 | +19 18 18.2 | | 675 |
| 1978 VQ3 | 1978 11 30.45712 | 04 29 16.42 | +19 17 32.7 | | 675 |
| 1978 VR3 | 1978 11 29.45694 | 04 29 25.19 | +20 54 27.0 | 20.0 | 675 |
| 1978 VR3 | 1978 11 30.45712 | 04 28 23.09 | +20 51 02.8 | | 675 |
| 1978 VS3 | 1978 11 29.39861 | 04 30 03.83 | +19 55 21.3 | 20.0 | 675 |
| 1978 VS3 | 1978 11 29.45694 | 04 29 59.97 | +19 54 57.5 | | 675 |
| 1978 VS3 | 1978 11 30.40017 | 04 29 03.07 | +19 49 04.1 | | 675 |
| 1978 VS3 | 1978 11 30.45712 | 04 28 59.63 | +19 48 41.6 | | 675 |
| 1978 VT3 | 1978 11 29.34653 | 04 25 47.78 | +23 37 20.8 | 19.5 | 675 |
| 1978 VT3 | 1978 11 29.45694 | 04 25 40.08 | +23 37 41.6 | | 675 |
| 1978 VT3 | 1978 11 30.34809 | 04 24 37.00 | +23 40 33.2 | | 675 |
| 1978 VU3 | 1978 11 29.34653 | 04 28 44.37 | +21 04 14.8 | 19.0 | 675 |
| 1978 VU3 | 1978 11 29.40486 | 04 28 40.61 | +21 03 57.9 | | 675 |
| 1978 VU3 | 1978 11 30.34809 | 04 27 44.33 | +20 59 26.4 | | 675 |
| 1978 VU3 | 1978 11 30.45712 | 04 27 37.84 | +20 58 55.4 | | 675 |
| 1978 VV3 | 1978 11 29.34653 | 04 29 31.37 | +23 35 11.0 | 18.5 | 675 |
| 1978 VV3 | 1978 11 29.45694 | 04 29 24.78 | +23 35 21.1 | | 675 |
| 1978 VV3 | 1978 11 30.34809 | 04 28 31.60 | +23 36 57.1 | | 675 |

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|------|-----|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | VV3 | 1978 | 11 | 30.45712 | 04 | 28 | 25.17 | +23 | 37 | 08.7 | | 675 |
| 1978 | VW3 | 1978 | 11 | 29.34653 | 04 | 27 | 45.48 | +21 | 29 | 06.5 | 20.0 | 675 |
| 1978 | VW3 | 1978 | 11 | 29.40486 | 04 | 27 | 41.45 | +21 | 28 | 48.3 | | 675 |
| 1978 | VW3 | 1978 | 11 | 30.34809 | 04 | 26 | 40.90 | +21 | 23 | 47.8 | | 675 |
| 1978 | VX3 | 1978 | 11 | 29.39861 | 04 | 29 | 43.79 | +22 | 19 | 49.4 | 20.0 | 675 |
| 1978 | VX3 | 1978 | 11 | 29.45694 | 04 | 29 | 40.18 | +22 | 19 | 36.0 | | 675 |
| 1978 | VX3 | 1978 | 11 | 30.34809 | 04 | 28 | 46.82 | +22 | 16 | 45.1 | | 675 |
| 1978 | VX3 | 1978 | 11 | 30.45712 | 04 | 28 | 40.29 | +22 | 16 | 23.3 | | 675 |
| 1978 | VY3 | 1978 | 11 | 29.34653 | 04 | 29 | 21.70 | +23 | 52 | 18.4 | 19.0 | 675 |
| 1978 | VY3 | 1978 | 11 | 29.45694 | 04 | 29 | 14.75 | +23 | 51 | 51.7 | | 675 |
| 1978 | VY3 | 1978 | 11 | 30.34809 | 04 | 28 | 18.64 | +23 | 48 | 24.3 | | 675 |
| 1978 | VY3 | 1978 | 11 | 30.45712 | 04 | 28 | 11.84 | +23 | 47 | 59.6 | | 675 |
| 1978 | VZ3 | 1978 | 11 | 29.40486 | 04 | 30 | 19.33 | +24 | 18 | 28.1 | 18.5 | 675 |
| 1978 | VZ3 | 1978 | 11 | 30.40503 | 04 | 29 | 20.81 | +24 | 16 | 45.0 | | 675 |
| 1978 | VB4 | 1978 | 11 | 29.39861 | 04 | 29 | 40.96 | +22 | 27 | 54.5 | 19.5 | 675 |
| 1978 | VB4 | 1978 | 11 | 29.45694 | 04 | 29 | 36.91 | +22 | 27 | 30.5 | | 675 |
| 1978 | VB4 | 1978 | 11 | 30.34809 | 04 | 28 | 40.21 | +22 | 22 | 06.0 | | 675 |
| 1978 | VB4 | 1978 | 11 | 30.45712 | 04 | 28 | 33.13 | +22 | 21 | 25.9 | | 675 |
| 1978 | VC4 | 1978 | 11 | 29.40486 | 04 | 31 | 25.82 | +24 | 00 | 43.7 | 20.0 | 675 |
| 1978 | VC4 | 1978 | 11 | 30.40503 | 04 | 30 | 27.51 | +23 | 58 | 57.3 | | 675 |
| 1978 | VD4 | 1978 | 11 | 29.34653 | 04 | 29 | 12.31 | +23 | 33 | 49.5 | 19.5 | 675 |
| 1978 | VD4 | 1978 | 11 | 30.34809 | 04 | 28 | 09.98 | +23 | 32 | 41.1 | | 675 |
| 1978 | VE4 | 1978 | 11 | 29.34653 | 04 | 27 | 58.16 | +23 | 51 | 09.8 | 20.0 | 675 |
| 1978 | VE4 | 1978 | 11 | 29.45694 | 04 | 27 | 50.29 | +23 | 51 | 10.7 | | 675 |
| 1978 | VE4 | 1978 | 11 | 30.40503 | 04 | 26 | 43.78 | +23 | 51 | 26.4 | | 675 |
| 1978 | VF4 | 1978 | 11 | 29.40486 | 04 | 32 | 08.62 | +23 | 02 | 52.5 | 19.0 | 675 |
| 1978 | VF4 | 1978 | 11 | 30.40503 | 04 | 31 | 11.99 | +23 | 02 | 01.3 | | 675 |
| 1978 | VG4 | 1978 | 11 | 29.40486 | 04 | 30 | 33.32 | +22 | 51 | 49.7 | 20.0 | 675 |
| 1978 | VG4 | 1978 | 11 | 30.40503 | 04 | 29 | 32.80 | +22 | 50 | 54.2 | | 675 |
| 1978 | VH4 | 1978 | 11 | 29.34653 | 04 | 30 | 10.35 | +20 | 53 | 15.2 | 19.5 | 675 |
| 1978 | VH4 | 1978 | 11 | 29.45694 | 04 | 30 | 02.98 | +20 | 52 | 52.1 | | 675 |
| 1978 | VH4 | 1978 | 11 | 30.34809 | 04 | 29 | 05.30 | +20 | 49 | 55.5 | | 675 |
| 1978 | VH4 | 1978 | 11 | 30.40503 | 04 | 29 | 01.35 | +20 | 49 | 44.0 | | 675 |
| 1978 | VJ4 | 1978 | 11 | 29.40486 | 04 | 31 | 49.03 | +20 | 09 | 40.9 | 19.5 | 675 |
| 1978 | VJ4 | 1978 | 11 | 30.40503 | 04 | 30 | 49.54 | +20 | 04 | 31.1 | | 675 |
| 1978 | VK4 | 1978 | 11 | 29.40486 | 04 | 32 | 38.23 | +20 | 52 | 36.7 | 17.5 | 675 |
| 1978 | VK4 | 1978 | 11 | 30.40503 | 04 | 31 | 46.08 | +20 | 50 | 35.0 | | 675 |
| 1978 | VL4 | 1978 | 11 | 29.40486 | 04 | 35 | 01.47 | +19 | 05 | 35.6 | 19.5 | 675 |
| 1978 | VL4 | 1978 | 11 | 30.40503 | 04 | 34 | 06.81 | +18 | 59 | 19.8 | | 675 |
| 1978 | VM4 | 1978 | 11 | 29.40486 | 04 | 30 | 45.44 | +20 | 16 | 02.2 | 19.5 | 675 |
| 1978 | VM4 | 1978 | 11 | 30.40017 | 04 | 29 | 43.33 | +20 | 16 | 06.7 | | 675 |
| 1978 | VM4 | 1978 | 11 | 30.45712 | 04 | 29 | 39.77 | +20 | 16 | 07.0 | | 675 |
| 1978 | VN4 | 1978 | 11 | 29.34653 | 04 | 29 | 26.54 | +19 | 33 | 48.1 | 20.0 | 675 |
| 1978 | VN4 | 1978 | 11 | 29.45694 | 04 | 29 | 19.15 | +19 | 33 | 39.9 | | 675 |
| 1978 | VN4 | 1978 | 11 | 30.34809 | 04 | 28 | 19.90 | +19 | 32 | 27.2 | | 675 |
| 1978 | VN4 | 1978 | 11 | 30.45712 | 04 | 28 | 12.73 | +19 | 32 | 18.8 | | 675 |
| 1978 | VO4 | 1978 | 11 | 29.34653 | 04 | 29 | 27.43 | +19 | 42 | 41.9 | 19.5 | 675 |
| 1978 | VO4 | 1978 | 11 | 29.45694 | 04 | 29 | 20.47 | +19 | 42 | 34.4 | | 675 |
| 1978 | VO4 | 1978 | 11 | 30.34809 | 04 | 28 | 21.60 | +19 | 41 | 29.6 | | 675 |
| 1978 | VO4 | 1978 | 11 | 30.40503 | 04 | 28 | 17.71 | +19 | 41 | 24.1 | | 675 |
| 1978 | VP4 | 1978 | 11 | 29.40486 | 04 | 33 | 31.60 | +19 | 21 | 35.8 | 20.0 | 675 |
| 1978 | VP4 | 1978 | 11 | 30.40503 | 04 | 32 | 35.66 | +19 | 19 | 18.5 | | 675 |
| 1978 | VQ4 | 1978 | 11 | 29.34653 | 04 | 28 | 02.27 | +19 | 16 | 06.4 | 18.0 | 675 |
| 1978 | VQ4 | 1978 | 11 | 29.45694 | 04 | 27 | 54.68 | +19 | 15 | 38.8 | | 675 |
| 1978 | VQ4 | 1978 | 11 | 30.34809 | 04 | 26 | 52.40 | +19 | 11 | 45.9 | | 675 |
| 1978 | VQ4 | 1978 | 11 | 30.45712 | 04 | 26 | 45.00 | +19 | 11 | 18.4 | | 675 |
| 1978 | VR4 | 1978 | 11 | 29.40486 | 04 | 31 | 27.41 | +18 | 59 | 42.0 | 18.0 | 675 |
| 1978 | VR4 | 1978 | 11 | 30.40503 | 04 | 30 | 21.77 | +18 | 54 | 16.0 | | 675 |
| 1978 | VS4 | 1978 | 11 | 29.40486 | 04 | 33 | 44.12 | +22 | 30 | 24.8 | 18.0 | 675 |

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|----------|------------------|-------------|-------------|------|-----|
| 1978 VS4 | 1978 11 30.40503 | 04 32 52.64 | +22 28 37.6 | | 675 |
| 1978 VT4 | 1978 11 29.40486 | 04 33 40.28 | +23 18 13.9 | 19.0 | 675 |
| 1978 VT4 | 1978 11 30.40503 | 04 32 45.64 | +23 16 52.5 | | 675 |
| 1978 VW4 | 1978 11 29.40486 | 04 33 07.58 | +23 38 57.4 | 19.5 | 675 |
| 1978 VW4 | 1978 11 30.45712 | 04 32 00.81 | +23 37 58.0 | | 675 |
| 1978 VX4 | 1978 11 29.34653 | 04 29 02.13 | +22 05 49.7 | 19.5 | 675 |
| 1978 VX4 | 1978 11 29.45694 | 04 28 54.10 | +22 05 45.4 | | 675 |
| 1978 VX4 | 1978 11 30.34809 | 04 27 51.25 | +22 05 28.1 | | 675 |
| 1978 VX4 | 1978 11 30.45712 | 04 27 43.77 | +22 05 26.3 | | 675 |
| 1978 VZ4 | 1978 11 29.40486 | 04 34 15.59 | +19 12 37.6 | 19.0 | 675 |
| 1978 VZ4 | 1978 11 30.40503 | 04 33 16.96 | +19 10 13.2 | | 675 |
| 1978 VA5 | 1978 11 29.40486 | 04 36 33.77 | +19 51 48.3 | 19.0 | 675 |
| 1978 VA5 | 1978 11 30.40503 | 04 35 39.46 | +19 51 15.6 | | 675 |
| 1978 VB5 | 1978 11 29.40486 | 04 30 53.40 | +21 12 48.8 | 19.0 | 675 |
| 1978 VB5 | 1978 11 30.34809 | 04 29 48.98 | +21 13 13.6 | | 675 |
| 1978 VB5 | 1978 11 30.40503 | 04 29 44.75 | +21 13 14.8 | | 675 |
| 1978 VC5 | 1978 11 29.40486 | 04 33 57.50 | +19 48 49.6 | 18.5 | 675 |
| 1978 VC5 | 1978 11 30.40503 | 04 32 53.16 | +19 45 12.7 | | 675 |
| 1978 VD5 | 1978 11 29.40486 | 04 36 40.16 | +20 17 24.5 | 19.0 | 675 |
| 1978 VD5 | 1978 11 30.40503 | 04 35 46.61 | +20 15 20.4 | | 675 |
| 1978 VE5 | 1978 11 29.40486 | 04 31 38.41 | +22 12 53.8 | 18.0 | 675 |
| 1978 VE5 | 1978 11 30.40503 | 04 30 33.53 | +22 14 18.0 | | 675 |
| 1978 VF5 | 1978 11 29.40486 | 04 32 16.16 | +22 18 13.0 | 19.5 | 675 |
| 1978 VF5 | 1978 11 30.40503 | 04 31 05.96 | +22 19 46.1 | | 675 |
| 1978 VG5 | 1978 11 29.40486 | 04 36 40.17 | +22 52 00.0 | 18.5 | 675 |
| 1978 VG5 | 1978 11 30.40503 | 04 35 45.72 | +22 50 09.5 | | 675 |
| 1978 VH5 | 1978 11 29.40486 | 04 36 03.55 | +22 00 00.7 | 19.5 | 675 |
| 1978 VH5 | 1978 11 30.40503 | 04 35 09.96 | +21 55 29.9 | | 675 |
| 1978 VL5 | 1978 11 29.40486 | 04 29 57.10 | +24 15 17.5 | 18.0 | 675 |
| 1978 VL5 | 1978 11 30.45712 | 04 28 41.32 | +24 10 12.8 | | 675 |
| 1978 VO5 | 1978 11 29.40486 | 04 32 51.62 | +23 53 34.6 | 19.0 | 675 |
| 1978 VO5 | 1978 11 30.40503 | 04 31 44.44 | +23 49 38.0 | | 675 |
| 1978 VP5 | 1978 11 29.40486 | 04 36 39.77 | +23 12 32.0 | 18.5 | 675 |
| 1978 VP5 | 1978 11 30.40503 | 04 35 44.50 | +23 11 00.4 | | 675 |
| 1978 VQ5 | 1978 11 29.40486 | 04 37 07.68 | +21 50 45.8 | 18.5 | 675 |
| 1978 VQ5 | 1978 11 30.40503 | 04 36 13.54 | +21 49 49.8 | | 675 |
| 1978 VS5 | 1978 11 29.40486 | 04 34 02.66 | +21 08 50.9 | 19.0 | 675 |
| 1978 VS5 | 1978 11 30.40503 | 04 32 59.11 | +21 06 06.3 | | 675 |
| 1978 VU5 | 1978 11 29.40486 | 04 34 56.90 | +19 04 34.0 | 19.0 | 675 |
| 1978 VU5 | 1978 11 30.40503 | 04 33 53.28 | +19 01 43.7 | | 675 |
| 1978 VV5 | 1978 11 29.40486 | 04 34 28.70 | +19 12 18.9 | 18.5 | 675 |
| 1978 VV5 | 1978 11 30.40503 | 04 33 21.68 | +19 10 07.3 | | 675 |
| 1978 VW5 | 1978 11 29.40486 | 04 32 31.78 | +19 44 32.9 | 20.0 | 675 |
| 1978 VW5 | 1978 11 30.45712 | 04 31 18.72 | +19 40 58.0 | | 675 |
| 1978 VX5 | 1978 11 29.40486 | 04 31 20.47 | +21 42 53.8 | 20.0 | 675 |
| 1978 VX5 | 1978 11 30.40503 | 04 30 07.06 | +21 43 10.7 | | 675 |
| 1978 VY5 | 1978 11 29.40486 | 04 36 48.18 | +21 34 05.0 | 18.5 | 675 |
| 1978 VY5 | 1978 11 30.40503 | 04 35 42.74 | +21 33 44.7 | | 675 |
| 1978 VZ5 | 1978 11 29.40486 | 04 38 16.35 | +20 44 02.4 | 19.5 | 675 |
| 1978 VZ5 | 1978 11 30.40503 | 04 37 19.99 | +20 40 21.3 | | 675 |
| 1978 VB6 | 1978 11 29.40486 | 04 32 31.02 | +19 32 30.2 | 19.0 | 675 |
| 1978 VB6 | 1978 11 30.45712 | 04 31 19.77 | +19 22 14.3 | | 675 |
| 1978 VC6 | 1978 11 29.40486 | 04 32 40.22 | +20 41 52.8 | 19.0 | 675 |
| 1978 VC6 | 1978 11 30.40503 | 04 31 33.81 | +20 35 12.4 | | 675 |
| 1978 VE6 | 1978 11 29.40486 | 04 33 16.38 | +23 10 02.0 | 20.0 | 675 |
| 1978 VE6 | 1978 11 30.40503 | 04 32 08.08 | +23 08 16.0 | | 675 |
| 1978 VF6 | 1978 11 29.40486 | 04 35 49.73 | +23 01 46.4 | 20.0 | 675 |
| 1978 VF6 | 1978 11 30.40503 | 04 34 43.44 | +22 56 50.8 | | 675 |
| 1978 VO6 | 1978 11 29.40486 | 04 35 15.92 | +24 35 30.0 | 19.0 | 675 |

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|----------|------------------|-------------|-------------|------|-----|
| 1978 VO6 | 1978 11 30.40503 | 04 34 05.25 | +24 31 21.7 | | 675 |
| 1978 VP6 | 1978 11 29.40486 | 04 36 08.11 | +24 36 12.3 | 20.0 | 675 |
| 1978 VP6 | 1978 11 30.40503 | 04 35 02.30 | +24 33 50.0 | | 675 |
| 1978 VT6 | 1978 11 29.40486 | 04 33 51.28 | +23 15 04.4 | 19.0 | 675 |
| 1978 VT6 | 1978 11 30.40503 | 04 32 38.54 | +23 10 53.2 | | 675 |
| 1978 VU6 | 1978 11 29.45694 | 04 38 29.56 | +23 17 00.7 | 19.0 | 675 |
| 1978 VU6 | 1978 11 30.40503 | 04 37 30.92 | +23 14 01.1 | | 675 |
| 1978 VV6 | 1978 11 29.40486 | 04 31 59.93 | +23 43 09.0 | 19.5 | 675 |
| 1978 VV6 | 1978 11 30.40503 | 04 30 45.39 | +23 41 51.7 | | 675 |
| 1978 VW6 | 1978 11 29.40486 | 04 38 32.82 | +19 34 28.1 | 19.0 | 675 |
| 1978 VW6 | 1978 11 30.40503 | 04 37 34.08 | +19 24 16.7 | | 675 |
| 1978 VX6 | 1978 11 29.40486 | 04 35 04.14 | +24 26 23.8 | 19.0 | 675 |
| 1978 VX6 | 1978 11 30.40503 | 04 33 54.42 | +24 30 09.1 | | 675 |
| 1978 VZ6 | 1978 11 29.40486 | 04 39 53.68 | +21 50 31.7 | 20.0 | 675 |
| 1978 VZ6 | 1978 11 30.45712 | 04 38 58.50 | +21 48 14.3 | | 675 |
| 1978 VB7 | 1978 11 29.40486 | 04 38 47.47 | +19 47 32.4 | 19.5 | 675 |
| 1978 VB7 | 1978 11 30.40503 | 04 37 49.99 | +19 40 08.6 | | 675 |
| 1978 VD7 | 1978 11 29.40486 | 04 38 37.42 | +21 42 23.2 | 19.0 | 675 |
| 1978 VD7 | 1978 11 30.40503 | 04 37 39.18 | +21 41 43.1 | | 675 |
| 1978 VE7 | 1978 11 29.40486 | 04 35 48.53 | +20 41 49.8 | 19.0 | 675 |
| 1978 VE7 | 1978 11 30.40503 | 04 34 39.06 | +20 39 21.9 | | 675 |
| 1978 VF7 | 1978 11 29.40486 | 04 38 29.73 | +20 23 44.3 | 20.0 | 675 |
| 1978 VF7 | 1978 11 30.40503 | 04 37 23.78 | +20 23 09.1 | | 675 |
| 1978 VG7 | 1978 11 29.40486 | 04 37 06.69 | +20 29 36.9 | 19.5 | 675 |
| 1978 VG7 | 1978 11 30.45712 | 04 35 52.52 | +20 27 04.6 | | 675 |
| 1978 VH7 | 1978 11 29.40486 | 04 39 59.80 | +22 44 28.6 | 19.0 | 675 |
| 1978 VH7 | 1978 11 30.40503 | 04 38 52.47 | +22 47 51.4 | | 675 |
| 1978 VJ7 | 1978 11 29.40486 | 04 41 32.06 | +21 21 40.4 | 19.0 | 675 |
| 1978 VJ7 | 1978 11 30.40503 | 04 40 40.69 | +21 19 56.2 | | 675 |
| 1978 VL7 | 1978 11 29.40486 | 04 36 03.24 | +21 09 47.6 | 19.0 | 675 |
| 1978 VL7 | 1978 11 30.45712 | 04 34 48.83 | +21 06 10.3 | | 675 |
| 1978 VM7 | 1978 11 29.40486 | 04 35 39.54 | +20 38 47.2 | 20.0 | 675 |
| 1978 VM7 | 1978 11 30.40503 | 04 34 33.34 | +20 33 45.8 | | 675 |
| 1978 VQ7 | 1978 11 29.40486 | 04 40 37.10 | +22 32 23.6 | 19.5 | 675 |
| 1978 VQ7 | 1978 11 30.40503 | 04 39 38.88 | +22 27 31.1 | | 675 |
| 1978 VU7 | 1978 11 29.40486 | 04 42 23.81 | +24 15 51.9 | 18.5 | 675 |
| 1978 VU7 | 1978 11 30.40503 | 04 41 25.20 | +24 14 04.0 | | 675 |
| 1978 VW7 | 1978 11 29.40486 | 04 43 26.22 | +23 20 25.4 | 19.5 | 675 |
| 1978 VW7 | 1978 11 30.40503 | 04 42 26.47 | +23 17 29.7 | | 675 |
| 1978 VY7 | 1978 11 29.40486 | 04 43 59.97 | +24 01 08.0 | 20.0 | 675 |
| 1978 VY7 | 1978 11 30.40503 | 04 43 05.10 | +24 00 28.3 | | 675 |
| 1978 VZ7 | 1978 11 29.45694 | 04 42 08.71 | +23 23 15.9 | 19.5 | 675 |
| 1978 VZ7 | 1978 11 30.40503 | 04 41 16.21 | +23 21 50.9 | | 675 |
| 1978 VC8 | 1978 11 29.40486 | 04 41 01.93 | +20 55 53.8 | 20.0 | 675 |
| 1978 VC8 | 1978 11 30.40503 | 04 39 56.86 | +20 48 52.1 | | 675 |
| 1978 VD8 | 1978 11 29.45694 | 04 38 08.54 | +23 15 20.6 | 20.0 | 675 |
| 1978 VD8 | 1978 11 30.40503 | 04 37 00.77 | +23 14 43.8 | | 675 |
| 1978 VE8 | 1978 11 29.40486 | 04 43 25.77 | +23 07 31.5 | 20.0 | 675 |
| 1978 VE8 | 1978 11 30.40503 | 04 42 30.12 | +23 06 53.6 | | 675 |
| 1978 VF8 | 1978 11 29.45694 | 04 36 53.23 | +24 02 50.2 | 20.0 | 675 |
| 1978 VF8 | 1978 11 30.40503 | 04 35 42.01 | +24 05 33.9 | | 675 |
| 1978 VG8 | 1978 11 29.40486 | 04 38 23.39 | +23 00 15.4 | 20.0 | 675 |
| 1978 VG8 | 1978 11 30.40503 | 04 37 14.30 | +23 00 12.3 | | 675 |
| 1978 VH8 | 1978 11 29.40486 | 04 43 17.22 | +22 08 12.1 | 18.5 | 675 |
| 1978 VH8 | 1978 11 30.40503 | 04 42 20.69 | +22 06 07.7 | | 675 |
| 1978 VJ8 | 1978 11 29.40486 | 04 44 13.39 | +21 13 25.4 | 20.0 | 675 |
| 1978 VJ8 | 1978 11 30.40503 | 04 43 22.48 | +21 11 45.1 | | 675 |
| 1978 VK8 | 1978 11 29.40486 | 04 43 01.80 | +21 13 55.2 | 18.5 | 675 |
| 1978 VK8 | 1978 11 30.40503 | 04 42 03.79 | +21 13 10.5 | | 675 |

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|-----------|------------------|-------------|-------------|------|-----|
| 1978 VL8 | 1978 11 29.40486 | 04 40 01.85 | +22 54 17.9 | 19.5 | 675 |
| 1978 VL8 | 1978 11 30.40503 | 04 38 56.91 | +22 59 48.3 | | 675 |
| 1978 VM8 | 1978 11 29.40486 | 04 43 26.03 | +18 21 38.2 | 19.5 | 675 |
| 1978 VM8 | 1978 11 30.40503 | 04 42 24.90 | +18 15 36.2 | | 675 |
| 1978 VO8 | 1978 11 29.40486 | 04 43 51.65 | +19 49 29.4 | 19.0 | 675 |
| 1978 VO8 | 1978 11 30.40503 | 04 42 57.50 | +19 48 18.9 | | 675 |
| 1978 VQ8 | 1978 11 29.40486 | 04 42 41.63 | +19 05 03.2 | 20.0 | 675 |
| 1978 VQ8 | 1978 11 30.40503 | 04 41 41.74 | +19 01 31.1 | | 675 |
| 1978 VR8 | 1978 11 29.40486 | 04 43 25.48 | +19 31 50.6 | 20.0 | 675 |
| 1978 VR8 | 1978 11 30.40503 | 04 42 17.69 | +19 29 47.6 | | 675 |
| 1978 VS8 | 1978 11 29.40486 | 04 44 27.74 | +19 25 06.9 | 19.5 | 675 |
| 1978 VS8 | 1978 11 30.40503 | 04 43 26.54 | +19 22 44.0 | | 675 |
| 1978 VT8 | 1978 11 29.40486 | 04 46 48.68 | +20 00 43.7 | 19.5 | 675 |
| 1978 VT8 | 1978 11 30.40503 | 04 45 55.63 | +19 57 46.4 | | 675 |
| 1978 VU8 | 1978 11 29.40486 | 04 46 12.40 | +21 19 22.7 | 19.5 | 675 |
| 1978 VU8 | 1978 11 30.40503 | 04 45 13.25 | +21 19 27.3 | | 675 |
| 1978 VV8 | 1978 11 29.40486 | 04 44 28.02 | +21 19 53.0 | 20.0 | 675 |
| 1978 VV8 | 1978 11 30.40503 | 04 43 25.24 | +21 19 40.0 | | 675 |
| 1978 VW8 | 1978 11 29.40486 | 04 46 14.51 | +21 35 35.6 | 18.5 | 675 |
| 1978 VX8 | 1978 11 29.40486 | 04 46 22.64 | +22 50 14.7 | 19.5 | 675 |
| 1978 VX8 | 1978 11 30.40503 | 04 45 29.29 | +22 49 16.5 | | 675 |
| 1978 VY8 | 1978 11 29.40486 | 04 44 30.93 | +21 34 16.5 | 19.0 | 675 |
| 1978 VY8 | 1978 11 30.40503 | 04 43 37.89 | +21 29 37.4 | | 675 |
| 1978 VZ8 | 1978 11 29.45694 | 04 42 37.39 | +23 32 41.4 | 19.5 | 675 |
| 1978 VZ8 | 1978 11 30.40503 | 04 41 37.91 | +23 32 52.4 | | 675 |
| 1978 VA9 | 1978 11 29.40486 | 04 45 30.33 | +21 47 14.8 | 19.5 | 675 |
| 1978 VA9 | 1978 11 30.40503 | 04 44 32.77 | +21 42 07.3 | | 675 |
| 1978 VB9 | 1978 11 29.40486 | 04 42 21.10 | +24 04 44.9 | 20.0 | 675 |
| 1978 VB9 | 1978 11 30.40503 | 04 41 14.84 | +24 05 37.3 | | 675 |
| 1978 VE9 | 1978 11 29.40486 | 04 44 11.18 | +23 28 14.1 | 19.0 | 675 |
| 1978 VE9 | 1978 11 30.40503 | 04 43 15.76 | +23 26 23.6 | | 675 |
| 1978 VH9 | 1978 11 29.40486 | 04 44 33.35 | +23 53 59.1 | 19.5 | 675 |
| 1978 VH9 | 1978 11 30.40503 | 04 43 30.26 | +23 49 34.3 | | 675 |
| 1978 VK9 | 1978 11 29.40486 | 04 42 35.34 | +21 31 59.9 | 17.5 | 675 |
| 1978 VK9 | 1978 11 30.45712 | 04 41 25.00 | +21 26 07.0 | | 675 |
| 1978 VL9 | 1978 11 29.40486 | 04 46 01.24 | +19 21 35.6 | 20.0 | 675 |
| 1978 VL9 | 1978 11 30.40503 | 04 45 01.92 | +19 19 41.9 | | 675 |
| 1978 VM9 | 1978 11 29.40486 | 04 44 57.09 | +20 42 09.6 | 19.0 | 675 |
| 1978 VN9 | 1978 11 29.40486 | 04 45 24.21 | +20 13 33.1 | 19.0 | 675 |
| 1978 VN9 | 1978 11 30.40503 | 04 44 23.16 | +20 13 00.1 | | 675 |
| 1978 VP9 | 1978 11 29.40486 | 04 43 43.36 | +19 53 11.5 | 20.0 | 675 |
| 1978 VP9 | 1978 11 30.40503 | 04 42 36.68 | +19 48 13.0 | | 675 |
| 1978 VQ9 | 1978 11 29.40486 | 04 42 16.07 | +23 05 54.7 | 19.0 | 675 |
| 1978 VQ9 | 1978 11 30.40503 | 04 41 05.96 | +23 08 31.6 | | 675 |
| 1978 VR9 | 1978 11 29.40486 | 04 48 15.52 | +21 49 22.2 | 18.5 | 675 |
| 1978 VR9 | 1978 11 30.40503 | 04 47 21.19 | +21 48 38.0 | | 675 |
| 1978 VS9 | 1978 11 29.45694 | 04 46 20.05 | +22 04 33.3 | 20.0 | 675 |
| 1978 VS9 | 1978 11 30.40503 | 04 45 19.95 | +22 02 30.6 | | 675 |
| 1978 VT9 | 1978 11 29.40486 | 04 41 14.59 | +24 00 50.5 | 19.5 | 675 |
| 1978 VT9 | 1978 11 30.40503 | 04 39 58.86 | +24 00 49.3 | | 675 |
| 1978 VU9 | 1978 11 29.40486 | 04 46 23.18 | +24 29 57.3 | 19.5 | 675 |
| 1978 VU9 | 1978 11 30.40503 | 04 45 18.98 | +24 30 58.2 | | 675 |
| 1978 VV9 | 1978 11 29.40486 | 04 48 29.30 | +23 33 57.6 | 19.5 | 675 |
| 1978 VV9 | 1978 11 30.40503 | 04 47 37.73 | +23 32 00.6 | | 675 |
| 1978 VB10 | 1978 11 29.40486 | 04 47 32.91 | +24 18 27.4 | 20.0 | 675 |
| 1978 VB10 | 1978 11 30.40503 | 04 46 35.18 | +24 14 27.5 | | 675 |
| 1978 VD10 | 1978 11 29.40486 | 04 46 26.31 | +22 19 14.4 | 20.0 | 675 |
| 1978 VD10 | 1978 11 30.40503 | 04 45 22.54 | +22 15 46.2 | | 675 |
| 1978 VE10 | 1978 11 29.40486 | 04 48 42.25 | +22 57 25.0 | 20.0 | 675 |

| | | | | | | | | | | | | |
|------|------|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | VE10 | 1978 | 11 | 30.40503 | 04 | 47 | 48.06 | +22 | 56 | 18.4 | 675 | |
| 1978 | VG10 | 1978 | 11 | 29.40486 | 04 | 49 | 24.83 | +21 | 24 | 05.7 | 18.0 | 675 |
| 1978 | VG10 | 1978 | 11 | 30.40503 | 04 | 48 | 31.91 | +21 | 22 | 38.0 | 675 | |
| 1978 | VJ10 | 1978 | 11 | 29.40486 | 04 | 45 | 03.11 | +20 | 51 | 45.5 | 19.5 | 675 |
| 1978 | VJ10 | 1978 | 11 | 30.45712 | 04 | 43 | 55.16 | +20 | 52 | 09.2 | 675 | |
| 1978 | VK10 | 1978 | 11 | 29.40486 | 04 | 44 | 25.15 | +19 | 42 | 25.7 | 18.5 | 675 |
| 1978 | VK10 | 1978 | 11 | 30.40503 | 04 | 43 | 19.23 | +19 | 41 | 43.1 | 675 | |
| 1978 | VL10 | 1978 | 11 | 29.40486 | 04 | 49 | 06.88 | +19 | 17 | 09.6 | 19.0 | 675 |
| 1978 | VL10 | 1978 | 11 | 30.40503 | 04 | 48 | 11.43 | +19 | 15 | 26.4 | 675 | |
| 1978 | VM10 | 1978 | 11 | 29.40486 | 04 | 49 | 23.05 | +19 | 58 | 47.5 | 19.5 | 675 |
| 1978 | VM10 | 1978 | 11 | 30.40503 | 04 | 48 | 24.26 | +19 | 58 | 07.3 | 675 | |
| 1978 | VN10 | 1978 | 11 | 29.40486 | 04 | 52 | 10.93 | +19 | 19 | 47.2 | 19.5 | 675 |
| 1978 | VN10 | 1978 | 11 | 30.40503 | 04 | 51 | 18.34 | +19 | 17 | 15.5 | 675 | |
| 1978 | VO10 | 1978 | 11 | 29.40486 | 04 | 49 | 05.17 | +22 | 24 | 43.1 | 20.0 | 675 |
| 1978 | VO10 | 1978 | 11 | 30.40503 | 04 | 48 | 01.26 | +22 | 28 | 35.4 | 675 | |
| 1978 | VP10 | 1978 | 11 | 29.40486 | 04 | 47 | 07.62 | +21 | 15 | 50.3 | 19.5 | 675 |
| 1978 | VP10 | 1978 | 11 | 30.40503 | 04 | 46 | 01.79 | +21 | 15 | 34.3 | 675 | |
| 1978 | VQ10 | 1978 | 11 | 29.40486 | 04 | 50 | 40.29 | +19 | 43 | 22.7 | 18.5 | 675 |
| 1978 | VQ10 | 1978 | 11 | 30.40503 | 04 | 49 | 44.99 | +19 | 37 | 23.3 | 675 | |
| 1978 | VR10 | 1978 | 11 | 29.45694 | 04 | 49 | 09.27 | +23 | 07 | 04.7 | 20.0 | 675 |
| 1978 | VR10 | 1978 | 11 | 30.40503 | 04 | 48 | 10.84 | +23 | 08 | 42.1 | 675 | |
| 1978 | VS10 | 1978 | 11 | 29.40486 | 04 | 48 | 24.21 | +22 | 22 | 28.2 | 18.5 | 675 |
| 1978 | VS10 | 1978 | 11 | 30.40503 | 04 | 47 | 22.78 | +22 | 21 | 58.1 | 675 | |
| 1978 | VT10 | 1978 | 11 | 29.40486 | 04 | 47 | 34.40 | +21 | 45 | 00.5 | 19.5 | 675 |
| 1978 | VT10 | 1978 | 11 | 30.45712 | 04 | 46 | 24.43 | +21 | 42 | 08.3 | 675 | |
| 1978 | VU10 | 1978 | 11 | 29.40486 | 04 | 45 | 03.45 | +22 | 44 | 55.0 | 19.5 | 675 |
| 1978 | VU10 | 1978 | 11 | 30.40503 | 04 | 43 | 50.87 | +22 | 41 | 45.7 | 675 | |
| 1978 | VE11 | 1978 | 11 | 29.40486 | 04 | 49 | 44.92 | +21 | 26 | 37.1 | 19.0 | 675 |
| 1978 | VE11 | 1978 | 11 | 30.40503 | 04 | 48 | 37.20 | +21 | 21 | 00.6 | 675 | |
| 1978 | VG11 | 1978 | 11 | 29.40486 | 04 | 49 | 52.29 | +23 | 51 | 00.4 | 19.0 | 675 |
| 1978 | VG11 | 1978 | 11 | 30.40503 | 04 | 48 | 46.59 | +23 | 53 | 02.7 | 675 | |
| 1978 | VH11 | 1978 | 11 | 29.40486 | 04 | 50 | 40.45 | +22 | 30 | 50.4 | 19.5 | 675 |
| 1978 | VH11 | 1978 | 11 | 30.40503 | 04 | 49 | 38.72 | +22 | 31 | 05.2 | 675 | |
| 1978 | VJ11 | 1978 | 11 | 29.40486 | 04 | 49 | 45.80 | +22 | 22 | 54.7 | 20.0 | 675 |
| 1978 | VJ11 | 1978 | 11 | 30.40503 | 04 | 48 | 45.21 | +22 | 23 | 48.8 | 675 | |
| 1978 | VL11 | 1978 | 11 | 29.40486 | 04 | 48 | 34.20 | +21 | 49 | 11.3 | 19.0 | 675 |
| 1978 | VL11 | 1978 | 11 | 30.40503 | 04 | 47 | 28.26 | +21 | 49 | 09.3 | 675 | |
| 1978 | VM11 | 1978 | 11 | 29.40486 | 04 | 49 | 24.38 | +21 | 52 | 28.0 | 20.0 | 675 |
| 1978 | VM11 | 1978 | 11 | 30.40503 | 04 | 48 | 19.96 | +21 | 52 | 57.3 | 675 | |
| 1978 | VN11 | 1978 | 11 | 30.40503 | 04 | 52 | 31.89 | +19 | 50 | 01.5 | 18.0 | 675 |
| 1978 | VP11 | 1978 | 11 | 30.40503 | 04 | 51 | 56.01 | +20 | 44 | 29.2 | 19.0 | 675 |
| 1978 | WR * | 1978 | 11 | 29.34653 | 04 | 04 | 06.52 | +19 | 16 | 16.9 | 19.5 | 675 |
| 1978 | WR | 1978 | 11 | 30.34809 | 04 | 03 | 07.74 | +19 | 12 | 17.1 | 675 | |
| 1978 | WS * | 1978 | 11 | 29.34653 | 04 | 04 | 16.68 | +21 | 05 | 53.9 | 19.0 | 675 |
| 1978 | WS | 1978 | 11 | 30.34809 | 04 | 03 | 26.04 | +21 | 00 | 31.7 | 675 | |
| 1978 | WT * | 1978 | 11 | 29.34653 | 04 | 04 | 25.76 | +21 | 07 | 19.6 | 19.5 | 675 |
| 1978 | WT | 1978 | 11 | 30.34809 | 04 | 03 | 35.03 | +21 | 02 | 42.6 | 675 | |
| 1978 | WU * | 1978 | 11 | 29.34653 | 04 | 04 | 39.05 | +19 | 43 | 10.3 | 19.0 | 675 |
| 1978 | WU | 1978 | 11 | 30.34809 | 04 | 03 | 39.18 | +19 | 36 | 07.1 | 675 | |
| 1978 | WV * | 1978 | 11 | 29.34653 | 04 | 04 | 44.91 | +24 | 02 | 09.1 | 19.5 | 675 |
| 1978 | WV | 1978 | 11 | 30.34809 | 04 | 03 | 52.71 | +23 | 55 | 17.3 | 675 | |
| 1978 | WW * | 1978 | 11 | 29.34653 | 04 | 04 | 45.01 | +19 | 00 | 12.4 | 19.5 | 675 |
| 1978 | WW | 1978 | 11 | 30.34809 | 04 | 03 | 45.69 | +18 | 59 | 29.2 | 675 | |
| 1978 | WX * | 1978 | 11 | 29.34653 | 04 | 04 | 50.33 | +23 | 20 | 34.0 | 20.0 | 675 |
| 1978 | WX | 1978 | 11 | 30.34809 | 04 | 03 | 46.03 | +23 | 13 | 55.6 | 675 | |
| 1978 | WY * | 1978 | 11 | 29.34653 | 04 | 04 | 54.45 | +19 | 57 | 54.2 | 16.0 | 675 |
| 1978 | WY | 1978 | 11 | 30.34809 | 04 | 03 | 59.43 | +19 | 56 | 20.2 | 675 | |
| 1978 | WZ * | 1978 | 11 | 29.34653 | 04 | 04 | 54.67 | +21 | 05 | 12.9 | 19.5 | 675 |
| 1978 | WZ | 1978 | 11 | 30.34809 | 04 | 03 | 45.51 | +21 | 05 | 31.8 | 675 | |

| | | | | | | | | | | | | | |
|------|-----|---|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WA1 | * | 1978 | 11 | 29.34653 | 04 | 05 | 27.13 | +20 | 23 | 58.3 | 19.0 | 675 |
| 1978 | WA1 | | 1978 | 11 | 30.34809 | 04 | 04 | 21.80 | +20 | 22 | 24.1 | | 675 |
| 1978 | WB1 | * | 1978 | 11 | 29.34653 | 04 | 05 | 44.85 | +19 | 29 | 43.6 | 19.0 | 675 |
| 1978 | WB1 | | 1978 | 11 | 30.34809 | 04 | 04 | 42.51 | +19 | 33 | 57.9 | | 675 |
| 1978 | WC1 | * | 1978 | 11 | 29.34653 | 04 | 05 | 51.78 | +19 | 47 | 24.5 | 19.0 | 675 |
| 1978 | WC1 | | 1978 | 11 | 30.34809 | 04 | 04 | 52.72 | +19 | 45 | 20.3 | | 675 |
| 1978 | WD1 | * | 1978 | 11 | 29.34653 | 04 | 05 | 53.62 | +19 | 34 | 21.8 | 19.5 | 675 |
| 1978 | WD1 | | 1978 | 11 | 30.34809 | 04 | 04 | 51.59 | +19 | 30 | 37.7 | | 675 |
| 1978 | WE1 | * | 1978 | 11 | 29.34653 | 04 | 05 | 54.46 | +21 | 31 | 25.6 | 20.0 | 675 |
| 1978 | WE1 | | 1978 | 11 | 30.34809 | 04 | 04 | 53.68 | +21 | 30 | 04.3 | | 675 |
| 1978 | WF1 | * | 1978 | 11 | 29.34653 | 04 | 05 | 59.42 | +22 | 21 | 02.1 | 20.5 | 675 |
| 1978 | WF1 | | 1978 | 11 | 30.34809 | 04 | 05 | 02.13 | +22 | 21 | 37.5 | | 675 |
| 1978 | WG1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 11.89 | +18 | 04 | 00.7 | 19.0 | 675 |
| 1978 | WG1 | | 1978 | 11 | 30.34809 | 04 | 05 | 14.02 | +18 | 05 | 54.7 | | 675 |
| 1978 | WH1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 19.45 | +18 | 13 | 28.0 | 19.5 | 675 |
| 1978 | WH1 | | 1978 | 11 | 30.34809 | 04 | 05 | 14.66 | +18 | 12 | 07.0 | | 675 |
| 1978 | WJ1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 20.61 | +23 | 35 | 12.5 | 18.5 | 675 |
| 1978 | WJ1 | | 1978 | 11 | 30.34809 | 04 | 05 | 08.65 | +23 | 35 | 17.9 | | 675 |
| 1978 | WK1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 27.22 | +18 | 49 | 08.3 | 19.5 | 675 |
| 1978 | WK1 | | 1978 | 11 | 30.34809 | 04 | 05 | 27.55 | +18 | 47 | 04.8 | | 675 |
| 1978 | WL1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 31.35 | +23 | 03 | 12.8 | 19.5 | 675 |
| 1978 | WL1 | | 1978 | 11 | 30.34809 | 04 | 05 | 26.98 | +23 | 02 | 22.7 | | 675 |
| 1978 | WM1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 38.26 | +18 | 47 | 21.7 | 19.5 | 675 |
| 1978 | WM1 | | 1978 | 11 | 30.34809 | 04 | 05 | 39.11 | +18 | 39 | 22.3 | | 675 |
| 1978 | WN1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 48.36 | +18 | 46 | 51.5 | 20.0 | 675 |
| 1978 | WN1 | | 1978 | 11 | 30.34809 | 04 | 05 | 43.52 | +18 | 45 | 45.7 | | 675 |
| 1978 | WO1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 57.89 | +20 | 10 | 27.3 | 20.0 | 675 |
| 1978 | WO1 | | 1978 | 11 | 30.34809 | 04 | 06 | 06.36 | +20 | 08 | 35.3 | | 675 |
| 1978 | WP1 | * | 1978 | 11 | 29.34653 | 04 | 06 | 58.38 | +19 | 04 | 16.0 | 19.5 | 675 |
| 1978 | WP1 | | 1978 | 11 | 30.34809 | 04 | 06 | 00.59 | +19 | 00 | 50.7 | | 675 |
| 1978 | WQ1 | * | 1978 | 11 | 29.34653 | 04 | 07 | 16.07 | +22 | 49 | 50.8 | 19.0 | 675 |
| 1978 | WQ1 | | 1978 | 11 | 30.34809 | 04 | 06 | 06.48 | +22 | 50 | 57.7 | | 675 |
| 1978 | WR1 | * | 1978 | 11 | 29.34653 | 04 | 07 | 18.86 | +17 | 58 | 31.4 | 19.5 | 675 |
| 1978 | WR1 | | 1978 | 11 | 30.34809 | 04 | 06 | 16.21 | +17 | 56 | 36.4 | | 675 |
| 1978 | WS1 | * | 1978 | 11 | 29.34653 | 04 | 07 | 36.31 | +22 | 39 | 44.9 | 20.0 | 675 |
| 1978 | WS1 | | 1978 | 11 | 30.34809 | 04 | 06 | 37.55 | +22 | 37 | 31.9 | | 675 |
| 1978 | WT1 | * | 1978 | 11 | 29.34653 | 04 | 07 | 52.29 | +23 | 49 | 23.4 | 18.0 | 675 |
| 1978 | WT1 | | 1978 | 11 | 30.34809 | 04 | 06 | 40.12 | +23 | 53 | 33.1 | | 675 |
| 1978 | WU1 | * | 1978 | 11 | 29.34653 | 04 | 07 | 55.80 | +18 | 15 | 17.4 | 19.5 | 675 |
| 1978 | WU1 | | 1978 | 11 | 30.34809 | 04 | 06 | 54.99 | +18 | 14 | 03.6 | | 675 |
| 1978 | WV1 | * | 1978 | 11 | 29.34653 | 04 | 08 | 01.21 | +23 | 52 | 13.5 | 19.0 | 675 |
| 1978 | WV1 | | 1978 | 11 | 30.34809 | 04 | 06 | 57.01 | +23 | 49 | 34.4 | | 675 |
| 1978 | WW1 | * | 1978 | 11 | 29.34653 | 04 | 08 | 07.44 | +19 | 16 | 17.8 | 19.0 | 675 |
| 1978 | WW1 | | 1978 | 11 | 30.34809 | 04 | 07 | 07.64 | +19 | 16 | 57.9 | | 675 |
| 1978 | WX1 | * | 1978 | 11 | 29.34653 | 04 | 08 | 13.75 | +21 | 43 | 31.3 | 19.5 | 675 |
| 1978 | WX1 | | 1978 | 11 | 30.34809 | 04 | 07 | 08.32 | +21 | 41 | 17.8 | | 675 |
| 1978 | WY1 | * | 1978 | 11 | 29.34653 | 04 | 08 | 19.60 | +20 | 04 | 15.4 | 20.5 | 675 |
| 1978 | WY1 | | 1978 | 11 | 30.34809 | 04 | 07 | 17.80 | +20 | 03 | 26.3 | | 675 |
| 1978 | WZ1 | * | 1978 | 11 | 29.34653 | 04 | 08 | 24.23 | +23 | 38 | 41.2 | 20.0 | 675 |
| 1978 | WZ1 | | 1978 | 11 | 30.34809 | 04 | 07 | 15.38 | +23 | 38 | 12.2 | | 675 |
| 1978 | WA2 | * | 1978 | 11 | 29.34653 | 04 | 08 | 25.00 | +21 | 50 | 03.2 | 20.0 | 675 |
| 1978 | WA2 | | 1978 | 11 | 30.34809 | 04 | 07 | 25.58 | +21 | 46 | 38.7 | | 675 |
| 1978 | WB2 | * | 1978 | 11 | 29.34653 | 04 | 08 | 37.46 | +20 | 08 | 33.4 | 20.0 | 675 |
| 1978 | WB2 | | 1978 | 11 | 30.34809 | 04 | 07 | 38.11 | +20 | 06 | 19.9 | | 675 |
| 1978 | WC2 | * | 1978 | 11 | 29.34653 | 04 | 08 | 40.69 | +19 | 28 | 29.9 | 19.5 | 675 |
| 1978 | WC2 | | 1978 | 11 | 30.34809 | 04 | 07 | 37.80 | +19 | 24 | 55.5 | | 675 |
| 1978 | WD2 | * | 1978 | 11 | 29.34653 | 04 | 08 | 48.10 | +23 | 22 | 47.3 | 19.0 | 675 |
| 1978 | WD2 | | 1978 | 11 | 30.34809 | 04 | 07 | 39.57 | +23 | 22 | 38.1 | | 675 |
| 1978 | WE2 | * | 1978 | 11 | 29.34653 | 04 | 08 | 57.46 | +22 | 19 | 36.1 | 20.0 | 675 |

| | | | | | | | | | | | |
|------------|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 WE2 | 1978 | 11 | 30.34809 | 04 | 07 | 55.86 | +22 | 18 | 08.5 | | 675 |
| 1978 WF2 * | 1978 | 11 | 29.34653 | 04 | 09 | 11.34 | +20 | 18 | 11.6 | 17.0 | 675 |
| 1978 WF2 | 1978 | 11 | 30.34809 | 04 | 08 | 17.43 | +20 | 11 | 48.6 | | 675 |
| 1978 WG2 * | 1978 | 11 | 29.34653 | 04 | 09 | 28.16 | +21 | 01 | 39.0 | 18.5 | 675 |
| 1978 WG2 | 1978 | 11 | 30.34809 | 04 | 08 | 17.77 | +21 | 06 | 17.2 | | 675 |
| 1978 WH2 * | 1978 | 11 | 29.34653 | 04 | 09 | 28.45 | +18 | 43 | 45.0 | 20.0 | 675 |
| 1978 WH2 | 1978 | 11 | 30.34809 | 04 | 08 | 24.40 | +18 | 44 | 23.9 | | 675 |
| 1978 WJ2 * | 1978 | 11 | 29.34653 | 04 | 09 | 31.84 | +19 | 27 | 33.2 | 19.5 | 675 |
| 1978 WJ2 | 1978 | 11 | 30.34809 | 04 | 08 | 25.98 | +19 | 26 | 16.5 | | 675 |
| 1978 WK2 * | 1978 | 11 | 29.34653 | 04 | 09 | 32.77 | +23 | 21 | 07.5 | 19.5 | 675 |
| 1978 WK2 | 1978 | 11 | 30.34809 | 04 | 08 | 35.71 | +23 | 18 | 42.8 | | 675 |
| 1978 WL2 * | 1978 | 11 | 29.34653 | 04 | 09 | 43.37 | +19 | 10 | 01.8 | 20.0 | 675 |
| 1978 WL2 | 1978 | 11 | 30.34809 | 04 | 08 | 51.71 | +19 | 07 | 36.6 | | 675 |
| 1978 WM2 * | 1978 | 11 | 29.34653 | 04 | 09 | 46.63 | +21 | 26 | 40.4 | 18.0 | 675 |
| 1978 WM2 | 1978 | 11 | 30.34809 | 04 | 08 | 53.70 | +21 | 21 | 37.1 | | 675 |
| 1978 WN2 * | 1978 | 11 | 29.34653 | 04 | 09 | 49.42 | +18 | 05 | 09.8 | 20.5 | 675 |
| 1978 WN2 | 1978 | 11 | 30.34809 | 04 | 08 | 47.99 | +17 | 58 | 54.2 | | 675 |
| 1978 WO2 * | 1978 | 11 | 29.34653 | 04 | 09 | 53.25 | +22 | 30 | 24.9 | 20.0 | 675 |
| 1978 WO2 | 1978 | 11 | 30.34809 | 04 | 08 | 55.92 | +22 | 27 | 37.3 | | 675 |
| 1978 WP2 * | 1978 | 11 | 29.34653 | 04 | 10 | 03.62 | +23 | 25 | 19.1 | 20.0 | 675 |
| 1978 WP2 | 1978 | 11 | 30.34809 | 04 | 08 | 53.06 | +23 | 22 | 04.5 | | 675 |
| 1978 WQ2 * | 1978 | 11 | 29.34653 | 04 | 10 | 04.06 | +21 | 45 | 00.4 | 19.5 | 675 |
| 1978 WQ2 | 1978 | 11 | 30.34809 | 04 | 08 | 56.35 | +21 | 44 | 00.4 | | 675 |
| 1978 WR2 * | 1978 | 11 | 29.34653 | 04 | 10 | 05.77 | +20 | 31 | 14.7 | 19.5 | 675 |
| 1978 WR2 | 1978 | 11 | 30.34809 | 04 | 09 | 11.23 | +20 | 28 | 32.0 | | 675 |
| 1978 WS2 * | 1978 | 11 | 29.34653 | 04 | 10 | 11.99 | +22 | 33 | 40.6 | 18.5 | 675 |
| 1978 WS2 | 1978 | 11 | 30.34809 | 04 | 09 | 00.57 | +22 | 29 | 49.5 | | 675 |
| 1978 WT2 * | 1978 | 11 | 29.34653 | 04 | 10 | 21.22 | +19 | 12 | 14.0 | 20.0 | 675 |
| 1978 WT2 | 1978 | 11 | 30.34809 | 04 | 09 | 19.81 | +19 | 10 | 02.9 | | 675 |
| 1978 WU2 * | 1978 | 11 | 29.34653 | 04 | 10 | 34.39 | +20 | 11 | 58.3 | 20.0 | 675 |
| 1978 WU2 | 1978 | 11 | 30.34809 | 04 | 09 | 36.49 | +20 | 13 | 44.5 | | 675 |
| 1978 WV2 * | 1978 | 11 | 29.34653 | 04 | 10 | 35.09 | +18 | 17 | 03.7 | 18.5 | 675 |
| 1978 WV2 | 1978 | 11 | 30.34809 | 04 | 09 | 42.68 | +18 | 14 | 31.9 | | 675 |
| 1978 WW2 * | 1978 | 11 | 29.34653 | 04 | 10 | 43.51 | +23 | 07 | 55.0 | 18.5 | 675 |
| 1978 WW2 | 1978 | 11 | 30.34809 | 04 | 09 | 43.87 | +23 | 02 | 00.9 | | 675 |
| 1978 WX2 * | 1978 | 11 | 29.34653 | 04 | 10 | 50.78 | +21 | 20 | 59.7 | 19.5 | 675 |
| 1978 WX2 | 1978 | 11 | 30.40017 | 04 | 09 | 44.35 | +21 | 14 | 24.9 | | 675 |
| 1978 WY2 * | 1978 | 11 | 29.34653 | 04 | 11 | 06.60 | +21 | 08 | 27.5 | 20.0 | 675 |
| 1978 WY2 | 1978 | 11 | 30.34809 | 04 | 10 | 06.43 | +21 | 07 | 13.5 | | 675 |
| 1978 WZ2 * | 1978 | 11 | 29.34653 | 04 | 11 | 10.75 | +20 | 47 | 12.3 | 20.0 | 675 |
| 1978 WZ2 | 1978 | 11 | 30.40017 | 04 | 09 | 55.29 | +20 | 48 | 40.2 | | 675 |
| 1978 WA3 * | 1978 | 11 | 29.34653 | 04 | 11 | 12.16 | +20 | 43 | 29.8 | 20.0 | 675 |
| 1978 WA3 | 1978 | 11 | 30.34809 | 04 | 10 | 07.30 | +20 | 36 | 33.0 | | 675 |
| 1978 WB3 * | 1978 | 11 | 29.34653 | 04 | 11 | 17.53 | +18 | 23 | 28.4 | 20.0 | 675 |
| 1978 WB3 | 1978 | 11 | 30.34809 | 04 | 10 | 26.10 | +18 | 21 | 13.5 | | 675 |
| 1978 WC3 * | 1978 | 11 | 29.34653 | 04 | 11 | 23.88 | +20 | 48 | 29.3 | 18.5 | 675 |
| 1978 WC3 | 1978 | 11 | 30.34809 | 04 | 10 | 26.10 | +20 | 37 | 51.6 | | 675 |
| 1978 WD3 * | 1978 | 11 | 29.34653 | 04 | 11 | 26.01 | +18 | 16 | 44.4 | 18.0 | 675 |
| 1978 WD3 | 1978 | 11 | 30.34809 | 04 | 10 | 32.91 | +18 | 16 | 03.2 | | 675 |
| 1978 WE3 * | 1978 | 11 | 29.34653 | 04 | 11 | 34.34 | +20 | 46 | 10.7 | 20.0 | 675 |
| 1978 WE3 | 1978 | 11 | 30.34809 | 04 | 10 | 23.64 | +20 | 41 | 26.4 | | 675 |
| 1978 WF3 * | 1978 | 11 | 29.34653 | 04 | 11 | 41.00 | +19 | 33 | 38.8 | 19.5 | 675 |
| 1978 WF3 | 1978 | 11 | 30.34809 | 04 | 10 | 38.93 | +19 | 29 | 46.2 | | 675 |
| 1978 WG3 * | 1978 | 11 | 29.34653 | 04 | 11 | 48.76 | +22 | 13 | 44.5 | 19.5 | 675 |
| 1978 WG3 | 1978 | 11 | 30.34809 | 04 | 10 | 37.25 | +22 | 08 | 59.8 | | 675 |
| 1978 WH3 * | 1978 | 11 | 29.34653 | 04 | 11 | 50.55 | +19 | 10 | 48.8 | 20.5 | 675 |
| 1978 WH3 | 1978 | 11 | 30.34809 | 04 | 10 | 44.97 | +19 | 07 | 09.1 | | 675 |
| 1978 WJ3 * | 1978 | 11 | 29.34653 | 04 | 11 | 51.48 | +22 | 38 | 24.3 | 20.0 | 675 |
| 1978 WJ3 | 1978 | 11 | 30.34809 | 04 | 10 | 42.42 | +22 | 39 | 24.0 | | 675 |

| | | | | | | | | | | | | | |
|------|-----|---|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WK3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 01.82 | +20 | 13 | 21.3 | 19.0 | 675 |
| 1978 | WK3 | | 1978 | 11 | 30.34809 | 04 | 11 | 02.17 | +20 | 05 | 29.3 | | 675 |
| 1978 | WL3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 03.44 | +18 | 51 | 12.7 | 20.0 | 675 |
| 1978 | WL3 | | 1978 | 11 | 30.34809 | 04 | 11 | 11.13 | +18 | 47 | 05.7 | | 675 |
| 1978 | WM3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 21.12 | +20 | 50 | 56.2 | 20.0 | 675 |
| 1978 | WM3 | | 1978 | 11 | 30.34809 | 04 | 11 | 24.09 | +20 | 49 | 26.0 | | 675 |
| 1978 | WN3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 21.59 | +18 | 28 | 49.5 | 18.0 | 675 |
| 1978 | WN3 | | 1978 | 11 | 30.34809 | 04 | 11 | 10.57 | +18 | 34 | 54.3 | | 675 |
| 1978 | WO3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 30.63 | +21 | 14 | 53.0 | 20.0 | 675 |
| 1978 | WO3 | | 1978 | 11 | 30.34809 | 04 | 11 | 21.45 | +21 | 16 | 11.4 | | 675 |
| 1978 | WP3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 39.70 | +22 | 34 | 21.0 | 19.5 | 675 |
| 1978 | WP3 | | 1978 | 11 | 30.34809 | 04 | 11 | 36.00 | +22 | 33 | 04.4 | | 675 |
| 1978 | WQ3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 40.36 | +20 | 54 | 18.5 | 19.0 | 675 |
| 1978 | WQ3 | | 1978 | 11 | 30.34809 | 04 | 11 | 28.58 | +20 | 55 | 52.6 | | 675 |
| 1978 | WR3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 48.16 | +20 | 28 | 05.5 | 20.0 | 675 |
| 1978 | WR3 | | 1978 | 11 | 30.40017 | 04 | 11 | 29.71 | +20 | 30 | 25.1 | | 675 |
| 1978 | WS3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 50.23 | +22 | 42 | 38.1 | 16.5 | 675 |
| 1978 | WS3 | | 1978 | 11 | 30.34809 | 04 | 11 | 43.61 | +22 | 36 | 08.1 | | 675 |
| 1978 | WT3 | * | 1978 | 11 | 29.34653 | 04 | 12 | 58.68 | +19 | 11 | 54.1 | 19.0 | 675 |
| 1978 | WT3 | | 1978 | 11 | 30.34809 | 04 | 12 | 08.66 | +19 | 07 | 32.4 | | 675 |
| 1978 | WU3 | * | 1978 | 11 | 29.34653 | 04 | 13 | 04.88 | +18 | 08 | 25.1 | 19.0 | 675 |
| 1978 | WU3 | | 1978 | 11 | 30.34809 | 04 | 12 | 08.65 | +18 | 06 | 59.0 | | 675 |
| 1978 | WV3 | * | 1978 | 11 | 29.34653 | 04 | 13 | 06.17 | +20 | 03 | 39.0 | 20.0 | 675 |
| 1978 | WV3 | | 1978 | 11 | 30.34809 | 04 | 12 | 02.54 | +19 | 58 | 01.8 | | 675 |
| 1978 | WW3 | * | 1978 | 11 | 29.34653 | 04 | 13 | 07.20 | +20 | 24 | 54.6 | 19.5 | 675 |
| 1978 | WW3 | | 1978 | 11 | 30.34809 | 04 | 11 | 59.51 | +20 | 27 | 27.8 | | 675 |
| 1978 | WX3 | * | 1978 | 11 | 29.34653 | 04 | 13 | 08.41 | +21 | 13 | 13.3 | 19.5 | 675 |
| 1978 | WX3 | | 1978 | 11 | 30.34809 | 04 | 12 | 15.74 | +21 | 11 | 00.8 | | 675 |
| 1978 | WY3 | * | 1978 | 11 | 29.34653 | 04 | 13 | 12.63 | +22 | 56 | 40.0 | 20.0 | 675 |
| 1978 | WY3 | | 1978 | 11 | 30.34809 | 04 | 12 | 18.99 | +22 | 56 | 10.6 | | 675 |
| 1978 | WZ3 | * | 1978 | 11 | 29.34653 | 04 | 13 | 14.05 | +20 | 13 | 24.2 | 20.5 | 675 |
| 1978 | WZ3 | | 1978 | 11 | 30.34809 | 04 | 12 | 31.30 | +20 | 11 | 15.9 | | 675 |
| 1978 | WA4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 20.23 | +20 | 49 | 44.9 | 20.0 | 675 |
| 1978 | WA4 | | 1978 | 11 | 30.34809 | 04 | 12 | 20.88 | +20 | 37 | 16.1 | | 675 |
| 1978 | WB4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 24.37 | +18 | 00 | 50.3 | 20.0 | 675 |
| 1978 | WB4 | | 1978 | 11 | 30.34809 | 04 | 12 | 19.98 | +17 | 55 | 33.3 | | 675 |
| 1978 | WC4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 25.62 | +20 | 35 | 58.1 | 19.5 | 675 |
| 1978 | WC4 | | 1978 | 11 | 30.34809 | 04 | 12 | 23.51 | +20 | 32 | 39.2 | | 675 |
| 1978 | WD4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 29.79 | +18 | 10 | 03.3 | 18.5 | 675 |
| 1978 | WD4 | | 1978 | 11 | 30.34809 | 04 | 12 | 17.97 | +18 | 16 | 16.5 | | 675 |
| 1978 | WE4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 33.40 | +22 | 56 | 39.8 | 20.0 | 675 |
| 1978 | WE4 | | 1978 | 11 | 30.34809 | 04 | 12 | 25.63 | +22 | 53 | 44.8 | | 675 |
| 1978 | WF4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 37.58 | +21 | 17 | 01.5 | 20.0 | 675 |
| 1978 | WF4 | | 1978 | 11 | 30.34809 | 04 | 12 | 27.16 | +21 | 17 | 44.9 | | 675 |
| 1978 | WG4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 43.44 | +22 | 22 | 26.8 | 20.5 | 675 |
| 1978 | WG4 | | 1978 | 11 | 30.34809 | 04 | 12 | 42.72 | +22 | 13 | 23.0 | | 675 |
| 1978 | WH4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 50.31 | +18 | 54 | 04.9 | 20.5 | 675 |
| 1978 | WH4 | | 1978 | 11 | 30.34809 | 04 | 12 | 56.93 | +18 | 51 | 37.1 | | 675 |
| 1978 | WJ4 | * | 1978 | 11 | 29.34653 | 04 | 13 | 55.59 | +21 | 22 | 00.3 | 20.0 | 675 |
| 1978 | WJ4 | | 1978 | 11 | 30.34809 | 04 | 12 | 43.95 | +21 | 21 | 05.7 | | 675 |
| 1978 | WK4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 00.08 | +21 | 33 | 16.1 | 20.5 | 675 |
| 1978 | WK4 | | 1978 | 11 | 30.40017 | 04 | 13 | 00.75 | +21 | 31 | 59.9 | | 675 |
| 1978 | WL4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 03.84 | +21 | 58 | 26.1 | 20.5 | 675 |
| 1978 | WL4 | | 1978 | 11 | 30.40017 | 04 | 13 | 29.01 | +21 | 55 | 00.2 | | 675 |
| 1978 | WM4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 14.57 | +18 | 58 | 50.6 | 20.0 | 675 |
| 1978 | WM4 | | 1978 | 11 | 30.34809 | 04 | 13 | 22.95 | +18 | 56 | 35.8 | | 675 |
| 1978 | WN4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 19.72 | +23 | 28 | 11.0 | 19.0 | 675 |
| 1978 | WN4 | | 1978 | 11 | 30.34809 | 04 | 13 | 25.84 | +23 | 24 | 41.1 | | 675 |
| 1978 | WO4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 25.65 | +18 | 24 | 45.1 | 20.0 | 675 |

| | | | | | | | | | | | | | |
|------|-----|---|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WO4 | | 1978 | 11 | 30.34809 | 04 | 13 | 16.37 | +18 | 20 | 30.8 | | 675 |
| 1978 | WP4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 42.33 | +20 | 34 | 37.1 | 19.5 | 675 |
| 1978 | WP4 | | 1978 | 11 | 30.34809 | 04 | 13 | 36.42 | +20 | 33 | 16.0 | | 675 |
| 1978 | WQ4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 43.46 | +20 | 19 | 32.3 | 20.0 | 675 |
| 1978 | WQ4 | | 1978 | 11 | 30.34809 | 04 | 13 | 47.47 | +20 | 14 | 52.8 | | 675 |
| 1978 | WR4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 55.12 | +23 | 57 | 38.5 | 19.5 | 675 |
| 1978 | WR4 | | 1978 | 11 | 30.34809 | 04 | 13 | 49.02 | +23 | 51 | 42.3 | | 675 |
| 1978 | WS4 | * | 1978 | 11 | 29.34653 | 04 | 14 | 58.79 | +20 | 18 | 27.5 | 19.5 | 675 |
| 1978 | WS4 | | 1978 | 11 | 30.34809 | 04 | 14 | 05.62 | +20 | 16 | 15.6 | | 675 |
| 1978 | WT4 | * | 1978 | 11 | 29.34653 | 04 | 15 | 08.60 | +17 | 46 | 52.6 | 19.5 | 675 |
| 1978 | WT4 | | 1978 | 11 | 30.34809 | 04 | 14 | 14.10 | +17 | 44 | 58.2 | | 675 |
| 1978 | WU4 | * | 1978 | 11 | 29.34653 | 04 | 15 | 13.97 | +23 | 43 | 35.8 | 20.0 | 675 |
| 1978 | WU4 | | 1978 | 11 | 30.34809 | 04 | 14 | 07.21 | +23 | 42 | 11.2 | | 675 |
| 1978 | WV4 | * | 1978 | 11 | 29.34653 | 04 | 15 | 21.56 | +23 | 09 | 34.8 | 18.0 | 675 |
| 1978 | WV4 | | 1978 | 11 | 30.34809 | 04 | 14 | 19.44 | +23 | 09 | 38.6 | | 675 |
| 1978 | WW4 | * | 1978 | 11 | 29.34653 | 04 | 15 | 31.26 | +19 | 01 | 39.4 | 19.5 | 675 |
| 1978 | WW4 | | 1978 | 11 | 30.34809 | 04 | 14 | 40.59 | +19 | 00 | 01.1 | | 675 |
| 1978 | WX4 | * | 1978 | 11 | 29.34653 | 04 | 15 | 32.79 | +18 | 24 | 10.5 | 19.5 | 675 |
| 1978 | WX4 | | 1978 | 11 | 30.34809 | 04 | 14 | 31.52 | +18 | 18 | 57.6 | | 675 |
| 1978 | WY4 | * | 1978 | 11 | 29.34653 | 04 | 15 | 40.18 | +21 | 18 | 19.9 | 17.0 | 675 |
| 1978 | WY4 | | 1978 | 11 | 30.34809 | 04 | 14 | 47.65 | +21 | 16 | 07.4 | | 675 |
| 1978 | WZ4 | * | 1978 | 11 | 29.34653 | 04 | 15 | 56.44 | +18 | 50 | 53.3 | 20.0 | 675 |
| 1978 | WZ4 | | 1978 | 11 | 30.34809 | 04 | 14 | 57.08 | +18 | 44 | 15.2 | | 675 |
| 1978 | WA5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 00.36 | +22 | 08 | 21.6 | 20.0 | 675 |
| 1978 | WA5 | | 1978 | 11 | 30.34809 | 04 | 14 | 58.77 | +22 | 07 | 05.4 | | 675 |
| 1978 | WB5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 10.81 | +22 | 35 | 37.3 | 19.5 | 675 |
| 1978 | WB5 | | 1978 | 11 | 30.34809 | 04 | 15 | 09.19 | +22 | 35 | 22.5 | | 675 |
| 1978 | WC5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 15.73 | +18 | 59 | 04.8 | 19.0 | 675 |
| 1978 | WC5 | | 1978 | 11 | 30.34809 | 04 | 15 | 24.62 | +18 | 57 | 24.7 | | 675 |
| 1978 | WD5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 25.69 | +20 | 43 | 24.8 | 20.0 | 675 |
| 1978 | WD5 | | 1978 | 11 | 30.34809 | 04 | 15 | 29.67 | +20 | 44 | 24.2 | | 675 |
| 1978 | WE5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 26.09 | +20 | 41 | 11.2 | 20.0 | 675 |
| 1978 | WE5 | | 1978 | 11 | 30.34809 | 04 | 15 | 19.28 | +20 | 42 | 42.5 | | 675 |
| 1978 | WF5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 26.35 | +22 | 09 | 02.2 | 18.0 | 675 |
| 1978 | WF5 | | 1978 | 11 | 30.34809 | 04 | 15 | 29.91 | +22 | 06 | 25.8 | | 675 |
| 1978 | WG5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 29.66 | +19 | 39 | 55.9 | 20.0 | 675 |
| 1978 | WG5 | | 1978 | 11 | 30.34809 | 04 | 15 | 22.81 | +19 | 38 | 19.9 | | 675 |
| 1978 | WH5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 38.05 | +20 | 47 | 51.5 | 19.0 | 675 |
| 1978 | WH5 | | 1978 | 11 | 30.34809 | 04 | 15 | 29.47 | +20 | 43 | 04.9 | | 675 |
| 1978 | WJ5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 39.39 | +22 | 30 | 28.1 | 20.0 | 675 |
| 1978 | WJ5 | | 1978 | 11 | 30.34809 | 04 | 15 | 38.24 | +22 | 30 | 36.6 | | 675 |
| 1978 | WK5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 43.08 | +17 | 54 | 21.6 | 20.0 | 675 |
| 1978 | WK5 | | 1978 | 11 | 30.34809 | 04 | 15 | 40.19 | +17 | 49 | 19.9 | | 675 |
| 1978 | WL5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 56.73 | +21 | 39 | 33.0 | 20.0 | 675 |
| 1978 | WL5 | | 1978 | 11 | 30.34809 | 04 | 15 | 51.11 | +21 | 34 | 28.2 | | 675 |
| 1978 | WM5 | * | 1978 | 11 | 29.34653 | 04 | 16 | 58.96 | +22 | 39 | 10.9 | 20.0 | 675 |
| 1978 | WM5 | | 1978 | 11 | 30.34809 | 04 | 15 | 59.21 | +22 | 35 | 14.7 | | 675 |
| 1978 | WN5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 15.76 | +19 | 41 | 35.0 | 19.0 | 675 |
| 1978 | WN5 | | 1978 | 11 | 30.40017 | 04 | 16 | 20.37 | +19 | 35 | 32.5 | | 675 |
| 1978 | WO5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 19.51 | +22 | 04 | 07.0 | 20.0 | 675 |
| 1978 | WO5 | | 1978 | 11 | 30.34809 | 04 | 16 | 24.82 | +21 | 59 | 34.7 | | 675 |
| 1978 | WP5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 20.09 | +19 | 00 | 00.6 | 20.0 | 675 |
| 1978 | WP5 | | 1978 | 11 | 30.34809 | 04 | 16 | 11.52 | +19 | 02 | 32.6 | | 675 |
| 1978 | WQ5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 23.41 | +20 | 09 | 39.4 | 19.0 | 675 |
| 1978 | WQ5 | | 1978 | 11 | 30.34809 | 04 | 16 | 31.12 | +20 | 04 | 50.5 | | 675 |
| 1978 | WR5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 32.67 | +22 | 57 | 47.3 | 20.5 | 675 |
| 1978 | WR5 | | 1978 | 11 | 30.34809 | 04 | 16 | 28.52 | +22 | 55 | 00.0 | | 675 |
| 1978 | WS5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 34.05 | +22 | 47 | 55.3 | 19.5 | 675 |
| 1978 | WS5 | | 1978 | 11 | 30.34809 | 04 | 16 | 23.42 | +22 | 43 | 02.0 | | 675 |

| | | | | | | | | | | | | | |
|------|-----|---|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WT5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 44.69 | +23 | 49 | 15.2 | 19.5 | 675 |
| 1978 | WT5 | | 1978 | 11 | 30.34809 | 04 | 16 | 50.22 | +23 | 47 | 41.3 | | 675 |
| 1978 | WU5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 54.88 | +18 | 59 | 19.2 | 19.5 | 675 |
| 1978 | WU5 | | 1978 | 11 | 30.34809 | 04 | 17 | 03.98 | +18 | 56 | 13.9 | | 675 |
| 1978 | WV5 | * | 1978 | 11 | 29.34653 | 04 | 17 | 55.70 | +20 | 04 | 54.1 | 18.5 | 675 |
| 1978 | WV5 | | 1978 | 11 | 30.34809 | 04 | 16 | 51.01 | +19 | 59 | 37.3 | | 675 |
| 1978 | WW5 | * | 1978 | 11 | 29.34653 | 04 | 18 | 00.30 | +22 | 46 | 10.9 | 19.5 | 675 |
| 1978 | WW5 | | 1978 | 11 | 30.34809 | 04 | 16 | 57.25 | +22 | 46 | 08.8 | | 675 |
| 1978 | WX5 | * | 1978 | 11 | 29.34653 | 04 | 18 | 03.22 | +21 | 34 | 09.5 | 18.0 | 675 |
| 1978 | WX5 | | 1978 | 11 | 30.34809 | 04 | 17 | 07.25 | +21 | 33 | 11.9 | | 675 |
| 1978 | WY5 | * | 1978 | 11 | 29.34653 | 04 | 18 | 08.77 | +17 | 47 | 33.0 | 20.5 | 675 |
| 1978 | WY5 | | 1978 | 11 | 30.34809 | 04 | 17 | 11.98 | +17 | 49 | 04.5 | | 675 |
| 1978 | WZ5 | * | 1978 | 11 | 29.34653 | 04 | 18 | 27.97 | +22 | 43 | 48.5 | 19.0 | 675 |
| 1978 | WZ5 | | 1978 | 11 | 30.34809 | 04 | 17 | 43.82 | +22 | 42 | 33.4 | | 675 |
| 1978 | WA6 | * | 1978 | 11 | 29.34653 | 04 | 18 | 28.14 | +19 | 01 | 25.3 | 19.5 | 675 |
| 1978 | WA6 | | 1978 | 11 | 30.34809 | 04 | 17 | 39.02 | +18 | 59 | 28.4 | | 675 |
| 1978 | WB6 | * | 1978 | 11 | 29.34653 | 04 | 18 | 45.75 | +22 | 20 | 38.5 | 19.0 | 675 |
| 1978 | WB6 | | 1978 | 11 | 30.34809 | 04 | 17 | 38.12 | +22 | 22 | 58.5 | | 675 |
| 1978 | WC6 | * | 1978 | 11 | 29.34653 | 04 | 18 | 57.70 | +21 | 43 | 49.4 | 20.0 | 675 |
| 1978 | WC6 | | 1978 | 11 | 30.34809 | 04 | 18 | 00.71 | +21 | 40 | 59.0 | | 675 |
| 1978 | WD6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 11.58 | +19 | 04 | 46.3 | 20.0 | 675 |
| 1978 | WD6 | | 1978 | 11 | 30.34809 | 04 | 18 | 03.03 | +19 | 01 | 02.2 | | 675 |
| 1978 | WE6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 19.01 | +21 | 15 | 41.3 | 20.0 | 675 |
| 1978 | WE6 | | 1978 | 11 | 30.34809 | 04 | 18 | 25.00 | +21 | 13 | 12.1 | | 675 |
| 1978 | WF6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 19.43 | +22 | 57 | 42.3 | 20.0 | 675 |
| 1978 | WF6 | | 1978 | 11 | 30.34809 | 04 | 18 | 21.94 | +22 | 47 | 13.7 | | 675 |
| 1978 | WG6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 24.82 | +19 | 59 | 51.3 | 20.0 | 675 |
| 1978 | WG6 | | 1978 | 11 | 30.34809 | 04 | 18 | 23.20 | +20 | 00 | 08.0 | | 675 |
| 1978 | WH6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 25.45 | +19 | 01 | 56.1 | 20.0 | 675 |
| 1978 | WH6 | | 1978 | 11 | 30.34809 | 04 | 18 | 22.94 | +18 | 57 | 31.1 | | 675 |
| 1978 | WJ6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 27.20 | +19 | 03 | 40.1 | 19.0 | 675 |
| 1978 | WJ6 | | 1978 | 11 | 30.34809 | 04 | 18 | 28.57 | +19 | 05 | 09.3 | | 675 |
| 1978 | WK6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 30.55 | +24 | 07 | 18.0 | 19.0 | 675 |
| 1978 | WK6 | | 1978 | 11 | 30.34809 | 04 | 18 | 17.48 | +24 | 05 | 50.4 | | 675 |
| 1978 | WL6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 31.97 | +17 | 57 | 50.6 | 20.0 | 675 |
| 1978 | WL6 | | 1978 | 11 | 30.34809 | 04 | 18 | 19.93 | +17 | 56 | 38.0 | | 675 |
| 1978 | WM6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 33.05 | +22 | 27 | 23.3 | 20.0 | 675 |
| 1978 | WM6 | | 1978 | 11 | 30.40017 | 04 | 18 | 33.74 | +22 | 25 | 11.2 | | 675 |
| 1978 | WN6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 37.07 | +18 | 19 | 08.8 | 19.0 | 675 |
| 1978 | WN6 | | 1978 | 11 | 30.34809 | 04 | 18 | 40.67 | +18 | 14 | 41.8 | | 675 |
| 1978 | WO6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 39.28 | +19 | 38 | 56.5 | 18.5 | 675 |
| 1978 | WO6 | | 1978 | 11 | 30.34809 | 04 | 18 | 27.83 | +19 | 40 | 21.3 | | 675 |
| 1978 | WP6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 40.96 | +19 | 17 | 13.6 | 20.0 | 675 |
| 1978 | WP6 | | 1978 | 11 | 30.34809 | 04 | 18 | 46.85 | +19 | 13 | 23.1 | | 675 |
| 1978 | WQ6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 43.04 | +22 | 48 | 48.8 | 18.0 | 675 |
| 1978 | WQ6 | | 1978 | 11 | 30.34809 | 04 | 18 | 44.58 | +22 | 47 | 29.1 | | 675 |
| 1978 | WR6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 43.06 | +23 | 01 | 38.4 | 20.0 | 675 |
| 1978 | WR6 | | 1978 | 11 | 30.34809 | 04 | 18 | 41.83 | +23 | 00 | 44.2 | | 675 |
| 1978 | WS6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 44.17 | +23 | 53 | 27.5 | 19.0 | 675 |
| 1978 | WS6 | | 1978 | 11 | 30.34809 | 04 | 18 | 47.29 | +23 | 51 | 12.7 | | 675 |
| 1978 | WT6 | * | 1978 | 11 | 29.34653 | 04 | 19 | 59.22 | +21 | 37 | 22.4 | 20.0 | 675 |
| 1978 | WT6 | | 1978 | 11 | 30.34809 | 04 | 19 | 01.89 | +21 | 34 | 31.3 | | 675 |
| 1978 | WU6 | * | 1978 | 11 | 29.34653 | 04 | 20 | 02.99 | +22 | 22 | 11.1 | 19.5 | 675 |
| 1978 | WU6 | | 1978 | 11 | 30.34809 | 04 | 19 | 00.66 | +22 | 21 | 06.8 | | 675 |
| 1978 | WV6 | * | 1978 | 11 | 29.34653 | 04 | 20 | 14.81 | +19 | 30 | 12.7 | 19.5 | 675 |
| 1978 | WV6 | | 1978 | 11 | 30.34809 | 04 | 19 | 06.42 | +19 | 24 | 07.0 | | 675 |
| 1978 | WW6 | * | 1978 | 11 | 29.34653 | 04 | 20 | 17.63 | +21 | 39 | 45.5 | 20.0 | 675 |
| 1978 | WW6 | | 1978 | 11 | 30.34809 | 04 | 19 | 14.67 | +21 | 42 | 34.3 | | 675 |
| 1978 | WX6 | * | 1978 | 11 | 29.34653 | 04 | 20 | 24.44 | +20 | 08 | 37.5 | 19.0 | 675 |

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|------|-----|--------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WX6 | 1978 | 11 | 30.34809 | 04 | 19 | 17.33 | +20 | 09 | 38.3 | | 675 |
| 1978 | WY6 | * 1978 | 11 | 29.34653 | 04 | 20 | 30.95 | +22 | 14 | 17.0 | 19.5 | 675 |
| 1978 | WY6 | 1978 | 11 | 30.34809 | 04 | 19 | 37.09 | +22 | 09 | 39.0 | | 675 |
| 1978 | WZ6 | * 1978 | 11 | 29.34653 | 04 | 20 | 39.88 | +22 | 24 | 23.2 | 20.0 | 675 |
| 1978 | WZ6 | 1978 | 11 | 30.34809 | 04 | 19 | 46.75 | +22 | 19 | 35.8 | | 675 |
| 1978 | WA7 | * 1978 | 11 | 29.34653 | 04 | 20 | 41.01 | +23 | 37 | 07.4 | 20.0 | 675 |
| 1978 | WA7 | 1978 | 11 | 30.40017 | 04 | 19 | 42.10 | +23 | 34 | 48.3 | | 675 |
| 1978 | WB7 | * 1978 | 11 | 29.34653 | 04 | 20 | 43.33 | +18 | 40 | 10.0 | 20.0 | 675 |
| 1978 | WB7 | 1978 | 11 | 30.40017 | 04 | 19 | 42.12 | +18 | 41 | 48.9 | | 675 |
| 1978 | WC7 | * 1978 | 11 | 29.34653 | 04 | 20 | 45.18 | +21 | 02 | 09.5 | 19.5 | 675 |
| 1978 | WC7 | 1978 | 11 | 30.34809 | 04 | 19 | 50.82 | +20 | 56 | 45.7 | | 675 |
| 1978 | WD7 | * 1978 | 11 | 29.34653 | 04 | 20 | 49.08 | +22 | 02 | 52.6 | 20.0 | 675 |
| 1978 | WD7 | 1978 | 11 | 30.34809 | 04 | 19 | 44.84 | +22 | 04 | 34.3 | | 675 |
| 1978 | WE7 | * 1978 | 11 | 29.34653 | 04 | 21 | 00.47 | +22 | 39 | 22.0 | 19.5 | 675 |
| 1978 | WE7 | 1978 | 11 | 30.34809 | 04 | 19 | 57.31 | +22 | 38 | 07.2 | | 675 |
| 1978 | WF7 | * 1978 | 11 | 29.34653 | 04 | 21 | 06.57 | +21 | 34 | 29.8 | 20.0 | 675 |
| 1978 | WF7 | 1978 | 11 | 30.34809 | 04 | 20 | 02.94 | +21 | 35 | 01.9 | | 675 |
| 1978 | WG7 | * 1978 | 11 | 29.34653 | 04 | 21 | 10.71 | +19 | 47 | 14.9 | 19.0 | 675 |
| 1978 | WG7 | 1978 | 11 | 30.34809 | 04 | 20 | 07.87 | +19 | 47 | 57.0 | | 675 |
| 1978 | WH7 | * 1978 | 11 | 29.34653 | 04 | 21 | 16.58 | +22 | 53 | 50.5 | 20.0 | 675 |
| 1978 | WH7 | 1978 | 11 | 30.34809 | 04 | 20 | 06.42 | +22 | 53 | 37.8 | | 675 |
| 1978 | WJ7 | * 1978 | 11 | 29.34653 | 04 | 21 | 32.31 | +19 | 56 | 55.4 | 20.0 | 675 |
| 1978 | WJ7 | 1978 | 11 | 30.34809 | 04 | 20 | 20.12 | +19 | 55 | 49.4 | | 675 |
| 1978 | WK7 | * 1978 | 11 | 29.34653 | 04 | 21 | 34.58 | +23 | 59 | 10.8 | 19.5 | 675 |
| 1978 | WK7 | 1978 | 11 | 30.34809 | 04 | 20 | 29.03 | +24 | 01 | 09.2 | | 675 |
| 1978 | WL7 | * 1978 | 11 | 29.34653 | 04 | 21 | 56.83 | +23 | 14 | 59.5 | 20.5 | 675 |
| 1978 | WL7 | 1978 | 11 | 30.34809 | 04 | 20 | 58.55 | +23 | 11 | 32.1 | | 675 |
| 1978 | WM7 | * 1978 | 11 | 29.34653 | 04 | 22 | 10.81 | +20 | 40 | 55.0 | 19.5 | 675 |
| 1978 | WM7 | 1978 | 11 | 30.34809 | 04 | 21 | 15.93 | +20 | 40 | 46.5 | | 675 |
| 1978 | WN7 | * 1978 | 11 | 29.34653 | 04 | 22 | 19.39 | +22 | 34 | 32.8 | 19.0 | 675 |
| 1978 | WN7 | 1978 | 11 | 30.34809 | 04 | 21 | 25.33 | +22 | 32 | 54.9 | | 675 |
| 1978 | WO7 | * 1978 | 11 | 29.34653 | 04 | 22 | 27.22 | +20 | 17 | 45.8 | 20.0 | 675 |
| 1978 | WO7 | 1978 | 11 | 30.34809 | 04 | 21 | 35.46 | +20 | 13 | 18.8 | | 675 |
| 1978 | WP7 | * 1978 | 11 | 29.34653 | 04 | 22 | 35.37 | +21 | 22 | 26.9 | 19.0 | 675 |
| 1978 | WP7 | 1978 | 11 | 30.34809 | 04 | 21 | 23.74 | +21 | 27 | 56.0 | | 675 |
| 1978 | WQ7 | * 1978 | 11 | 29.34653 | 04 | 22 | 36.66 | +18 | 13 | 12.1 | 20.5 | 675 |
| 1978 | WQ7 | 1978 | 11 | 30.40017 | 04 | 21 | 34.47 | +18 | 01 | 16.8 | | 675 |
| 1978 | WR7 | * 1978 | 11 | 29.34653 | 04 | 22 | 40.63 | +23 | 43 | 53.9 | 20.5 | 675 |
| 1978 | WR7 | 1978 | 11 | 30.34809 | 04 | 21 | 46.12 | +23 | 39 | 49.1 | | 675 |
| 1978 | WS7 | * 1978 | 11 | 29.34653 | 04 | 22 | 44.34 | +22 | 33 | 58.9 | 19.5 | 675 |
| 1978 | WS7 | 1978 | 11 | 30.34809 | 04 | 21 | 47.84 | +22 | 33 | 19.0 | | 675 |
| 1978 | WT7 | * 1978 | 11 | 29.34653 | 04 | 22 | 45.43 | +19 | 23 | 01.1 | 17.5 | 675 |
| 1978 | WT7 | 1978 | 11 | 30.34809 | 04 | 21 | 34.85 | +19 | 28 | 11.7 | | 675 |
| 1978 | WU7 | * 1978 | 11 | 29.34653 | 04 | 22 | 56.22 | +20 | 55 | 35.5 | 20.0 | 675 |
| 1978 | WU7 | 1978 | 11 | 30.34809 | 04 | 21 | 49.06 | +20 | 55 | 56.3 | | 675 |
| 1978 | WV7 | * 1978 | 11 | 29.34653 | 04 | 23 | 02.23 | +22 | 34 | 15.6 | 19.0 | 675 |
| 1978 | WV7 | 1978 | 11 | 30.34809 | 04 | 22 | 05.19 | +22 | 33 | 03.0 | | 675 |
| 1978 | WW7 | * 1978 | 11 | 29.34653 | 04 | 23 | 10.05 | +20 | 26 | 31.6 | 19.5 | 675 |
| 1978 | WW7 | 1978 | 11 | 30.34809 | 04 | 22 | 11.96 | +20 | 25 | 22.1 | | 675 |
| 1978 | WX7 | * 1978 | 11 | 29.34653 | 04 | 23 | 17.52 | +22 | 48 | 04.4 | 18.5 | 675 |
| 1978 | WX7 | 1978 | 11 | 30.34809 | 04 | 22 | 20.91 | +22 | 45 | 46.1 | | 675 |
| 1978 | WY7 | * 1978 | 11 | 29.34653 | 04 | 23 | 18.74 | +21 | 48 | 21.5 | 20.0 | 675 |
| 1978 | WY7 | 1978 | 11 | 30.34809 | 04 | 22 | 17.62 | +21 | 42 | 10.9 | | 675 |
| 1978 | WZ7 | * 1978 | 11 | 29.34653 | 04 | 23 | 19.42 | +20 | 20 | 50.4 | 20.5 | 675 |
| 1978 | WZ7 | 1978 | 11 | 30.34809 | 04 | 22 | 27.43 | +20 | 17 | 23.6 | | 675 |
| 1978 | WA8 | * 1978 | 11 | 29.34653 | 04 | 23 | 31.89 | +23 | 50 | 01.9 | 20.0 | 675 |
| 1978 | WA8 | 1978 | 11 | 30.34809 | 04 | 22 | 32.79 | +23 | 46 | 13.8 | | 675 |
| 1978 | WB8 | * 1978 | 11 | 29.34653 | 04 | 23 | 50.14 | +18 | 39 | 37.6 | 20.0 | 675 |
| 1978 | WB8 | 1978 | 11 | 30.40017 | 04 | 22 | 52.83 | +18 | 37 | 05.1 | | 675 |

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|------|-----|---|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WC8 | * | 1978 | 11 | 29.34653 | 04 | 23 | 54.35 | +23 | 47 | 55.6 | 20.0 | 675 |
| 1978 | WC8 | | 1978 | 11 | 30.34809 | 04 | 22 | 53.70 | +23 | 45 | 17.5 | | 675 |
| 1978 | WD8 | * | 1978 | 11 | 29.34653 | 04 | 23 | 55.68 | +22 | 52 | 24.7 | 20.0 | 675 |
| 1978 | WD8 | | 1978 | 11 | 30.40017 | 04 | 22 | 47.32 | +22 | 52 | 04.7 | | 675 |
| 1978 | WE8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 12.92 | +22 | 14 | 14.4 | 20.0 | 675 |
| 1978 | WE8 | | 1978 | 11 | 30.34809 | 04 | 23 | 15.62 | +22 | 11 | 43.5 | | 675 |
| 1978 | WF8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 14.38 | +23 | 54 | 00.6 | 20.0 | 675 |
| 1978 | WF8 | | 1978 | 11 | 30.34809 | 04 | 23 | 04.42 | +23 | 48 | 03.7 | | 675 |
| 1978 | WG8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 17.78 | +20 | 46 | 04.3 | 20.0 | 675 |
| 1978 | WG8 | | 1978 | 11 | 30.34809 | 04 | 23 | 19.66 | +20 | 42 | 27.9 | | 675 |
| 1978 | WH8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 18.50 | +21 | 00 | 39.0 | 20.0 | 675 |
| 1978 | WH8 | | 1978 | 11 | 30.34809 | 04 | 23 | 09.66 | +21 | 00 | 19.4 | | 675 |
| 1978 | WJ8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 21.08 | +22 | 18 | 00.2 | 20.0 | 675 |
| 1978 | WJ8 | | 1978 | 11 | 30.34809 | 04 | 23 | 09.29 | +22 | 16 | 07.6 | | 675 |
| 1978 | WK8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 30.03 | +21 | 04 | 50.3 | 20.0 | 675 |
| 1978 | WK8 | | 1978 | 11 | 30.34809 | 04 | 23 | 34.23 | +20 | 59 | 49.1 | | 675 |
| 1978 | WL8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 32.54 | +20 | 00 | 50.7 | 20.5 | 675 |
| 1978 | WL8 | | 1978 | 11 | 30.34809 | 04 | 23 | 28.35 | +19 | 53 | 29.3 | | 675 |
| 1978 | WM8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 34.60 | +19 | 54 | 01.7 | 19.0 | 675 |
| 1978 | WM8 | | 1978 | 11 | 30.34809 | 04 | 23 | 41.30 | +19 | 48 | 52.0 | | 675 |
| 1978 | WN8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 36.47 | +22 | 51 | 51.2 | 19.0 | 675 |
| 1978 | WN8 | | 1978 | 11 | 30.34809 | 04 | 23 | 37.79 | +22 | 47 | 58.1 | | 675 |
| 1978 | WO8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 43.52 | +20 | 06 | 27.0 | 20.0 | 675 |
| 1978 | WO8 | | 1978 | 11 | 30.34809 | 04 | 23 | 39.25 | +20 | 04 | 35.8 | | 675 |
| 1978 | WP8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 49.23 | +17 | 51 | 57.8 | 18.0 | 675 |
| 1978 | WP8 | | 1978 | 11 | 30.34809 | 04 | 23 | 50.88 | +17 | 53 | 52.2 | | 675 |
| 1978 | WQ8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 52.21 | +23 | 31 | 37.5 | 20.0 | 675 |
| 1978 | WQ8 | | 1978 | 11 | 30.34809 | 04 | 23 | 39.94 | +23 | 31 | 23.1 | | 675 |
| 1978 | WR8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 58.15 | +20 | 56 | 52.9 | 19.0 | 675 |
| 1978 | WR8 | | 1978 | 11 | 30.34809 | 04 | 24 | 00.60 | +20 | 55 | 56.3 | | 675 |
| 1978 | WS8 | * | 1978 | 11 | 29.34653 | 04 | 24 | 59.84 | +22 | 31 | 05.5 | 20.0 | 675 |
| 1978 | WS8 | | 1978 | 11 | 30.34809 | 04 | 24 | 00.09 | +22 | 28 | 16.2 | | 675 |
| 1978 | WT8 | * | 1978 | 11 | 29.34653 | 04 | 25 | 01.41 | +18 | 27 | 59.7 | 19.5 | 675 |
| 1978 | WT8 | | 1978 | 11 | 30.34809 | 04 | 23 | 55.14 | +18 | 27 | 15.8 | | 675 |
| 1978 | WU8 | * | 1978 | 11 | 29.34653 | 04 | 25 | 03.60 | +21 | 43 | 25.8 | 19.0 | 675 |
| 1978 | WU8 | | 1978 | 11 | 30.40017 | 04 | 24 | 05.88 | +21 | 41 | 32.8 | | 675 |
| 1978 | WV8 | * | 1978 | 11 | 29.34653 | 04 | 25 | 19.24 | +21 | 40 | 44.9 | 19.5 | 675 |
| 1978 | WV8 | | 1978 | 11 | 29.45694 | 04 | 25 | 12.49 | +21 | 40 | 35.7 | | 675 |
| 1978 | WV8 | | 1978 | 11 | 30.34809 | 04 | 24 | 16.79 | +21 | 39 | 15.4 | | 675 |
| 1978 | WW8 | * | 1978 | 11 | 29.34653 | 04 | 25 | 27.54 | +20 | 47 | 18.4 | 20.0 | 675 |
| 1978 | WW8 | | 1978 | 11 | 30.34809 | 04 | 24 | 34.38 | +20 | 46 | 22.8 | | 675 |
| 1978 | WX8 | * | 1978 | 11 | 29.34653 | 04 | 25 | 39.38 | +18 | 54 | 50.4 | 20.0 | 675 |
| 1978 | WX8 | | 1978 | 11 | 30.34809 | 04 | 24 | 31.98 | +18 | 54 | 21.0 | | 675 |
| 1978 | WY8 | * | 1978 | 11 | 29.34653 | 04 | 25 | 41.01 | +20 | 56 | 40.7 | 19.5 | 675 |
| 1978 | WY8 | | 1978 | 11 | 30.34809 | 04 | 24 | 43.74 | +20 | 55 | 41.0 | | 675 |
| 1978 | WZ8 | * | 1978 | 11 | 29.34653 | 04 | 25 | 57.86 | +21 | 04 | 24.4 | 20.0 | 675 |
| 1978 | WZ8 | | 1978 | 11 | 29.45694 | 04 | 25 | 50.87 | +21 | 04 | 27.4 | | 675 |
| 1978 | WZ8 | | 1978 | 11 | 30.34809 | 04 | 24 | 54.95 | +21 | 04 | 51.6 | | 675 |
| 1978 | WA9 | * | 1978 | 11 | 29.34653 | 04 | 26 | 09.61 | +20 | 28 | 43.0 | 19.5 | 675 |
| 1978 | WA9 | | 1978 | 11 | 29.45694 | 04 | 26 | 03.52 | +20 | 28 | 27.5 | | 675 |
| 1978 | WA9 | | 1978 | 11 | 30.34809 | 04 | 25 | 14.02 | +20 | 26 | 24.0 | | 675 |
| 1978 | WB9 | * | 1978 | 11 | 29.34653 | 04 | 26 | 55.40 | +21 | 48 | 31.9 | 20.0 | 675 |
| 1978 | WB9 | | 1978 | 11 | 30.34809 | 04 | 25 | 48.18 | +21 | 44 | 01.8 | | 675 |
| 1978 | WC9 | * | 1978 | 11 | 29.34653 | 04 | 26 | 59.59 | +23 | 37 | 29.9 | 20.0 | 675 |
| 1978 | WC9 | | 1978 | 11 | 29.40486 | 04 | 26 | 56.26 | +23 | 37 | 11.1 | | 675 |
| 1978 | WC9 | | 1978 | 11 | 30.34809 | 04 | 26 | 05.37 | +23 | 32 | 18.3 | | 675 |
| 1978 | WD9 | * | 1978 | 11 | 29.34653 | 04 | 27 | 08.37 | +18 | 39 | 22.6 | 20.0 | 675 |
| 1978 | WD9 | | 1978 | 11 | 29.40486 | 04 | 27 | 04.76 | +18 | 39 | 32.8 | | 675 |
| 1978 | WD9 | | 1978 | 11 | 30.34809 | 04 | 26 | 03.97 | +18 | 42 | 40.2 | | 675 |

| | | | | | | | | | | | | | |
|------|-----|---|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WD9 | | 1978 | 11 | 30.45712 | 04 | 25 | 56.74 | +18 | 42 | 59.8 | | 675 |
| 1978 | WE9 | * | 1978 | 11 | 29.34653 | 04 | 27 | 20.88 | +22 | 33 | 49.9 | 20.0 | 675 |
| 1978 | WE9 | | 1978 | 11 | 29.45694 | 04 | 27 | 14.87 | +22 | 33 | 36.8 | | 675 |
| 1978 | WE9 | | 1978 | 11 | 30.40503 | 04 | 26 | 23.70 | +22 | 31 | 44.3 | | 675 |
| 1978 | WF9 | * | 1978 | 11 | 29.34653 | 04 | 27 | 55.11 | +23 | 32 | 42.9 | 20.0 | 675 |
| 1978 | WF9 | | 1978 | 11 | 29.40486 | 04 | 27 | 51.36 | +23 | 32 | 37.8 | | 675 |
| 1978 | WF9 | | 1978 | 11 | 30.34809 | 04 | 26 | 56.75 | +23 | 31 | 33.4 | | 675 |
| 1978 | WF9 | | 1978 | 11 | 30.40503 | 04 | 26 | 53.27 | +23 | 31 | 28.3 | | 675 |
| 1978 | WG9 | * | 1978 | 11 | 29.34653 | 04 | 28 | 01.81 | +22 | 28 | 50.5 | 19.5 | 675 |
| 1978 | WG9 | | 1978 | 11 | 29.45694 | 04 | 27 | 56.45 | +22 | 28 | 40.5 | | 675 |
| 1978 | WG9 | | 1978 | 11 | 30.34809 | 04 | 27 | 11.36 | +22 | 27 | 20.4 | | 675 |
| 1978 | WG9 | | 1978 | 11 | 30.45712 | 04 | 27 | 05.82 | +22 | 27 | 10.5 | | 675 |
| 1978 | WH9 | * | 1978 | 11 | 29.34653 | 04 | 28 | 20.38 | +19 | 07 | 13.7 | 18.5 | 675 |
| 1978 | WH9 | | 1978 | 11 | 29.45694 | 04 | 28 | 13.87 | +19 | 07 | 24.8 | | 675 |
| 1978 | WH9 | | 1978 | 11 | 30.34809 | 04 | 27 | 18.67 | +19 | 08 | 55.9 | | 675 |
| 1978 | WH9 | | 1978 | 11 | 30.45712 | 04 | 27 | 12.15 | +19 | 09 | 06.3 | | 675 |
| 1978 | WJ9 | * | 1978 | 11 | 29.34653 | 04 | 28 | 30.06 | +21 | 19 | 53.1 | 20.0 | 675 |
| 1978 | WJ9 | | 1978 | 11 | 29.45694 | 04 | 28 | 24.64 | +21 | 19 | 41.3 | | 675 |
| 1978 | WJ9 | | 1978 | 11 | 30.40503 | 04 | 27 | 37.16 | +21 | 17 | 51.3 | | 675 |
| 1978 | WK9 | * | 1978 | 11 | 29.34653 | 04 | 28 | 45.76 | +20 | 52 | 40.0 | 19.5 | 675 |
| 1978 | WK9 | | 1978 | 11 | 29.45694 | 04 | 28 | 36.96 | +20 | 53 | 28.9 | | 675 |
| 1978 | WK9 | | 1978 | 11 | 30.34809 | 04 | 27 | 27.06 | +21 | 00 | 02.2 | | 675 |
| 1978 | WK9 | | 1978 | 11 | 30.45712 | 04 | 27 | 18.83 | +21 | 00 | 46.5 | | 675 |
| 1978 | WL9 | * | 1978 | 11 | 29.34653 | 04 | 28 | 51.61 | +22 | 59 | 50.5 | 20.0 | 675 |
| 1978 | WL9 | | 1978 | 11 | 29.45694 | 04 | 28 | 47.99 | +22 | 59 | 41.1 | | 675 |
| 1978 | WL9 | | 1978 | 11 | 30.34809 | 04 | 28 | 17.89 | +22 | 58 | 37.0 | | 675 |
| 1978 | WL9 | | 1978 | 11 | 30.40503 | 04 | 28 | 15.86 | +22 | 58 | 31.2 | | 675 |
| 1978 | WM9 | * | 1978 | 11 | 29.34653 | 04 | 28 | 58.28 | +18 | 08 | 38.9 | 18.0 | 675 |
| 1978 | WM9 | | 1978 | 11 | 30.34809 | 04 | 28 | 01.86 | +18 | 10 | 54.9 | | 675 |
| 1978 | WN9 | * | 1978 | 11 | 29.34653 | 04 | 29 | 18.85 | +18 | 51 | 19.8 | 20.0 | 675 |
| 1978 | WN9 | | 1978 | 11 | 29.45694 | 04 | 29 | 11.29 | +18 | 51 | 10.3 | | 675 |
| 1978 | WN9 | | 1978 | 11 | 30.34809 | 04 | 28 | 08.05 | +18 | 49 | 53.0 | | 675 |
| 1978 | WN9 | | 1978 | 11 | 30.45712 | 04 | 28 | 00.57 | +18 | 49 | 43.6 | | 675 |
| 1978 | WO9 | * | 1978 | 11 | 29.34653 | 04 | 29 | 30.27 | +18 | 10 | 45.9 | 19.5 | 675 |
| 1978 | WO9 | | 1978 | 11 | 30.34809 | 04 | 28 | 34.69 | +18 | 08 | 36.4 | | 675 |
| 1978 | WP9 | * | 1978 | 11 | 29.34653 | 04 | 29 | 45.09 | +18 | 52 | 22.9 | 19.0 | 675 |
| 1978 | WP9 | | 1978 | 11 | 29.45694 | 04 | 29 | 38.92 | +18 | 52 | 33.1 | | 675 |
| 1978 | WP9 | | 1978 | 11 | 30.34809 | 04 | 28 | 47.91 | +18 | 53 | 46.1 | | 675 |
| 1978 | WP9 | | 1978 | 11 | 30.45712 | 04 | 28 | 42.04 | +18 | 53 | 56.3 | | 675 |
| 1978 | WQ9 | * | 1978 | 11 | 29.34653 | 04 | 29 | 49.18 | +21 | 02 | 22.4 | 20.0 | 675 |
| 1978 | WQ9 | | 1978 | 11 | 29.40486 | 04 | 29 | 46.01 | +21 | 02 | 26.7 | | 675 |
| 1978 | WQ9 | | 1978 | 11 | 30.45712 | 04 | 28 | 43.93 | +21 | 04 | 12.0 | | 675 |
| 1978 | WR9 | * | 1978 | 11 | 29.39861 | 04 | 06 | 37.15 | +18 | 03 | 06.8 | 20.0 | 675 |
| 1978 | WR9 | | 1978 | 11 | 30.40017 | 04 | 06 | 02.50 | +18 | 02 | 39.7 | | 675 |
| 1978 | WS9 | * | 1978 | 11 | 29.39861 | 04 | 08 | 25.50 | +19 | 35 | 36.9 | 19.5 | 675 |
| 1978 | WS9 | | 1978 | 11 | 30.34809 | 04 | 07 | 35.64 | +19 | 33 | 21.0 | | 675 |
| 1978 | WT9 | * | 1978 | 11 | 29.39861 | 04 | 09 | 46.94 | +23 | 52 | 51.0 | 19.5 | 675 |
| 1978 | WT9 | | 1978 | 11 | 30.34809 | 04 | 08 | 42.73 | +23 | 47 | 52.2 | | 675 |
| 1978 | WU9 | * | 1978 | 11 | 29.39861 | 04 | 11 | 54.40 | +23 | 05 | 41.9 | 20.0 | 675 |
| 1978 | WU9 | | 1978 | 11 | 30.34809 | 04 | 11 | 02.79 | +23 | 01 | 53.5 | | 675 |
| 1978 | WV9 | * | 1978 | 11 | 29.39861 | 04 | 13 | 36.41 | +24 | 01 | 45.1 | 20.0 | 675 |
| 1978 | WV9 | | 1978 | 11 | 30.34809 | 04 | 12 | 31.08 | +23 | 57 | 25.0 | | 675 |
| 1978 | WW9 | * | 1978 | 11 | 29.39861 | 04 | 13 | 46.47 | +24 | 02 | 49.6 | 19.5 | 675 |
| 1978 | WW9 | | 1978 | 11 | 30.34809 | 04 | 12 | 49.40 | +23 | 59 | 15.7 | | 675 |
| 1978 | WX9 | * | 1978 | 11 | 29.39861 | 04 | 13 | 56.69 | +23 | 03 | 01.7 | 20.0 | 675 |
| 1978 | WX9 | | 1978 | 11 | 30.34809 | 04 | 12 | 58.94 | +22 | 51 | 50.8 | | 675 |
| 1978 | WY9 | * | 1978 | 11 | 29.39861 | 04 | 14 | 09.34 | +22 | 00 | 19.5 | 20.5 | 675 |
| 1978 | WY9 | | 1978 | 11 | 30.34809 | 04 | 13 | 03.55 | +21 | 56 | 15.7 | | 675 |
| 1978 | WZ9 | * | 1978 | 11 | 29.39861 | 04 | 15 | 05.83 | +21 | 25 | 24.9 | 19.5 | 675 |

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|------------|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 WZ9 | 1978 | 11 | 30.34809 | 04 | 14 | 14.81 | +21 | 20 | 15.2 | | 675 |
| 1978 WA10* | 1978 | 11 | 29.39861 | 04 | 17 | 11.99 | +20 | 35 | 25.4 | 19.5 | 675 |
| 1978 WA10 | 1978 | 11 | 30.34809 | 04 | 16 | 16.36 | +20 | 29 | 30.3 | | 675 |
| 1978 WB10* | 1978 | 11 | 29.39861 | 04 | 17 | 24.31 | +22 | 20 | 28.8 | 20.0 | 675 |
| 1978 WB10 | 1978 | 11 | 30.40017 | 04 | 16 | 14.07 | +22 | 18 | 39.6 | | 675 |
| 1978 WC10* | 1978 | 11 | 29.39861 | 04 | 18 | 10.92 | +22 | 26 | 49.2 | 20.0 | 675 |
| 1978 WC10 | 1978 | 11 | 30.34809 | 04 | 17 | 05.89 | +22 | 24 | 08.4 | | 675 |
| 1978 WD10* | 1978 | 11 | 29.39861 | 04 | 19 | 09.14 | +21 | 42 | 38.1 | 20.0 | 675 |
| 1978 WD10 | 1978 | 11 | 30.34809 | 04 | 18 | 16.65 | +21 | 41 | 12.0 | | 675 |
| 1978 WE10* | 1978 | 11 | 29.39861 | 04 | 19 | 41.03 | +19 | 51 | 01.1 | 20.0 | 675 |
| 1978 WE10 | 1978 | 11 | 30.34809 | 04 | 18 | 43.94 | +19 | 48 | 41.5 | | 675 |
| 1978 WF10* | 1978 | 11 | 29.39861 | 04 | 20 | 35.49 | +20 | 55 | 19.0 | 20.0 | 675 |
| 1978 WF10 | 1978 | 11 | 30.34809 | 04 | 19 | 33.57 | +20 | 55 | 47.0 | | 675 |
| 1978 WG10* | 1978 | 11 | 29.39861 | 04 | 21 | 05.31 | +20 | 05 | 37.8 | 20.0 | 675 |
| 1978 WG10 | 1978 | 11 | 30.34809 | 04 | 20 | 26.33 | +20 | 04 | 32.6 | | 675 |
| 1978 WH10* | 1978 | 11 | 29.39861 | 04 | 22 | 22.64 | +18 | 56 | 46.9 | 20.0 | 675 |
| 1978 WH10 | 1978 | 11 | 30.34809 | 04 | 21 | 21.87 | +18 | 54 | 31.3 | | 675 |
| 1978 WJ10* | 1978 | 11 | 29.39861 | 04 | 27 | 32.27 | +19 | 10 | 15.0 | 20.5 | 675 |
| 1978 WJ10 | 1978 | 11 | 30.40503 | 04 | 26 | 40.57 | +19 | 09 | 31.1 | | 675 |
| 1978 WK10* | 1978 | 11 | 29.39861 | 04 | 27 | 55.36 | +21 | 46 | 05.1 | 20.0 | 675 |
| 1978 WK10 | 1978 | 11 | 30.34809 | 04 | 26 | 53.51 | +21 | 46 | 13.0 | | 675 |
| 1978 WL10* | 1978 | 11 | 29.39861 | 04 | 28 | 12.34 | +23 | 27 | 25.8 | 20.0 | 675 |
| 1978 WL10 | 1978 | 11 | 30.40017 | 04 | 27 | 15.42 | +23 | 26 | 06.6 | | 675 |
| 1978 WM10* | 1978 | 11 | 29.39861 | 04 | 29 | 23.18 | +22 | 26 | 34.5 | 20.5 | 675 |
| 1978 WM10 | 1978 | 11 | 30.34809 | 04 | 28 | 24.94 | +22 | 27 | 21.7 | | 675 |
| 1978 WN10* | 1978 | 11 | 29.39861 | 04 | 30 | 05.32 | +20 | 50 | 37.9 | 18.5 | 675 |
| 1978 WN10 | 1978 | 11 | 29.45694 | 04 | 30 | 01.10 | +20 | 50 | 55.2 | | 675 |
| 1978 WN10 | 1978 | 11 | 30.34809 | 04 | 29 | 00.19 | +20 | 55 | 33.8 | | 675 |
| 1978 WN10 | 1978 | 11 | 30.45712 | 04 | 28 | 52.58 | +20 | 56 | 07.1 | | 675 |
| 1978 WO10* | 1978 | 11 | 29.40486 | 04 | 26 | 07.46 | +21 | 02 | 39.9 | 20.0 | 675 |
| 1978 WO10 | 1978 | 11 | 30.34809 | 04 | 25 | 08.44 | +21 | 08 | 22.1 | | 675 |
| 1978 WP10* | 1978 | 11 | 29.40486 | 04 | 26 | 57.07 | +24 | 17 | 23.7 | 20.0 | 675 |
| 1978 WP10 | 1978 | 11 | 30.40503 | 04 | 25 | 50.91 | +24 | 14 | 56.2 | | 675 |
| 1978 WQ10* | 1978 | 11 | 29.40486 | 04 | 28 | 48.38 | +23 | 58 | 03.2 | 20.0 | 675 |
| 1978 WQ10 | 1978 | 11 | 30.40503 | 04 | 27 | 40.08 | +24 | 05 | 20.0 | | 675 |
| 1978 WR10* | 1978 | 11 | 29.40486 | 04 | 29 | 38.98 | +20 | 03 | 21.0 | 20.0 | 675 |
| 1978 WR10 | 1978 | 11 | 30.45712 | 04 | 28 | 33.81 | +20 | 00 | 38.9 | | 675 |
| 1978 WS10* | 1978 | 11 | 29.40486 | 04 | 30 | 14.59 | +19 | 42 | 00.6 | 20.0 | 675 |
| 1978 WS10 | 1978 | 11 | 30.34809 | 04 | 29 | 10.03 | +19 | 43 | 08.0 | | 675 |
| 1978 WS10 | 1978 | 11 | 30.40503 | 04 | 29 | 05.70 | +19 | 43 | 10.5 | | 675 |
| 1978 WT10* | 1978 | 11 | 29.40486 | 04 | 30 | 14.81 | +23 | 20 | 03.1 | 20.0 | 675 |
| 1978 WT10 | 1978 | 11 | 30.34809 | 04 | 29 | 12.58 | +23 | 16 | 20.4 | | 675 |
| 1978 WT10 | 1978 | 11 | 30.40503 | 04 | 29 | 08.93 | +23 | 16 | 05.9 | | 675 |
| 1978 WU10* | 1978 | 11 | 29.40486 | 04 | 30 | 20.55 | +18 | 29 | 07.9 | 20.0 | 675 |
| 1978 WU10 | 1978 | 11 | 30.34809 | 04 | 29 | 28.31 | +18 | 27 | 04.4 | | 675 |
| 1978 WU10 | 1978 | 11 | 30.40503 | 04 | 29 | 25.03 | +18 | 26 | 57.5 | | 675 |
| 1978 WV10* | 1978 | 11 | 29.40486 | 04 | 31 | 10.52 | +20 | 08 | 10.4 | 20.0 | 675 |
| 1978 WV10 | 1978 | 11 | 30.40503 | 04 | 30 | 14.57 | +20 | 07 | 31.2 | | 675 |
| 1978 WW10* | 1978 | 11 | 29.40486 | 04 | 31 | 11.04 | +19 | 06 | 45.8 | 19.0 | 675 |
| 1978 WW10 | 1978 | 11 | 30.40503 | 04 | 30 | 15.76 | +19 | 07 | 28.4 | | 675 |
| 1978 WX10* | 1978 | 11 | 29.40486 | 04 | 31 | 17.43 | +19 | 47 | 02.6 | 20.0 | 675 |
| 1978 WX10 | 1978 | 11 | 30.40503 | 04 | 30 | 21.33 | +19 | 47 | 40.0 | | 675 |
| 1978 WY10* | 1978 | 11 | 29.40486 | 04 | 31 | 30.75 | +21 | 01 | 43.9 | 19.5 | 675 |
| 1978 WY10 | 1978 | 11 | 30.40503 | 04 | 30 | 21.25 | +21 | 04 | 37.3 | | 675 |
| 1978 WZ10* | 1978 | 11 | 29.40486 | 04 | 31 | 58.81 | +18 | 32 | 35.9 | 19.5 | 675 |
| 1978 WZ10 | 1978 | 11 | 30.40503 | 04 | 31 | 06.71 | +18 | 31 | 07.7 | | 675 |
| 1978 WA11* | 1978 | 11 | 29.40486 | 04 | 32 | 02.33 | +23 | 22 | 33.8 | 20.0 | 675 |
| 1978 WA11 | 1978 | 11 | 30.40503 | 04 | 31 | 01.64 | +23 | 25 | 32.7 | | 675 |
| 1978 WB11* | 1978 | 11 | 29.40486 | 04 | 32 | 51.01 | +20 | 19 | 41.4 | 20.0 | 675 |

| | | | | | | | | | | | | |
|------|-------|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WB11 | 1978 | 11 | 30.40503 | 04 | 31 | 41.85 | +20 | 25 | 12.8 | | 675 |
| 1978 | WC11* | 1978 | 11 | 29.40486 | 04 | 33 | 34.10 | +18 | 23 | 20.7 | 20.0 | 675 |
| 1978 | WC11 | 1978 | 11 | 30.40503 | 04 | 32 | 35.59 | +18 | 20 | 33.1 | | 675 |
| 1978 | WD11* | 1978 | 11 | 29.40486 | 04 | 33 | 36.13 | +19 | 09 | 36.0 | 20.5 | 675 |
| 1978 | WD11 | 1978 | 11 | 30.40503 | 04 | 32 | 43.55 | +19 | 06 | 36.2 | | 675 |
| 1978 | WE11* | 1978 | 11 | 29.40486 | 04 | 33 | 57.26 | +20 | 43 | 26.1 | 20.0 | 675 |
| 1978 | WE11 | 1978 | 11 | 30.40503 | 04 | 32 | 48.52 | +20 | 46 | 38.9 | | 675 |
| 1978 | WF11* | 1978 | 11 | 29.40486 | 04 | 34 | 04.86 | +18 | 20 | 51.3 | 19.0 | 675 |
| 1978 | WF11 | 1978 | 11 | 30.40503 | 04 | 33 | 09.02 | +18 | 18 | 52.5 | | 675 |
| 1978 | WG11* | 1978 | 11 | 29.40486 | 04 | 34 | 07.86 | +23 | 42 | 11.2 | 20.0 | 675 |
| 1978 | WG11 | 1978 | 11 | 30.40503 | 04 | 33 | 04.28 | +23 | 40 | 03.9 | | 675 |
| 1978 | WH11* | 1978 | 11 | 29.40486 | 04 | 34 | 14.99 | +19 | 25 | 15.7 | 18.0 | 675 |
| 1978 | WH11 | 1978 | 11 | 30.40503 | 04 | 32 | 16.58 | +19 | 45 | 06.3 | | 675 |
| 1978 | WJ11* | 1978 | 11 | 29.40486 | 04 | 34 | 55.05 | +18 | 21 | 58.7 | 20.0 | 675 |
| 1978 | WJ11 | 1978 | 11 | 30.40503 | 04 | 33 | 58.78 | +18 | 19 | 46.8 | | 675 |
| 1978 | WK11* | 1978 | 11 | 29.40486 | 04 | 34 | 56.26 | +22 | 20 | 04.5 | 20.0 | 675 |
| 1978 | WK11 | 1978 | 11 | 30.45712 | 04 | 33 | 50.28 | +22 | 17 | 53.9 | | 675 |
| 1978 | WL11* | 1978 | 11 | 29.40486 | 04 | 35 | 12.72 | +19 | 09 | 16.3 | 20.0 | 675 |
| 1978 | WL11 | 1978 | 11 | 30.40503 | 04 | 34 | 03.31 | +19 | 15 | 14.7 | | 675 |
| 1978 | WM11* | 1978 | 11 | 29.40486 | 04 | 35 | 27.96 | +18 | 44 | 53.7 | 20.0 | 675 |
| 1978 | WM11 | 1978 | 11 | 30.40503 | 04 | 34 | 34.14 | +18 | 46 | 28.7 | | 675 |
| 1978 | WN11* | 1978 | 11 | 29.40486 | 04 | 35 | 36.06 | +20 | 12 | 11.0 | 20.0 | 675 |
| 1978 | WN11 | 1978 | 11 | 30.40503 | 04 | 34 | 35.03 | +20 | 10 | 38.6 | | 675 |
| 1978 | WO11* | 1978 | 11 | 29.40486 | 04 | 36 | 04.16 | +19 | 54 | 29.7 | 20.0 | 675 |
| 1978 | WO11 | 1978 | 11 | 30.40503 | 04 | 35 | 07.62 | +19 | 53 | 53.1 | | 675 |
| 1978 | WP11* | 1978 | 11 | 29.40486 | 04 | 36 | 24.69 | +19 | 20 | 19.5 | 18.5 | 675 |
| 1978 | WP11 | 1978 | 11 | 30.40503 | 04 | 35 | 24.78 | +19 | 19 | 14.1 | | 675 |
| 1978 | WQ11* | 1978 | 11 | 29.40486 | 04 | 36 | 48.34 | +19 | 39 | 30.5 | 18.5 | 675 |
| 1978 | WQ11 | 1978 | 11 | 30.40503 | 04 | 35 | 39.14 | +19 | 40 | 56.6 | | 675 |
| 1978 | WR11* | 1978 | 11 | 29.40486 | 04 | 37 | 34.72 | +18 | 43 | 35.4 | 20.0 | 675 |
| 1978 | WR11 | 1978 | 11 | 30.40503 | 04 | 36 | 28.93 | +18 | 39 | 33.9 | | 675 |
| 1978 | WS11* | 1978 | 11 | 29.40486 | 04 | 37 | 50.52 | +18 | 16 | 22.9 | 19.5 | 675 |
| 1978 | WS11 | 1978 | 11 | 30.40503 | 04 | 36 | 06.29 | +18 | 14 | 09.5 | | 675 |
| 1978 | WT11* | 1978 | 11 | 29.40486 | 04 | 38 | 22.95 | +22 | 51 | 30.2 | 20.0 | 675 |
| 1978 | WT11 | 1978 | 11 | 30.40503 | 04 | 37 | 13.19 | +22 | 49 | 58.8 | | 675 |
| 1978 | WU11* | 1978 | 11 | 29.40486 | 04 | 38 | 26.75 | +20 | 23 | 26.3 | 20.0 | 675 |
| 1978 | WU11 | 1978 | 11 | 30.40503 | 04 | 37 | 33.20 | +20 | 21 | 13.3 | | 675 |
| 1978 | WV11* | 1978 | 11 | 29.40486 | 04 | 38 | 33.59 | +21 | 22 | 52.6 | 20.0 | 675 |
| 1978 | WV11 | 1978 | 11 | 30.40503 | 04 | 37 | 28.52 | +21 | 20 | 11.4 | | 675 |
| 1978 | WW11* | 1978 | 11 | 29.40486 | 04 | 38 | 46.73 | +18 | 59 | 48.9 | 18.0 | 675 |
| 1978 | WW11 | 1978 | 11 | 30.40503 | 04 | 37 | 40.12 | +19 | 00 | 16.4 | | 675 |
| 1978 | WX11* | 1978 | 11 | 29.40486 | 04 | 39 | 02.87 | +22 | 34 | 39.0 | 20.5 | 675 |
| 1978 | WX11 | 1978 | 11 | 30.40503 | 04 | 38 | 12.58 | +22 | 33 | 23.8 | | 675 |
| 1978 | WY11* | 1978 | 11 | 29.40486 | 04 | 39 | 06.93 | +19 | 40 | 44.8 | 20.0 | 675 |
| 1978 | WY11 | 1978 | 11 | 30.45712 | 04 | 38 | 04.50 | +19 | 38 | 07.9 | | 675 |
| 1978 | WZ11* | 1978 | 11 | 29.40486 | 04 | 39 | 36.12 | +23 | 33 | 56.4 | 19.5 | 675 |
| 1978 | WZ11 | 1978 | 11 | 30.40503 | 04 | 38 | 30.52 | +23 | 23 | 00.7 | | 675 |
| 1978 | WA12* | 1978 | 11 | 29.40486 | 04 | 39 | 47.47 | +18 | 36 | 40.9 | 19.5 | 675 |
| 1978 | WA12 | 1978 | 11 | 30.40503 | 04 | 38 | 53.46 | +18 | 35 | 33.2 | | 675 |
| 1978 | WB12* | 1978 | 11 | 29.40486 | 04 | 39 | 56.31 | +23 | 59 | 06.3 | 20.0 | 675 |
| 1978 | WB12 | 1978 | 11 | 30.40503 | 04 | 39 | 05.34 | +23 | 58 | 25.8 | | 675 |
| 1978 | WC12* | 1978 | 11 | 29.40486 | 04 | 40 | 20.19 | +24 | 31 | 49.7 | 20.0 | 675 |
| 1978 | WC12 | 1978 | 11 | 30.40503 | 04 | 39 | 22.79 | +24 | 30 | 42.8 | | 675 |
| 1978 | WD12* | 1978 | 11 | 29.40486 | 04 | 40 | 47.50 | +18 | 40 | 58.7 | 19.0 | 675 |
| 1978 | WD12 | 1978 | 11 | 30.40503 | 04 | 39 | 52.53 | +18 | 38 | 57.9 | | 675 |
| 1978 | WE12* | 1978 | 11 | 29.40486 | 04 | 41 | 17.16 | +23 | 33 | 55.6 | 19.0 | 675 |
| 1978 | WE12 | 1978 | 11 | 30.45712 | 04 | 40 | 05.66 | +23 | 32 | 21.8 | | 675 |
| 1978 | WF12* | 1978 | 11 | 29.40486 | 04 | 41 | 30.60 | +19 | 25 | 31.8 | 20.0 | 675 |
| 1978 | WF12 | 1978 | 11 | 30.40503 | 04 | 40 | 19.59 | +19 | 24 | 44.4 | | 675 |

| | | | | | | | | | | | | |
|------|-------|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WG12* | 1978 | 11 | 29.40486 | 04 | 42 | 04.38 | +18 | 20 | 20.8 | 19.5 | 675 |
| 1978 | WG12 | 1978 | 11 | 30.40503 | 04 | 41 | 02.90 | +18 | 21 | 38.3 | | 675 |
| 1978 | WH12* | 1978 | 11 | 29.40486 | 04 | 42 | 09.73 | +19 | 06 | 37.0 | 20.5 | 675 |
| 1978 | WH12 | 1978 | 11 | 30.40503 | 04 | 41 | 18.32 | +19 | 00 | 46.2 | | 675 |
| 1978 | WJ12* | 1978 | 11 | 29.40486 | 04 | 42 | 33.31 | +22 | 44 | 51.9 | 20.0 | 675 |
| 1978 | WJ12 | 1978 | 11 | 30.40503 | 04 | 41 | 31.23 | +22 | 46 | 47.6 | | 675 |
| 1978 | WK12* | 1978 | 11 | 29.40486 | 04 | 42 | 43.22 | +18 | 39 | 51.5 | 19.0 | 675 |
| 1978 | WK12 | 1978 | 11 | 30.40503 | 04 | 41 | 42.54 | +18 | 39 | 06.4 | | 675 |
| 1978 | WL12* | 1978 | 11 | 29.40486 | 04 | 43 | 03.60 | +18 | 54 | 53.3 | 19.0 | 675 |
| 1978 | WL12 | 1978 | 11 | 30.40503 | 04 | 42 | 05.63 | +18 | 55 | 09.5 | | 675 |
| 1978 | WM12* | 1978 | 11 | 29.40486 | 04 | 43 | 08.13 | +23 | 03 | 01.2 | 20.0 | 675 |
| 1978 | WM12 | 1978 | 11 | 30.40503 | 04 | 42 | 06.97 | +23 | 00 | 30.5 | | 675 |
| 1978 | WN12* | 1978 | 11 | 29.40486 | 04 | 43 | 49.41 | +20 | 33 | 35.8 | 20.0 | 675 |
| 1978 | WN12 | 1978 | 11 | 30.45712 | 04 | 42 | 38.16 | +20 | 39 | 04.3 | | 675 |
| 1978 | WO12* | 1978 | 11 | 29.40486 | 04 | 43 | 49.89 | +21 | 46 | 53.6 | 16.0 | 675 |
| 1978 | WO12 | 1978 | 11 | 30.40503 | 04 | 42 | 46.55 | +21 | 52 | 31.7 | | 675 |
| 1978 | WP12* | 1978 | 11 | 29.40486 | 04 | 43 | 53.78 | +23 | 20 | 40.2 | 20.0 | 675 |
| 1978 | WP12 | 1978 | 11 | 30.40503 | 04 | 43 | 01.09 | +23 | 19 | 29.0 | | 675 |
| 1978 | WQ12* | 1978 | 11 | 29.40486 | 04 | 44 | 47.40 | +22 | 56 | 19.4 | 20.0 | 675 |
| 1978 | WQ12 | 1978 | 11 | 30.40503 | 04 | 43 | 37.71 | +22 | 54 | 29.4 | | 675 |
| 1978 | WR12* | 1978 | 11 | 29.40486 | 04 | 44 | 52.34 | +21 | 19 | 41.1 | 18.5 | 675 |
| 1978 | WR12 | 1978 | 11 | 30.40503 | 04 | 43 | 52.96 | +21 | 06 | 08.8 | | 675 |
| 1978 | WS12* | 1978 | 11 | 29.40486 | 04 | 44 | 53.54 | +24 | 17 | 50.7 | 18.5 | 675 |
| 1978 | WS12 | 1978 | 11 | 30.40503 | 04 | 44 | 19.72 | +24 | 16 | 42.6 | | 675 |
| 1978 | WT12* | 1978 | 11 | 29.40486 | 04 | 45 | 05.84 | +23 | 00 | 33.9 | 20.0 | 675 |
| 1978 | WT12 | 1978 | 11 | 30.40503 | 04 | 44 | 05.71 | +22 | 58 | 16.5 | | 675 |
| 1978 | WU12* | 1978 | 11 | 29.40486 | 04 | 45 | 07.64 | +19 | 50 | 02.9 | 19.0 | 675 |
| 1978 | WU12 | 1978 | 11 | 30.40503 | 04 | 44 | 17.72 | +19 | 48 | 42.1 | | 675 |
| 1978 | WV12* | 1978 | 11 | 29.40486 | 04 | 45 | 21.47 | +19 | 37 | 58.9 | 20.0 | 675 |
| 1978 | WV12 | 1978 | 11 | 30.40503 | 04 | 44 | 27.60 | +19 | 39 | 51.7 | | 675 |
| 1978 | WW12* | 1978 | 11 | 29.40486 | 04 | 45 | 24.42 | +22 | 34 | 33.4 | 20.0 | 675 |
| 1978 | WW12 | 1978 | 11 | 30.40503 | 04 | 44 | 25.00 | +22 | 34 | 57.0 | | 675 |
| 1978 | WX12* | 1978 | 11 | 29.40486 | 04 | 45 | 50.90 | +23 | 30 | 06.9 | 19.5 | 675 |
| 1978 | WX12 | 1978 | 11 | 30.40503 | 04 | 44 | 41.54 | +23 | 26 | 57.4 | | 675 |
| 1978 | WY12* | 1978 | 11 | 29.40486 | 04 | 45 | 52.43 | +21 | 59 | 20.8 | 20.0 | 675 |
| 1978 | WY12 | 1978 | 11 | 30.40503 | 04 | 44 | 42.09 | +21 | 56 | 18.0 | | 675 |
| 1978 | WZ12* | 1978 | 11 | 29.40486 | 04 | 46 | 02.87 | +22 | 29 | 27.5 | 20.0 | 675 |
| 1978 | WZ12 | 1978 | 11 | 30.40503 | 04 | 45 | 09.53 | +22 | 26 | 38.5 | | 675 |
| 1978 | WA13* | 1978 | 11 | 29.40486 | 04 | 47 | 10.97 | +22 | 36 | 37.8 | 20.5 | 675 |
| 1978 | WA13 | 1978 | 11 | 30.40503 | 04 | 45 | 58.33 | +22 | 38 | 00.1 | | 675 |
| 1978 | WB13* | 1978 | 11 | 29.40486 | 04 | 47 | 51.37 | +18 | 48 | 57.4 | 19.5 | 675 |
| 1978 | WB13 | 1978 | 11 | 30.40503 | 04 | 46 | 53.52 | +18 | 47 | 17.3 | | 675 |
| 1978 | WC13* | 1978 | 11 | 29.40486 | 04 | 47 | 53.88 | +21 | 11 | 42.3 | 20.0 | 675 |
| 1978 | WC13 | 1978 | 11 | 30.40503 | 04 | 46 | 57.57 | +21 | 11 | 07.9 | | 675 |
| 1978 | WD13* | 1978 | 11 | 29.40486 | 04 | 48 | 18.99 | +18 | 50 | 48.3 | 20.0 | 675 |
| 1978 | WD13 | 1978 | 11 | 30.40503 | 04 | 47 | 12.86 | +18 | 50 | 37.3 | | 675 |
| 1978 | WE13* | 1978 | 11 | 29.40486 | 04 | 48 | 27.61 | +18 | 32 | 14.6 | 20.5 | 675 |
| 1978 | WE13 | 1978 | 11 | 30.40503 | 04 | 47 | 53.20 | +18 | 31 | 26.8 | | 675 |
| 1978 | WF13* | 1978 | 11 | 29.40486 | 04 | 48 | 41.40 | +19 | 59 | 36.4 | 20.0 | 675 |
| 1978 | WF13 | 1978 | 11 | 30.40503 | 04 | 47 | 33.00 | +20 | 00 | 03.8 | | 675 |
| 1978 | WG13* | 1978 | 11 | 29.40486 | 04 | 49 | 05.03 | +19 | 15 | 08.6 | 19.5 | 675 |
| 1978 | WG13 | 1978 | 11 | 30.40503 | 04 | 47 | 50.85 | +19 | 13 | 59.7 | | 675 |
| 1978 | WH13* | 1978 | 11 | 29.40486 | 04 | 49 | 18.31 | +22 | 28 | 49.2 | 19.5 | 675 |
| 1978 | WH13 | 1978 | 11 | 30.40503 | 04 | 48 | 25.89 | +22 | 27 | 22.8 | | 675 |
| 1978 | WJ13* | 1978 | 11 | 29.40486 | 04 | 49 | 52.72 | +22 | 26 | 39.1 | 20.0 | 675 |
| 1978 | WJ13 | 1978 | 11 | 30.40503 | 04 | 48 | 53.01 | +22 | 28 | 08.2 | | 675 |
| 1978 | WK13* | 1978 | 11 | 29.40486 | 04 | 50 | 01.83 | +19 | 09 | 02.5 | 19.0 | 675 |
| 1978 | WK13 | 1978 | 11 | 30.40503 | 04 | 49 | 06.33 | +19 | 08 | 09.7 | | 675 |
| 1978 | WL13* | 1978 | 11 | 29.40486 | 04 | 50 | 02.00 | +18 | 34 | 32.4 | 20.0 | 675 |

| | | | | | | | | | | | | |
|------|-------|------|----|----------|----|----|-------|-----|----|------|------|-----|
| 1978 | WL13 | 1978 | 11 | 30.40503 | 04 | 49 | 01.24 | +18 | 33 | 05.3 | | 675 |
| 1978 | WM13* | 1978 | 11 | 29.40486 | 04 | 50 | 53.35 | +20 | 50 | 01.0 | 20.0 | 675 |
| 1978 | WM13 | 1978 | 11 | 30.45712 | 04 | 49 | 40.61 | +20 | 50 | 23.1 | | 675 |
| 1978 | WN13* | 1978 | 11 | 29.40486 | 04 | 51 | 04.07 | +19 | 37 | 29.3 | 20.0 | 675 |
| 1978 | WN13 | 1978 | 11 | 30.40503 | 04 | 50 | 05.94 | +19 | 37 | 48.4 | | 675 |
| 1978 | WO13* | 1978 | 11 | 29.40486 | 04 | 51 | 15.84 | +18 | 27 | 02.2 | 19.0 | 675 |
| 1978 | WO13 | 1978 | 11 | 30.40503 | 04 | 50 | 11.73 | +18 | 25 | 30.8 | | 675 |
| 1978 | WP13* | 1978 | 11 | 29.40486 | 04 | 51 | 53.70 | +18 | 50 | 48.6 | 20.0 | 675 |
| 1978 | WP13 | 1978 | 11 | 30.40503 | 04 | 50 | 42.49 | +18 | 51 | 09.7 | | 675 |
| 1978 | WQ13* | 1978 | 11 | 29.40486 | 04 | 52 | 12.17 | +23 | 36 | 02.3 | 19.0 | 675 |
| 1978 | WQ13 | 1978 | 11 | 30.40503 | 04 | 50 | 57.72 | +23 | 32 | 35.5 | | 675 |
| 1978 | WR13* | 1978 | 11 | 29.40486 | 04 | 52 | 35.61 | +22 | 15 | 01.8 | 19.5 | 675 |
| 1978 | WR13 | 1978 | 11 | 30.40503 | 04 | 51 | 29.78 | +22 | 10 | 56.7 | | 675 |
| 1978 | WS13* | 1978 | 11 | 29.45694 | 04 | 30 | 17.40 | +18 | 35 | 32.6 | 20.0 | 675 |
| 1978 | WS13 | 1978 | 11 | 30.40503 | 04 | 29 | 25.37 | +18 | 34 | 11.6 | | 675 |
| 1978 | WT13* | 1978 | 11 | 29.45694 | 04 | 33 | 28.75 | +19 | 28 | 11.8 | 20.0 | 675 |
| 1978 | WT13 | 1978 | 11 | 30.40503 | 04 | 32 | 25.60 | +19 | 27 | 01.4 | | 675 |
| 1978 | WU13* | 1978 | 11 | 29.45694 | 04 | 36 | 41.59 | +20 | 53 | 27.2 | 20.5 | 675 |
| 1978 | WU13 | 1978 | 11 | 30.45712 | 04 | 35 | 49.25 | +20 | 44 | 18.3 | | 675 |
| 1978 | WV13* | 1978 | 11 | 29.45694 | 04 | 38 | 27.57 | +21 | 04 | 06.0 | 20.0 | 675 |
| 1978 | WV13 | 1978 | 11 | 30.40503 | 04 | 37 | 21.78 | +21 | 04 | 04.3 | | 675 |
| 1978 | WW13* | 1978 | 11 | 29.45694 | 04 | 41 | 39.19 | +23 | 36 | 14.3 | 20.0 | 675 |
| 1978 | WW13 | 1978 | 11 | 30.40503 | 04 | 40 | 36.59 | +23 | 35 | 34.4 | | 675 |
| 1978 | WX13* | 1978 | 11 | 29.45694 | 04 | 41 | 52.11 | +24 | 17 | 26.4 | 20.0 | 675 |
| 1978 | WX13 | 1978 | 11 | 30.40503 | 04 | 40 | 57.05 | +24 | 18 | 03.9 | | 675 |
| 1978 | WY13* | 1978 | 11 | 29.45694 | 04 | 42 | 16.80 | +18 | 47 | 13.6 | 20.0 | 675 |
| 1978 | WY13 | 1978 | 11 | 30.40503 | 04 | 41 | 10.09 | +18 | 44 | 06.3 | | 675 |
| 1978 | WZ13* | 1978 | 11 | 29.45694 | 04 | 42 | 17.83 | +23 | 10 | 54.1 | 20.5 | 675 |
| 1978 | WZ13 | 1978 | 11 | 30.40503 | 04 | 41 | 24.97 | +23 | 04 | 43.2 | | 675 |
| 1978 | WA14* | 1978 | 11 | 29.45694 | 04 | 44 | 49.05 | +22 | 26 | 40.1 | 20.0 | 675 |
| 1978 | WA14 | 1978 | 11 | 30.40503 | 04 | 44 | 16.06 | +22 | 26 | 50.1 | | 675 |
| 1978 | WB14* | 1978 | 11 | 29.45694 | 04 | 44 | 51.41 | +23 | 01 | 27.6 | 20.0 | 675 |
| 1978 | WB14 | 1978 | 11 | 30.40503 | 04 | 43 | 47.77 | +23 | 06 | 00.1 | | 675 |
| 1978 | WC14* | 1978 | 11 | 29.45694 | 04 | 45 | 24.02 | +20 | 41 | 33.7 | 20.5 | 675 |
| 1978 | WC14 | 1978 | 11 | 30.40503 | 04 | 44 | 22.30 | +20 | 37 | 04.0 | | 675 |
| 1978 | WD14* | 1978 | 11 | 29.45694 | 04 | 46 | 05.83 | +19 | 40 | 40.1 | 20.0 | 675 |
| 1978 | WD14 | 1978 | 11 | 30.40503 | 04 | 45 | 16.39 | +19 | 36 | 22.2 | | 675 |
| 1978 | WE14* | 1978 | 11 | 29.45694 | 04 | 50 | 08.56 | +20 | 25 | 07.1 | 20.5 | 675 |
| 1978 | WE14 | 1978 | 11 | 30.40503 | 04 | 49 | 07.06 | +20 | 27 | 31.5 | | 675 |
| 1978 | WF14* | 1978 | 11 | 29.45694 | 04 | 50 | 59.74 | +18 | 11 | 55.8 | 20.0 | 675 |
| 1978 | WF14 | 1978 | 11 | 30.40503 | 04 | 49 | 57.68 | +18 | 12 | 14.9 | | 675 |
| 1978 | WG14* | 1978 | 11 | 29.45694 | 04 | 51 | 22.74 | +20 | 42 | 35.0 | 20.0 | 675 |
| 1978 | WG14 | 1978 | 11 | 30.40503 | 04 | 50 | 21.25 | +20 | 41 | 27.7 | | 675 |
| 1978 | YA | 1978 | 11 | 29.40486 | 04 | 41 | 43.96 | +22 | 27 | 05.1 | 17.5 | 675 |
| 1978 | YA | 1978 | 11 | 30.40503 | 04 | 40 | 50.36 | +22 | 25 | 45.2 | | 675 |

OBSERVATIONS MADE AT FABRA OBSERVATORY BY J. M. CODINA, J. M. MUNDET AND N. TORRAS.

| Object | Date | UT | R. A. (1950) | | | Decl. | | | O - C | | Obs. | |
|--------|------|----|--------------|----|----|-------|-----|----|-------|------|------|-----|
| 2 | 1978 | 05 | 31.87095 | 17 | 15 | 24.89 | +25 | 39 | 08.7 | 0.0 | 0 | 006 |
| 3 | 1978 | 07 | 10.91896 | 20 | 11 | 28.86 | -04 | 00 | 50.6 | 0.0 | 0 | 006 |
| 3 | 1978 | 07 | 12.97578 | 20 | 09 | 50.21 | -04 | 07 | 07.7 | 0.0 | 0 | 006 |
| 3 | 1978 | 09 | 20.80433 | 19 | 32 | 47.16 | -11 | 26 | 48.4 | 0.0 | 0 | 006 |
| 3 | 1978 | 10 | 25.80374 | 19 | 55 | 09.30 | -13 | 55 | 44.5 | 0.0 | 0 | 006 |
| 4 | 1978 | 05 | 30.85712 | 16 | 57 | 28.50 | -15 | 33 | 36.7 | 0.1+ | 1+ | 006 |
| 4 | 1978 | 07 | 03.92846 | 16 | 27 | 41.34 | -17 | 18 | 01.5 | 0.3- | 1+ | 006 |
| 4 | 1978 | 07 | 10.86826 | 16 | 24 | 54.67 | -17 | 48 | 36.5 | 0.0 | 0 | 006 |
| 4 | 1978 | 07 | 12.93828 | 16 | 24 | 23.20 | -17 | 58 | 10.0 | 0.0 | 0 | 006 |
| 6 | 1978 | 02 | 28.83216 | 10 | 44 | 31.76 | +16 | 14 | 20.9 | 0.0 | 1+ | 006 |

| | | | | | | | | | |
|-----|---------|----------|-------|-------|--------|------|------|----|-----|
| 6 | 1978 03 | 01.84668 | 10 43 | 37.19 | +16 24 | 13.8 | 0.0 | 1+ | 006 |
| 6 | 1978 04 | 14.82804 | 10 17 | 46.96 | +20 28 | 01.5 | 0.3- | 2+ | 006 |
| 6 | 1978 05 | 03.85402 | 10 20 | 03.62 | +20 17 | 13.7 | 0.0 | 0 | 006 |
| 7 | 1978 02 | 17.83832 | 09 50 | 11.31 | +03 50 | 43.1 | 0.1- | 1- | 006 |
| 7 | 1978 03 | 01.82237 | 09 38 | 41.13 | +04 52 | 48.8 | 0.1- | 0 | 006 |
| 7 | 1978 03 | 11.81478 | 09 31 | 05.82 | +05 44 | 08.6 | 0.2- | 0 | 006 |
| 7 | 1978 03 | 18.81707 | 09 27 | 19.39 | +06 16 | 23.2 | 0.4- | 1+ | 006 |
| 7 | 1978 04 | 14.85027 | 09 25 | 49.17 | +07 30 | 55.7 | 0.3- | 2+ | 006 |
| 7 | 1978 05 | 03.83596 | 09 35 | 38.47 | +07 29 | 05.5 | 0.0 | 0 | 006 |
| 9 | 1978 09 | 11.88551 | 21 41 | 39.33 | -23 22 | 55.9 | 0.3- | 2- | 006 |
| 10 | 1978 07 | 12.91258 | 17 22 | 44.61 | -24 20 | 58.2 | 0.2- | 0 | 006 |
| 11 | 1978 11 | 27.78992 | 04 08 | 48.44 | +14 09 | 05.5 | 0.0 | 0 | 006 |
| 11 | 1978 12 | 28.91830 | 03 43 | 34.78 | +14 01 | 14.8 | 0.0 | 0 | 006 |
| 12 | 1978 06 | 02.92775 | 16 40 | 48.55 | -17 19 | 00.4 | 0.0 | 0 | 006 |
| 14 | 1978 12 | 16.77111 | 04 53 | 25.64 | +20 24 | 56.6 | 0.0 | 0 | 006 |
| 15 | 1978 01 | 09.83840 | 08 19 | 28.59 | +18 01 | 52.2 | 0.1+ | 0 | 006 |
| 15 | 1978 02 | 10.86219 | 07 46 | 41.31 | +17 15 | 13.3 | 0.0 | 0 | 006 |
| 15 | 1978 02 | 17.86471 | 07 41 | 54.40 | +17 04 | 32.1 | 0.3- | 0 | 006 |
| 16 | 1978 05 | 11.84657 | 14 57 | 19.38 | -12 18 | 42.7 | 0.0 | 0 | 006 |
| 18 | 1978 12 | 28.94156 | 06 16 | 34.64 | +07 48 | 47.0 | 0.0 | 0 | 006 |
| 19 | 1978 09 | 11.90912 | 22 56 | 41.41 | -04 28 | 56.1 | 0.1+ | 0 | 006 |
| 20 | 1978 06 | 02.89164 | 16 38 | 54.60 | -21 20 | 05.2 | 0.1- | 0 | 006 |
| 29 | 1978 09 | 12.92017 | 23 56 | 25.42 | -00 34 | 25.0 | 0.1+ | 0 | 006 |
| 29 | 1978 09 | 14.90822 | 23 54 | 36.29 | -00 40 | 14.6 | 0.1+ | 0 | 006 |
| 29 | 1978 10 | 05.86098 | 23 35 | 24.30 | -01 41 | 49.7 | 0.2- | 1- | 006 |
| 29 | 1978 10 | 31.79135 | 23 21 | 39.54 | -02 06 | 59.0 | 0.3- | 2- | 006 |
| 29 | 1978 11 | 14.87662 | 23 21 | 52.80 | -01 41 | 02.6 | 0.3- | 2- | 006 |
| 30 | 1978 09 | 25.81785 | 23 56 | 52.85 | +03 10 | 56.5 | 0.0 | 0 | 006 |
| 30 | 1978 10 | 23.78786 | 23 37 | 02.21 | +01 06 | 00.9 | 0.4- | 3- | 006 |
| 39 | 1978 11 | 17.79105 | 01 33 | 48.35 | -04 32 | 19.9 | 0.0 | 1- | 006 |
| 39 | 1978 12 | 01.83738 | 01 30 | 06.38 | -04 25 | 25.7 | 0.3- | 2- | 006 |
| 39 | 1978 12 | 12.84075 | 01 30 | 40.81 | -03 50 | 38.3 | 0.0 | 0 | 006 |
| 51 | 1978 02 | 28.85091 | 10 46 | 06.20 | +02 47 | 37.7 | 0.1+ | 1- | 006 |
| 67 | 1978 07 | 10.89951 | 18 11 | 51.99 | -11 43 | 35.9 | 0.0 | 0 | 006 |
| 79 | 1978 12 | 27.95723 | 05 56 | 20.07 | +15 27 | 52.2 | 0.0 | 0 | 006 |
| 89 | 1978 01 | 09.79222 | 07 13 | 34.50 | +33 16 | 24.0 | 0.1- | 1+ | 006 |
| 89 | 1978 02 | 03.82185 | 06 47 | 07.01 | +31 00 | 23.4 | 0.4- | 0 | 006 |
| 118 | 1978 01 | 02.78090 | 04 26 | 37.19 | +30 13 | 32.0 | 0.4- | 0 | 006 |
| 118 | 1978 01 | 12.82635 | 04 23 | 02.53 | +30 15 | 43.3 | 0.4- | 0 | 006 |
| 182 | 1978 12 | 16.77111 | 05 00 | 12.53 | +20 56 | 45.7 | 0.1- | 0 | 006 |
| 230 | 1978 11 | 24.80461 | 02 27 | 22.28 | +17 37 | 04.3 | 0.2- | 1- | 006 |
| 230 | 1978 12 | 01.80683 | 02 23 | 14.99 | +16 35 | 50.2 | 0.3- | 2- | 006 |
| 324 | 1978 11 | 20.79229 | 02 21 | 05.11 | +37 51 | 35.4 | 0.4- | 2+ | 006 |
| 389 | 1978 01 | 13.83640 | 07 55 | 00.87 | +17 38 | 02.4 | 0.0 | 0 | 006 |
| 532 | 1978 05 | 29.88843 | 15 02 | 13.27 | +05 47 | 58.4 | 0.2- | 2+ | 006 |
| 532 | 1978 05 | 31.85428 | 15 00 | 51.84 | +05 35 | 12.0 | 0.1- | 0 | 006 |
| 554 | 1978 01 | 02.84444 | 05 22 | 05.33 | +25 25 | 31.9 | 0.1- | 0 | 006 |
| 554 | 1978 01 | 12.85413 | 05 15 | 23.97 | +24 54 | 36.4 | 0.2- | 0 | 006 |

OBSERVATIONS MADE AT THE PINO TORINESE OBSERVATORY UNDER THE DIRECTION OF
V. ZAPPALA.

| Object | Date | UT | R. A. (1950) | Decl. | Obs. |
|--------|---------|----------|--------------|-------------|------|
| 2 | 1978 06 | 04.93725 | 17 11 56.57 | +25 50 30.4 | 022 |
| 2 | 1978 06 | 04.94072 | 17 11 56.37 | +25 50 31.0 | 022 |
| 2 | 1978 06 | 04.94971 | 17 11 55.89 | +25 50 32.2 | 022 |
| 2 | 1978 06 | 27.91825 | 16 53 16.58 | +25 15 38.6 | 022 |
| 2 | 1978 06 | 27.92171 | 16 53 16.40 | +25 15 37.8 | 022 |
| 2 | 1978 06 | 27.93418 | 16 53 15.90 | +25 15 33.3 | 022 |
| 2 | 1978 06 | 28.93421 | 16 52 34.21 | +25 10 28.8 | 022 |

| | | | | | | | | | | |
|---|------|----|----------|----|----|-------|-----|----|------|-----|
| 2 | 1978 | 06 | 28.93699 | 16 | 52 | 34.14 | +25 | 10 | 28.1 | 022 |
| 2 | 1978 | 06 | 28.93976 | 16 | 52 | 34.03 | +25 | 10 | 28.2 | 022 |
| 2 | 1978 | 07 | 02.91775 | 16 | 49 | 57.56 | +24 | 47 | 42.0 | 022 |
| 2 | 1978 | 07 | 02.92052 | 16 | 49 | 57.46 | +24 | 47 | 40.6 | 022 |
| 2 | 1978 | 07 | 02.93438 | 16 | 49 | 56.99 | +24 | 47 | 36.5 | 022 |
| 2 | 1978 | 07 | 12.95485 | 16 | 44 | 37.63 | +23 | 33 | 57.2 | 022 |
| 2 | 1978 | 07 | 12.95763 | 16 | 44 | 37.52 | +23 | 33 | 55.5 | 022 |
| 2 | 1978 | 07 | 12.96039 | 16 | 44 | 37.44 | +23 | 33 | 54.5 | 022 |
| 2 | 1978 | 09 | 07.79436 | 16 | 52 | 31.58 | +13 | 21 | 16.4 | 022 |
| 2 | 1978 | 09 | 07.81446 | 16 | 52 | 32.39 | +13 | 21 | 04.0 | 022 |
| 2 | 1978 | 09 | 07.82207 | 16 | 52 | 32.72 | +13 | 20 | 58.5 | 022 |
| 2 | 1978 | 09 | 20.77757 | 17 | 02 | 09.83 | +11 | 04 | 02.5 | 022 |
| 2 | 1978 | 09 | 20.77965 | 17 | 02 | 09.97 | +11 | 04 | 01.6 | 022 |
| 2 | 1978 | 09 | 20.78381 | 17 | 02 | 10.17 | +11 | 03 | 58.6 | 022 |
| 2 | 1978 | 10 | 05.77956 | 17 | 15 | 52.84 | +08 | 40 | 44.6 | 022 |
| 2 | 1978 | 10 | 05.78302 | 17 | 15 | 53.08 | +08 | 40 | 42.8 | 022 |
| 2 | 1978 | 10 | 05.78787 | 17 | 15 | 53.36 | +08 | 40 | 39.6 | 022 |
| 3 | 1978 | 07 | 02.95792 | 20 | 17 | 17.38 | -03 | 43 | 28.1 | 022 |
| 3 | 1978 | 07 | 02.96069 | 20 | 17 | 17.33 | -03 | 43 | 28.3 | 022 |
| 3 | 1978 | 07 | 02.96485 | 20 | 17 | 17.10 | -03 | 43 | 28.7 | 022 |
| 3 | 1978 | 09 | 07.86433 | 19 | 32 | 11.50 | -10 | 02 | 50.7 | 022 |
| 3 | 1978 | 09 | 07.86571 | 19 | 32 | 11.58 | -10 | 02 | 51.3 | 022 |
| 3 | 1978 | 09 | 07.88440 | 19 | 32 | 11.36 | -10 | 02 | 59.9 | 022 |
| 3 | 1978 | 10 | 05.79410 | 19 | 38 | 55.14 | -12 | 46 | 20.6 | 022 |
| 3 | 1978 | 10 | 05.79756 | 19 | 38 | 55.22 | -12 | 46 | 21.7 | 022 |
| 3 | 1978 | 10 | 05.81211 | 19 | 38 | 55.80 | -12 | 46 | 26.0 | 022 |
| 3 | 1978 | 10 | 23.73318 | 19 | 53 | 06.10 | -13 | 50 | 40.0 | 022 |
| 3 | 1978 | 10 | 23.74219 | 19 | 53 | 06.67 | -13 | 50 | 40.9 | 022 |
| 3 | 1978 | 10 | 23.74495 | 19 | 53 | 06.76 | -13 | 50 | 42.4 | 022 |
| 6 | 1978 | 02 | 28.90140 | 10 | 44 | 27.92 | +16 | 15 | 00.2 | 022 |
| 6 | 1978 | 02 | 28.91941 | 10 | 44 | 26.90 | +16 | 15 | 10.1 | 022 |
| 6 | 1978 | 03 | 28.89697 | 10 | 23 | 08.06 | +19 | 41 | 49.3 | 022 |
| 6 | 1978 | 03 | 28.92605 | 10 | 23 | 07.12 | +19 | 41 | 56.7 | 022 |
| 6 | 1978 | 04 | 13.91007 | 10 | 17 | 53.09 | +20 | 26 | 59.5 | 022 |
| 6 | 1978 | 04 | 13.91457 | 10 | 17 | 53.02 | +20 | 26 | 58.8 | 022 |
| 6 | 1978 | 04 | 13.92461 | 10 | 17 | 52.93 | +20 | 26 | 59.5 | 022 |
| 6 | 1978 | 05 | 28.90390 | 10 | 34 | 12.27 | +18 | 49 | 35.1 | 022 |
| 6 | 1978 | 05 | 28.90668 | 10 | 34 | 12.36 | +18 | 49 | 34.0 | 022 |
| 6 | 1978 | 05 | 28.92052 | 10 | 34 | 12.95 | +18 | 49 | 29.7 | 022 |
| 6 | 1979 | 05 | 02.91947 | 16 | 31 | 18.79 | +00 | 28 | 58.5 | 022 |
| 6 | 1979 | 05 | 02.92293 | 16 | 31 | 18.63 | +00 | 28 | 59.0 | 022 |
| 6 | 1979 | 05 | 02.92846 | 16 | 31 | 18.42 | +00 | 29 | 00.9 | 022 |
| 6 | 1979 | 05 | 21.96177 | 16 | 15 | 31.01 | +01 | 48 | 20.6 | 022 |
| 6 | 1979 | 05 | 21.96454 | 16 | 15 | 30.84 | +01 | 48 | 20.8 | 022 |
| 6 | 1979 | 05 | 21.97561 | 16 | 15 | 30.24 | +01 | 48 | 22.1 | 022 |
| 6 | 1979 | 05 | 29.01884 | 16 | 08 | 46.77 | +02 | 01 | 31.7 | 022 |
| 6 | 1979 | 05 | 29.02161 | 16 | 08 | 46.56 | +02 | 01 | 32.2 | 022 |
| 6 | 1979 | 05 | 29.03407 | 16 | 08 | 45.84 | +02 | 01 | 32.4 | 022 |
| 6 | 1979 | 06 | 04.96231 | 16 | 02 | 12.55 | +02 | 04 | 06.2 | 022 |
| 6 | 1979 | 06 | 04.96647 | 16 | 02 | 12.34 | +02 | 04 | 05.5 | 022 |
| 6 | 1979 | 06 | 14.97190 | 15 | 53 | 29.37 | +01 | 49 | 06.6 | 022 |
| 6 | 1979 | 06 | 14.97433 | 15 | 53 | 29.23 | +01 | 49 | 06.0 | 022 |
| 6 | 1979 | 06 | 14.97675 | 15 | 53 | 29.14 | +01 | 49 | 06.0 | 022 |
| 7 | 1978 | 02 | 02.89483 | 10 | 05 | 22.23 | +02 | 49 | 46.5 | 022 |
| 7 | 1978 | 02 | 02.89829 | 10 | 05 | 22.02 | +02 | 49 | 47.5 | 022 |
| 7 | 1978 | 02 | 02.93014 | 10 | 05 | 20.10 | +02 | 49 | 52.1 | 022 |
| 7 | 1978 | 02 | 26.89127 | 09 | 41 | 18.61 | +04 | 37 | 18.3 | 022 |
| 7 | 1978 | 02 | 26.89473 | 09 | 41 | 18.44 | +04 | 37 | 19.1 | 022 |
| 7 | 1978 | 02 | 26.90998 | 09 | 41 | 17.64 | +04 | 37 | 24.0 | 022 |

| | | | | | | | | | | |
|----|------|----|----------|----|----|-------|-----|----|------|-----|
| 7 | 1978 | 02 | 28.84426 | 09 | 39 | 32.64 | +04 | 47 | 37.4 | 022 |
| 7 | 1978 | 02 | 28.86296 | 09 | 39 | 31.62 | +04 | 47 | 43.0 | 022 |
| 7 | 1978 | 02 | 28.86573 | 09 | 39 | 31.46 | +04 | 47 | 44.5 | 022 |
| 7 | 1978 | 04 | 13.87302 | 09 | 25 | 31.71 | +07 | 29 | 47.6 | 022 |
| 7 | 1978 | 04 | 13.87718 | 09 | 25 | 31.77 | +07 | 29 | 47.9 | 022 |
| 7 | 1978 | 04 | 13.88757 | 09 | 25 | 31.92 | +07 | 29 | 47.9 | 022 |
| 7 | 1979 | 05 | 21.93406 | 15 | 31 | 31.74 | -22 | 21 | 27.7 | 022 |
| 7 | 1979 | 05 | 21.93752 | 15 | 31 | 31.55 | -22 | 21 | 27.0 | 022 |
| 7 | 1979 | 05 | 21.95484 | 15 | 31 | 30.49 | -22 | 21 | 20.5 | 022 |
| 7 | 1979 | 06 | 14.95441 | 15 | 10 | 44.75 | -20 | 21 | 19.8 | 022 |
| 7 | 1979 | 06 | 14.95719 | 15 | 10 | 44.64 | -20 | 21 | 19.1 | 022 |
| 7 | 1979 | 06 | 14.95995 | 15 | 10 | 44.57 | -20 | 21 | 17.9 | 022 |
| 11 | 1978 | 10 | 26.94696 | 04 | 36 | 39.38 | +15 | 18 | 24.1 | 022 |
| 11 | 1978 | 10 | 26.95181 | 04 | 36 | 39.16 | +15 | 18 | 23.1 | 022 |
| 11 | 1978 | 10 | 26.97397 | 04 | 36 | 38.47 | +15 | 18 | 19.5 | 022 |
| 11 | 1978 | 10 | 29.90794 | 04 | 34 | 57.18 | +15 | 11 | 37.3 | 022 |
| 11 | 1978 | 10 | 29.91140 | 04 | 34 | 57.05 | +15 | 11 | 37.0 | 022 |
| 11 | 1978 | 10 | 29.95642 | 04 | 34 | 55.25 | +15 | 11 | 31.1 | 022 |
| 11 | 1978 | 11 | 01.91396 | 04 | 32 | 58.14 | +15 | 04 | 38.1 | 022 |
| 11 | 1978 | 11 | 01.95412 | 04 | 32 | 56.41 | +15 | 04 | 31.9 | 022 |
| 11 | 1978 | 11 | 07.93947 | 04 | 28 | 17.97 | +14 | 50 | 28.2 | 022 |
| 11 | 1978 | 11 | 07.95609 | 04 | 28 | 17.10 | +14 | 50 | 26.2 | 022 |
| 11 | 1978 | 11 | 22.87705 | 04 | 13 | 55.48 | +14 | 17 | 50.5 | 022 |
| 11 | 1978 | 11 | 22.87981 | 04 | 13 | 55.28 | +14 | 17 | 50.4 | 022 |
| 11 | 1978 | 11 | 22.89782 | 04 | 13 | 54.13 | +14 | 17 | 48.8 | 022 |
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| 11 | 1978 | 11 | 29.95003 | 04 | 06 | 33.86 | +14 | 05 | 40.6 | 022 |
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| 17 | 1978 | 11 | 01.95412 | 04 | 26 | 36.78 | +13 | 53 | 56.3 | 022 |
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| 18 | 1979 | 02 | 21.86542 | 05 | 56 | 02.99 | +14 | 46 | 44.0 | 022 |
| 18 | 1979 | 02 | 21.86889 | 05 | 56 | 03.06 | +14 | 46 | 45.2 | 022 |
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| 39 | 1977 | 06 | 12.94538 | 17 | 39 | 08.90 | -07 | 48 | 56.8 | 022 |
| 39 | 1977 | 06 | 12.95647 | 17 | 39 | 08.26 | -07 | 48 | 56.2 | 022 |
| 39 | 1977 | 06 | 15.97649 | 17 | 36 | 30.98 | -07 | 49 | 10.0 | 022 |
| 39 | 1977 | 06 | 15.97926 | 17 | 36 | 30.83 | -07 | 49 | 10.1 | 022 |
| 39 | 1977 | 06 | 15.99450 | 17 | 36 | 30.03 | -07 | 49 | 10.1 | 022 |
| 39 | 1977 | 06 | 16.96389 | 17 | 35 | 39.39 | -07 | 49 | 30.5 | 022 |
| 39 | 1977 | 06 | 16.96944 | 17 | 35 | 39.11 | -07 | 49 | 30.7 | 022 |
| 39 | 1977 | 06 | 16.97500 | 17 | 35 | 38.79 | -07 | 49 | 30.9 | 022 |
| 39 | 1977 | 06 | 16.98056 | 17 | 35 | 38.48 | -07 | 49 | 31.0 | 022 |
| 39 | 1978 | 10 | 09.89122 | 02 | 00 | 19.71 | -00 | 59 | 07.4 | 022 |
| 39 | 1978 | 10 | 09.89469 | 02 | 00 | 19.59 | -00 | 59 | 09.4 | 022 |
| 39 | 1978 | 10 | 09.90438 | 02 | 00 | 19.22 | -00 | 59 | 13.6 | 022 |
| 39 | 1978 | 10 | 23.93125 | 01 | 49 | 48.69 | -02 | 49 | 10.0 | 022 |
| 39 | 1978 | 10 | 23.93610 | 01 | 49 | 48.38 | -02 | 49 | 12.0 | 022 |
| 39 | 1978 | 10 | 23.95964 | 01 | 49 | 47.36 | -02 | 49 | 22.1 | 022 |
| 39 | 1978 | 10 | 26.91476 | 01 | 47 | 31.44 | -03 | 08 | 48.5 | 022 |
| 39 | 1978 | 10 | 26.91752 | 01 | 47 | 31.30 | -03 | 08 | 49.5 | 022 |
| 39 | 1978 | 10 | 26.93899 | 01 | 47 | 30.37 | -03 | 08 | 58.0 | 022 |
| 39 | 1978 | 10 | 29.87193 | 01 | 45 | 17.99 | -03 | 26 | 32.0 | 022 |
| 39 | 1978 | 10 | 29.87470 | 01 | 45 | 17.85 | -03 | 26 | 34.8 | 022 |
| 39 | 1978 | 10 | 29.89963 | 01 | 45 | 16.73 | -03 | 26 | 42.7 | 022 |
| 39 | 1978 | 11 | 01.86721 | 01 | 43 | 07.33 | -03 | 42 | 36.4 | 022 |
| 39 | 1978 | 11 | 01.87067 | 01 | 43 | 07.16 | -03 | 42 | 37.6 | 022 |
| 39 | 1978 | 11 | 01.90253 | 01 | 43 | 05.75 | -03 | 42 | 47.2 | 022 |
| 39 | 1978 | 11 | 22.83964 | 01 | 31 | 55.39 | -04 | 35 | 09.9 | 022 |
| 39 | 1978 | 11 | 22.84311 | 01 | 31 | 55.30 | -04 | 35 | 09.5 | 022 |
| 39 | 1978 | 11 | 22.87012 | 01 | 31 | 54.77 | -04 | 35 | 09.8 | 022 |
| 39 | 1978 | 11 | 29.86902 | 01 | 30 | 19.79 | -04 | 29 | 06.7 | 022 |
| 39 | 1978 | 11 | 29.88564 | 01 | 30 | 19.62 | -04 | 29 | 05.3 | 022 |
| 39 | 1978 | 11 | 29.89047 | 01 | 30 | 19.59 | -04 | 29 | 05.0 | 022 |
| 39 | 1978 | 11 | 30.83373 | 01 | 30 | 12.56 | -04 | 27 | 25.6 | 022 |
| 39 | 1978 | 11 | 30.83649 | 01 | 30 | 12.52 | -04 | 27 | 25.6 | 022 |
| 39 | 1978 | 11 | 30.86766 | 01 | 30 | 12.30 | -04 | 27 | 21.1 | 022 |
| 39 | 1978 | 12 | 05.87895 | 01 | 29 | 57.67 | -04 | 15 | 22.9 | 022 |
| 39 | 1978 | 12 | 05.90666 | 01 | 29 | 57.65 | -04 | 15 | 18.0 | 022 |
| 39 | 1978 | 12 | 05.90942 | 01 | 29 | 57.60 | -04 | 15 | 17.8 | 022 |
| 39 | 1979 | 01 | 25.80547 | 01 | 59 | 20.87 | +01 | 08 | 54.0 | 022 |
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| 39 | 1979 | 01 | 25.82002 | 01 | 59 | 19.94 | +01 | 08 | 46.5 | 022 |
| 39 | 1979 | 01 | 29.83126 | 02 | 03 | 36.16 | +01 | 43 | 09.4 | 022 |
| 39 | 1979 | 01 | 29.83473 | 02 | 03 | 36.49 | +01 | 43 | 10.9 | 022 |
| 39 | 1979 | 01 | 29.85273 | 02 | 03 | 37.61 | +01 | 43 | 19.8 | 022 |
| 39 | 1979 | 01 | 31.81611 | 02 | 05 | 47.36 | +02 | 00 | 17.3 | 022 |
| 39 | 1979 | 01 | 31.83550 | 02 | 05 | 48.69 | +02 | 00 | 27.4 | 022 |

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| 39 | 1979 | 01 | 31.83965 | 02 | 05 | 48.86 | +02 | 00 | 29.4 | 022 |
| 40 | 1977 | 11 | 15.83316 | 04 | 59 | 14.93 | +19 | 11 | 09.5 | 022 |
| 40 | 1977 | 11 | 15.86017 | 04 | 59 | 13.38 | +19 | 11 | 09.9 | 022 |
| 40 | 1977 | 11 | 15.86501 | 04 | 59 | 13.15 | +19 | 11 | 09.6 | 022 |
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| 40 | 1979 | 05 | 21.88074 | 13 | 29 | 41.02 | -03 | 16 | 52.4 | 022 |
| 40 | 1979 | 05 | 21.89390 | 13 | 29 | 40.65 | -03 | 16 | 52.9 | 022 |
| 40 | 1979 | 05 | 23.88983 | 13 | 28 | 43.48 | -03 | 17 | 05.9 | 022 |
| 40 | 1979 | 05 | 23.89259 | 13 | 28 | 43.39 | -03 | 17 | 06.1 | 022 |
| 40 | 1979 | 05 | 23.89605 | 13 | 28 | 43.29 | -03 | 17 | 06.7 | 022 |
| 40 | 1979 | 05 | 28.92118 | 13 | 26 | 48.98 | -03 | 20 | 56.2 | 022 |
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| 40 | 1979 | 05 | 28.93711 | 13 | 26 | 48.73 | -03 | 20 | 57.8 | 022 |
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| 40 | 1979 | 06 | 14.93987 | 13 | 25 | 43.37 | -04 | 06 | 28.7 | 022 |
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| 51 | 1978 | 02 | 02.95646 | 11 | 03 | 25.05 | -00 | 56 | 51.9 | 022 |
| 51 | 1978 | 02 | 02.95992 | 11 | 03 | 25.03 | -00 | 56 | 51.0 | 022 |
| 51 | 1978 | 02 | 02.97447 | 11 | 03 | 24.65 | -00 | 56 | 46.7 | 022 |
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| 51 | 1978 | 02 | 26.88400 | 10 | 47 | 43.69 | +02 | 26 | 18.2 | 022 |
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| 51 | 1978 | 03 | 09.86367 | 10 | 38 | 41.62 | +04 | 28 | 01.9 | 022 |
| 51 | 1978 | 03 | 09.86920 | 10 | 38 | 41.32 | +04 | 28 | 06.2 | 022 |
| 51 | 1978 | 03 | 09.88514 | 10 | 38 | 40.58 | +04 | 28 | 16.8 | 022 |
| 51 | 1978 | 03 | 28.85403 | 10 | 26 | 42.91 | +07 | 43 | 11.8 | 022 |
| 51 | 1978 | 03 | 28.86096 | 10 | 26 | 42.71 | +07 | 43 | 15.4 | 022 |
| 51 | 1978 | 03 | 28.89074 | 10 | 26 | 41.92 | +07 | 43 | 30.9 | 022 |
| 51 | 1978 | 04 | 13.83563 | 10 | 23 | 50.54 | +09 | 35 | 53.3 | 022 |
| 51 | 1978 | 04 | 13.83910 | 10 | 23 | 50.54 | +09 | 35 | 54.3 | 022 |
| 51 | 1978 | 04 | 13.86194 | 10 | 23 | 50.59 | +09 | 36 | 01.1 | 022 |
| 51 | 1978 | 05 | 02.89387 | 10 | 30 | 13.09 | +10 | 32 | 34.3 | 022 |
| 51 | 1978 | 05 | 02.89802 | 10 | 30 | 13.17 | +10 | 32 | 34.8 | 022 |
| 51 | 1978 | 05 | 02.91049 | 10 | 30 | 13.71 | +10 | 32 | 34.6 | 022 |
| 51 | 1978 | 05 | 28.85133 | 10 | 52 | 47.65 | +09 | 51 | 04.6 | 022 |
| 51 | 1978 | 05 | 28.86414 | 10 | 52 | 48.50 | +09 | 51 | 01.2 | 022 |
| 51 | 1978 | 05 | 28.86760 | 10 | 52 | 48.77 | +09 | 51 | 00.5 | 022 |
| 51 | 1978 | 05 | 29.88339 | 10 | 53 | 56.59 | +09 | 47 | 06.7 | 022 |
| 51 | 1978 | 05 | 29.88755 | 10 | 53 | 56.89 | +09 | 47 | 05.6 | 022 |
| 51 | 1978 | 05 | 29.89863 | 10 | 53 | 57.53 | +09 | 47 | 03.4 | 022 |
| 148 | 1978 | 02 | 02.78193 | 03 | 46 | 05.05 | -08 | 35 | 38.1 | 022 |
| 148 | 1978 | 02 | 02.78541 | 03 | 46 | 05.18 | -08 | 35 | 34.6 | 022 |
| 148 | 1978 | 02 | 02.80618 | 03 | 46 | 06.07 | -08 | 35 | 13.4 | 022 |
| 148 | 1978 | 02 | 07.81815 | 03 | 50 | 08.44 | -07 | 13 | 27.4 | 022 |
| 148 | 1978 | 02 | 07.82230 | 03 | 50 | 08.66 | -07 | 13 | 24.2 | 022 |
| 148 | 1978 | 02 | 07.83616 | 03 | 50 | 09.53 | -07 | 13 | 10.3 | 022 |
| 148 | 1979 | 01 | 25.96269 | 11 | 48 | 47.88 | +10 | 43 | 00.8 | 022 |
| 148 | 1979 | 01 | 25.97793 | 11 | 48 | 47.86 | +10 | 43 | 09.8 | 022 |
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| 148 | 1979 | 01 | 29.95800 | 11 | 48 | 11.20 | +11 | 24 | 13.4 | 022 |

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| 148 | 1979 | 01 | 31.93593 | 11 | 47 | 44.75 | +11 | 45 | 33.3 | 022 |
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| 148 | 1979 | 05 | 28.88586 | 11 | 08 | 20.51 | +22 | 43 | 51.9 | 022 |
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| 153 | 1977 | 10 | 03.86538 | 00 | 37 | 32.48 | +10 | 45 | 19.8 | 022 |
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| 153 | 1977 | 10 | 11.83073 | 00 | 32 | 49.70 | +10 | 04 | 40.5 | 022 |
| 153 | 1977 | 10 | 11.84874 | 00 | 32 | 49.06 | +10 | 04 | 34.7 | 022 |
| 153 | 1977 | 10 | 12.87234 | 00 | 32 | 13.70 | +09 | 59 | 16.5 | 022 |
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| 334 | 1977 | 10 | 03.89931 | 00 | 30 | 30.22 | -02 | 24 | 23.8 | 022 |
| 334 | 1977 | 10 | 03.91424 | 00 | 30 | 29.68 | -02 | 24 | 27.6 | 022 |
| 334 | 1977 | 10 | 11.87436 | 00 | 25 | 44.31 | -02 | 56 | 44.5 | 022 |
| 334 | 1977 | 10 | 11.89583 | 00 | 25 | 43.58 | -02 | 56 | 50.1 | 022 |
| 334 | 1977 | 10 | 12.89965 | 00 | 25 | 08.83 | -03 | 00 | 36.4 | 022 |
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| 361 | 1977 | 11 | 15.82381 | 05 | 42 | 17.03 | +38 | 12 | 15.6 | 022 |
| 361 | 1977 | 12 | 13.73563 | 05 | 19 | 58.51 | +39 | 37 | 25.4 | 022 |
| 361 | 1977 | 12 | 13.76472 | 05 | 19 | 56.87 | +39 | 37 | 26.6 | 022 |
| 389 | 1978 | 02 | 02.85881 | 07 | 34 | 51.35 | +17 | 28 | 06.8 | 022 |
| 389 | 1978 | 02 | 02.86296 | 07 | 34 | 51.14 | +17 | 28 | 06.1 | 022 |
| 389 | 1978 | 02 | 02.88721 | 07 | 34 | 49.80 | +17 | 28 | 06.2 | 022 |
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| 389 | 1978 | 02 | 28.82453 | 07 | 20 | 41.66 | +17 | 11 | 50.4 | 022 |
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| 389 | 1978 | 03 | 07.85909 | 07 | 20 | 20.04 | +17 | 05 | 29.4 | 022 |
| 532 | 1978 | 05 | 29.92471 | 15 | 02 | 11.57 | +05 | 47 | 45.6 | 022 |
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|------|------------------|-------------|-------------|-----|
| 532 | 1978 06 01.96084 | 15 00 07.81 | +05 27 36.5 | 022 |
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| 532 | 1978 06 04.91457 | 14 58 18.54 | +05 06 03.9 | 022 |
| 532 | 1978 06 04.93050 | 14 58 18.02 | +05 05 57.4 | 022 |
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| 532 | 1978 06 27.91236 | 14 51 28.04 | +01 29 00.1 | 022 |
| 532 | 1978 06 28.88816 | 14 51 28.68 | +01 18 24.8 | 022 |
| 532 | 1978 06 28.89231 | 14 51 28.68 | +01 18 21.8 | 022 |
| 532 | 1978 06 28.89647 | 14 51 28.68 | +01 18 18.8 | 022 |
| 532 | 1978 07 02.86894 | 14 51 46.09 | +00 34 30.9 | 022 |
| 532 | 1978 07 02.90079 | 14 51 46.26 | +00 34 09.3 | 022 |
| 532 | 1978 07 02.90494 | 14 51 46.26 | +00 34 05.9 | 022 |
| 532 | 1978 07 07.86341 | 14 52 41.52 | -00 21 55.5 | 022 |
| 532 | 1978 07 07.88869 | 14 52 41.81 | -00 22 13.4 | 022 |
| 532 | 1978 07 07.89181 | 14 52 41.89 | -00 22 14.9 | 022 |
| 568 | 1978 10 23.75257 | 19 24 02.46 | -05 15 30.0 | 022 |
| 568 | 1978 10 23.78028 | 19 24 03.75 | -05 15 34.1 | 022 |
| 617 | 1977 10 12.94931 | 02 24 13.47 | +08 27 51.2 | 022 |
| 617 | 1977 10 12.96528 | 02 24 12.88 | +08 27 51.0 | 022 |
| 617 | 1977 11 27.74531 | 01 57 26.02 | +08 33 31.4 | 022 |
| 617 | 1977 11 27.76042 | 01 57 25.62 | +08 33 32.1 | 022 |
| 887 | 1978 03 09.96235 | 12 30 16.01 | +22 29 45.4 | 022 |
| 887 | 1978 03 09.98451 | 12 30 14.27 | +22 29 54.2 | 022 |
| 1628 | 1978 03 09.89310 | 10 34 55.11 | -01 00 17.9 | 022 |
| 1628 | 1978 03 09.91803 | 10 34 54.15 | -01 00 02.9 | 022 |

OBSERVATIONS MADE AT KLET BY A. MRKOS, L. BROZEK, J. KVETON AND Z. VAVROVA.

| Object | Date | UT | R. A. (1950) | Decl. | Mag. | Obs. |
|-----------|------------------|-------------|--------------|-------|------|------|
| /1978 XXI | 1979 10 20.79206 | 22 26 20.30 | -17 21 00.0 | 12.7T | 046 | |
| /1978 XXI | 1979 10 20.80635 | 22 26 20.13 | -17 20 57.4 | | 046 | |
| /1978 XXI | 1979 11 12.74060 | 22 22 38.06 | -15 48 50.6 | 13 T | 046 | |
| /1978 XXI | 1979 11 12.75692 | 22 22 38.09 | -15 48 47.1 | | 046 | |
| /1979i | 1979 10 24.74152 | 12 48 38.74 | +58 01 05.9 | 12.5T | 046 | |
| /1979i | 1979 10 24.74759 | 12 48 38.02 | +58 01 01.4 | | 046 | |
| 222 | 1979 09 27.03093 | 02 44 52.52 | +13 43 15.6 | | 046 | |
| 222 | 1979 09 27.04644 | 02 44 52.01 | +13 43 13.8 | | 046 | |
| 280 | 1979 10 19.90978 | 02 55 34.06 | +22 41 52.5 | | 046 | |
| 280 | 1979 10 19.92413 | 02 55 33.40 | +22 41 52.9 | | 046 | |
| 280 | 1979 10 20.92128 | 02 54 46.01 | +22 41 57.7 | | 046 | |
| 280 | 1979 10 20.93639 | 02 54 45.32 | +22 41 58.0 | | 046 | |
| 280 | 1979 10 25.92720 | 02 50 33.51 | +22 40 34.0 | | 046 | |
| 280 | 1979 10 25.94161 | 02 50 32.67 | +22 40 33.4 | | 046 | |
| 351 | 1979 10 19.94884 | 02 45 38.18 | +02 32 34.5 | | 046 | |
| 351 | 1979 10 19.96319 | 02 45 37.51 | +02 32 31.5 | | 046 | |
| 351 | 1979 10 20.95959 | 02 44 50.12 | +02 28 33.8 | | 046 | |
| 351 | 1979 10 20.97406 | 02 44 49.46 | +02 28 30.5 | | 046 | |
| 351 | 1979 10 25.96603 | 02 40 40.23 | +02 09 42.8 | | 046 | |
| 351 | 1979 10 25.98044 | 02 40 39.45 | +02 09 39.4 | | 046 | |
| 420 | 1979 10 19.87031 | 02 44 39.67 | +20 06 58.7 | | 046 | |
| 420 | 1979 10 19.88449 | 02 44 39.09 | +20 06 55.0 | | 046 | |
| 420 | 1979 10 20.88118 | 02 43 59.39 | +20 02 54.0 | | 046 | |
| 420 | 1979 10 20.89536 | 02 43 58.88 | +20 02 51.1 | | 046 | |
| 420 | 1979 10 23.91535 | 02 41 54.99 | +19 50 07.2 | | 046 | |
| 420 | 1979 10 23.93022 | 02 41 54.40 | +19 50 02.4 | | 046 | |
| 420 | 1979 10 25.85365 | 02 40 33.13 | +19 41 31.7 | | 046 | |
| 420 | 1979 10 25.86296 | 02 40 32.52 | +19 41 27.7 | | 046 | |

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|------|------|------|----------|----------|----|-------|-------|-----|------|------|-----|
| 420 | 1979 | 11 | 25.90220 | 02 | 19 | 02.61 | +17 | 04 | 25.5 | 046 | |
| 420 | 1979 | 11 | 25.91644 | 02 | 19 | 02.13 | +17 | 04 | 21.4 | 046 | |
| 835 | 1979 | 10 | 11.79328 | 23 | 24 | 05.24 | +00 | 44 | 16.0 | 046 | |
| 835 | 1979 | 10 | 11.80792 | 23 | 24 | 04.91 | +00 | 44 | 13.0 | 046 | |
| 835 | 1979 | 10 | 12.85716 | 23 | 23 | 31.84 | +00 | 40 | 38.9 | 046 | |
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| 979 | 1979 | 10 | 19.87031 | 02 | 44 | 30.54 | +19 | 36 | 57.5 | 046 | |
| 979 | 1979 | 10 | 19.88449 | 02 | 44 | 29.88 | +19 | 36 | 52.4 | 046 | |
| 979 | 1979 | 10 | 20.88118 | 02 | 43 | 47.63 | +19 | 30 | 48.5 | 046 | |
| 979 | 1979 | 10 | 20.89536 | 02 | 43 | 47.09 | +19 | 30 | 43.3 | 046 | |
| 979 | 1979 | 10 | 23.91535 | 02 | 41 | 35.04 | +19 | 11 | 42.3 | 046 | |
| 979 | 1979 | 10 | 23.93022 | 02 | 41 | 34.46 | +19 | 11 | 36.2 | 046 | |
| 979 | 1979 | 10 | 25.85365 | 02 | 40 | 07.93 | +18 | 59 | 02.3 | 046 | |
| 979 | 1979 | 10 | 25.86296 | 02 | 40 | 07.27 | +18 | 58 | 56.9 | 046 | |
| 979 | 1979 | 11 | 25.90220 | 02 | 18 | 01.70 | +15 | 23 | 59.8 | 046 | |
| 979 | 1979 | 11 | 25.91644 | 02 | 18 | 01.27 | +15 | 23 | 55.1 | 046 | |
| 1015 | 1979 | 10 | 25.96603 | 02 | 42 | 44.03 | +00 | 58 | 50.6 | 046 | |
| 1015 | 1979 | 10 | 25.98044 | 02 | 42 | 43.38 | +00 | 58 | 48.0 | 046 | |
| 1183 | 1979 | 10 | 12.80682 | 23 | 53 | 53.02 | -01 | 25 | 51.6 | 046 | |
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| 1822 | 1979 | 09 | 25.93457 | 00 | 01 | 02.19 | +01 | 18 | 36.2 | 046 | |
| 1822 | 1979 | 09 | 25.94887 | 00 | 01 | 01.35 | +01 | 18 | 31.3 | 046 | |
| 1822 | 1979 | 09 | 26.91623 | 00 | 00 | 03.40 | +01 | 11 | 43.5 | 046 | |
| 1822 | 1979 | 09 | 26.93081 | 00 | 00 | 02.63 | +01 | 11 | 38.8 | 046 | |
| 1822 | 1979 | 09 | 27.95649 | 23 | 59 | 01.48 | +01 | 04 | 28.7 | 046 | |
| 1822 | 1979 | 09 | 27.97079 | 23 | 59 | 00.78 | +01 | 04 | 25.2 | 046 | |
| 1856 | 1979 | 09 | 26.99238 | 01 | 46 | 01.96 | +09 | 11 | 12.0 | 046 | |
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| 1925 | 1979 | 10 | 19.94884 | 02 | 40 | 32.49 | +01 | 00 | 37.5 | 046 | |
| 1925 | 1979 | 10 | 19.96319 | 02 | 40 | 31.68 | +01 | 00 | 33.3 | 046 | |
| 1925 | 1979 | 10 | 20.95959 | 02 | 39 | 41.49 | +00 | 56 | 04.4 | 046 | |
| 1925 | 1979 | 10 | 20.97406 | 02 | 39 | 40.79 | +00 | 55 | 59.3 | 046 | |
| 1925 | 1979 | 10 | 25.96603 | 02 | 35 | 17.88 | +00 | 35 | 28.8 | 046 | |
| 1925 | 1979 | 10 | 25.98044 | 02 | 35 | 16.96 | +00 | 35 | 26.5 | 046 | |
| 1925 | 1979 | 11 | 12.87365 | 02 | 19 | 18.38 | -00 | 00 | 57.8 | 046 | |
| 1925 | 1979 | 11 | 12.88794 | 02 | 19 | 17.70 | -00 | 00 | 57.7 | 046 | |
| 1979 | QF | 1979 | 10 | 15.75648 | 23 | 03 | 25.88 | +04 | 19 | 46.0 | 046 |
| 1979 | QF | 1979 | 10 | 15.77066 | 23 | 03 | 25.65 | +04 | 19 | 37.0 | 046 |
| 1979 | QF | 1979 | 10 | 19.75648 | 23 | 02 | 40.40 | +03 | 33 | 29.2 | 046 |
| 1979 | QF | 1979 | 10 | 19.77072 | 23 | 02 | 40.27 | +03 | 33 | 19.3 | 046 |
| 1979 | QF | 1979 | 10 | 20.82823 | 23 | 02 | 32.68 | +03 | 21 | 32.8 | 046 |
| 1979 | QF | 1979 | 10 | 20.84264 | 23 | 02 | 32.61 | +03 | 21 | 24.2 | 046 |
| 1979 | SA | 1979 | 10 | 15.75648 | 23 | 01 | 35.20 | +06 | 32 | 17.9 | 046 |
| 1979 | SA | 1979 | 10 | 15.77066 | 23 | 01 | 34.83 | +06 | 32 | 08.4 | 046 |
| 1979 | SA | 1979 | 10 | 19.75648 | 23 | 00 | 12.92 | +05 | 59 | 34.9 | 046 |
| 1979 | SA | 1979 | 10 | 19.77072 | 23 | 00 | 12.77 | +05 | 59 | 29.2 | 046 |
| 1979 | SA | 1979 | 10 | 20.82823 | 22 | 59 | 53.83 | +05 | 51 | 00.3 | 046 |
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| 1979 | SF | 1979 | 10 | 11.84270 | 23 | 26 | 22.37 | +03 | 24 | 35.5 | 046 |
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| 1979 | SF | 1979 | 10 | 19.80816 | 23 | 21 | 44.68 | +03 | 05 | 35.9 | 046 |
| 1979 | SH | 1979 | 10 | 11.84270 | 23 | 30 | 06.50 | +03 | 19 | 56.3 | 046 |
| 1979 | SH | 1979 | 10 | 11.85740 | 23 | 30 | 05.87 | +03 | 19 | 55.5 | 046 |
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17.0

| | | | | | | | | | | | |
|------|----|--------|----|----------|----|----|-------|-----|----|------|----------|
| 1979 | SJ | 1979 | 10 | 18.86203 | 23 | 44 | 08.82 | +00 | 38 | 06.8 | 046 |
| 1979 | SL | 1979 | 09 | 27.91801 | 23 | 34 | 37.64 | +03 | 42 | 01.8 | 046 |
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| 1979 | SL | 1979 | 10 | 11.79328 | 23 | 26 | 51.21 | +01 | 55 | 20.1 | 046 |
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| 1979 | SO | 1979 | 10 | 19.83235 | 23 | 49 | 10.20 | -00 | 45 | 23.8 | 046 |
| 1979 | SO | 1979 | 10 | 19.84687 | 23 | 49 | 09.65 | -00 | 45 | 22.2 | 046 |
| 1979 | SP | 1979 | 10 | 12.80682 | 23 | 50 | 57.51 | -03 | 13 | 47.4 | 046 |
| 1979 | SP | 1979 | 10 | 12.82140 | 23 | 50 | 57.01 | -03 | 13 | 50.0 | 046 |
| 1979 | SP | 1979 | 10 | 19.83235 | 23 | 47 | 10.92 | -03 | 39 | 10.3 | 046 |
| 1979 | SP | 1979 | 10 | 19.84687 | 23 | 47 | 10.46 | -03 | 39 | 13.6 | 046 |
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| 1979 | SR | 1979 | 10 | 15.83235 | 23 | 19 | 32.11 | +01 | 33 | 48.7 | 046 |
| 1979 | SR | 1979 | 10 | 15.84659 | 23 | 19 | 31.86 | +01 | 33 | 41.7 | 046 |
| 1979 | SR | 1979 | 10 | 19.79387 | 23 | 18 | 35.21 | +01 | 04 | 08.1 | 046 |
| 1979 | SR | 1979 | 10 | 19.80816 | 23 | 18 | 34.96 | +01 | 04 | 01.9 | 046 |
| 1979 | SS | 1979 | 10 | 11.79328 | 23 | 19 | 04.52 | +02 | 09 | 42.4 | 046 |
| 1979 | SS | 1979 | 10 | 11.80792 | 23 | 19 | 04.19 | +02 | 09 | 41.6 | 046 |
| 1979 | SS | 1979 | 10 | 12.85716 | 23 | 18 | 29.70 | +02 | 08 | 45.3 | 046 |
| 1979 | SS | 1979 | 10 | 12.87163 | 23 | 18 | 29.28 | +02 | 08 | 45.3 | 046 |
| 1979 | SS | 1979 | 10 | 15.83235 | 23 | 17 | 03.95 | +02 | 06 | 39.4 | 046 |
| 1979 | SS | 1979 | 10 | 15.84659 | 23 | 17 | 03.36 | +02 | 06 | 39.9 | 046 |
| 1979 | UO | * 1979 | 10 | 19.87031 | 02 | 39 | 37.94 | +21 | 31 | 29.4 | 17.6 046 |
| 1979 | UO | 1979 | 10 | 19.88449 | 02 | 39 | 37.06 | +21 | 31 | 28.7 | 046 |
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| 1979 | UP | * 1979 | 10 | 19.87031 | 02 | 40 | 28.05 | +19 | 28 | 26.8 | 18.0 046 |
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| 1979 | UQ | 1979 | 10 | 23.91535 | 02 | 37 | 15.15 | +18 | 18 | 54.7 | 046 |
| 1979 | UQ | 1979 | 10 | 23.93022 | 02 | 37 | 14.37 | +18 | 18 | 48.7 | 046 |
| 1979 | UQ | 1979 | 10 | 25.85365 | 02 | 35 | 33.35 | +18 | 07 | 00.2 | 046 |
| 1979 | UQ | 1979 | 10 | 25.86296 | 02 | 35 | 32.52 | +18 | 06 | 53.9 | 046 |
| 1979 | UR | * 1979 | 10 | 19.87031 | 02 | 42 | 48.84 | +20 | 07 | 04.1 | 17.8 046 |
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| 1979 | US | * 1979 | 10 | 19.87031 | 02 | 43 | 31.63 | +18 | 59 | 24.8 | 17.4 046 |
| 1979 | US | 1979 | 10 | 19.88449 | 02 | 43 | 30.86 | +18 | 59 | 23.3 | 046 |
| 1979 | US | 1979 | 10 | 20.88118 | 02 | 42 | 42.06 | +18 | 57 | 56.3 | 046 |
| 1979 | US | 1979 | 10 | 20.89536 | 02 | 42 | 41.41 | +18 | 57 | 55.8 | 046 |

| | | | | | | | | | |
|----------|---|---------|----------|-------|-------|--------|------|------|-----|
| 1979 US | | 1979 10 | 23.91535 | 02 40 | 07.66 | +18 52 | 50.1 | | 046 |
| 1979 US | | 1979 10 | 23.93022 | 02 40 | 07.17 | +18 52 | 48.8 | | 046 |
| 1979 UT | * | 1979 10 | 19.87031 | 02 45 | 07.01 | +20 29 | 12.2 | 17.4 | 046 |
| 1979 UT | | 1979 10 | 19.88449 | 02 45 | 06.35 | +20 29 | 03.0 | | 046 |
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| 1979 UT | | 1979 10 | 20.89536 | 02 44 | 27.05 | +20 20 | 44.1 | | 046 |
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| 1979 UU | * | 1979 10 | 19.87031 | 02 46 | 35.38 | +18 30 | 36.9 | 16.8 | 046 |
| 1979 UU | | 1979 10 | 19.88449 | 02 46 | 34.76 | +18 30 | 33.5 | | 046 |
| 1979 UU | | 1979 10 | 20.88118 | 02 45 | 46.77 | +18 27 | 25.2 | | 046 |
| 1979 UU | | 1979 10 | 20.89536 | 02 45 | 46.12 | +18 27 | 20.8 | | 046 |
| 1979 UU | | 1979 10 | 23.91535 | 02 43 | 15.13 | +18 17 | 12.6 | | 046 |
| 1979 UU | | 1979 10 | 23.93022 | 02 43 | 14.85 | +18 17 | 06.7 | | 046 |
| 1979 UU | | 1979 10 | 25.85365 | 02 41 | 34.82 | +18 10 | 04.6 | | 046 |
| 1979 UU | | 1979 10 | 25.86296 | 02 41 | 34.35 | +18 10 | 00.3 | | 046 |
| 1979 UU | | 1979 11 | 25.90220 | 02 14 | 55.76 | +15 56 | 22.5 | | 046 |
| 1979 UU | | 1979 11 | 25.91644 | 02 14 | 55.17 | +15 56 | 19.5 | | 046 |
| 1979 UV | * | 1979 10 | 19.87031 | 02 49 | 38.37 | +20 10 | 14.1 | 17.6 | 046 |
| 1979 UV | | 1979 10 | 19.88449 | 02 49 | 37.76 | +20 10 | 07.9 | | 046 |
| 1979 UV | | 1979 10 | 20.88118 | 02 48 | 49.58 | +20 02 | 48.3 | | 046 |
| 1979 UV | | 1979 10 | 20.89536 | 02 48 | 48.70 | +20 02 | 42.4 | | 046 |
| 1979 UW | * | 1979 10 | 19.90978 | 02 50 | 26.62 | +20 58 | 57.4 | 17.4 | 046 |
| 1979 UW | | 1979 10 | 19.92413 | 02 50 | 25.88 | +20 58 | 50.5 | | 046 |
| 1979 UW | | 1979 10 | 20.92128 | 02 49 | 42.24 | +20 51 | 58.7 | | 046 |
| 1979 UW | | 1979 10 | 20.93639 | 02 49 | 41.29 | +20 51 | 55.9 | | 046 |
| 1979 UX | * | 1979 10 | 19.90978 | 02 56 | 02.12 | +20 58 | 49.3 | 17.0 | 046 |
| 1979 UX | | 1979 10 | 19.92413 | 02 56 | 01.52 | +20 58 | 49.0 | | 046 |
| 1979 UX | | 1979 10 | 20.92128 | 02 55 | 13.80 | +20 57 | 16.7 | | 046 |
| 1979 UX | | 1979 10 | 20.93639 | 02 55 | 13.00 | +20 57 | 15.2 | | 046 |
| 1979 UX | | 1979 10 | 25.92720 | 02 51 | 01.07 | +20 47 | 51.5 | | 046 |
| 1979 UX | | 1979 10 | 25.94161 | 02 51 | 00.31 | +20 47 | 50.0 | | 046 |
| 1979 UY | * | 1979 10 | 19.90978 | 02 57 | 48.28 | +22 16 | 15.4 | 18.0 | 046 |
| 1979 UY | | 1979 10 | 19.92413 | 02 57 | 46.86 | +22 16 | 18.0 | | 046 |
| 1979 UY | | 1979 10 | 25.92720 | 02 54 | 47.84 | +21 01 | 03.3 | | 046 |
| 1979 UY | | 1979 10 | 25.94161 | 02 54 | 46.96 | +21 01 | 02.2 | | 046 |
| 1979 UZ | * | 1979 10 | 19.94884 | 02 38 | 51.92 | +00 42 | 08.8 | 16.6 | 046 |
| 1979 UZ | | 1979 10 | 19.96319 | 02 38 | 51.10 | +00 42 | 06.4 | | 046 |
| 1979 UZ | | 1979 10 | 20.95959 | 02 38 | 02.72 | +00 39 | 34.4 | | 046 |
| 1979 UZ | | 1979 10 | 20.97406 | 02 38 | 02.03 | +00 39 | 32.4 | | 046 |
| 1979 UZ | | 1979 10 | 25.96603 | 02 33 | 51.01 | +00 27 | 57.8 | | 046 |
| 1979 UZ | | 1979 10 | 25.98044 | 02 33 | 50.30 | +00 27 | 55.8 | | 046 |
| 1979 UZ | | 1979 11 | 12.87365 | 02 18 | 20.36 | +00 06 | 26.7 | | 046 |
| 1979 UZ | | 1979 11 | 12.88794 | 02 18 | 19.57 | +00 06 | 27.1 | | 046 |
| 1979 UA1 | * | 1979 10 | 19.94884 | 02 46 | 11.67 | +01 48 | 28.6 | 17.2 | 046 |
| 1979 UA1 | | 1979 10 | 19.96319 | 02 46 | 10.80 | +01 48 | 21.1 | | 046 |
| 1979 UA1 | | 1979 10 | 20.95959 | 02 45 | 23.61 | +01 42 | 09.3 | | 046 |
| 1979 UA1 | | 1979 10 | 25.96603 | 02 41 | 16.86 | +01 11 | 58.7 | | 046 |
| 1979 UA1 | | 1979 10 | 25.98044 | 02 41 | 15.40 | +01 11 | 53.0 | | 046 |
| 1979 UB1 | * | 1979 10 | 19.94884 | 02 44 | 02.92 | +02 33 | 34.6 | 17.8 | 046 |
| 1979 UB1 | | 1979 10 | 19.96319 | 02 44 | 01.92 | +02 33 | 36.7 | | 046 |
| 1979 UB1 | | 1979 10 | 20.95959 | 02 43 | 02.81 | +02 33 | 14.9 | | 046 |
| 1979 UB1 | | 1979 10 | 20.97406 | 02 43 | 01.79 | +02 33 | 14.2 | | 046 |
| 1979 VB | * | 1979 11 | 12.78244 | 02 46 | 25.42 | +17 19 | 22.9 | 17.0 | 046 |
| 1979 VB | | 1979 11 | 12.79679 | 02 46 | 24.85 | +17 19 | 25.1 | | 046 |
| 1979 WA | * | 1979 11 | 25.90220 | 02 14 | 04.54 | +18 14 | 13.5 | 17.4 | 046 |
| 1979 WA | | 1979 11 | 25.91644 | 02 14 | 04.12 | +18 14 | 05.2 | | 046 |
| 1979 WB | * | 1979 11 | 25.90220 | 02 18 | 15.17 | +16 33 | 55.0 | | 046 |
| 1979 WB | | 1979 11 | 25.91644 | 02 18 | 14.76 | +16 33 | 57.0 | | 046 |

OBSERVATIONS MADE AT TURKU (CODE 062) BY L. OTERMA AND V. LAIHO AND AT THE
TUORLA STATION (CODE 063) BY M.-O. SNARE. MEASURED BY SNARE AND J.
LEHTINEN.

| Object | Date | UT | R. A. (1950) | | | Decl. | Obs. |
|---------|---------|----------|--------------|-------|--------|-------|------|
| /1979i | 1979 10 | 20.89425 | 12 52 | 41.68 | +58 52 | 47.6 | 063 |
| /1979i | 1979 10 | 20.90154 | 12 52 | 41.55 | +58 52 | 39.8 | 063 |
| /1979i | 1979 10 | 23.99685 | 12 49 | 26.78 | +58 10 | 48.1 | 063 |
| /1979i | 1979 10 | 24.00900 | 12 49 | 26.29 | +58 10 | 34.2 | 063 |
| /1979i | 1979 10 | 24.06225 | 12 49 | 23.04 | +58 09 | 54.5 | 063 |
| /1979i | 1979 10 | 24.88056 | 12 48 | 29.98 | +57 59 | 20.5 | 063 |
| /1979i | 1979 10 | 24.88760 | 12 48 | 29.26 | +57 59 | 14.4 | 063 |
| /1979i | 1979 10 | 24.89593 | 12 48 | 28.83 | +57 59 | 10.0 | 063 |
| 1942 GG | 1942 03 | 19.03044 | 14 00 | 48.98 | -06 58 | 27.3 | 062 |
| 1942 GG | 1942 04 | 14.96478 | 13 41 | 04.99 | -06 28 | 03.0 | 062 |
| 1942 GG | 1942 04 | 14.97138 | 13 41 | 04.65 | -06 28 | 02.5 | 062 |
| 1942 GG | 1942 04 | 17.91254 | 13 38 | 31.41 | -06 24 | 21.3 | 062 |
| 1942 GG | 1942 04 | 17.96022 | 13 38 | 28.86 | -06 24 | 18.4 | 062 |

OBSERVATIONS MADE AT BUCHAREST UNDER THE DIRECTION OF C. CRISTESCU. REDUC-
TIONS BY B. MILET.

| Object | Date | UT | R. A. (1950) | | | Decl. | O - C | Obs. |
|--------|---------|----------|--------------|-------|--------|-------|-------|------|
| 1 | 1971 01 | 16.70356 | 01 48 | 41.20 | +04 31 | 03.8 | | 073 |
| 1 | 1971 01 | 16.71049 | 01 48 | 41.44 | +04 31 | 07.2 | | 073 |
| 1 | 1971 01 | 16.71741 | 01 48 | 41.70 | +04 31 | 10.1 | | 073 |
| 2 | 1971 10 | 25.96250 | 04 38 | 20.48 | -24 06 | 23.5 | | 073 |
| 2 | 1971 10 | 25.96597 | 04 38 | 20.43 | -24 06 | 27.4 | | 073 |
| 2 | 1971 10 | 25.96874 | 04 38 | 20.38 | -24 06 | 30.3 | | 073 |
| 2 | 1971 12 | 11.85301 | 04 05 | 29.20 | -32 02 | 24.3 | | 073 |
| 2 | 1971 12 | 11.85993 | 04 05 | 28.83 | -32 02 | 24.3 | | 073 |
| 3 | 1971 01 | 04.77859 | 03 19 | 37.51 | -02 19 | 20.7 | | 073 |
| 3 | 1971 01 | 04.78476 | 03 19 | 37.60 | -02 19 | 17.3 | | 073 |
| 3 | 1971 01 | 04.79376 | 03 19 | 37.79 | -02 19 | 12.7 | | 073 |
| 3 | 1971 01 | 12.71550 | 03 23 | 32.52 | -01 04 | 06.1 | | 073 |
| 3 | 1971 01 | 12.72381 | 03 23 | 32.78 | -01 04 | 00.8 | | 073 |
| 3 | 1971 01 | 16.75412 | 03 26 | 13.22 | -00 22 | 54.0 | | 073 |
| 3 | 1971 01 | 16.76104 | 03 26 | 13.52 | -00 22 | 49.3 | | 073 |
| 3 | 1971 01 | 16.76935 | 03 26 | 13.90 | -00 22 | 43.6 | | 073 |
| 3 | 1971 01 | 28.76418 | 03 36 | 41.26 | +01 46 | 44.7 | | 073 |
| 3 | 1971 01 | 28.77165 | 03 36 | 41.69 | +01 46 | 49.4 | | 073 |
| 3 | 1971 02 | 06.71832 | 03 46 | 40.38 | +03 26 | 22.6 | | 073 |
| 3 | 1971 02 | 06.72456 | 03 46 | 40.81 | +03 26 | 26.6 | | 073 |
| 3 | 1971 02 | 06.73079 | 03 46 | 41.28 | +03 26 | 30.8 | | 073 |
| 3 | 1971 02 | 09.70598 | 03 50 | 22.66 | +03 59 | 32.4 | | 073 |
| 3 | 1971 02 | 09.71326 | 03 50 | 22.59 | +03 59 | 37.2 | | 073 |
| 3 | 1971 02 | 09.72018 | 03 50 | 23.14 | +03 59 | 41.7 | | 073 |
| 3 | 1971 02 | 12.69397 | 03 54 | 13.74 | +04 32 | 29.3 | | 073 |
| 3 | 1971 02 | 12.70159 | 03 54 | 14.30 | +04 32 | 39.1 | | 073 |
| 4 | 1971 07 | 12.90748 | 20 18 | 03.13 | -22 35 | 43.0 | | 073 |
| 4 | 1971 07 | 12.90956 | 20 18 | 03.03 | -22 35 | 44.0 | | 073 |
| 4 | 1971 07 | 12.91094 | 20 18 | 02.94 | -22 35 | 44.5 | | 073 |
| 4 | 1971 07 | 16.86887 | 20 14 | 23.66 | -23 05 | 10.0 | | 073 |
| 4 | 1971 07 | 16.87027 | 20 14 | 23.34 | -23 05 | 10.5 | | 073 |
| 4 | 1971 07 | 16.87164 | 20 14 | 23.53 | -23 05 | 11.5 | | 073 |
| 4 | 1971 07 | 29.90032 | 20 01 | 43.15 | -24 36 | 03.6 | | 073 |
| 4 | 1971 07 | 29.90206 | 20 01 | 43.05 | -24 36 | 04.8 | | 073 |
| 4 | 1971 07 | 29.90379 | 20 01 | 42.93 | -24 36 | 05.3 | | 073 |
| 4 | 1971 08 | 04.84628 | 19 56 | 16.39 | -25 11 | 31.1 | | 073 |
| 4 | 1971 08 | 04.84801 | 19 56 | 16.32 | -25 11 | 31.1 | | 073 |
| 4 | 1971 08 | 04.88455 | 19 56 | 16.47 | -25 11 | 30.1 | | 073 |

| | | | | | | | | | | | | |
|---|------|----|----------|----|----|-------|-----|----|------|------|---|-----|
| 4 | 1971 | 08 | 07.85299 | 19 | 53 | 44.37 | -25 | 27 | 31.5 | | | 073 |
| 4 | 1971 | 08 | 07.85472 | 19 | 53 | 44.29 | -25 | 27 | 32.2 | | | 073 |
| 4 | 1971 | 08 | 07.85645 | 19 | 53 | 44.20 | -25 | 27 | 32.3 | | | 073 |
| 4 | 1971 | 08 | 11.83947 | 19 | 50 | 40.60 | -25 | 46 | 37.8 | | | 073 |
| 4 | 1971 | 08 | 11.84155 | 19 | 50 | 40.49 | -25 | 46 | 38.7 | | | 073 |
| 4 | 1971 | 08 | 11.84363 | 19 | 50 | 40.41 | -25 | 46 | 39.4 | | | 073 |
| 4 | 1971 | 08 | 16.81477 | 19 | 47 | 24.93 | -26 | 06 | 59.5 | | | 073 |
| 4 | 1971 | 08 | 16.81685 | 19 | 47 | 24.87 | -26 | 06 | 59.9 | | | 073 |
| 4 | 1971 | 08 | 16.81893 | 19 | 47 | 24.81 | -26 | 07 | 00.4 | | | 073 |
| 4 | 1971 | 08 | 19.81715 | 19 | 45 | 47.48 | -26 | 17 | 22.9 | | | 073 |
| 4 | 1971 | 08 | 19.81853 | 19 | 45 | 47.44 | -26 | 17 | 23.1 | | | 073 |
| 4 | 1971 | 08 | 19.81992 | 19 | 45 | 47.36 | -26 | 17 | 23.5 | | | 073 |
| 4 | 1971 | 08 | 20.80646 | 19 | 45 | 19.09 | -26 | 20 | 29.3 | | | 073 |
| 4 | 1971 | 08 | 20.80819 | 19 | 45 | 19.00 | -26 | 20 | 30.0 | | | 073 |
| 4 | 1971 | 08 | 20.80992 | 19 | 45 | 18.97 | -26 | 20 | 30.6 | | | 073 |
| 4 | 1971 | 08 | 21.78867 | 19 | 44 | 52.67 | -26 | 23 | 25.7 | | | 073 |
| 4 | 1971 | 08 | 21.79074 | 19 | 44 | 52.54 | -26 | 23 | 26.0 | | | 073 |
| 4 | 1971 | 08 | 21.79282 | 19 | 44 | 52.55 | -26 | 23 | 26.7 | | | 073 |
| 4 | 1971 | 08 | 26.80431 | 19 | 43 | 07.45 | -26 | 36 | 06.5 | | | 073 |
| 4 | 1971 | 08 | 26.80778 | 19 | 43 | 07.40 | -26 | 36 | 07.5 | | | 073 |
| 4 | 1971 | 08 | 26.81124 | 19 | 43 | 07.32 | -26 | 36 | 08.4 | | | 073 |
| 4 | 1971 | 08 | 30.77313 | 19 | 42 | 20.20 | -26 | 43 | 30.5 | | | 073 |
| 4 | 1971 | 08 | 30.77520 | 19 | 42 | 20.20 | -26 | 43 | 31.1 | | | 073 |
| 4 | 1971 | 08 | 30.77728 | 19 | 42 | 20.18 | -26 | 43 | 31.2 | | | 073 |
| 4 | 1971 | 09 | 13.72802 | 19 | 43 | 46.35 | -26 | 52 | 37.6 | | | 073 |
| 4 | 1971 | 09 | 13.73010 | 19 | 43 | 46.37 | -26 | 52 | 37.5 | | | 073 |
| 4 | 1971 | 09 | 13.73217 | 19 | 43 | 46.40 | -26 | 52 | 37.4 | | | 073 |
| 4 | 1971 | 10 | 25.67423 | 20 | 20 | 30.49 | -25 | 11 | 40.6 | | | 073 |
| 4 | 1971 | 10 | 25.67596 | 20 | 20 | 30.63 | -25 | 11 | 40.4 | | | 073 |
| 4 | 1971 | 10 | 25.67769 | 20 | 20 | 30.76 | -25 | 11 | 40.2 | | | 073 |
| 5 | 1969 | 11 | 13.85769 | 03 | 48 | 37.04 | +10 | 51 | 26.6 | 0.0 | 0 | 073 |
| 5 | 1969 | 11 | 13.86530 | 03 | 48 | 36.60 | +10 | 51 | 25.0 | 0.0 | 0 | 073 |
| 5 | 1970 | 01 | 15.75048 | 03 | 15 | 06.09 | +11 | 07 | 46.0 | 0.0 | 0 | 073 |
| 5 | 1970 | 01 | 15.76433 | 03 | 15 | 06.39 | +11 | 07 | 50.7 | 0.0 | 0 | 073 |
| 5 | 1971 | 04 | 27.89994 | 15 | 06 | 03.99 | -08 | 14 | 07.1 | 0.0 | 0 | 073 |
| 5 | 1971 | 04 | 27.91587 | 15 | 06 | 03.09 | -08 | 14 | 02.3 | 0.0 | 0 | 073 |
| 5 | 1971 | 04 | 29.88961 | 15 | 04 | 17.92 | -08 | 04 | 46.8 | 0.0 | 0 | 073 |
| 5 | 1971 | 04 | 29.90139 | 15 | 04 | 17.30 | -08 | 04 | 43.4 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 11.83516 | 14 | 53 | 28.83 | -07 | 15 | 42.6 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 11.84693 | 14 | 53 | 28.20 | -07 | 15 | 39.9 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 12.89933 | 14 | 52 | 32.27 | -07 | 12 | 04.6 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 12.90764 | 14 | 52 | 31.82 | -07 | 12 | 03.4 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 13.83953 | 14 | 51 | 42.92 | -07 | 08 | 59.9 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 13.85200 | 14 | 51 | 42.27 | -07 | 08 | 57.5 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 18.82464 | 14 | 47 | 30.21 | -06 | 54 | 38.4 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 18.83641 | 14 | 47 | 29.62 | -06 | 54 | 36.6 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 22.80832 | 14 | 44 | 22.84 | -06 | 45 | 44.7 | 0.1- | 0 | 073 |
| 5 | 1971 | 05 | 22.82417 | 14 | 44 | 22.17 | -06 | 45 | 43.5 | 0.1- | 0 | 073 |
| 5 | 1971 | 05 | 26.87221 | 14 | 41 | 28.72 | -06 | 39 | 14.1 | 0.0 | 0 | 073 |
| 5 | 1971 | 05 | 26.88260 | 14 | 41 | 28.27 | -06 | 39 | 13.3 | 0.0 | 0 | 073 |
| 6 | 1971 | 01 | 28.10204 | 14 | 05 | 21.76 | +01 | 02 | 32.5 | | | 073 |
| 6 | 1971 | 01 | 28.11441 | 14 | 05 | 22.19 | +01 | 02 | 35.0 | | | 073 |
| 6 | 1971 | 03 | 24.96698 | 14 | 06 | 13.64 | +07 | 19 | 40.4 | | | 073 |
| 6 | 1971 | 03 | 24.97702 | 14 | 06 | 13.26 | +07 | 19 | 45.6 | | | 073 |
| 6 | 1971 | 03 | 24.98603 | 14 | 06 | 12.95 | +07 | 19 | 50.4 | | | 073 |
| 6 | 1971 | 04 | 16.89836 | 13 | 48 | 28.56 | +10 | 26 | 41.8 | | | 073 |
| 6 | 1971 | 04 | 16.90667 | 13 | 48 | 28.12 | +10 | 26 | 44.9 | | | 073 |
| 6 | 1971 | 04 | 20.90636 | 13 | 44 | 58.81 | +10 | 51 | 26.2 | | | 073 |
| 6 | 1971 | 04 | 20.91675 | 13 | 44 | 58.29 | +10 | 51 | 41.6 | | | 073 |

| | | | | | | | | | | | | |
|----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 9 | 1971 | 11 | 11.71484 | 00 | 59 | 41.78 | -00 | 13 | 43.1 | 0.0 | 1- | 073 |
| 9 | 1971 | 11 | 11.72938 | 00 | 59 | 41.29 | -00 | 13 | 42.2 | 0.0 | 1- | 073 |
| 10 | 1971 | 01 | 30.91767 | 08 | 49 | 43.94 | +15 | 07 | 51.9 | 0.0 | 0 | 073 |
| 10 | 1971 | 01 | 30.92339 | 08 | 49 | 43.52 | +15 | 07 | 53.2 | 0.0 | 0 | 073 |
| 10 | 1971 | 02 | 12.87819 | 08 | 39 | 03.27 | +15 | 39 | 43.7 | 0.1- | 1+ | 073 |
| 10 | 1971 | 02 | 12.88996 | 08 | 39 | 02.73 | +15 | 39 | 45.2 | 0.1- | 1+ | 073 |
| 10 | 1971 | 02 | 26.86412 | 08 | 29 | 21.06 | +16 | 09 | 16.1 | 0.0 | 0 | 073 |
| 10 | 1971 | 02 | 26.87347 | 08 | 29 | 20.74 | +16 | 09 | 16.8 | 0.0 | 0 | 073 |
| 10 | 1971 | 03 | 16.75031 | 08 | 22 | 15.91 | +16 | 31 | 50.1 | 0.0 | 1+ | 073 |
| 10 | 1971 | 03 | 16.76762 | 08 | 22 | 15.65 | +16 | 31 | 50.3 | 0.0 | 1+ | 073 |
| 10 | 1971 | 03 | 18.75139 | 08 | 21 | 29.66 | +16 | 35 | 45.1 | 0.1- | 3+ | 073 |
| 10 | 1971 | 03 | 18.76455 | 08 | 21 | 28.98 | +16 | 35 | 42.9 | 0.1- | 3+ | 073 |
| 11 | 1971 | 01 | 16.67897 | 01 | 30 | 13.93 | +04 | 14 | 04.4 | | | 073 |
| 11 | 1971 | 01 | 16.68589 | 01 | 30 | 14.35 | +04 | 14 | 07.6 | | | 073 |
| 11 | 1971 | 01 | 16.69692 | 01 | 30 | 14.82 | +04 | 14 | 11.6 | | | 073 |
| 11 | 1971 | 11 | 27.97570 | 09 | 32 | 37.72 | +14 | 03 | 38.0 | | | 073 |
| 11 | 1971 | 11 | 27.98054 | 09 | 32 | 37.91 | +14 | 03 | 36.9 | | | 073 |
| 12 | 1971 | 07 | 17.78962 | 18 | 55 | 25.89 | -07 | 41 | 22.6 | 0.1+ | 0 | 073 |
| 12 | 1971 | 07 | 17.79585 | 18 | 55 | 25.52 | -07 | 41 | 21.3 | 0.1+ | 0 | 073 |
| 12 | 1971 | 07 | 23.83458 | 18 | 50 | 53.97 | -07 | 31 | 57.5 | 0.1+ | 0 | 073 |
| 12 | 1971 | 07 | 23.84012 | 18 | 50 | 53.71 | -07 | 31 | 57.1 | 0.1+ | 0 | 073 |
| 12 | 1971 | 08 | 04.78277 | 18 | 44 | 46.39 | -07 | 35 | 49.7 | 0.0 | 1- | 073 |
| 12 | 1971 | 08 | 04.78569 | 18 | 44 | 46.33 | -07 | 35 | 50.3 | 0.0 | 1- | 073 |
| 13 | 1970 | 12 | 12.70514 | 02 | 00 | 54.03 | +15 | 34 | 39.6 | 0.0 | 1- | 073 |
| 13 | 1970 | 12 | 12.71969 | 02 | 00 | 53.65 | +15 | 34 | 42.8 | 0.0 | 1- | 073 |
| 14 | 1969 | 10 | 08.83787 | 01 | 26 | 38.79 | -04 | 41 | 12.0 | 0.0 | 0 | 073 |
| 14 | 1969 | 10 | 08.84964 | 01 | 26 | 38.14 | -04 | 41 | 15.3 | 0.0 | 0 | 073 |
| 14 | 1969 | 10 | 14.83880 | 01 | 21 | 20.41 | -05 | 07 | 21.9 | 0.0 | 0 | 073 |
| 14 | 1969 | 10 | 14.84919 | 01 | 21 | 19.84 | -05 | 07 | 24.5 | 0.0 | 0 | 073 |
| 14 | 1969 | 11 | 01.84404 | 01 | 06 | 11.68 | -05 | 56 | 19.2 | 0.0 | 0 | 073 |
| 14 | 1969 | 11 | 01.85512 | 01 | 06 | 11.20 | -05 | 56 | 19.8 | 0.0 | 0 | 073 |
| 14 | 1969 | 11 | 04.77144 | 01 | 04 | 02.91 | -05 | 59 | 15.0 | 0.0 | 0 | 073 |
| 14 | 1969 | 11 | 04.80884 | 01 | 04 | 02.47 | -05 | 59 | 15.1 | 0.0 | 0 | 073 |
| 14 | 1969 | 11 | 29.71808 | 00 | 52 | 47.24 | -05 | 23 | 03.7 | 0.0 | 0 | 073 |
| 14 | 1969 | 11 | 29.74163 | 00 | 52 | 46.93 | -05 | 22 | 58.7 | 0.0 | 0 | 073 |
| 14 | 1971 | 01 | 29.89465 | 07 | 48 | 00.36 | +29 | 52 | 55.1 | 0.0 | 0 | 073 |
| 14 | 1971 | 01 | 29.90573 | 07 | 47 | 59.61 | +29 | 52 | 58.7 | 0.0 | 0 | 073 |
| 14 | 1971 | 01 | 30.87901 | 07 | 47 | 01.56 | +29 | 58 | 04.3 | 0.0 | 0 | 073 |
| 14 | 1971 | 01 | 30.88669 | 07 | 47 | 01.00 | +29 | 58 | 06.7 | 0.0 | 0 | 073 |
| 14 | 1971 | 02 | 10.81787 | 07 | 37 | 25.87 | +30 | 43 | 19.0 | 0.0 | 0 | 073 |
| 14 | 1971 | 02 | 10.82929 | 07 | 37 | 25.28 | +30 | 43 | 21.4 | 0.0 | 0 | 073 |
| 14 | 1971 | 02 | 12.73829 | 07 | 36 | 03.88 | +30 | 48 | 58.1 | 0.0 | 0 | 073 |
| 14 | 1971 | 02 | 12.75076 | 07 | 36 | 03.34 | +30 | 49 | 00.4 | 0.0 | 0 | 073 |
| 14 | 1971 | 02 | 15.74461 | 07 | 34 | 08.84 | +30 | 56 | 29.8 | 0.0 | 0 | 073 |
| 14 | 1971 | 02 | 15.75846 | 07 | 34 | 08.33 | +30 | 56 | 31.8 | 0.0 | 0 | 073 |
| 16 | 1969 | 08 | 05.87430 | 20 | 38 | 11.82 | -16 | 42 | 12.8 | 0.4+ | 1+ | 073 |
| 16 | 1969 | 08 | 05.88261 | 20 | 38 | 11.46 | -16 | 42 | 14.8 | 0.4+ | 1+ | 073 |
| 16 | 1969 | 08 | 11.85307 | 20 | 33 | 21.46 | -17 | 07 | 28.5 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 08 | 11.86138 | 20 | 33 | 21.03 | -17 | 07 | 30.4 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 08 | 14.84806 | 20 | 31 | 02.42 | -17 | 19 | 44.1 | 0.4+ | 1+ | 073 |
| 16 | 1969 | 08 | 14.85804 | 20 | 31 | 01.98 | -17 | 19 | 46.6 | 0.4+ | 1+ | 073 |
| 16 | 1969 | 09 | 01.81829 | 20 | 20 | 08.58 | -18 | 22 | 12.2 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 09 | 01.82730 | 20 | 20 | 08.34 | -18 | 22 | 14.0 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 09 | 27.76055 | 20 | 17 | 57.88 | -19 | 03 | 48.5 | 0.2+ | 1+ | 073 |
| 16 | 1969 | 09 | 27.77370 | 20 | 17 | 58.06 | -19 | 03 | 48.9 | 0.2+ | 1+ | 073 |
| 16 | 1969 | 09 | 30.73644 | 20 | 18 | 51.13 | -19 | 04 | 28.2 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 09 | 30.74614 | 20 | 18 | 51.30 | -19 | 04 | 28.3 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 10 | 01.78392 | 20 | 19 | 12.98 | -19 | 04 | 30.3 | 0.3+ | 0 | 073 |
| 16 | 1969 | 10 | 01.80193 | 20 | 19 | 13.36 | -19 | 04 | 30.2 | 0.3+ | 0 | 073 |

| | | | | | | | | | | | | |
|----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 16 | 1969 | 10 | 07.72149 | 20 | 21 | 48.26 | -19 | 02 | 40.6 | 0.3+ | 0 | 073 |
| 16 | 1969 | 10 | 07.73049 | 20 | 21 | 48.47 | -19 | 02 | 40.9 | 0.3+ | 0 | 073 |
| 16 | 1969 | 10 | 13.71900 | 20 | 25 | 15.92 | -18 | 57 | 24.8 | 0.3+ | 0 | 073 |
| 16 | 1969 | 10 | 13.72830 | 20 | 25 | 16.27 | -18 | 57 | 24.3 | 0.3+ | 0 | 073 |
| 16 | 1969 | 10 | 16.70540 | 20 | 27 | 17.53 | -18 | 53 | 29.3 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 10 | 16.71630 | 20 | 27 | 17.96 | -18 | 53 | 28.9 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 10 | 21.69886 | 20 | 31 | 05.94 | -18 | 45 | 01.7 | 0.3+ | 0 | 073 |
| 16 | 1969 | 10 | 21.70717 | 20 | 31 | 06.30 | -18 | 45 | 01.5 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 10 | 22.69335 | 20 | 31 | 54.99 | -18 | 43 | 03.9 | 0.3+ | 1+ | 073 |
| 16 | 1969 | 10 | 22.70408 | 20 | 31 | 55.52 | -18 | 43 | 03.1 | 0.3+ | 1+ | 073 |
| 16 | 1970 | 11 | 04.00894 | 05 | 07 | 49.50 | +18 | 17 | 08.4 | 0.3+ | 1+ | 073 |
| 16 | 1970 | 11 | 04.01649 | 05 | 07 | 49.29 | +18 | 17 | 07.5 | 0.3+ | 1+ | 073 |
| 16 | 1970 | 11 | 05.96396 | 05 | 06 | 51.79 | +18 | 13 | 50.8 | 0.4+ | 1+ | 073 |
| 16 | 1970 | 11 | 05.97435 | 05 | 06 | 51.45 | +18 | 13 | 49.7 | 0.4+ | 1+ | 073 |
| 16 | 1970 | 11 | 18.92123 | 04 | 58 | 11.96 | +17 | 51 | 39.3 | 0.3+ | 1+ | 073 |
| 16 | 1970 | 11 | 18.93092 | 04 | 58 | 11.49 | +17 | 51 | 37.9 | 0.3+ | 1+ | 073 |
| 16 | 1970 | 11 | 20.90400 | 04 | 56 | 35.02 | +17 | 48 | 16.5 | 0.3+ | 1+ | 073 |
| 16 | 1970 | 12 | 10.84131 | 04 | 38 | 33.70 | +17 | 18 | 51.0 | 0.3+ | 1+ | 073 |
| 16 | 1970 | 12 | 10.84875 | 04 | 38 | 33.29 | +17 | 18 | 50.4 | 0.3+ | 1+ | 073 |
| 16 | 1971 | 02 | 12.71371 | 04 | 25 | 13.05 | +18 | 23 | 16.5 | 0.3+ | 1+ | 073 |
| 16 | 1971 | 02 | 12.72617 | 04 | 25 | 13.38 | +18 | 23 | 18.2 | 0.3+ | 1+ | 073 |
| 17 | 1969 | 05 | 19.97390 | 17 | 19 | 41.90 | -14 | 41 | 22.6 | 0.0 | 0 | 073 |
| 17 | 1969 | 05 | 19.98222 | 17 | 19 | 41.56 | -14 | 41 | 22.1 | 0.0 | 0 | 073 |
| 17 | 1969 | 05 | 27.94862 | 17 | 13 | 33.59 | -14 | 39 | 36.7 | 0.0 | 1- | 073 |
| 17 | 1969 | 05 | 27.95589 | 17 | 13 | 33.18 | -14 | 39 | 36.8 | 0.0 | 1- | 073 |
| 17 | 1969 | 06 | 12.85197 | 16 | 58 | 57.21 | -14 | 52 | 35.4 | 0.0 | 0 | 073 |
| 17 | 1969 | 06 | 12.85995 | 16 | 58 | 56.74 | -14 | 52 | 36.2 | 0.0 | 0 | 073 |
| 17 | 1969 | 07 | 09.83092 | 16 | 40 | 15.45 | -16 | 09 | 02.8 | 0.0 | 0 | 073 |
| 17 | 1969 | 07 | 09.84685 | 16 | 40 | 15.07 | -16 | 09 | 06.1 | 0.0 | 0 | 073 |
| 18 | 1971 | 10 | 25.97652 | 06 | 13 | 04.07 | +07 | 44 | 25.4 | | | 073 |
| 18 | 1971 | 10 | 25.97998 | 06 | 13 | 04.16 | +07 | 44 | 24.0 | | | 073 |
| 18 | 1971 | 10 | 25.98413 | 06 | 13 | 04.26 | +07 | 44 | 22.3 | | | 073 |
| 18 | 1971 | 11 | 23.98456 | 06 | 09 | 58.35 | +05 | 33 | 46.3 | | | 073 |
| 18 | 1971 | 11 | 23.98664 | 06 | 09 | 58.25 | +05 | 33 | 46.1 | | | 073 |
| 18 | 1971 | 11 | 27.96391 | 06 | 07 | 06.57 | +05 | 26 | 28.2 | | | 073 |
| 18 | 1971 | 11 | 27.96599 | 06 | 07 | 06.46 | +05 | 26 | 27.9 | | | 073 |
| 18 | 1971 | 11 | 27.96807 | 06 | 07 | 06.38 | +05 | 26 | 27.7 | | | 073 |
| 18 | 1971 | 12 | 07.94553 | 05 | 58 | 03.86 | +05 | 24 | 34.0 | | | 073 |
| 18 | 1971 | 12 | 07.94760 | 05 | 58 | 03.71 | +05 | 24 | 33.7 | | | 073 |
| 18 | 1971 | 12 | 07.94968 | 05 | 58 | 03.60 | +05 | 24 | 34.1 | | | 073 |
| 18 | 1971 | 12 | 11.86962 | 05 | 53 | 59.82 | +05 | 30 | 39.2 | | | 073 |
| 18 | 1971 | 12 | 11.87585 | 05 | 53 | 59.39 | +05 | 30 | 40.2 | | | 073 |
| 18 | 1971 | 12 | 13.88459 | 05 | 51 | 50.47 | +05 | 35 | 19.4 | | | 073 |
| 18 | 1971 | 12 | 13.88632 | 05 | 51 | 50.37 | +05 | 35 | 19.5 | | | 073 |
| 18 | 1971 | 12 | 13.88806 | 05 | 51 | 50.25 | +05 | 35 | 19.8 | | | 073 |
| 18 | 1971 | 12 | 18.89312 | 05 | 46 | 25.03 | +05 | 51 | 21.1 | | | 073 |
| 18 | 1971 | 12 | 18.89433 | 05 | 46 | 24.95 | +05 | 51 | 21.8 | | | 073 |
| 18 | 1971 | 12 | 18.89572 | 05 | 46 | 24.86 | +05 | 51 | 21.8 | | | 073 |
| 18 | 1971 | 12 | 25.86750 | 05 | 39 | 03.10 | +06 | 23 | 37.5 | | | 073 |
| 18 | 1971 | 12 | 25.87373 | 05 | 39 | 02.71 | +06 | 23 | 39.4 | | | 073 |
| 19 | 1969 | 04 | 21.89042 | 12 | 36 | 05.50 | -04 | 30 | 29.1 | 0.0 | 2+ | 073 |
| 19 | 1969 | 04 | 21.90219 | 12 | 36 | 04.98 | -04 | 30 | 25.0 | 0.0 | 2+ | 073 |
| 19 | 1969 | 04 | 26.84668 | 12 | 32 | 37.57 | -04 | 05 | 18.0 | 0.0 | 1+ | 073 |
| 19 | 1969 | 04 | 26.86053 | 12 | 32 | 36.98 | -04 | 05 | 13.8 | 0.1- | 1+ | 073 |
| 19 | 1969 | 05 | 05.86319 | 12 | 27 | 33.21 | -03 | 27 | 13.7 | 0.1- | 0 | 073 |
| 19 | 1969 | 05 | 05.87393 | 12 | 27 | 32.91 | -03 | 27 | 11.4 | 0.1- | 1+ | 073 |
| 19 | 1969 | 05 | 08.78956 | 12 | 26 | 15.88 | -03 | 17 | 07.7 | 0.1- | 2+ | 073 |
| 19 | 1969 | 05 | 14.79259 | 12 | 24 | 17.28 | -03 | 00 | 55.2 | 0.1- | 1+ | 073 |
| 19 | 1969 | 05 | 14.80990 | 12 | 24 | 17.77 | -03 | 00 | 53.1 | 0.1- | 1+ | 073 |

| | | | | | | | | | | | | |
|----|------|----|----------|----|----|-------|-----|----|------|------|-----|-----|
| 19 | 1969 | 05 | 15.82934 | 12 | 24 | 02.55 | -02 | 58 | 40.3 | 0.1- | 1+ | 073 |
| 19 | 1969 | 05 | 15.84180 | 12 | 24 | 02.39 | -02 | 58 | 38.7 | 0.1- | 1+ | 073 |
| 19 | 1969 | 05 | 16.80064 | 12 | 23 | 49.53 | -02 | 56 | 41.2 | 0.1- | 1+ | 073 |
| 19 | 1969 | 05 | 16.81866 | 12 | 23 | 49.30 | -02 | 56 | 39.7 | 0.1- | 1+ | 073 |
| 19 | 1969 | 05 | 19.83631 | 12 | 23 | 17.35 | -02 | 51 | 30.7 | 0.1- | 1+ | 073 |
| 19 | 1969 | 05 | 19.86145 | 12 | 23 | 17.04 | -02 | 51 | 28.3 | 0.1- | 1+ | 073 |
| 21 | 1970 | 11 | 03.98516 | 05 | 00 | 29.30 | +21 | 12 | 12.1 | 0.3- | 1- | 073 |
| 21 | 1970 | 11 | 03.99676 | 05 | 00 | 28.83 | +21 | 12 | 11.7 | 0.3- | 1- | 073 |
| 21 | 1970 | 11 | 04.95699 | 04 | 59 | 49.93 | +21 | 12 | 08.4 | 0.3- | 1- | 073 |
| 21 | 1970 | 11 | 04.96876 | 04 | 59 | 50.40 | +21 | 12 | 08.6 | 0.3- | 1- | 073 |
| 21 | 1970 | 11 | 05.99651 | 04 | 59 | 06.81 | +21 | 12 | 02.8 | 0.3- | 2- | 073 |
| 21 | 1970 | 11 | 06.00966 | 04 | 59 | 06.24 | +21 | 12 | 02.4 | 0.3- | 2- | 073 |
| 21 | 1970 | 11 | 06.02282 | 04 | 59 | 05.67 | +21 | 12 | 02.8 | 0.3- | 2- | 073 |
| 21 | 1970 | 11 | 18.89595 | 04 | 47 | 46.24 | +21 | 07 | 40.3 | 0.3- | 1- | 073 |
| 21 | 1970 | 11 | 18.90703 | 04 | 47 | 45.57 | +21 | 07 | 40.0 | 0.3- | 1- | 073 |
| 22 | 1969 | 05 | 16.92426 | 15 | 47 | 32.85 | -16 | 51 | 26.2 | 0.0 | 0 | 073 |
| 22 | 1969 | 05 | 16.93811 | 15 | 47 | 32.04 | -16 | 51 | 26.8 | 0.0 | 0 | 073 |
| 22 | 1969 | 06 | 13.84231 | 15 | 23 | 57.63 | -17 | 09 | 56.7 | 0.0 | 0 | 073 |
| 22 | 1969 | 06 | 13.85616 | 15 | 23 | 57.08 | -17 | 09 | 57.5 | 0.0 | 0 | 073 |
| 22 | 1969 | 06 | 19.85364 | 15 | 20 | 12.80 | -17 | 17 | 24.3 | 0.0 | 0 | 073 |
| 22 | 1969 | 06 | 19.86749 | 15 | 20 | 12.32 | -17 | 17 | 25.4 | 0.0 | 0 | 073 |
| 22 | 1971 | 12 | 11.82143 | 03 | 26 | 53.46 | +17 | 35 | 41.4 | 0.0 | 1- | 073 |
| 22 | 1971 | 12 | 11.82836 | 03 | 26 | 53.11 | +17 | 35 | 42.6 | 0.0 | 1- | 073 |
| 23 | 1969 | 05 | 16.88825 | 15 | 00 | 17.01 | -11 | 58 | 31.5 | 0.0 | 0 | 073 |
| 23 | 1969 | 05 | 16.90349 | 15 | 00 | 16.21 | -11 | 58 | 32.0 | 0.1+ | 0 | 073 |
| 23 | 1971 | 10 | 15.89298 | 01 | 31 | 43.40 | -03 | 02 | 35.8 | 0.0 | 0 | 073 |
| 23 | 1971 | 10 | 15.89336 | 01 | 31 | 43.13 | -03 | 02 | 36.9 | 0.0 | 0 | 073 |
| 25 | 1969 | 11 | 13.81301 | 01 | 57 | 13.82 | +08 | 22 | 02.2 | 0.1+ | 6+ | 073 |
| 25 | 1969 | 11 | 13.82201 | 01 | 57 | 13.46 | +08 | 21 | 54.7 | 0.1+ | 6+ | 073 |
| 26 | 1971 | 09 | 13.88782 | 23 | 50 | 32.72 | -05 | 52 | 50.8 | 0.6+ | 1+ | 073 |
| 26 | 1971 | 09 | 13.89821 | 23 | 50 | 32.16 | -05 | 52 | 54.2 | 0.6+ | 1+ | 073 |
| 27 | 1971 | 07 | 17.94060 | 21 | 23 | 20.25 | -16 | 48 | 58.9 | 0.0 | 2- | 073 |
| 27 | 1971 | 07 | 17.95098 | 21 | 23 | 19.84 | -16 | 49 | 00.6 | 0.0 | 2- | 073 |
| 27 | 1971 | 08 | 04.88610 | 21 | 07 | 11.98 | -18 | 13 | 58.9 | 0.0 | 3+ | 073 |
| 27 | 1971 | 08 | 04.89061 | 21 | 07 | 11.73 | -18 | 13 | 40.3 | 0.0 | 3+ | 073 |
| 28 | 1971 | 07 | 17.80867 | 19 | 25 | 42.65 | -14 | 34 | 18.6 | 0.1+ | 4- | 073 |
| 28 | 1971 | 07 | 17.82182 | 19 | 25 | 43.18 | -14 | 34 | 18.8 | 0.1+ | 4- | 073 |
| 29 | 1970 | 11 | 04.71529 | 00 | 43 | 08.05 | +09 | 51 | 38.0 | 0.0 | 1+ | 073 |
| 29 | 1970 | 11 | 04.72498 | 00 | 43 | 07.69 | +09 | 51 | 36.6 | 0.0 | 1+ | 073 |
| 29 | 1970 | 11 | 05.76667 | 00 | 42 | 28.78 | +09 | 48 | 59.9 | 0.1+ | 2+ | 073 |
| 29 | 1970 | 11 | 18.73563 | 00 | 36 | 55.75 | +09 | 26 | 37.3 | 0.0 | 2+ | 073 |
| 29 | 1970 | 11 | 18.74878 | 00 | 36 | 55.54 | +09 | 26 | 36.5 | 0.0 | 2+ | 073 |
| 29 | 1970 | 11 | 20.72151 | 00 | 36 | 30.71 | +09 | 25 | 07.3 | 0.0 | 2+ | 073 |
| 29 | 1970 | 11 | 20.74021 | 00 | 36 | 30.46 | +09 | 25 | 06.4 | 0.0 | 2+ | 073 |
| 30 | 1969 | 04 | 14.83089 | 09 | 48 | 19.08 | +11 | 25 | 25.7 | 1.8- | 8+ | 073 |
| 30 | 1969 | 04 | 14.85028 | 09 | 48 | 18.99 | +11 | 25 | 26.2 | 1.8- | 8+ | 073 |
| 30 | 1969 | 04 | 21.82775 | 09 | 49 | 46.81 | +11 | 18 | 30.7 | 2.1- | 10+ | 073 |
| 30 | 1969 | 04 | 21.84644 | 09 | 49 | 47.10 | +11 | 18 | 28.9 | 2.1- | 10+ | 073 |
| 30 | 1971 | 12 | 03.82837 | 03 | 12 | 47.94 | +21 | 36 | 36.9 | 0.0 | 1+ | 073 |
| 30 | 1971 | 12 | 03.83144 | 03 | 12 | 47.61 | +21 | 36 | 34.9 | 0.0 | 1+ | 073 |
| 30 | 1971 | 12 | 11.80654 | 03 | 07 | 21.08 | +21 | 03 | 06.5 | 0.0 | 1+ | 073 |
| 30 | 1971 | 12 | 11.81347 | 03 | 07 | 20.86 | +21 | 03 | 05.1 | 0.0 | 1+ | 073 |
| 32 | 1971 | 12 | 13.86176 | 05 | 43 | 18.59 | +17 | 19 | 40.8 | 0.1+ | 3- | 073 |
| 32 | 1971 | 12 | 13.87423 | 05 | 43 | 17.82 | +17 | 19 | 39.6 | 0.2+ | 3- | 073 |
| 32 | 1971 | 12 | 25.84674 | 05 | 31 | 13.77 | +16 | 56 | 19.0 | 0.3+ | 2- | 073 |
| 32 | 1971 | 12 | 25.85851 | 05 | 31 | 13.11 | +16 | 56 | 17.9 | 0.2+ | 2- | 073 |
| 34 | 1971 | 08 | 05.01561 | 23 | 26 | 42.20 | -00 | 04 | 13.4 | 0.1- | 1- | 073 |
| 34 | 1971 | 08 | 21.95332 | 23 | 17 | 55.62 | -01 | 14 | 01.3 | 0.8- | 3- | 073 |
| 34 | 1971 | 08 | 21.96370 | 23 | 17 | 55.21 | -01 | 14 | 04.1 | 0.8- | 3- | 073 |

| | | | | | | | | | | | | |
|----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 34 | 1971 | 08 | 30.90592 | 23 | 11 | 33.89 | -02 | 05 | 21.6 | 0.8- | 2- | 073 |
| 34 | 1971 | 08 | 30.91631 | 23 | 11 | 33.18 | -02 | 05 | 25.4 | 0.8- | 2- | 073 |
| 34 | 1971 | 09 | 11.85381 | 23 | 02 | 05.16 | -03 | 22 | 25.4 | 0.0 | 1- | 073 |
| 34 | 1971 | 09 | 11.86050 | 23 | 02 | 04.64 | -03 | 22 | 29.4 | 0.0 | 1- | 073 |
| 36 | 1969 | 10 | 07.81351 | 00 | 37 | 17.87 | +15 | 29 | 48.6 | 0.1- | 0 | 073 |
| 36 | 1969 | 10 | 07.82260 | 00 | 37 | 17.13 | +15 | 29 | 53.2 | 0.1- | 0 | 073 |
| 36 | 1969 | 10 | 11.85945 | 00 | 31 | 56.40 | +16 | 01 | 15.6 | 0.1+ | 0 | 073 |
| 36 | 1969 | 10 | 11.87261 | 00 | 31 | 55.91 | +16 | 01 | 16.4 | 0.1+ | 1+ | 073 |
| 36 | 1969 | 10 | 13.81383 | 00 | 29 | 23.95 | +16 | 15 | 23.6 | 0.1+ | 1+ | 073 |
| 36 | 1969 | 10 | 13.82335 | 00 | 29 | 23.14 | +16 | 15 | 27.5 | 0.1+ | 1+ | 073 |
| 36 | 1969 | 10 | 16.81949 | 00 | 25 | 34.44 | +16 | 35 | 58.9 | 0.0 | 1+ | 073 |
| 36 | 1969 | 10 | 16.82919 | 00 | 25 | 33.72 | +16 | 36 | 03.2 | 0.0 | 1+ | 073 |
| 36 | 1969 | 10 | 17.91061 | 00 | 24 | 13.11 | +16 | 43 | 07.0 | 0.1- | 0 | 073 |
| 36 | 1969 | 10 | 17.92377 | 00 | 24 | 12.12 | +16 | 43 | 12.2 | 0.1- | 0 | 073 |
| 36 | 1969 | 10 | 21.76534 | 00 | 19 | 39.35 | +17 | 06 | 56.7 | 0.1- | 0 | 073 |
| 36 | 1969 | 10 | 21.77434 | 00 | 19 | 38.69 | +17 | 06 | 59.9 | 0.1- | 0 | 073 |
| 37 | 1971 | 08 | 22.00457 | 00 | 53 | 16.59 | +04 | 45 | 16.7 | 0.0 | 2- | 073 |
| 37 | 1971 | 08 | 22.01073 | 00 | 53 | 16.46 | +04 | 45 | 17.1 | 0.0 | 2- | 073 |
| 37 | 1971 | 08 | 30.98141 | 00 | 51 | 15.04 | +04 | 42 | 52.7 | 0.1+ | 1- | 073 |
| 37 | 1971 | 10 | 23.82930 | 00 | 11 | 10.22 | +01 | 51 | 56.5 | 0.1+ | 1- | 073 |
| 37 | 1971 | 10 | 23.83554 | 00 | 11 | 09.98 | +01 | 51 | 55.9 | 0.1+ | 1- | 073 |
| 39 | 1971 | 01 | 26.00319 | 10 | 27 | 58.96 | +06 | 41 | 52.3 | | | 073 |
| 39 | 1971 | 01 | 26.01046 | 10 | 27 | 58.72 | +06 | 41 | 54.8 | | | 073 |
| 39 | 1971 | 01 | 29.95800 | 10 | 25 | 42.33 | +07 | 04 | 39.4 | | | 073 |
| 39 | 1971 | 01 | 29.96978 | 10 | 25 | 41.93 | +07 | 04 | 43.6 | | | 073 |
| 39 | 1971 | 02 | 03.95057 | 10 | 22 | 27.88 | +07 | 36 | 13.6 | | | 073 |
| 39 | 1971 | 02 | 03.95819 | 10 | 22 | 27.55 | +07 | 36 | 16.5 | | | 073 |
| 39 | 1971 | 02 | 03.96788 | 10 | 22 | 27.17 | +07 | 36 | 20.3 | | | 073 |
| 39 | 1971 | 02 | 13.91700 | 10 | 15 | 05.13 | +08 | 46 | 16.4 | | | 073 |
| 39 | 1971 | 02 | 13.92462 | 10 | 15 | 04.77 | +08 | 46 | 19.5 | | | 073 |
| 39 | 1971 | 02 | 13.93432 | 10 | 15 | 04.29 | +08 | 46 | 24.0 | | | 073 |
| 39 | 1971 | 03 | 16.85557 | 09 | 52 | 20.30 | +12 | 25 | 29.8 | | | 073 |
| 39 | 1971 | 03 | 16.86804 | 09 | 52 | 19.86 | +12 | 25 | 34.2 | | | 073 |
| 39 | 1971 | 03 | 18.81753 | 09 | 51 | 16.51 | +12 | 36 | 54.4 | | | 073 |
| 39 | 1971 | 03 | 18.83138 | 09 | 51 | 16.10 | +12 | 36 | 59.0 | | | 073 |
| 39 | 1971 | 03 | 20.77188 | 09 | 50 | 17.40 | +12 | 47 | 47.7 | | | 073 |
| 39 | 1971 | 03 | 20.78573 | 09 | 50 | 16.96 | +12 | 47 | 52.2 | | | 073 |
| 39 | 1971 | 03 | 25.80183 | 09 | 48 | 05.99 | +13 | 13 | 33.8 | | | 073 |
| 39 | 1971 | 03 | 25.81707 | 09 | 48 | 05.81 | +13 | 13 | 36.7 | | | 073 |
| 40 | 1971 | 01 | 12.68850 | 02 | 30 | 46.18 | +11 | 58 | 16.7 | | | 073 |
| 40 | 1971 | 01 | 12.69957 | 02 | 30 | 46.57 | +11 | 58 | 19.9 | | | 073 |
| 40 | 1971 | 01 | 16.72675 | 02 | 33 | 36.03 | +12 | 23 | 01.9 | | | 073 |
| 40 | 1971 | 01 | 16.73367 | 02 | 33 | 36.32 | +12 | 23 | 04.6 | | | 073 |
| 40 | 1971 | 01 | 16.74406 | 02 | 33 | 36.77 | +12 | 23 | 08.4 | | | 073 |
| 40 | 1971 | 01 | 28.71832 | 02 | 44 | 15.01 | +13 | 43 | 03.4 | | | 073 |
| 40 | 1971 | 01 | 28.73010 | 02 | 44 | 15.76 | +13 | 43 | 08.0 | | | 073 |
| 40 | 1971 | 01 | 29.68581 | 02 | 45 | 15.05 | +13 | 49 | 52.2 | | | 073 |
| 41 | 1971 | 03 | 18.84662 | 10 | 35 | 11.08 | +03 | 09 | 42.0 | 3.6- | 6+ | 073 |
| 41 | 1971 | 03 | 18.85839 | 10 | 35 | 10.56 | +03 | 09 | 51.8 | 3.6- | 6+ | 073 |
| 41 | 1971 | 03 | 20.82730 | 10 | 34 | 00.12 | +03 | 37 | 09.9 | 3.6- | 6+ | 073 |
| 41 | 1971 | 03 | 20.83907 | 10 | 33 | 59.67 | +03 | 37 | 19.6 | 3.6- | 6+ | 073 |
| 41 | 1971 | 03 | 23.83674 | 10 | 32 | 20.68 | +04 | 18 | 18.9 | 3.6- | 6+ | 073 |
| 41 | 1971 | 03 | 23.85267 | 10 | 32 | 20.10 | +04 | 18 | 32.0 | 3.6- | 6+ | 073 |
| 41 | 1971 | 03 | 25.85931 | 10 | 31 | 20.15 | +04 | 45 | 28.1 | 3.5- | 5+ | 073 |
| 41 | 1971 | 03 | 25.87040 | 10 | 31 | 19.79 | +04 | 45 | 37.1 | 3.5- | 5+ | 073 |
| 42 | 1970 | 04 | 02.97236 | 12 | 58 | 09.43 | +07 | 49 | 48.6 | 1.0+ | 5- | 073 |
| 42 | 1970 | 04 | 02.98552 | 12 | 58 | 08.88 | +07 | 49 | 52.1 | 1.0+ | 5- | 073 |
| 42 | 1971 | 10 | 11.85579 | 01 | 24 | 20.40 | -07 | 29 | 30.7 | 0.2+ | 1- | 073 |
| 42 | 1971 | 10 | 11.86480 | 01 | 24 | 20.79 | -07 | 29 | 29.1 | 0.2+ | 1- | 073 |

| | | | | | | | | | | | | |
|----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 42 | 1971 | 10 | 15.84835 | 01 | 20 | 25.55 | -07 | 36 | 37.6 | 0.1+ | 1- | 073 |
| 42 | 1971 | 10 | 15.85804 | 01 | 20 | 24.95 | -07 | 36 | 38.8 | 0.1+ | 1- | 073 |
| 43 | 1969 | 10 | 07.87356 | 01 | 49 | 14.91 | +16 | 59 | 30.7 | 0.1- | 0 | 073 |
| 43 | 1969 | 10 | 07.88216 | 01 | 49 | 14.40 | +16 | 59 | 28.0 | 0.1- | 0 | 073 |
| 43 | 1969 | 10 | 08.86419 | 01 | 48 | 15.67 | +16 | 53 | 48.3 | 0.2- | 0 | 073 |
| 43 | 1969 | 10 | 08.87527 | 01 | 48 | 14.95 | +16 | 53 | 44.3 | 0.2- | 0 | 073 |
| 43 | 1969 | 10 | 13.86898 | 01 | 43 | 06.43 | +16 | 22 | 37.3 | 0.0 | 1+ | 073 |
| 43 | 1969 | 10 | 13.87754 | 01 | 43 | 05.86 | +16 | 22 | 33.9 | 0.0 | 1+ | 073 |
| 43 | 1969 | 10 | 16.87801 | 01 | 39 | 56.15 | +16 | 02 | 18.3 | 0.1- | 0 | 073 |
| 43 | 1969 | 10 | 16.88670 | 01 | 39 | 55.60 | +16 | 02 | 14.7 | 0.1- | 0 | 073 |
| 43 | 1969 | 10 | 21.81728 | 01 | 34 | 44.82 | +15 | 27 | 05.7 | 0.1+ | 1+ | 073 |
| 43 | 1969 | 10 | 21.82593 | 01 | 34 | 44.28 | +15 | 27 | 02.0 | 0.1+ | 1+ | 073 |
| 43 | 1969 | 11 | 01.86932 | 01 | 23 | 59.27 | +14 | 05 | 31.3 | 0.1+ | 1+ | 073 |
| 43 | 1969 | 11 | 01.87971 | 01 | 23 | 58.70 | +14 | 05 | 27.4 | 0.1+ | 1+ | 073 |
| 43 | 1969 | 11 | 13.78777 | 01 | 15 | 11.70 | +12 | 45 | 13.5 | 0.0 | 0 | 073 |
| 43 | 1969 | 11 | 13.79918 | 01 | 15 | 11.28 | +12 | 45 | 09.5 | 0.0 | 0 | 073 |
| 43 | 1971 | 02 | 15.83428 | 09 | 09 | 06.62 | +11 | 25 | 10.1 | 0.1+ | 1- | 073 |
| 44 | 1971 | 07 | 17.96414 | 21 | 33 | 01.65 | -14 | 34 | 13.9 | 0.0 | 0 | 073 |
| 44 | 1971 | 07 | 17.97176 | 21 | 33 | 01.99 | -14 | 34 | 11.7 | 0.0 | 0 | 073 |
| 44 | 1971 | 08 | 10.89467 | 21 | 12 | 41.41 | -16 | 40 | 02.4 | 0.1- | 1- | 073 |
| 44 | 1971 | 08 | 10.90159 | 21 | 12 | 41.08 | -16 | 40 | 05.4 | 0.1- | 1- | 073 |
| 44 | 1971 | 08 | 18.84342 | 21 | 05 | 16.72 | -17 | 22 | 25.9 | 0.1- | 0 | 073 |
| 44 | 1971 | 08 | 18.84965 | 21 | 05 | 16.35 | -17 | 22 | 27.7 | 0.1- | 0 | 073 |
| 44 | 1971 | 09 | 01.78551 | 20 | 53 | 49.23 | -18 | 25 | 56.2 | 0.1+ | 0 | 073 |
| 44 | 1971 | 09 | 01.79452 | 20 | 53 | 48.71 | -18 | 25 | 58.2 | 0.1+ | 0 | 073 |
| 44 | 1971 | 09 | 04.76730 | 20 | 51 | 51.61 | -18 | 36 | 30.3 | 0.1+ | 0 | 073 |
| 44 | 1971 | 09 | 04.77595 | 20 | 51 | 51.23 | -18 | 36 | 28.2 | 0.1+ | 0 | 073 |
| 48 | 1971 | 05 | 13.92746 | 16 | 26 | 57.67 | -13 | 38 | 09.8 | 0.1- | 1- | 073 |
| 48 | 1971 | 05 | 13.94408 | 16 | 26 | 56.80 | -13 | 38 | 06.8 | 0.1- | 1- | 073 |
| 48 | 1971 | 05 | 25.87148 | 16 | 17 | 58.19 | -13 | 01 | 08.3 | 0.0 | 0 | 073 |
| 48 | 1971 | 05 | 25.89156 | 16 | 17 | 57.31 | -13 | 01 | 04.1 | 0.0 | 0 | 073 |
| 48 | 1971 | 06 | 21.80400 | 15 | 58 | 55.52 | -12 | 07 | 54.8 | 0.1- | 0 | 073 |
| 48 | 1971 | 06 | 21.81924 | 15 | 58 | 55.05 | -12 | 07 | 54.1 | 0.1- | 0 | 073 |
| 48 | 1971 | 06 | 24.80411 | 15 | 57 | 18.83 | -12 | 05 | 39.0 | 0.1- | 0 | 073 |
| 48 | 1971 | 06 | 24.81692 | 15 | 57 | 18.44 | -12 | 05 | 38.3 | 0.1- | 0 | 073 |
| 51 | 1970 | 01 | 15.77541 | 03 | 20 | 45.02 | +05 | 15 | 12.6 | 0.1+ | 0 | 073 |
| 51 | 1970 | 01 | 15.79238 | 03 | 20 | 45.25 | +05 | 15 | 16.9 | 0.1+ | 0 | 073 |
| 51 | 1971 | 04 | 27.87674 | 13 | 40 | 33.58 | +00 | 13 | 46.2 | 0.1- | 0 | 073 |
| 51 | 1971 | 04 | 27.88852 | 13 | 40 | 32.88 | +00 | 13 | 53.2 | 0.1- | 0 | 073 |
| 51 | 1971 | 05 | 11.80157 | 13 | 31 | 21.34 | +01 | 45 | 02.8 | 0.1- | 0 | 073 |
| 51 | 1971 | 05 | 11.82234 | 13 | 31 | 20.68 | +01 | 45 | 08.6 | 0.1- | 0 | 073 |
| 51 | 1971 | 05 | 13.81044 | 13 | 30 | 21.27 | +01 | 54 | 00.1 | 0.1- | 0 | 073 |
| 51 | 1971 | 05 | 13.82776 | 13 | 30 | 20.77 | +01 | 54 | 04.4 | 0.1- | 0 | 073 |
| 51 | 1971 | 05 | 18.79769 | 13 | 28 | 17.82 | +02 | 11 | 29.3 | 0.1- | 0 | 073 |
| 51 | 1971 | 05 | 18.81154 | 13 | 28 | 17.49 | +02 | 11 | 31.7 | 0.1- | 0 | 073 |
| 51 | 1971 | 05 | 19.83372 | 13 | 27 | 56.78 | +02 | 14 | 16.3 | 0.1- | 0 | 073 |
| 51 | 1971 | 05 | 19.84273 | 13 | 27 | 56.68 | +02 | 14 | 17.2 | 0.1- | 0 | 073 |
| 52 | 1970 | 10 | 26.82330 | 00 | 41 | 56.46 | -06 | 08 | 33.7 | 0.1+ | 0 | 073 |
| 52 | 1970 | 10 | 26.83785 | 00 | 41 | 55.90 | -06 | 08 | 36.6 | 0.1+ | 0 | 073 |
| 54 | 1970 | 11 | 02.76507 | 00 | 48 | 09.85 | +24 | 36 | 22.8 | 0.0 | 0 | 073 |
| 54 | 1970 | 11 | 02.78273 | 00 | 48 | 09.05 | +24 | 36 | 15.5 | 0.0 | 0 | 073 |
| 57 | 1971 | 10 | 09.77122 | 23 | 26 | 03.76 | +04 | 04 | 29.5 | 0.1+ | 1- | 073 |
| 57 | 1971 | 10 | 09.78230 | 23 | 26 | 04.68 | +04 | 04 | 35.3 | 0.1+ | 1- | 073 |
| 57 | 1971 | 10 | 11.75191 | 23 | 25 | 07.11 | +03 | 46 | 26.0 | 0.1+ | 1- | 073 |
| 57 | 1971 | 10 | 11.76369 | 23 | 25 | 06.74 | +03 | 46 | 19.0 | 0.1+ | 1+ | 073 |
| 57 | 1971 | 10 | 15.73997 | 23 | 23 | 23.84 | +03 | 10 | 41.4 | 0.1+ | 1+ | 073 |
| 57 | 1971 | 10 | 15.75139 | 23 | 23 | 23.54 | +03 | 10 | 36.1 | 0.1+ | 1+ | 073 |
| 59 | 1971 | 07 | 12.81919 | 18 | 03 | 38.18 | -10 | 41 | 30.1 | 0.0 | 0 | 073 |
| 59 | 1971 | 07 | 12.82508 | 18 | 03 | 37.88 | -10 | 41 | 30.9 | 0.0 | 0 | 073 |

| | | | | | | | | | | | | |
|----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 59 | 1971 | 07 | 12.82785 | 18 | 03 | 37.69 | -10 | 41 | 31.6 | 0.0 | 0 | 073 |
| 59 | 1971 | 07 | 13.81299 | 18 | 02 | 51.90 | -10 | 44 | 06.9 | 0.0 | 0 | 073 |
| 59 | 1971 | 07 | 13.81507 | 18 | 02 | 51.72 | -10 | 44 | 07.6 | 0.0 | 0 | 073 |
| 59 | 1971 | 07 | 13.81680 | 18 | 02 | 51.63 | -10 | 44 | 06.8 | 0.0 | 0 | 073 |
| 59 | 1971 | 07 | 16.80871 | 18 | 00 | 37.19 | -10 | 52 | 33.9 | 0.1+ | 0 | 073 |
| 59 | 1971 | 07 | 16.81085 | 18 | 00 | 37.30 | -10 | 52 | 33.8 | 0.1+ | 0 | 073 |
| 59 | 1971 | 07 | 16.81288 | 18 | 00 | 37.36 | -10 | 52 | 33.6 | 0.1+ | 0 | 073 |
| 60 | 1971 | 09 | 13.84350 | 22 | 27 | 55.39 | -06 | 42 | 20.4 | 0.0 | 0 | 073 |
| 60 | 1971 | 09 | 13.85074 | 22 | 27 | 54.39 | -06 | 42 | 25.7 | 0.0 | 0 | 073 |
| 63 | 1970 | 11 | 04.87423 | 02 | 03 | 57.23 | +21 | 19 | 25.1 | 0.0 | 1- | 073 |
| 63 | 1970 | 11 | 04.87908 | 02 | 03 | 56.90 | +21 | 19 | 23.5 | 0.0 | 1- | 073 |
| 63 | 1970 | 11 | 04.88462 | 02 | 03 | 56.55 | +21 | 19 | 22.0 | 0.0 | 1- | 073 |
| 63 | 1970 | 11 | 16.77639 | 01 | 52 | 51.63 | +20 | 20 | 33.8 | 0.0 | 1+ | 073 |
| 63 | 1970 | 11 | 16.80167 | 01 | 52 | 50.32 | +20 | 20 | 26.1 | 0.0 | 0 | 073 |
| 63 | 1970 | 12 | 01.77991 | 01 | 43 | 29.61 | +19 | 11 | 34.0 | 0.0 | 0 | 073 |
| 63 | 1970 | 12 | 01.79461 | 01 | 43 | 29.22 | +19 | 11 | 30.5 | 0.0 | 0 | 073 |
| 64 | 1971 | 04 | 27.82688 | 13 | 07 | 01.16 | -09 | 20 | 51.7 | 0.0 | 1- | 073 |
| 64 | 1971 | 04 | 27.84073 | 13 | 07 | 00.57 | -09 | 20 | 48.1 | 0.0 | 1- | 073 |
| 64 | 1971 | 04 | 29.84287 | 13 | 05 | 35.38 | -09 | 11 | 40.2 | 0.0 | 0 | 073 |
| 64 | 1971 | 04 | 29.85602 | 13 | 05 | 34.80 | -09 | 11 | 36.8 | 0.0 | 0 | 073 |
| 65 | 1971 | 08 | 12.00793 | 00 | 15 | 09.46 | +00 | 16 | 44.6 | 0.2- | 1- | 073 |
| 65 | 1971 | 08 | 12.02005 | 00 | 15 | 09.28 | +00 | 16 | 43.1 | 0.2- | 1- | 073 |
| 65 | 1971 | 08 | 21.97825 | 00 | 12 | 02.39 | -00 | 14 | 52.7 | 0.1+ | 1+ | 073 |
| 65 | 1971 | 08 | 21.98864 | 00 | 12 | 02.14 | -00 | 14 | 55.0 | 0.1+ | 1+ | 073 |
| 65 | 1971 | 09 | 10.93687 | 00 | 01 | 26.12 | -01 | 45 | 11.0 | 0.0 | 1- | 073 |
| 65 | 1971 | 09 | 10.95210 | 00 | 01 | 25.48 | -01 | 45 | 15.7 | 0.0 | 1- | 073 |
| 65 | 1971 | 10 | 21.73814 | 23 | 37 | 12.94 | -04 | 48 | 03.3 | 0.0 | 0 | 073 |
| 65 | 1971 | 10 | 21.75095 | 23 | 37 | 13.25 | -04 | 48 | 01.2 | 0.0 | 0 | 073 |
| 66 | 1971 | 12 | 13.82090 | 04 | 43 | 45.38 | +27 | 26 | 10.8 | 0.4- | 1- | 073 |
| 66 | 1971 | 12 | 13.84014 | 04 | 43 | 43.87 | +27 | 26 | 08.6 | 0.4- | 1- | 073 |
| 67 | 1971 | 10 | 15.90445 | 01 | 47 | 53.69 | +10 | 30 | 08.5 | 0.4- | 4- | 073 |
| 67 | 1971 | 10 | 15.91414 | 01 | 47 | 53.32 | +10 | 30 | 05.1 | 0.4- | 4- | 073 |
| 67 | 1971 | 10 | 23.85908 | 01 | 40 | 42.89 | +09 | 21 | 32.7 | 0.3- | 3- | 073 |
| 67 | 1971 | 10 | 23.86809 | 01 | 40 | 42.37 | +09 | 21 | 28.0 | 0.3- | 3- | 073 |
| 67 | 1971 | 11 | 05.80172 | 01 | 30 | 13.28 | +07 | 39 | 36.7 | 0.3- | 3- | 073 |
| 67 | 1971 | 11 | 05.81141 | 01 | 30 | 12.81 | +07 | 39 | 33.3 | 0.3- | 3- | 073 |
| 67 | 1971 | 11 | 09.90557 | 01 | 27 | 37.48 | +07 | 13 | 18.5 | 0.2- | 2- | 073 |
| 67 | 1971 | 11 | 09.91180 | 01 | 27 | 37.23 | +07 | 13 | 16.3 | 0.2- | 2- | 073 |
| 67 | 1971 | 11 | 10.81867 | 01 | 26 | 58.58 | +07 | 06 | 38.8 | 0.2- | 2- | 073 |
| 67 | 1971 | 11 | 10.82098 | 01 | 26 | 58.37 | +07 | 06 | 35.4 | 0.0 | 2- | 073 |
| 68 | 1969 | 10 | 07.85497 | 01 | 07 | 11.58 | -00 | 21 | 11.8 | 0.0 | 3- | 073 |
| 68 | 1969 | 10 | 07.86311 | 01 | 07 | 11.11 | -00 | 21 | 12.5 | 0.0 | 3- | 073 |
| 68 | 1969 | 10 | 13.85122 | 01 | 01 | 39.39 | -00 | 27 | 59.3 | 0.1+ | 1- | 073 |
| 68 | 1969 | 10 | 13.85816 | 01 | 01 | 39.00 | -00 | 27 | 59.4 | 0.1+ | 1- | 073 |
| 68 | 1969 | 10 | 21.83563 | 00 | 54 | 39.93 | -00 | 30 | 51.9 | 0.0 | 1- | 073 |
| 68 | 1969 | 10 | 21.84255 | 00 | 54 | 39.57 | -00 | 30 | 51.9 | 0.0 | 1- | 073 |
| 68 | 1969 | 11 | 01.81007 | 00 | 46 | 43.93 | -00 | 20 | 25.8 | 0.1- | 1- | 073 |
| 68 | 1969 | 11 | 01.83054 | 00 | 46 | 43.41 | -00 | 20 | 24.4 | 0.1- | 1- | 073 |
| 68 | 1971 | 02 | 15.77231 | 08 | 12 | 44.63 | +31 | 19 | 33.5 | 0.0 | 0 | 073 |
| 68 | 1971 | 02 | 15.80347 | 08 | 12 | 43.86 | +31 | 19 | 33.8 | 0.0 | 0 | 073 |
| 69 | 1971 | 08 | 04.87018 | 20 | 25 | 11.06 | -08 | 45 | 32.8 | 0.0 | 0 | 073 |
| 69 | 1971 | 08 | 04.87814 | 20 | 25 | 10.72 | -08 | 45 | 34.5 | 0.0 | 0 | 073 |
| 71 | 1971 | 09 | 22.83974 | 22 | 54 | 14.43 | +16 | 44 | 57.9 | 0.1+ | 1+ | 073 |
| 71 | 1971 | 09 | 22.85151 | 22 | 54 | 13.82 | +16 | 44 | 56.1 | 0.1+ | 1+ | 073 |
| 71 | 1971 | 10 | 04.80459 | 22 | 44 | 03.31 | +16 | 05 | 05.9 | 0.0 | 0 | 073 |
| 71 | 1971 | 10 | 04.81810 | 22 | 44 | 02.78 | +16 | 05 | 02.4 | 0.0 | 0 | 073 |
| 71 | 1971 | 10 | 11.72248 | 22 | 39 | 25.03 | +15 | 37 | 11.7 | 0.0 | 0 | 073 |
| 71 | 1971 | 10 | 11.73668 | 22 | 39 | 24.50 | +15 | 37 | 08.6 | 0.0 | 0 | 073 |
| 71 | 1971 | 10 | 15.71226 | 22 | 37 | 13.81 | +15 | 20 | 29.9 | 0.0 | 0 | 073 |

| | | | | | | | | | | | | |
|----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 71 | 1971 | 10 | 15.72438 | 22 | 37 | 13.48 | +15 | 20 | 27.4 | 0.0 | 0 | 073 |
| 72 | 1971 | 08 | 16.89977 | 22 | 13 | 37.29 | -01 | 06 | 28.9 | 0.0 | 0 | 073 |
| 72 | 1971 | 08 | 16.91016 | 22 | 13 | 36.72 | -01 | 06 | 32.8 | 0.0 | 0 | 073 |
| 72 | 1971 | 08 | 20.87010 | 22 | 10 | 18.09 | -01 | 31 | 53.9 | 0.0 | 0 | 073 |
| 72 | 1971 | 08 | 20.89372 | 22 | 10 | 18.08 | -01 | 31 | 51.3 | 0.0 | 0 | 073 |
| 75 | 1971 | 08 | 04.93978 | 21 | 58 | 01.21 | -19 | 53 | 43.5 | 0.0 | 0 | 073 |
| 75 | 1971 | 08 | 04.94462 | 21 | 58 | 00.99 | -19 | 53 | 43.4 | 0.0 | 0 | 073 |
| 77 | 1971 | 10 | 09.84531 | 00 | 15 | 04.56 | +02 | 18 | 19.9 | 0.2+ | 1+ | 073 |
| 77 | 1971 | 10 | 09.85778 | 00 | 15 | 03.91 | +02 | 18 | 15.7 | 0.1+ | 1+ | 073 |
| 77 | 1971 | 10 | 11.81009 | 00 | 14 | 07.49 | +02 | 10 | 10.0 | 0.2+ | 2+ | 073 |
| 77 | 1971 | 10 | 11.82117 | 00 | 14 | 06.94 | +02 | 10 | 07.2 | 0.2+ | 2+ | 073 |
| 77 | 1971 | 10 | 15.79987 | 00 | 10 | 59.01 | +01 | 54 | 24.6 | 0.1+ | 2+ | 073 |
| 77 | 1971 | 10 | 15.81095 | 00 | 10 | 58.48 | +01 | 54 | 22.3 | 0.1+ | 2+ | 073 |
| 77 | 1971 | 10 | 23.80922 | 00 | 05 | 30.02 | +01 | 27 | 26.3 | 0.2+ | 3+ | 073 |
| 77 | 1971 | 10 | 23.81892 | 00 | 05 | 29.69 | +01 | 27 | 25.3 | 0.2+ | 3+ | 073 |
| 79 | 1970 | 10 | 26.75128 | 00 | 20 | 53.27 | +03 | 32 | 26.7 | 0.1+ | 0 | 073 |
| 79 | 1970 | 10 | 26.76513 | 00 | 20 | 52.83 | +03 | 32 | 20.6 | 0.1+ | 0 | 073 |
| 79 | 1970 | 10 | 28.80158 | 00 | 20 | 00.01 | +03 | 18 | 30.0 | 0.1+ | 0 | 073 |
| 79 | 1970 | 10 | 28.81126 | 00 | 19 | 59.77 | +03 | 18 | 26.0 | 0.1+ | 0 | 073 |
| 80 | 1969 | 09 | 30.79254 | 00 | 38 | 51.69 | +13 | 51 | 53.5 | 0.1- | 1- | 073 |
| 80 | 1969 | 09 | 30.80120 | 00 | 38 | 51.31 | +13 | 51 | 47.1 | 0.1- | 1- | 073 |
| 80 | 1969 | 10 | 07.69435 | 00 | 34 | 06.87 | +12 | 24 | 17.4 | 0.1- | 1- | 073 |
| 80 | 1969 | 10 | 07.70230 | 00 | 34 | 06.55 | +12 | 24 | 11.4 | 0.1- | 1- | 073 |
| 80 | 1969 | 10 | 16.77890 | 00 | 28 | 37.49 | +10 | 25 | 25.4 | 0.1- | 0 | 073 |
| 80 | 1969 | 10 | 16.78798 | 00 | 28 | 37.15 | +10 | 25 | 18.3 | 0.1- | 0 | 073 |
| 80 | 1969 | 10 | 21.65243 | 00 | 26 | 15.71 | +09 | 21 | 29.0 | 0.2- | 2- | 073 |
| 80 | 1969 | 10 | 21.65960 | 00 | 26 | 15.50 | +09 | 21 | 23.8 | 0.2- | 2- | 073 |
| 82 | 1969 | 10 | 17.80707 | 23 | 56 | 44.15 | -01 | 49 | 47.9 | 0.4+ | 3+ | 073 |
| 82 | 1969 | 10 | 17.83616 | 23 | 56 | 42.93 | -01 | 49 | 54.6 | 0.4+ | 3+ | 073 |
| 82 | 1971 | 02 | 03.87612 | 08 | 21 | 10.97 | +24 | 41 | 19.6 | 0.1+ | 0 | 073 |
| 82 | 1971 | 02 | 03.89482 | 08 | 21 | 09.94 | +24 | 41 | 21.6 | 0.1+ | 0 | 073 |
| 82 | 1971 | 02 | 13.83319 | 08 | 13 | 11.69 | +24 | 53 | 45.3 | 0.0 | 0 | 073 |
| 82 | 1971 | 02 | 13.85082 | 08 | 13 | 09.50 | +24 | 53 | 46.5 | 0.0 | 0 | 073 |
| 82 | 1971 | 02 | 26.83607 | 08 | 06 | 45.17 | +24 | 49 | 07.9 | 0.0 | 0 | 073 |
| 82 | 1971 | 02 | 26.84038 | 08 | 06 | 44.91 | +24 | 49 | 07.2 | 0.0 | 0 | 073 |
| 83 | 1969 | 11 | 29.75721 | 02 | 23 | 16.75 | +17 | 17 | 15.3 | 0.3+ | 2+ | 073 |
| 83 | 1969 | 11 | 29.76968 | 02 | 23 | 16.11 | +17 | 17 | 13.2 | 0.3+ | 2+ | 073 |
| 83 | 1971 | 03 | 16.91271 | 11 | 50 | 28.44 | +06 | 15 | 02.1 | 0.5+ | 4- | 073 |
| 83 | 1971 | 03 | 16.92379 | 11 | 50 | 27.68 | +06 | 15 | 04.9 | 0.5+ | 4- | 073 |
| 83 | 1971 | 03 | 18.89406 | 11 | 48 | 32.37 | +06 | 22 | 22.7 | 0.5+ | 4- | 073 |
| 83 | 1971 | 03 | 18.90514 | 11 | 48 | 31.38 | +06 | 22 | 25.3 | 0.5+ | 4- | 073 |
| 83 | 1971 | 03 | 20.85015 | 11 | 46 | 37.64 | +06 | 29 | 20.0 | 0.4+ | 4- | 073 |
| 83 | 1971 | 03 | 20.86331 | 11 | 46 | 36.85 | +06 | 29 | 22.8 | 0.4+ | 4- | 073 |
| 83 | 1971 | 03 | 23.86548 | 11 | 43 | 42.07 | +06 | 39 | 23.5 | 0.4+ | 3- | 073 |
| 83 | 1971 | 03 | 23.88071 | 11 | 43 | 41.31 | +06 | 39 | 26.3 | 0.4+ | 3- | 073 |
| 83 | 1971 | 03 | 25.88321 | 11 | 41 | 46.61 | +06 | 45 | 33.9 | 0.4+ | 4- | 073 |
| 83 | 1971 | 03 | 25.89706 | 11 | 41 | 45.80 | +06 | 45 | 36.4 | 0.4+ | 4- | 073 |
| 83 | 1971 | 04 | 16.82184 | 11 | 25 | 05.73 | +07 | 12 | 21.2 | 0.4+ | 4- | 073 |
| 86 | 1969 | 10 | 09.87254 | 00 | 21 | 04.13 | -06 | 16 | 51.3 | 0.8+ | 4+ | 073 |
| 86 | 1969 | 10 | 09.89035 | 00 | 21 | 03.17 | -06 | 16 | 55.1 | 0.8+ | 4+ | 073 |
| 86 | 1969 | 10 | 15.83434 | 00 | 16 | 59.42 | -06 | 32 | 56.1 | 0.9+ | 4+ | 073 |
| 86 | 1969 | 10 | 15.85165 | 00 | 16 | 58.70 | -06 | 32 | 58.4 | 0.9+ | 4+ | 073 |
| 90 | 1970 | 03 | 30.90436 | 10 | 57 | 34.37 | +09 | 54 | 16.4 | 0.0 | 0 | 073 |
| 90 | 1970 | 03 | 30.93034 | 10 | 57 | 33.41 | +09 | 54 | 21.0 | 0.0 | 0 | 073 |
| 90 | 1970 | 04 | 01.88540 | 10 | 56 | 24.87 | +10 | 00 | 15.3 | 0.1- | 0 | 073 |
| 90 | 1970 | 04 | 01.91102 | 10 | 56 | 24.16 | +10 | 00 | 18.5 | 0.1- | 1+ | 073 |
| 93 | 1971 | 04 | 29.80547 | 12 | 35 | 42.15 | -08 | 12 | 14.1 | 0.6+ | 4- | 073 |
| 93 | 1971 | 04 | 29.82140 | 12 | 35 | 41.51 | -08 | 12 | 12.6 | 0.6+ | 4- | 073 |
| 95 | 1969 | 11 | 14.87193 | 02 | 21 | 22.33 | +21 | 16 | 10.5 | 0.1- | 1- | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 95 | 1969 | 11 | 14.88578 | 02 | 21 | 21.76 | +21 | 16 | 02.9 | 0.1- | 1- | 073 |
| 97 | 1971 | 12 | 11.83703 | 04 | 04 | 08.82 | -01 | 55 | 41.8 | 1.0+ | 5+ | 073 |
| 97 | 1971 | 12 | 11.84395 | 04 | 04 | 08.55 | -01 | 55 | 40.7 | 1.0+ | 5+ | 073 |
| 100 | 1970 | 04 | 06.90846 | 11 | 51 | 16.58 | +08 | 47 | 10.9 | 0.1+ | 1- | 073 |
| 100 | 1970 | 04 | 06.93755 | 11 | 51 | 15.56 | +08 | 47 | 18.8 | 0.1+ | 1- | 073 |
| 100 | 1971 | 06 | 23.86536 | 17 | 34 | 34.34 | -16 | 35 | 06.2 | 0.0 | 1- | 073 |
| 100 | 1971 | 06 | 23.87921 | 17 | 34 | 33.59 | -16 | 35 | 07.8 | 0.0 | 1- | 073 |
| 103 | 1971 | 12 | 25.88413 | 05 | 59 | 08.92 | +17 | 33 | 01.4 | 4.0- | 0 | 073 |
| 103 | 1971 | 12 | 25.89313 | 05 | 59 | 08.43 | +17 | 33 | 01.9 | 4.0- | 0 | 073 |
| 107 | 1971 | 09 | 13.76871 | 21 | 13 | 16.61 | -09 | 36 | 32.4 | 0.0 | 1- | 073 |
| 107 | 1971 | 09 | 13.77771 | 21 | 13 | 16.37 | -09 | 36 | 35.0 | 0.0 | 4- | 073 |
| 109 | 1971 | 11 | 09.07593 | 02 | 57 | 57.55 | +29 | 04 | 28.8 | 1.9+ | 4+ | 073 |
| 109 | 1971 | 11 | 09.08075 | 02 | 57 | 57.25 | +29 | 04 | 29.1 | 1.9+ | 4+ | 073 |
| 109 | 1971 | 12 | 03.78058 | 02 | 37 | 47.96 | +28 | 58 | 37.8 | 2.4+ | 4+ | 073 |
| 109 | 1971 | 12 | 03.78993 | 02 | 37 | 48.27 | +28 | 58 | 39.1 | 2.4+ | 4+ | 073 |
| 109 | 1971 | 12 | 11.69261 | 02 | 34 | 03.49 | +28 | 44 | 13.9 | 2.4+ | 3+ | 073 |
| 109 | 1971 | 12 | 11.70369 | 02 | 34 | 03.34 | +28 | 44 | 13.3 | 2.4+ | 3+ | 073 |
| 111 | 1971 | 10 | 15.92765 | 02 | 18 | 25.88 | +22 | 15 | 24.7 | 1.2- | 6- | 073 |
| 111 | 1971 | 10 | 15.93838 | 02 | 18 | 25.38 | +22 | 15 | 23.0 | 1.2- | 6- | 073 |
| 111 | 1971 | 10 | 23.87917 | 02 | 11 | 12.13 | +21 | 48 | 36.2 | 1.2- | 6- | 073 |
| 111 | 1971 | 10 | 23.88748 | 02 | 11 | 11.66 | +21 | 48 | 34.4 | 1.2- | 6- | 073 |
| 111 | 1971 | 11 | 10.82941 | 01 | 54 | 22.47 | +20 | 18 | 35.7 | 1.1- | 6- | 073 |
| 111 | 1971 | 11 | 10.83910 | 01 | 54 | 21.99 | +20 | 18 | 32.7 | 1.1- | 6- | 073 |
| 111 | 1971 | 12 | 03.70960 | 01 | 40 | 31.75 | +18 | 17 | 08.3 | 1.0- | 6- | 073 |
| 111 | 1971 | 12 | 03.72033 | 01 | 40 | 31.55 | +18 | 17 | 05.7 | 1.0- | 6- | 073 |
| 114 | 1971 | 06 | 05.88789 | 17 | 13 | 25.76 | -15 | 07 | 55.5 | 0.1+ | 0 | 073 |
| 114 | 1971 | 06 | 05.89794 | 17 | 13 | 25.43 | -15 | 07 | 54.3 | 0.1+ | 0 | 073 |
| 122 | 1971 | 11 | 09.90557 | 01 | 26 | 47.09 | +07 | 50 | 58.4 | 0.1+ | 1- | 073 |
| 122 | 1971 | 11 | 09.91180 | 01 | 26 | 46.85 | +07 | 50 | 56.8 | 0.1+ | 0 | 073 |
| 124 | 1971 | 12 | 18.72708 | 03 | 44 | 21.73 | +15 | 58 | 52.1 | 0.0 | 0 | 073 |
| 124 | 1971 | 12 | 18.73747 | 03 | 44 | 21.28 | +15 | 58 | 50.5 | 0.0 | 0 | 073 |
| 125 | 1971 | 05 | 26.92692 | 15 | 56 | 33.99 | -12 | 58 | 58.9 | 0.7+ | 4- | 073 |
| 125 | 1971 | 05 | 26.94042 | 15 | 56 | 34.04 | -12 | 58 | 58.5 | 0.7+ | 4- | 073 |
| 126 | 1971 | 11 | 09.92980 | 01 | 32 | 46.91 | +10 | 46 | 37.4 | 0.2+ | 1+ | 073 |
| 126 | 1971 | 11 | 09.94158 | 01 | 32 | 46.37 | +10 | 46 | 35.2 | 0.2+ | 1+ | 073 |
| 126 | 1971 | 11 | 11.79308 | 01 | 31 | 18.39 | +10 | 40 | 59.2 | 0.1+ | 1+ | 073 |
| 126 | 1971 | 11 | 11.80347 | 01 | 31 | 17.93 | +10 | 40 | 57.4 | 0.1+ | 1+ | 073 |
| 128 | 1970 | 03 | 30.95007 | 12 | 12 | 48.27 | +08 | 13 | 00.0 | 0.7+ | 3- | 073 |
| 128 | 1970 | 03 | 30.96323 | 12 | 12 | 47.61 | +08 | 13 | 03.4 | 0.7+ | 3- | 073 |
| 129 | 1971 | 04 | 29.91212 | 15 | 37 | 37.98 | +02 | 33 | 24.3 | 0.0 | 0 | 073 |
| 129 | 1971 | 04 | 29.92459 | 15 | 37 | 37.48 | +02 | 33 | 28.5 | 0.0 | 0 | 073 |
| 129 | 1971 | 05 | 11.85940 | 15 | 29 | 04.81 | +03 | 25 | 16.1 | 0.0 | 0 | 073 |
| 129 | 1971 | 05 | 11.87325 | 15 | 29 | 04.21 | +03 | 25 | 18.3 | 0.0 | 0 | 073 |
| 129 | 1971 | 05 | 12.91942 | 15 | 28 | 15.84 | +03 | 28 | 16.9 | 0.0 | 0 | 073 |
| 129 | 1971 | 05 | 12.92807 | 15 | 28 | 15.40 | +03 | 28 | 18.1 | 0.0 | 0 | 073 |
| 129 | 1971 | 05 | 13.90149 | 15 | 27 | 30.33 | +03 | 30 | 48.7 | 0.0 | 0 | 073 |
| 129 | 1971 | 05 | 13.91326 | 15 | 27 | 29.76 | +03 | 30 | 50.9 | 0.0 | 0 | 073 |
| 129 | 1971 | 05 | 18.88699 | 15 | 23 | 38.15 | +03 | 39 | 46.3 | 0.0 | 0 | 073 |
| 129 | 1971 | 05 | 19.92169 | 15 | 22 | 51.12 | +03 | 40 | 45.8 | 0.1- | 0 | 073 |
| 129 | 1971 | 05 | 19.93069 | 15 | 22 | 50.65 | +03 | 40 | 46.0 | 0.1- | 0 | 073 |
| 129 | 1971 | 05 | 22.86823 | 15 | 20 | 37.57 | +03 | 41 | 58.8 | 0.1- | 0 | 073 |
| 129 | 1971 | 05 | 22.88138 | 15 | 20 | 37.03 | +03 | 41 | 58.8 | 0.1- | 0 | 073 |
| 129 | 1971 | 05 | 25.85694 | 15 | 18 | 24.17 | +03 | 40 | 42.7 | 0.0 | 0 | 073 |
| 130 | 1970 | 11 | 07.96335 | 03 | 37 | 38.15 | -18 | 05 | 30.7 | 0.0 | 0 | 073 |
| 130 | 1970 | 11 | 07.97166 | 03 | 37 | 37.76 | -18 | 05 | 33.6 | 0.0 | 0 | 073 |
| 130 | 1970 | 11 | 11.96628 | 03 | 34 | 34.01 | -18 | 20 | 59.6 | 0.0 | 0 | 073 |
| 130 | 1970 | 11 | 11.97459 | 03 | 34 | 33.74 | -18 | 21 | 01.4 | 0.0 | 0 | 073 |
| 137 | 1969 | 10 | 27.73580 | 23 | 14 | 21.16 | +01 | 17 | 06.2 | 0.0 | 0 | 073 |
| 137 | 1969 | 10 | 27.75796 | 23 | 14 | 21.16 | +01 | 16 | 57.2 | 0.0 | 0 | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 137 | 1969 | 10 | 31.76435 | 23 | 14 | 40.75 | +00 | 50 | 51.8 | 0.0 | 0 | 073 |
| 137 | 1969 | 10 | 31.78167 | 23 | 14 | 40.83 | +00 | 50 | 46.2 | 0.0 | 0 | 073 |
| 137 | 1969 | 11 | 03.75963 | 23 | 15 | 09.89 | +00 | 33 | 25.5 | 0.0 | 0 | 073 |
| 137 | 1969 | 11 | 03.78110 | 23 | 15 | 10.09 | +00 | 33 | 18.6 | 0.0 | 0 | 073 |
| 137 | 1969 | 11 | 14.71922 | 23 | 18 | 39.09 | -00 | 15 | 02.3 | 0.0 | 0 | 073 |
| 137 | 1969 | 11 | 14.73654 | 23 | 18 | 39.51 | -00 | 15 | 05.5 | 0.0 | 0 | 073 |
| 137 | 1970 | 12 | 21.85893 | 05 | 18 | 19.90 | +06 | 56 | 35.3 | 0.2+ | 3+ | 073 |
| 137 | 1970 | 12 | 21.87452 | 05 | 18 | 17.27 | +06 | 57 | 17.4 | 0.2+ | 3+ | 073 |
| 137 | 1971 | 01 | 04.80519 | 05 | 08 | 05.29 | +06 | 51 | 02.5 | 0.1- | 0 | 073 |
| 137 | 1971 | 01 | 04.81904 | 05 | 08 | 04.71 | +06 | 51 | 03.2 | 0.1- | 0 | 073 |
| 144 | 1971 | 10 | 23.89821 | 02 | 38 | 20.23 | +09 | 04 | 47.2 | 0.0 | 0 | 073 |
| 144 | 1971 | 10 | 23.90514 | 02 | 38 | 19.93 | +09 | 04 | 46.5 | 0.0 | 0 | 073 |
| 144 | 1971 | 11 | 09.87963 | 02 | 22 | 58.82 | +08 | 41 | 41.3 | 0.1- | 0 | 073 |
| 144 | 1971 | 11 | 09.89067 | 02 | 22 | 58.18 | +08 | 41 | 40.6 | 0.1- | 0 | 073 |
| 145 | 1971 | 06 | 05.83090 | 16 | 18 | 20.66 | -18 | 25 | 32.2 | 0.1+ | 0 | 073 |
| 145 | 1971 | 06 | 05.83387 | 16 | 18 | 19.88 | -18 | 25 | 34.0 | 0.1+ | 0 | 073 |
| 148 | 1971 | 06 | 21.83517 | 16 | 47 | 40.60 | +11 | 35 | 25.0 | 0.0 | 1- | 073 |
| 148 | 1971 | 06 | 21.84659 | 16 | 47 | 40.04 | +11 | 35 | 21.8 | 0.0 | 1- | 073 |
| 156 | 1970 | 10 | 30.00626 | 04 | 37 | 58.06 | +22 | 20 | 59.4 | 0.6+ | 3+ | 073 |
| 156 | 1970 | 10 | 30.03580 | 04 | 37 | 57.36 | +22 | 20 | 55.8 | 0.5+ | 3+ | 073 |
| 158 | 1971 | 08 | 21.92492 | 23 | 06 | 22.16 | -04 | 17 | 41.6 | 0.2- | 2- | 073 |
| 158 | 1971 | 08 | 21.93670 | 23 | 06 | 21.64 | -04 | 17 | 44.7 | 0.2- | 2- | 073 |
| 158 | 1971 | 08 | 26.93832 | 23 | 02 | 44.68 | -04 | 38 | 42.9 | 0.2- | 2- | 073 |
| 158 | 1971 | 08 | 26.95702 | 23 | 02 | 45.52 | -04 | 38 | 38.0 | 0.2- | 2- | 073 |
| 161 | 1971 | 02 | 03.98138 | 11 | 21 | 58.00 | +14 | 23 | 30.0 | 0.0 | 0 | 073 |
| 161 | 1971 | 02 | 03.99629 | 11 | 21 | 57.44 | +14 | 23 | 33.9 | 0.0 | 0 | 073 |
| 162 | 1970 | 03 | 06.82754 | 09 | 30 | 39.24 | +24 | 11 | 19.3 | 0.0 | 1- | 073 |
| 162 | 1970 | 03 | 06.85247 | 09 | 30 | 38.09 | +24 | 11 | 18.9 | 0.1- | 1- | 073 |
| 170 | 1971 | 03 | 16.78216 | 08 | 52 | 34.91 | +06 | 35 | 10.1 | 0.1+ | 2- | 073 |
| 170 | 1971 | 03 | 16.80398 | 08 | 52 | 35.42 | +06 | 35 | 10.8 | 0.1+ | 2+ | 073 |
| 170 | 1971 | 03 | 18.77771 | 08 | 51 | 53.25 | +06 | 34 | 28.4 | 0.1+ | 2- | 073 |
| 170 | 1971 | 03 | 18.79849 | 08 | 51 | 52.78 | +06 | 34 | 27.8 | 0.1+ | 2- | 073 |
| 171 | 1971 | 01 | 04.83566 | 05 | 17 | 47.37 | +22 | 14 | 54.9 | 0.1- | 0 | 073 |
| 171 | 1971 | 01 | 04.85296 | 05 | 17 | 46.55 | +22 | 14 | 55.1 | 0.1- | 0 | 073 |
| 174 | 1970 | 12 | 01.87645 | 04 | 34 | 49.38 | +38 | 58 | 06.8 | 0.7+ | 2- | 073 |
| 174 | 1970 | 12 | 01.89026 | 04 | 34 | 48.58 | +38 | 58 | 04.9 | 0.7+ | 2- | 073 |
| 174 | 1970 | 12 | 21.80180 | 04 | 14 | 41.88 | +37 | 43 | 37.9 | 0.7+ | 1- | 073 |
| 174 | 1970 | 12 | 21.81530 | 04 | 14 | 41.16 | +37 | 43 | 33.9 | 0.7+ | 1- | 073 |
| 177 | 1969 | 10 | 09.82545 | 23 | 36 | 09.30 | -01 | 48 | 27.4 | 0.1- | 0 | 073 |
| 177 | 1969 | 10 | 09.85315 | 23 | 36 | 08.25 | -01 | 48 | 32.4 | 0.1- | 0 | 073 |
| 184 | 1971 | 07 | 29.99937 | 22 | 40 | 00.25 | -08 | 32 | 02.0 | 0.0 | 0 | 073 |
| 184 | 1971 | 07 | 30.00699 | 22 | 39 | 59.99 | -08 | 32 | 03.3 | 0.0 | 0 | 073 |
| 184 | 1971 | 09 | 13.81511 | 22 | 09 | 18.20 | -11 | 16 | 42.3 | 0.0 | 0 | 073 |
| 184 | 1971 | 09 | 13.82688 | 22 | 09 | 17.73 | -11 | 16 | 44.4 | 0.0 | 0 | 073 |
| 191 | 1971 | 08 | 11.79844 | 19 | 06 | 46.12 | -11 | 10 | 31.3 | 0.0 | 1- | 073 |
| 191 | 1971 | 08 | 11.80744 | 19 | 06 | 45.83 | -11 | 10 | 34.7 | 0.0 | 1- | 073 |
| 191 | 1971 | 08 | 16.79450 | 19 | 04 | 29.45 | -11 | 39 | 57.6 | 0.0 | 0 | 073 |
| 191 | 1971 | 08 | 16.80351 | 19 | 04 | 29.22 | -11 | 40 | 01.0 | 0.0 | 0 | 073 |
| 192 | 1969 | 04 | 21.91535 | 13 | 28 | 32.67 | -17 | 10 | 08.0 | 0.2- | 1+ | 073 |
| 192 | 1969 | 04 | 21.92851 | 13 | 28 | 31.86 | -17 | 10 | 04.2 | 0.2- | 1+ | 073 |
| 192 | 1969 | 05 | 14.82514 | 13 | 09 | 04.52 | -15 | 24 | 42.7 | 0.2- | 1+ | 073 |
| 192 | 1969 | 05 | 14.83830 | 13 | 09 | 04.00 | -15 | 24 | 39.7 | 0.2- | 1+ | 073 |
| 192 | 1969 | 05 | 16.83216 | 13 | 07 | 48.51 | -15 | 16 | 11.8 | 0.2- | 2+ | 073 |
| 192 | 1969 | 05 | 16.84739 | 13 | 07 | 47.91 | -15 | 16 | 08.2 | 0.2- | 2+ | 073 |
| 192 | 1970 | 10 | 28.73267 | 22 | 00 | 05.61 | -09 | 10 | 54.1 | 0.3- | 4- | 073 |
| 192 | 1970 | 10 | 28.74166 | 22 | 00 | 06.08 | -09 | 10 | 49.5 | 0.3- | 4- | 073 |
| 192 | 1970 | 11 | 05.72076 | 22 | 07 | 45.47 | -08 | 01 | 15.2 | 0.4- | 4- | 073 |
| 192 | 1970 | 11 | 05.73334 | 22 | 07 | 46.26 | -08 | 01 | 08.5 | 0.4- | 4- | 073 |
| 192 | 1970 | 11 | 20.69485 | 22 | 26 | 25.25 | -05 | 33 | 23.9 | 0.3- | 3- | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 192 | 1970 | 11 | 20.70593 | 22 | 26 | 26.16 | -05 | 33 | 17.0 | 0.3- | 3- | 073 |
| 194 | 1970 | 12 | 21.97043 | 07 | 29 | 57.27 | +00 | 18 | 55.8 | 0.0 | 1+ | 073 |
| 194 | 1970 | 12 | 21.98117 | 07 | 29 | 56.74 | +00 | 18 | 56.6 | 0.0 | 1+ | 073 |
| 196 | 1970 | 11 | 12.97810 | 05 | 19 | 59.64 | +22 | 55 | 10.3 | 0.0 | 0 | 073 |
| 196 | 1970 | 11 | 12.98641 | 05 | 19 | 59.34 | +22 | 55 | 11.1 | 0.0 | 0 | 073 |
| 197 | 1971 | 12 | 13.78695 | 03 | 37 | 18.20 | +15 | 22 | 15.1 | 0.0 | 0 | 073 |
| 197 | 1971 | 12 | 13.80288 | 03 | 37 | 17.46 | +15 | 22 | 16.8 | 0.0 | 0 | 073 |
| 197 | 1971 | 12 | 18.69938 | 03 | 33 | 51.64 | +15 | 29 | 04.1 | 0.0 | 0 | 073 |
| 197 | 1971 | 12 | 18.71116 | 03 | 33 | 51.17 | +15 | 29 | 04.0 | 0.0 | 0 | 073 |
| 201 | 1971 | 07 | 12.92446 | 21 | 33 | 35.91 | -09 | 33 | 36.5 | 0.5+ | 1+ | 073 |
| 201 | 1971 | 07 | 12.93346 | 21 | 33 | 35.75 | -09 | 33 | 38.0 | 0.5+ | 1+ | 073 |
| 201 | 1971 | 07 | 13.93350 | 21 | 33 | 16.18 | -09 | 36 | 48.3 | 0.5+ | 1+ | 073 |
| 201 | 1971 | 07 | 13.94354 | 21 | 33 | 15.97 | -09 | 36 | 50.4 | 0.5+ | 1+ | 073 |
| 201 | 1971 | 07 | 15.94259 | 21 | 32 | 32.14 | -09 | 43 | 48.6 | 0.5+ | 1+ | 073 |
| 201 | 1971 | 07 | 15.95160 | 21 | 32 | 31.90 | -09 | 43 | 51.2 | 0.5+ | 1+ | 073 |
| 205 | 1971 | 07 | 12.94662 | 22 | 10 | 34.76 | +04 | 02 | 06.5 | 0.1- | 0 | 073 |
| 205 | 1971 | 07 | 12.96047 | 22 | 10 | 34.38 | +04 | 02 | 07.0 | 0.1- | 0 | 073 |
| 205 | 1971 | 07 | 26.97360 | 22 | 04 | 55.26 | +04 | 09 | 54.8 | 0.0 | 0 | 073 |
| 205 | 1971 | 07 | 26.98260 | 22 | 04 | 54.95 | +04 | 09 | 55.0 | 0.0 | 0 | 073 |
| 205 | 1971 | 07 | 29.97305 | 22 | 03 | 14.40 | +04 | 06 | 02.5 | 0.1- | 0 | 073 |
| 205 | 1971 | 07 | 29.98483 | 22 | 03 | 13.95 | +04 | 06 | 01.4 | 0.1- | 0 | 073 |
| 205 | 1971 | 07 | 30.96825 | 22 | 02 | 38.55 | +04 | 04 | 18.5 | 0.1- | 0 | 073 |
| 205 | 1971 | 07 | 30.97726 | 22 | 02 | 38.92 | +04 | 04 | 20.0 | 0.1- | 0 | 073 |
| 212 | 1971 | 11 | 05.68918 | 00 | 25 | 07.70 | +08 | 56 | 30.5 | 0.0 | 0 | 073 |
| 212 | 1971 | 11 | 05.70303 | 00 | 25 | 07.22 | +08 | 56 | 24.9 | 0.0 | 0 | 073 |
| 212 | 1971 | 11 | 10.70475 | 00 | 23 | 15.94 | +08 | 39 | 55.4 | 0.0 | 0 | 073 |
| 212 | 1971 | 11 | 10.71999 | 00 | 23 | 15.66 | +08 | 39 | 51.5 | 0.0 | 0 | 073 |
| 214 | 1971 | 12 | 21.82255 | 03 | 59 | 28.65 | +26 | 03 | 44.4 | 0.1- | 0 | 073 |
| 214 | 1971 | 12 | 21.83640 | 03 | 59 | 28.19 | +26 | 03 | 42.6 | 0.1- | 0 | 073 |
| 216 | 1971 | 12 | 27.66821 | 03 | 45 | 05.74 | +06 | 27 | 31.7 | 0.0 | 0 | 073 |
| 216 | 1971 | 12 | 27.67859 | 03 | 45 | 05.63 | +06 | 27 | 30.8 | 0.0 | 0 | 073 |
| 218 | 1971 | 07 | 23.85018 | 19 | 23 | 14.61 | -00 | 59 | 39.5 | | | 073 |
| 218 | 1971 | 07 | 23.86265 | 19 | 23 | 14.12 | -00 | 59 | 44.3 | | | 073 |
| 218 | 1971 | 08 | 07.83847 | 19 | 13 | 06.47 | -03 | 05 | 34.1 | 0.2- | 3+ | 073 |
| 218 | 1971 | 08 | 07.84401 | 19 | 13 | 06.29 | -03 | 05 | 37.2 | 0.2- | 3+ | 073 |
| 224 | 1970 | 10 | 29.97475 | 03 | 57 | 26.91 | +28 | 19 | 12.9 | 0.1+ | 1- | 073 |
| 224 | 1970 | 10 | 29.98860 | 03 | 57 | 26.21 | +28 | 19 | 12.9 | 0.1+ | 1- | 073 |
| 229 | 1971 | 11 | 09.85052 | 01 | 59 | 09.96 | +12 | 38 | 35.1 | 0.0 | 0 | 073 |
| 229 | 1971 | 11 | 09.86229 | 01 | 59 | 09.40 | +12 | 38 | 32.9 | 0.0 | 0 | 073 |
| 230 | 1969 | 04 | 14.88802 | 11 | 24 | 36.13 | -09 | 08 | 26.3 | 0.1+ | 1- | 073 |
| 230 | 1969 | 04 | 14.89633 | 11 | 24 | 35.89 | -09 | 08 | 22.3 | 0.1+ | 1- | 073 |
| 230 | 1969 | 04 | 21.86099 | 11 | 21 | 41.54 | -08 | 10 | 40.7 | 0.0 | 1- | 073 |
| 230 | 1969 | 04 | 21.87899 | 11 | 21 | 41.15 | -08 | 10 | 31.9 | 0.0 | 1- | 073 |
| 230 | 1969 | 04 | 24.80919 | 11 | 20 | 50.93 | -07 | 47 | 58.3 | 0.1+ | 1- | 073 |
| 230 | 1969 | 04 | 24.82650 | 11 | 20 | 50.62 | -07 | 47 | 50.8 | 0.1+ | 1- | 073 |
| 233 | 1971 | 10 | 09.87337 | 00 | 27 | 31.64 | +09 | 59 | 54.4 | 0.1- | 1- | 073 |
| 233 | 1971 | 10 | 09.89069 | 00 | 27 | 30.98 | +09 | 59 | 45.0 | 0.1- | 1- | 073 |
| 233 | 1971 | 10 | 11.83363 | 00 | 26 | 04.89 | +09 | 42 | 38.1 | 0.0 | 0 | 073 |
| 233 | 1971 | 10 | 11.84541 | 00 | 26 | 04.28 | +09 | 42 | 31.4 | 0.0 | 0 | 073 |
| 233 | 1971 | 10 | 15.82342 | 00 | 23 | 16.25 | +09 | 07 | 28.6 | 0.0 | 0 | 073 |
| 233 | 1971 | 10 | 15.83519 | 00 | 23 | 15.84 | +09 | 07 | 22.8 | 0.0 | 0 | 073 |
| 234 | 1971 | 04 | 29.93982 | 15 | 34 | 17.94 | +06 | 40 | 43.7 | 0.0 | 0 | 073 |
| 234 | 1971 | 04 | 29.95991 | 15 | 34 | 16.99 | +06 | 40 | 52.0 | 0.0 | 0 | 073 |
| 234 | 1971 | 05 | 13.86723 | 15 | 21 | 43.58 | +08 | 11 | 26.9 | 0.0 | 0 | 073 |
| 235 | 1971 | 10 | 25.90622 | 03 | 22 | 35.30 | +13 | 37 | 03.6 | 0.2+ | 1+ | 073 |
| 235 | 1971 | 10 | 25.92077 | 03 | 22 | 34.54 | +13 | 37 | 02.9 | 0.2+ | 1+ | 073 |
| 235 | 1971 | 11 | 10.89764 | 03 | 08 | 35.22 | +13 | 17 | 20.1 | 0.3+ | 2+ | 073 |
| 235 | 1971 | 11 | 10.91564 | 03 | 08 | 34.17 | +13 | 17 | 18.9 | 0.3+ | 2+ | 073 |
| 239 | 1971 | 08 | 30.84152 | 21 | 01 | 02.80 | -10 | 40 | 38.3 | 0.0 | 1- | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 239 | 1971 | 08 | 30.85329 | 21 | 01 | 02.34 | -10 | 40 | 41.9 | 0.0 | 1- | 073 |
| 241 | 1970 | 11 | 12.95213 | 05 | 20 | 09.99 | +25 | 48 | 45.2 | 0.0 | 0 | 073 |
| 241 | 1970 | 11 | 12.96667 | 05 | 20 | 09.40 | +25 | 48 | 43.8 | 0.0 | 0 | 073 |
| 241 | 1970 | 11 | 19.00329 | 05 | 15 | 54.26 | +25 | 38 | 10.5 | 0.0 | 0 | 073 |
| 241 | 1970 | 11 | 19.01901 | 05 | 15 | 53.58 | +25 | 38 | 08.8 | 0.0 | 0 | 073 |
| 248 | 1971 | 07 | 26.94866 | 21 | 48 | 06.98 | -06 | 33 | 34.8 | 0.0 | 1- | 073 |
| 248 | 1971 | 07 | 26.95905 | 21 | 48 | 06.54 | -06 | 33 | 34.8 | 0.0 | 1- | 073 |
| 248 | 1971 | 07 | 29.94743 | 21 | 45 | 51.34 | -06 | 39 | 55.1 | 0.1- | 1- | 073 |
| 248 | 1971 | 07 | 29.95782 | 21 | 45 | 50.81 | -06 | 39 | 55.8 | 0.1- | 1- | 073 |
| 248 | 1971 | 07 | 30.94192 | 21 | 45 | 04.32 | -06 | 42 | 18.7 | 0.1- | 1- | 073 |
| 248 | 1971 | 07 | 30.95334 | 21 | 45 | 04.75 | -06 | 42 | 20.7 | 0.1- | 1- | 073 |
| 248 | 1971 | 09 | 13.76871 | 21 | 09 | 50.12 | -09 | 40 | 15.1 | 0.0 | 1- | 073 |
| 248 | 1971 | 09 | 13.77771 | 21 | 09 | 49.84 | -09 | 40 | 17.3 | 0.0 | 1- | 073 |
| 250 | 1969 | 10 | 17.87875 | 00 | 29 | 09.87 | -01 | 33 | 33.4 | 0.0 | 0 | 073 |
| 250 | 1969 | 10 | 17.89607 | 00 | 29 | 09.01 | -01 | 33 | 33.8 | 0.0 | 0 | 073 |
| 250 | 1971 | 01 | 29.86487 | 07 | 28 | 51.26 | +41 | 29 | 43.7 | 0.0 | 0 | 073 |
| 250 | 1971 | 01 | 29.88149 | 07 | 28 | 50.43 | +41 | 29 | 42.3 | 0.0 | 0 | 073 |
| 250 | 1971 | 02 | 12.76634 | 07 | 18 | 34.01 | +40 | 50 | 07.1 | 0.1+ | 0 | 073 |
| 250 | 1971 | 02 | 12.78435 | 07 | 18 | 33.51 | +40 | 50 | 02.9 | 0.1+ | 0 | 073 |
| 250 | 1971 | 02 | 13.74039 | 07 | 18 | 02.13 | +40 | 45 | 57.8 | 0.0 | 0 | 073 |
| 250 | 1971 | 02 | 13.75251 | 07 | 18 | 03.12 | +40 | 46 | 04.6 | 0.1+ | 0 | 073 |
| 257 | 1971 | 11 | 09.85052 | 01 | 55 | 20.50 | +12 | 00 | 22.5 | 0.0 | 1- | 073 |
| 257 | 1971 | 11 | 09.86229 | 01 | 55 | 19.97 | +12 | 00 | 20.5 | 0.0 | 1- | 073 |
| 268 | 1971 | 11 | 09.93362 | 03 | 21 | 46.25 | +15 | 06 | 54.4 | 0.7- | 1- | 073 |
| 268 | 1971 | 11 | 09.94332 | 03 | 21 | 45.76 | +15 | 06 | 52.4 | 0.7- | 1- | 073 |
| 268 | 1971 | 12 | 11.72309 | 02 | 58 | 03.78 | +13 | 45 | 56.3 | 0.0 | 0 | 073 |
| 268 | 1971 | 12 | 11.74040 | 02 | 58 | 03.30 | +13 | 45 | 54.7 | 0.0 | 1+ | 073 |
| 268 | 1971 | 12 | 13.73572 | 02 | 56 | 58.22 | +13 | 42 | 54.5 | 0.0 | 0 | 073 |
| 268 | 1971 | 12 | 13.75165 | 02 | 56 | 57.72 | +13 | 42 | 53.7 | 0.0 | 0 | 073 |
| 268 | 1971 | 12 | 21.74325 | 02 | 53 | 23.82 | +13 | 34 | 36.3 | 0.0 | 1- | 073 |
| 268 | 1971 | 12 | 21.76195 | 02 | 53 | 23.41 | +13 | 34 | 35.6 | 0.0 | 0 | 073 |
| 275 | 1971 | 03 | 18.91934 | 12 | 08 | 45.63 | +05 | 26 | 01.1 | 0.1- | 2+ | 073 |
| 275 | 1971 | 03 | 18.93665 | 12 | 08 | 44.74 | +05 | 26 | 08.8 | 0.1- | 2+ | 073 |
| 275 | 1971 | 03 | 20.87681 | 12 | 07 | 16.28 | +05 | 39 | 54.3 | 0.2- | 2+ | 073 |
| 275 | 1971 | 03 | 20.89343 | 12 | 07 | 15.47 | +05 | 40 | 01.3 | 0.2- | 2+ | 073 |
| 275 | 1971 | 03 | 25.91126 | 12 | 03 | 25.00 | +06 | 14 | 14.8 | 0.0 | 1+ | 073 |
| 275 | 1971 | 03 | 25.92684 | 12 | 03 | 24.30 | +06 | 14 | 20.4 | 0.0 | 1+ | 073 |
| 275 | 1971 | 04 | 17.79515 | 11 | 49 | 06.87 | +08 | 01 | 32.1 | 0.1+ | 1+ | 073 |
| 275 | 1971 | 04 | 17.81419 | 11 | 49 | 06.38 | +08 | 01 | 35.0 | 0.1+ | 1+ | 073 |
| 275 | 1971 | 04 | 20.75641 | 11 | 47 | 59.61 | +08 | 07 | 45.5 | 0.0 | 1+ | 073 |
| 275 | 1971 | 04 | 20.78134 | 11 | 47 | 59.30 | +08 | 07 | 47.9 | 0.0 | 1+ | 073 |
| 275 | 1971 | 04 | 23.77968 | 11 | 47 | 04.53 | +08 | 12 | 08.5 | 0.0 | 1+ | 073 |
| 275 | 1971 | 04 | 23.79769 | 11 | 47 | 04.16 | +08 | 12 | 09.5 | 0.0 | 1+ | 073 |
| 283 | 1971 | 08 | 04.85563 | 20 | 17 | 05.54 | -19 | 26 | 32.1 | 0.0 | 1- | 073 |
| 283 | 1971 | 08 | 04.86083 | 20 | 17 | 05.28 | -19 | 26 | 31.2 | 0.0 | 1- | 073 |
| 287 | 1971 | 04 | 17.84881 | 12 | 05 | 50.58 | +12 | 34 | 01.2 | 0.0 | 0 | 073 |
| 287 | 1971 | 04 | 17.86405 | 12 | 05 | 49.92 | +12 | 34 | 05.4 | 0.0 | 0 | 073 |
| 287 | 1971 | 04 | 20.84507 | 12 | 04 | 08.55 | +12 | 45 | 18.3 | 0.1- | 0 | 073 |
| 287 | 1971 | 04 | 20.86238 | 12 | 04 | 07.96 | +12 | 45 | 21.9 | 0.1- | 0 | 073 |
| 291 | 1971 | 12 | 18.72708 | 03 | 42 | 37.14 | +16 | 20 | 41.9 | 0.0 | 2+ | 073 |
| 291 | 1971 | 12 | 18.73747 | 03 | 42 | 36.67 | +16 | 20 | 39.2 | 0.0 | 0 | 073 |
| 300 | 1971 | 10 | 25.87437 | 02 | 30 | 00.38 | +14 | 40 | 18.8 | 0.0 | 0 | 073 |
| 300 | 1971 | 10 | 25.88891 | 02 | 29 | 59.68 | +14 | 40 | 16.1 | 0.0 | 0 | 073 |
| 300 | 1971 | 11 | 10.85747 | 02 | 17 | 32.16 | +13 | 42 | 10.8 | 0.1+ | 0 | 073 |
| 300 | 1971 | 11 | 10.87409 | 02 | 17 | 33.03 | +13 | 42 | 16.0 | 0.1+ | 0 | 073 |
| 312 | 1970 | 10 | 26.78036 | 00 | 34 | 12.90 | +06 | 35 | 37.4 | 0.0 | 1- | 073 |
| 312 | 1970 | 10 | 26.79941 | 00 | 34 | 12.08 | +06 | 35 | 34.4 | 0.0 | 1- | 073 |
| 312 | 1970 | 10 | 28.82506 | 00 | 32 | 46.14 | +06 | 31 | 11.5 | 0.0 | 1- | 073 |
| 312 | 1970 | 10 | 28.84277 | 00 | 32 | 45.42 | +06 | 31 | 08.6 | 0.0 | 1- | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|-----|-----|
| 316 | 1971 | 10 | 25.90622 | 03 | 26 | 58.21 | +15 | 12 | 09.1 | 0.1- | 1- | 073 |
| 316 | 1971 | 10 | 25.92077 | 03 | 26 | 57.56 | +15 | 12 | 06.8 | 0.1- | 1- | 073 |
| 316 | 1971 | 11 | 10.89764 | 03 | 14 | 50.69 | +14 | 23 | 36.0 | 0.0 | 1- | 073 |
| 316 | 1971 | 11 | 10.91564 | 03 | 14 | 49.59 | +14 | 23 | 30.8 | 0.0 | 1- | 073 |
| 316 | 1971 | 12 | 13.73572 | 02 | 51 | 52.96 | +13 | 10 | 58.3 | 0.0 | 1- | 073 |
| 316 | 1971 | 12 | 13.75165 | 02 | 51 | 52.56 | +13 | 10 | 58.4 | 0.0 | 1- | 073 |
| 317 | 1971 | 11 | 09.93362 | 03 | 25 | 54.52 | +15 | 31 | 19.7 | 0.0 | 0 | 073 |
| 317 | 1971 | 11 | 09.94332 | 03 | 25 | 53.87 | +15 | 31 | 17.5 | 0.0 | 0 | 073 |
| 317 | 1971 | 12 | 11.72309 | 02 | 57 | 12.92 | +13 | 48 | 18.9 | 0.0 | 1+ | 073 |
| 317 | 1971 | 12 | 11.74040 | 02 | 57 | 12.20 | +13 | 48 | 19.4 | 0.0 | 0 | 073 |
| 317 | 1971 | 12 | 13.73572 | 02 | 56 | 10.35 | +13 | 45 | 42.6 | 0.0 | 0 | 073 |
| 317 | 1971 | 12 | 13.75165 | 02 | 56 | 09.86 | +13 | 45 | 42.8 | 0.0 | 0 | 073 |
| 317 | 1971 | 12 | 21.74325 | 02 | 53 | 19.26 | +13 | 41 | 39.7 | 0.0 | 0 | 073 |
| 317 | 1971 | 12 | 21.76195 | 02 | 53 | 18.87 | +13 | 41 | 40.8 | 0.0 | 0 | 073 |
| 318 | 1971 | 07 | 29.87817 | 20 | 00 | 40.50 | -10 | 37 | 55.5 | 0.0 | 4+ | 073 |
| 318 | 1971 | 07 | 29.88995 | 20 | 00 | 39.83 | -10 | 37 | 55.6 | 0.0 | 4+ | 073 |
| 322 | 1970 | 11 | 12.92131 | 05 | 15 | 18.71 | +24 | 14 | 14.8 | 0.0 | 1- | 073 |
| 322 | 1970 | 11 | 12.93724 | 05 | 15 | 18.00 | +24 | 14 | 10.8 | 0.0 | 1- | 073 |
| 324 | 1969 | 08 | 14.87918 | 22 | 58 | 58.14 | -04 | 41 | 41.0 | 0.6+ | 5+ | 073 |
| 324 | 1969 | 08 | 14.88818 | 22 | 58 | 57.74 | -04 | 41 | 36.8 | 0.6+ | 5+ | 073 |
| 324 | 1969 | 09 | 01.84079 | 22 | 42 | 58.40 | -02 | 36 | 56.1 | 0.8+ | 6+ | 073 |
| 324 | 1969 | 09 | 01.84841 | 22 | 42 | 57.92 | -02 | 36 | 53.3 | 0.8+ | 6+ | 073 |
| 324 | 1969 | 09 | 27.78894 | 22 | 20 | 06.72 | -00 | 10 | 10.5 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 09 | 27.80002 | 22 | 20 | 06.36 | -00 | 10 | 06.9 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 09 | 30.75884 | 22 | 18 | 37.22 | +00 | 05 | 16.5 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 09 | 30.76761 | 22 | 18 | 36.94 | +00 | 05 | 19.3 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 01.83586 | 22 | 18 | 09.34 | +00 | 10 | 52.0 | 0.6+ | 7+ | 073 |
| 324 | 1969 | 10 | 01.85248 | 22 | 18 | 08.87 | +00 | 10 | 57.3 | 0.6+ | 7+ | 073 |
| 324 | 1969 | 10 | 03.80443 | 22 | 17 | 25.81 | +00 | 21 | 05.2 | 0.6+ | 7+ | 073 |
| 324 | 1969 | 10 | 03.81897 | 22 | 17 | 25.48 | +00 | 21 | 09.9 | 0.6+ | 7+ | 073 |
| 324 | 1969 | 10 | 07.73967 | 22 | 16 | 26.47 | +00 | 41 | 38.0 | 0.6+ | 6+ | 073 |
| 324 | 1969 | 10 | 07.74815 | 22 | 16 | 26.36 | +00 | 41 | 40.6 | 0.6+ | 6+ | 073 |
| 324 | 1969 | 10 | 08.77450 | 22 | 16 | 16.98 | +00 | 47 | 05.0 | 0.6+ | 6+ | 073 |
| 324 | 1969 | 10 | 08.79181 | 22 | 16 | 16.78 | +00 | 47 | 10.8 | 0.6+ | 6+ | 073 |
| 324 | 1969 | 10 | 11.78119 | 22 | 16 | 04.65 | +01 | 03 | 04.6 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 11.79712 | 22 | 16 | 04.60 | +01 | 03 | 09.7 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 13.74135 | 22 | 16 | 08.77 | +01 | 13 | 40.1 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 13.75080 | 22 | 16 | 08.78 | +01 | 13 | 43.5 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 14.79552 | 22 | 16 | 14.69 | +01 | 19 | 26.0 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 14.80279 | 22 | 16 | 14.73 | +01 | 19 | 28.5 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 16.72611 | 22 | 16 | 33.18 | +01 | 30 | 07.7 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 16.73466 | 22 | 16 | 33.23 | +01 | 30 | 10.5 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 21.71755 | 22 | 18 | 02.17 | +01 | 58 | 41.6 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 10 | 21.72621 | 22 | 18 | 02.36 | +01 | 58 | 44.5 | 0.5+ | 6+ | 073 |
| 324 | 1969 | 11 | 01.72943 | 22 | 24 | 37.54 | +03 | 07 | 21.9 | 0.4+ | 6+ | 073 |
| 324 | 1969 | 11 | 01.73843 | 22 | 24 | 37.93 | +03 | 07 | 25.6 | 0.4+ | 6+ | 073 |
| 324 | 1969 | 11 | 04.72192 | 22 | 27 | 08.44 | +03 | 27 | 32.8 | 0.4+ | 5+ | 073 |
| 324 | 1969 | 11 | 04.73023 | 22 | 27 | 09.03 | +03 | 27 | 36.8 | 0.4+ | 5+ | 073 |
| 324 | 1969 | 11 | 29.67514 | 22 | 57 | 56.79 | +06 | 45 | 37.5 | 0.4+ | 5+ | 073 |
| 324 | 1969 | 11 | 29.68276 | 22 | 57 | 57.50 | +06 | 45 | 41.8 | 0.4+ | 5+ | 073 |
| 329 | 1971 | 07 | 26.97360 | 22 | 09 | 55.86 | +04 | 22 | 21.3 | 0.0 | 1- | 073 |
| 329 | 1971 | 07 | 26.98260 | 22 | 09 | 55.57 | +04 | 22 | 19.3 | 0.0 | 1- | 073 |
| 329 | 1971 | 07 | 29.97305 | 22 | 08 | 19.03 | +04 | 07 | 02.9 | 0.0 | 1- | 073 |
| 329 | 1971 | 07 | 29.98483 | 22 | 08 | 18.59 | +04 | 06 | 59.4 | 0.0 | 1- | 073 |
| 329 | 1971 | 07 | 30.96825 | 22 | 07 | 44.32 | +04 | 01 | 22.1 | 0.0 | 1- | 073 |
| 329 | 1971 | 07 | 30.97726 | 22 | 07 | 44.65 | +04 | 01 | 25.2 | 0.0 | 1- | 073 |
| 329 | 1971 | 09 | 13.79293 | 21 | 35 | 58.07 | -03 | 25 | 26.2 | 0.0 | 1- | 073 |
| 329 | 1971 | 09 | 13.80055 | 21 | 35 | 57.81 | -03 | 25 | 31.0 | 0.0 | 1- | 073 |
| 335 | 1970 | 11 | 12.78592 | 01 | 37 | 22.94 | +02 | 10 | 20.1 | 1.2- | 14- | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|-----|-----|
| 335 | 1970 | 11 | 12.81085 | 01 | 37 | 22.02 | +02 | 10 | 20.0 | 1.2- | 14- | 073 |
| 337 | 1971 | 01 | 25.96953 | 10 | 34 | 09.64 | +17 | 24 | 59.9 | | | 073 |
| 337 | 1971 | 01 | 25.98927 | 10 | 34 | 08.75 | +17 | 25 | 02.4 | | | 073 |
| 337 | 1971 | 03 | 20.73830 | 09 | 43 | 41.57 | +17 | 48 | 48.1 | 0.0 | 0 | 073 |
| 337 | 1971 | 03 | 20.75839 | 09 | 43 | 41.21 | +17 | 48 | 52.1 | 0.0 | 0 | 073 |
| 337 | 1971 | 03 | 23.79795 | 09 | 42 | 19.34 | +17 | 38 | 37.9 | 0.0 | 0 | 073 |
| 337 | 1971 | 03 | 23.82115 | 09 | 42 | 18.78 | +17 | 38 | 34.1 | 0.0 | 0 | 073 |
| 337 | 1971 | 03 | 25.77067 | 09 | 41 | 35.10 | +17 | 31 | 22.9 | 0.0 | 0 | 073 |
| 337 | 1971 | 03 | 25.78937 | 09 | 41 | 35.66 | +17 | 31 | 18.3 | 0.0 | 0 | 073 |
| 338 | 1971 | 09 | 13.76871 | 21 | 11 | 00.57 | -10 | 19 | 41.2 | 0.1- | 1- | 073 |
| 338 | 1971 | 09 | 13.77771 | 21 | 11 | 00.28 | -10 | 19 | 41.7 | 0.1- | 1- | 073 |
| 340 | 1970 | 12 | 21.91468 | 06 | 01 | 03.08 | +30 | 25 | 13.7 | 1.9+ | 1+ | 073 |
| 340 | 1970 | 12 | 21.93061 | 06 | 01 | 02.00 | +30 | 25 | 14.1 | 1.9+ | 1+ | 073 |
| 349 | 1969 | 04 | 14.86274 | 10 | 30 | 51.86 | +17 | 31 | 48.0 | 0.0 | 1- | 073 |
| 349 | 1969 | 04 | 14.87590 | 10 | 30 | 51.70 | +17 | 31 | 46.2 | 0.0 | 1- | 073 |
| 352 | 1971 | 01 | 04.93955 | 08 | 24 | 13.97 | +14 | 38 | 24.4 | 0.2- | 1+ | 073 |
| 352 | 1971 | 01 | 04.95686 | 08 | 24 | 12.78 | +14 | 38 | 28.8 | 0.2- | 1+ | 073 |
| 352 | 1971 | 01 | 29.92512 | 07 | 56 | 17.97 | +15 | 33 | 19.7 | 0.2- | 2+ | 073 |
| 352 | 1971 | 01 | 29.94243 | 07 | 56 | 16.22 | +15 | 33 | 24.6 | 0.2- | 2+ | 073 |
| 354 | 1969 | 05 | 27.93177 | 17 | 22 | 39.95 | +02 | 25 | 18.0 | 0.0 | 0 | 073 |
| 354 | 1969 | 05 | 27.93996 | 17 | 22 | 39.52 | +02 | 25 | 18.2 | 0.0 | 0 | 073 |
| 354 | 1969 | 07 | 09.85861 | 16 | 49 | 58.36 | -00 | 03 | 08.5 | 0.0 | 0 | 073 |
| 354 | 1969 | 07 | 09.87246 | 16 | 49 | 57.93 | -00 | 03 | 14.5 | 0.0 | 0 | 073 |
| 354 | 1971 | 12 | 27.69307 | 03 | 44 | 27.28 | -05 | 52 | 21.8 | 0.0 | 0 | 073 |
| 354 | 1971 | 12 | 27.70900 | 03 | 44 | 26.77 | -05 | 52 | 14.5 | 0.0 | 0 | 073 |
| 356 | 1971 | 01 | 29.98537 | 11 | 10 | 13.23 | +11 | 01 | 55.2 | 0.2- | 3+ | 073 |
| 356 | 1971 | 01 | 29.99853 | 11 | 10 | 12.57 | +11 | 01 | 57.0 | 0.2- | 3+ | 073 |
| 356 | 1971 | 03 | 20.79855 | 10 | 26 | 17.88 | +12 | 41 | 31.8 | 0.2- | 3+ | 073 |
| 356 | 1971 | 03 | 20.81379 | 10 | 26 | 17.20 | +12 | 41 | 32.2 | 0.2- | 3+ | 073 |
| 356 | 1971 | 03 | 25.82953 | 10 | 22 | 54.86 | +12 | 41 | 11.9 | 0.2- | 3+ | 073 |
| 356 | 1971 | 03 | 25.84616 | 10 | 22 | 53.90 | +12 | 41 | 11.3 | 0.2- | 3+ | 073 |
| 374 | 1971 | 06 | 24.92149 | 19 | 03 | 39.06 | -09 | 42 | 13.2 | 0.3- | 2- | 073 |
| 374 | 1971 | 06 | 24.93223 | 19 | 03 | 38.46 | -09 | 42 | 12.8 | 0.3- | 2- | 073 |
| 374 | 1971 | 07 | 05.93189 | 18 | 54 | 19.35 | -09 | 30 | 40.0 | 0.2- | 2- | 073 |
| 374 | 1971 | 07 | 05.94297 | 18 | 54 | 18.70 | -09 | 30 | 40.2 | 0.2- | 2- | 073 |
| 385 | 1971 | 04 | 16.84746 | 11 | 56 | 35.82 | -10 | 39 | 20.7 | 0.1- | 1+ | 073 |
| 385 | 1971 | 04 | 16.85785 | 11 | 56 | 35.49 | -10 | 39 | 20.0 | 0.1- | 1+ | 073 |
| 385 | 1971 | 04 | 20.79589 | 11 | 53 | 47.87 | -10 | 34 | 49.5 | 0.1- | 1+ | 073 |
| 385 | 1971 | 04 | 20.80939 | 11 | 53 | 47.29 | -10 | 34 | 49.2 | 0.1- | 1+ | 073 |
| 389 | 1970 | 03 | 25.83109 | 10 | 49 | 51.32 | -06 | 19 | 34.4 | 0.3- | 5+ | 073 |
| 389 | 1970 | 03 | 25.84529 | 10 | 49 | 50.68 | -06 | 19 | 29.7 | 0.3- | 5+ | 073 |
| 389 | 1970 | 04 | 01.84662 | 10 | 45 | 13.89 | -05 | 42 | 07.0 | 0.4- | 5+ | 073 |
| 389 | 1970 | 04 | 01.86462 | 10 | 45 | 13.40 | -05 | 42 | 02.5 | 0.4- | 5+ | 073 |
| 389 | 1971 | 08 | 11.82129 | 19 | 25 | 32.16 | -17 | 57 | 18.4 | 0.2- | 2- | 073 |
| 389 | 1971 | 08 | 11.82891 | 19 | 25 | 31.82 | -17 | 57 | 18.1 | 0.2- | 2- | 073 |
| 389 | 1971 | 08 | 12.83381 | 19 | 24 | 51.94 | -17 | 56 | 47.2 | 0.2- | 2- | 073 |
| 389 | 1971 | 08 | 12.84558 | 19 | 24 | 52.35 | -17 | 56 | 47.6 | 0.2- | 2- | 073 |
| 389 | 1971 | 08 | 19.76867 | 19 | 21 | 00.50 | -17 | 52 | 59.3 | 0.2- | 3- | 073 |
| 389 | 1971 | 08 | 19.78493 | 19 | 21 | 00.07 | -17 | 52 | 58.7 | 0.2- | 3- | 073 |
| 401 | 1971 | 11 | 09.85052 | 01 | 57 | 17.27 | +11 | 53 | 03.5 | 0.0 | 0 | 073 |
| 401 | 1971 | 11 | 09.86229 | 01 | 57 | 16.74 | +11 | 53 | 01.6 | 0.0 | 0 | 073 |
| 403 | 1971 | 07 | 30.87268 | 19 | 20 | 21.05 | -11 | 37 | 12.7 | 0.2+ | 1- | 073 |
| 403 | 1971 | 07 | 30.88030 | 19 | 20 | 20.87 | -11 | 37 | 13.7 | 0.2+ | 1- | 073 |
| 403 | 1971 | 08 | 16.79450 | 19 | 08 | 55.92 | -12 | 09 | 27.7 | 0.5- | 6- | 073 |
| 403 | 1971 | 08 | 16.80351 | 19 | 08 | 55.24 | -12 | 09 | 32.0 | 0.5- | 6- | 073 |
| 407 | 1971 | 07 | 12.92446 | 21 | 38 | 07.50 | -10 | 42 | 41.2 | 0.0 | 1- | 073 |
| 407 | 1971 | 07 | 12.93346 | 21 | 38 | 07.19 | -10 | 42 | 41.1 | 0.0 | 1- | 073 |
| 407 | 1971 | 07 | 13.93350 | 21 | 37 | 33.92 | -10 | 41 | 44.8 | 0.0 | 1- | 073 |
| 407 | 1971 | 07 | 13.94354 | 21 | 37 | 33.44 | -10 | 41 | 43.6 | 0.0 | 1- | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 407 | 1971 | 08 | 30.84152 | 20 | 57 | 24.07 | -11 | 13 | 52.1 | 0.0 | 1- | 073 |
| 407 | 1971 | 08 | 30.85329 | 20 | 57 | 23.52 | -11 | 13 | 52.6 | 0.0 | 1- | 073 |
| 407 | 1971 | 09 | 13.74377 | 20 | 49 | 30.39 | -11 | 28 | 23.9 | 0.0 | 1- | 073 |
| 407 | 1971 | 09 | 13.75416 | 20 | 49 | 30.12 | -11 | 28 | 24.4 | 0.0 | 1- | 073 |
| 409 | 1971 | 02 | 15.77196 | 08 | 04 | 38.24 | +03 | 41 | 17.3 | 0.1+ | 0 | 073 |
| 409 | 1971 | 02 | 15.78720 | 08 | 04 | 37.55 | +03 | 41 | 20.7 | 0.1+ | 0 | 073 |
| 415 | 1969 | 11 | 29.78387 | 02 | 31 | 40.81 | -00 | 37 | 25.6 | 0.1+ | 1+ | 073 |
| 415 | 1969 | 11 | 29.79772 | 02 | 31 | 40.49 | -00 | 37 | 22.2 | 0.1+ | 1+ | 073 |
| 418 | 1971 | 08 | 04.92142 | 21 | 27 | 04.57 | -03 | 29 | 27.6 | 0.5+ | 2+ | 073 |
| 418 | 1971 | 08 | 04.92904 | 21 | 27 | 04.17 | -03 | 29 | 28.2 | 0.5+ | 2+ | 073 |
| 418 | 1971 | 08 | 11.90371 | 21 | 21 | 00.32 | -03 | 45 | 03.8 | 0.5+ | 2+ | 073 |
| 418 | 1971 | 08 | 11.91132 | 21 | 20 | 59.86 | -03 | 45 | 04.6 | 0.5+ | 2+ | 073 |
| 419 | 1971 | 07 | 17.91913 | 20 | 46 | 13.08 | -10 | 09 | 24.4 | 0.1- | 9- | 073 |
| 419 | 1971 | 07 | 17.92605 | 20 | 46 | 14.76 | -10 | 09 | 24.8 | 0.1- | 9- | 073 |
| 419 | 1971 | 09 | 01.76508 | 20 | 17 | 16.96 | -12 | 29 | 03.7 | 0.1- | 9- | 073 |
| 419 | 1971 | 09 | 01.77547 | 20 | 17 | 16.93 | -12 | 29 | 01.5 | 0.1- | 9- | 073 |
| 420 | 1971 | 07 | 12.88291 | 19 | 10 | 32.42 | -15 | 55 | 10.3 | 0.0 | 0 | 073 |
| 420 | 1971 | 07 | 12.89468 | 19 | 10 | 31.91 | -15 | 55 | 10.6 | 0.0 | 0 | 073 |
| 420 | 1971 | 08 | 16.77442 | 18 | 49 | 38.25 | -16 | 21 | 02.4 | 0.0 | 0 | 073 |
| 420 | 1971 | 08 | 16.78204 | 18 | 49 | 38.08 | -16 | 21 | 02.9 | 0.0 | 0 | 073 |
| 423 | 1971 | 10 | 25.85222 | 02 | 16 | 23.79 | +03 | 02 | 33.4 | 0.0 | 1- | 073 |
| 423 | 1971 | 10 | 25.86087 | 02 | 16 | 23.36 | +03 | 02 | 32.5 | 0.0 | 1- | 073 |
| 423 | 1971 | 12 | 03.73280 | 01 | 49 | 30.86 | +03 | 06 | 33.8 | 0.0 | 0 | 073 |
| 423 | 1971 | 12 | 03.74596 | 01 | 49 | 30.38 | +03 | 06 | 35.4 | 0.0 | 0 | 073 |
| 425 | 1971 | 01 | 25.93040 | 10 | 27 | 23.10 | +16 | 07 | 09.6 | 0.0 | 0 | 073 |
| 425 | 1971 | 01 | 25.95014 | 10 | 27 | 22.31 | +16 | 07 | 14.3 | 0.0 | 0 | 073 |
| 425 | 1971 | 01 | 25.96953 | 10 | 27 | 21.49 | +16 | 07 | 20.7 | 0.0 | 0 | 073 |
| 425 | 1971 | 01 | 25.98927 | 10 | 27 | 20.80 | +16 | 07 | 27.1 | 0.0 | 0 | 073 |
| 425 | 1971 | 02 | 03.91317 | 10 | 21 | 34.37 | +16 | 52 | 06.9 | 0.0 | 0 | 073 |
| 425 | 1971 | 02 | 13.87959 | 10 | 13 | 41.15 | +17 | 43 | 31.8 | 0.0 | 0 | 073 |
| 425 | 1971 | 02 | 13.89725 | 10 | 13 | 40.32 | +17 | 43 | 36.6 | 0.0 | 0 | 073 |
| 425 | 1971 | 03 | 16.82087 | 09 | 49 | 23.77 | +19 | 32 | 39.4 | 0.0 | 0 | 073 |
| 425 | 1971 | 03 | 16.84026 | 09 | 49 | 23.06 | +19 | 32 | 42.3 | 0.0 | 0 | 073 |
| 434 | 1971 | 06 | 24.97655 | 20 | 28 | 03.70 | +20 | 19 | 29.1 | 0.0 | 1- | 073 |
| 434 | 1971 | 06 | 24.98659 | 20 | 28 | 03.49 | +20 | 19 | 31.7 | 0.0 | 1- | 073 |
| 434 | 1971 | 07 | 17.86303 | 20 | 14 | 23.58 | +19 | 54 | 54.6 | 0.0 | 0 | 073 |
| 434 | 1971 | 07 | 17.88069 | 20 | 14 | 22.59 | +19 | 54 | 46.0 | 0.0 | 0 | 073 |
| 451 | 1971 | 04 | 29.76876 | 12 | 37 | 52.22 | +17 | 57 | 37.5 | 0.0 | 0 | 073 |
| 451 | 1971 | 04 | 29.78954 | 12 | 37 | 52.99 | +17 | 57 | 39.6 | 0.0 | 0 | 073 |
| 454 | 1970 | 11 | 26.71933 | 01 | 57 | 21.42 | +13 | 42 | 14.6 | 0.9+ | 4+ | 073 |
| 454 | 1970 | 11 | 26.74807 | 01 | 57 | 20.23 | +13 | 42 | 12.2 | 0.9+ | 4+ | 073 |
| 456 | 1971 | 11 | 11.76330 | 01 | 13 | 39.93 | +14 | 58 | 07.9 | 0.1+ | 1+ | 073 |
| 456 | 1971 | 11 | 11.77577 | 01 | 13 | 39.45 | +14 | 58 | 01.8 | 0.1+ | 1+ | 073 |
| 471 | 1971 | 12 | 03.80136 | 03 | 07 | 26.12 | +05 | 06 | 36.2 | 0.0 | 0 | 073 |
| 471 | 1971 | 12 | 03.81036 | 03 | 07 | 25.73 | +05 | 06 | 40.0 | 0.0 | 0 | 073 |
| 471 | 1971 | 12 | 11.79062 | 03 | 02 | 05.14 | +06 | 11 | 58.2 | 0.1+ | 0 | 073 |
| 471 | 1971 | 12 | 11.79754 | 03 | 02 | 04.91 | +06 | 12 | 01.7 | 0.1+ | 0 | 073 |
| 471 | 1971 | 12 | 13.77276 | 03 | 01 | 01.80 | +06 | 29 | 26.1 | 0.0 | 0 | 073 |
| 471 | 1971 | 12 | 13.78445 | 03 | 01 | 02.06 | +06 | 29 | 21.9 | 0.0 | 0 | 073 |
| 471 | 1971 | 12 | 18.67791 | 02 | 58 | 55.57 | +07 | 14 | 29.4 | 0.0 | 1+ | 073 |
| 471 | 1971 | 12 | 18.68345 | 02 | 58 | 55.43 | +07 | 14 | 32.1 | 0.0 | 1+ | 073 |
| 471 | 1971 | 12 | 21.77823 | 02 | 57 | 58.76 | +07 | 44 | 08.3 | 0.0 | 0 | 073 |
| 471 | 1971 | 12 | 21.79069 | 02 | 57 | 58.55 | +07 | 44 | 15.4 | 0.0 | 0 | 073 |
| 478 | 1969 | 10 | 09.78251 | 23 | 35 | 22.48 | +13 | 15 | 48.6 | 0.0 | 1- | 073 |
| 478 | 1969 | 10 | 09.80398 | 23 | 35 | 21.69 | +13 | 15 | 38.6 | 0.0 | 1- | 073 |
| 478 | 1969 | 10 | 15.75608 | 23 | 32 | 05.13 | +12 | 26 | 27.7 | 0.0 | 0 | 073 |
| 478 | 1969 | 10 | 15.77755 | 23 | 32 | 04.48 | +12 | 26 | 17.1 | 0.0 | 0 | 073 |
| 480 | 1971 | 11 | 05.71827 | 00 | 44 | 31.26 | +22 | 56 | 18.6 | 0.5+ | 2- | 073 |
| 480 | 1971 | 11 | 05.73419 | 00 | 44 | 30.75 | +22 | 56 | 05.9 | 0.5+ | 2- | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|-----|-----|
| 480 | 1971 | 11 | 10.73696 | 00 | 42 | 25.09 | +21 | 46 | 07.9 | 0.4+ | 2- | 073 |
| 480 | 1971 | 11 | 10.75116 | 00 | 42 | 24.67 | +21 | 45 | 57.3 | 0.4+ | 2- | 073 |
| 482 | 1971 | 09 | 13.79293 | 21 | 31 | 45.36 | -04 | 16 | 38.8 | 0.1- | 0 | 073 |
| 482 | 1971 | 09 | 13.80155 | 21 | 31 | 45.19 | -04 | 16 | 42.6 | 0.1- | 0 | 073 |
| 485 | 1971 | 06 | 24.86782 | 17 | 52 | 15.88 | -04 | 04 | 58.7 | 0.1+ | 1- | 073 |
| 485 | 1971 | 06 | 24.88098 | 17 | 52 | 15.19 | -04 | 04 | 57.7 | 0.1+ | 1- | 073 |
| 494 | 1969 | 11 | 14.82311 | 01 | 05 | 25.82 | +04 | 56 | 16.6 | 0.0 | 0 | 073 |
| 494 | 1969 | 11 | 14.84942 | 01 | 05 | 24.96 | +04 | 56 | 15.7 | 0.0 | 0 | 073 |
| 494 | 1971 | 01 | 16.82614 | 06 | 19 | 05.62 | +32 | 18 | 24.8 | 0.0 | 0 | 073 |
| 494 | 1971 | 01 | 16.84934 | 06 | 19 | 04.72 | +32 | 18 | 24.2 | 0.0 | 0 | 073 |
| 498 | 1971 | 10 | 23.96643 | 03 | 43 | 37.04 | +06 | 40 | 43.1 | 0.1+ | 0 | 073 |
| 498 | 1971 | 10 | 23.97751 | 03 | 43 | 36.54 | +06 | 40 | 41.9 | 0.1+ | 0 | 073 |
| 498 | 1971 | 12 | 11.75634 | 03 | 00 | 44.43 | +07 | 12 | 48.3 | 0.0 | 0 | 073 |
| 498 | 1971 | 12 | 11.77020 | 03 | 00 | 43.84 | +07 | 12 | 51.9 | 0.0 | 0 | 073 |
| 498 | 1971 | 12 | 13.76445 | 02 | 59 | 42.07 | +07 | 21 | 04.8 | 0.0 | 0 | 073 |
| 498 | 1971 | 12 | 13.77276 | 02 | 59 | 41.83 | +07 | 21 | 07.0 | 0.0 | 0 | 073 |
| 498 | 1971 | 12 | 18.67791 | 02 | 57 | 38.54 | +07 | 43 | 27.6 | 0.0 | 1+ | 073 |
| 498 | 1971 | 12 | 18.68345 | 02 | 57 | 38.42 | +07 | 43 | 29.6 | 0.0 | 1+ | 073 |
| 498 | 1971 | 12 | 21.77823 | 02 | 56 | 42.05 | +07 | 59 | 03.8 | 0.0 | 1+ | 073 |
| 498 | 1971 | 12 | 21.79069 | 02 | 56 | 41.76 | +07 | 59 | 07.2 | 0.0 | 1+ | 073 |
| 506 | 1970 | 11 | 03.87626 | 02 | 08 | 30.09 | +40 | 55 | 08.1 | 0.1- | 1- | 073 |
| 506 | 1970 | 11 | 03.89288 | 02 | 08 | 28.92 | +40 | 55 | 04.6 | 0.1- | 1- | 073 |
| 506 | 1970 | 11 | 05.86943 | 02 | 06 | 27.48 | +40 | 47 | 03.2 | 0.0 | 1- | 073 |
| 506 | 1970 | 11 | 05.88674 | 02 | 06 | 26.51 | +40 | 46 | 58.6 | 0.0 | 1- | 073 |
| 509 | 1969 | 10 | 15.79590 | 23 | 29 | 12.46 | +10 | 15 | 48.4 | 0.0 | 0 | 073 |
| 509 | 1969 | 10 | 15.81598 | 23 | 29 | 11.93 | +10 | 15 | 35.4 | 0.0 | 0 | 073 |
| 510 | 1971 | 07 | 29.02461 | 23 | 11 | 51.65 | +07 | 43 | 15.7 | 0.9+ | 3+ | 073 |
| 510 | 1971 | 07 | 29.03465 | 23 | 11 | 51.54 | +07 | 43 | 15.8 | 0.9+ | 3+ | 073 |
| 510 | 1971 | 09 | 22.79472 | 22 | 40 | 19.77 | +01 | 36 | 22.9 | 1.1+ | 5+ | 073 |
| 510 | 1971 | 09 | 22.80788 | 22 | 40 | 19.33 | +01 | 36 | 15.5 | 1.1+ | 5+ | 073 |
| 511 | 1970 | 03 | 18.86198 | 13 | 31 | 03.29 | +14 | 14 | 16.8 | 0.0 | 1+ | 073 |
| 511 | 1970 | 03 | 18.87583 | 13 | 31 | 02.70 | +14 | 14 | 22.3 | 0.0 | 1+ | 073 |
| 511 | 1971 | 05 | 22.92848 | 17 | 03 | 20.46 | -09 | 49 | 13.6 | 0.0 | 0 | 073 |
| 511 | 1971 | 05 | 22.94579 | 17 | 03 | 19.72 | -09 | 49 | 13.6 | 0.0 | 0 | 073 |
| 511 | 1971 | 05 | 25.91442 | 17 | 01 | 08.41 | -09 | 49 | 50.0 | 0.0 | 0 | 073 |
| 511 | 1971 | 05 | 25.93104 | 17 | 01 | 07.66 | -09 | 49 | 50.0 | 0.0 | 0 | 073 |
| 513 | 1971 | 08 | 04.99137 | 22 | 58 | 01.78 | +00 | 59 | 05.8 | 0.1+ | 0 | 073 |
| 513 | 1971 | 08 | 04.99968 | 22 | 58 | 01.55 | +00 | 59 | 02.9 | 0.1+ | 0 | 073 |
| 513 | 1971 | 08 | 11.92518 | 22 | 54 | 51.38 | +00 | 30 | 51.8 | 0.1+ | 0 | 073 |
| 513 | 1971 | 08 | 11.93280 | 22 | 54 | 51.09 | +00 | 30 | 48.5 | 0.1+ | 0 | 073 |
| 518 | 1971 | 06 | 24.83112 | 16 | 25 | 21.26 | -11 | 23 | 59.5 | 0.2- | 16+ | 073 |
| 518 | 1971 | 06 | 24.84635 | 16 | 25 | 21.13 | -11 | 23 | 57.6 | 0.2- | 16+ | 073 |
| 521 | 1971 | 11 | 19.93507 | 03 | 37 | 55.19 | +06 | 54 | 32.1 | | | 073 |
| 521 | 1971 | 11 | 19.94046 | 03 | 37 | 55.78 | +06 | 54 | 33.1 | | | 073 |
| 532 | 1969 | 07 | 09.88771 | 16 | 50 | 25.55 | -12 | 43 | 20.1 | 0.1- | 0 | 073 |
| 532 | 1969 | 07 | 09.90294 | 16 | 50 | 25.06 | -12 | 43 | 26.9 | 0.1- | 0 | 073 |
| 532 | 1969 | 08 | 08.78993 | 16 | 46 | 33.25 | -16 | 26 | 13.6 | 0.1- | 0 | 073 |
| 532 | 1969 | 08 | 08.80517 | 16 | 46 | 33.46 | -16 | 26 | 19.6 | 0.1- | 0 | 073 |
| 532 | 1969 | 08 | 11.78589 | 16 | 47 | 26.40 | -16 | 48 | 01.2 | 0.0 | 0 | 073 |
| 532 | 1969 | 08 | 11.80113 | 16 | 47 | 26.69 | -16 | 48 | 07.2 | 0.0 | 0 | 073 |
| 532 | 1971 | 10 | 25.93671 | 03 | 57 | 26.68 | -00 | 04 | 32.7 | 0.0 | 0 | 073 |
| 532 | 1971 | 10 | 25.95056 | 03 | 57 | 26.12 | -00 | 04 | 35.2 | 0.0 | 0 | 073 |
| 549 | 1970 | 11 | 26.96553 | 05 | 34 | 15.43 | +27 | 55 | 47.4 | 0.0 | 1- | 073 |
| 549 | 1970 | 11 | 26.98527 | 05 | 34 | 14.45 | +27 | 55 | 45.3 | 0.0 | 1- | 073 |
| 558 | 1971 | 07 | 12.84309 | 18 | 30 | 41.78 | -14 | 49 | 58.6 | 0.0 | 1- | 073 |
| 558 | 1971 | 07 | 12.85105 | 18 | 30 | 41.39 | -14 | 49 | 58.9 | 0.0 | 1- | 073 |
| 558 | 1971 | 07 | 13.84140 | 18 | 29 | 54.33 | -14 | 53 | 04.8 | 0.0 | 1- | 073 |
| 558 | 1971 | 07 | 13.84901 | 18 | 29 | 53.93 | -14 | 53 | 05.7 | 0.0 | 1- | 073 |
| 563 | 1971 | 02 | 12.79785 | 08 | 03 | 26.13 | +32 | 01 | 42.8 | 0.5- | 3+ | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|-----|-----|
| 563 | 1971 | 02 | 12.86641 | 08 | 03 | 23.13 | +32 | 01 | 53.3 | 0.5- | 3+ | 073 |
| 563 | 1971 | 02 | 13.79995 | 08 | 02 | 45.64 | +32 | 04 | 15.6 | 0.4- | 3+ | 073 |
| 563 | 1971 | 02 | 13.81449 | 08 | 02 | 44.88 | +32 | 04 | 13.9 | 0.4- | 3+ | 073 |
| 568 | 1969 | 10 | 17.76067 | 00 | 15 | 16.61 | +27 | 32 | 52.6 | 0.8- | 9+ | 073 |
| 568 | 1969 | 10 | 17.78630 | 00 | 15 | 15.59 | +27 | 32 | 36.3 | 0.8- | 9+ | 073 |
| 582 | 1971 | 08 | 16.82913 | 20 | 03 | 03.03 | +00 | 19 | 50.7 | 0.0 | 0 | 073 |
| 582 | 1971 | 08 | 16.83213 | 20 | 03 | 02.59 | +00 | 19 | 45.3 | 0.0 | 0 | 073 |
| 582 | 1971 | 08 | 21.80442 | 19 | 59 | 42.22 | -00 | 36 | 37.0 | 0.0 | 1- | 073 |
| 582 | 1971 | 08 | 21.81481 | 19 | 59 | 41.81 | -00 | 36 | 44.0 | 0.0 | 1- | 073 |
| 622 | 1970 | 12 | 21.94619 | 07 | 13 | 50.55 | +11 | 04 | 30.4 | 0.1- | 3+ | 073 |
| 622 | 1970 | 12 | 21.95866 | 07 | 13 | 49.57 | +11 | 04 | 32.5 | 0.1- | 3+ | 073 |
| 631 | 1970 | 12 | 21.70900 | 04 | 04 | 30.28 | +07 | 43 | 06.0 | 0.1- | 0 | 073 |
| 631 | 1970 | 12 | 21.72596 | 04 | 04 | 29.62 | +07 | 43 | 00.6 | 0.1- | 0 | 073 |
| 636 | 1969 | 11 | 04.76105 | 00 | 24 | 35.43 | -00 | 58 | 46.8 | 0.2+ | 2+ | 073 |
| 636 | 1969 | 11 | 04.77837 | 00 | 24 | 35.06 | -00 | 58 | 45.5 | 0.2+ | 2+ | 073 |
| 638 | 1971 | 08 | 30.87684 | 22 | 00 | 49.54 | -21 | 26 | 51.9 | 0.0 | 0 | 073 |
| 638 | 1971 | 08 | 30.88861 | 22 | 00 | 48.88 | -21 | 26 | 54.8 | 0.0 | 0 | 073 |
| 639 | 1971 | 12 | 21.82255 | 04 | 00 | 15.35 | +26 | 40 | 54.1 | 0.0 | 1+ | 073 |
| 639 | 1971 | 12 | 21.83640 | 04 | 00 | 14.89 | +26 | 40 | 49.7 | 0.0 | 1+ | 073 |
| 666 | 1971 | 10 | 25.87437 | 02 | 27 | 36.57 | +14 | 33 | 19.5 | 0.4- | 2- | 073 |
| 666 | 1971 | 10 | 25.88891 | 02 | 27 | 35.91 | +14 | 33 | 10.9 | 0.4- | 2- | 073 |
| 681 | 1971 | 10 | 25.85222 | 02 | 17 | 26.11 | +02 | 45 | 40.3 | 0.2- | 0 | 073 |
| 681 | 1971 | 10 | 25.86087 | 02 | 17 | 25.75 | +02 | 45 | 34.4 | 0.2- | 0 | 073 |
| 688 | 1971 | 08 | 04.99137 | 22 | 56 | 01.79 | -00 | 36 | 43.1 | 0.8+ | 5+ | 073 |
| 688 | 1971 | 08 | 04.99968 | 22 | 56 | 01.63 | -00 | 36 | 46.4 | 0.8+ | 5+ | 073 |
| 695 | 1971 | 01 | 04.86717 | 06 | 46 | 10.72 | +20 | 34 | 02.9 | 0.7+ | 3- | 073 |
| 695 | 1971 | 01 | 04.87395 | 06 | 46 | 09.89 | +20 | 33 | 59.8 | 0.7+ | 3- | 073 |
| 697 | 1971 | 08 | 30.92947 | 23 | 47 | 10.03 | -15 | 46 | 36.8 | 0.0 | 1- | 073 |
| 697 | 1971 | 08 | 30.93709 | 23 | 47 | 09.57 | -15 | 46 | 37.0 | 0.0 | 1- | 073 |
| 704 | 1969 | 10 | 07.83368 | 01 | 59 | 45.71 | +38 | 53 | 16.7 | 0.1- | 1- | 073 |
| 704 | 1969 | 10 | 07.84060 | 01 | 59 | 45.37 | +38 | 53 | 16.3 | 0.1- | 1- | 073 |
| 704 | 1969 | 10 | 13.83426 | 01 | 54 | 56.54 | +38 | 40 | 31.2 | 0.1- | 1- | 073 |
| 704 | 1969 | 10 | 13.84153 | 01 | 54 | 56.14 | +38 | 40 | 29.8 | 0.1- | 1- | 073 |
| 704 | 1969 | 10 | 16.86011 | 01 | 52 | 20.77 | +38 | 29 | 42.1 | 0.1- | 1- | 073 |
| 704 | 1969 | 10 | 16.86797 | 01 | 52 | 20.36 | +38 | 29 | 40.2 | 0.1- | 1- | 073 |
| 704 | 1969 | 10 | 21.80031 | 01 | 47 | 59.78 | +38 | 05 | 50.0 | 0.0 | 1- | 073 |
| 704 | 1969 | 10 | 21.80723 | 01 | 47 | 59.42 | +38 | 05 | 47.6 | 0.0 | 1- | 073 |
| 704 | 1969 | 11 | 07.86678 | 01 | 33 | 51.85 | +35 | 52 | 00.8 | 0.2- | 1- | 073 |
| 704 | 1969 | 11 | 07.87579 | 01 | 33 | 51.43 | +35 | 51 | 55.4 | 0.2- | 1- | 073 |
| 704 | 1969 | 11 | 13.72858 | 01 | 30 | 04.50 | +34 | 52 | 38.5 | 0.4- | 1+ | 073 |
| 704 | 1969 | 11 | 13.73753 | 01 | 30 | 04.17 | +34 | 52 | 32.8 | 0.4- | 1+ | 073 |
| 712 | 1971 | 07 | 15.84148 | 18 | 48 | 43.85 | -06 | 28 | 09.5 | 0.8- | 0 | 073 |
| 712 | 1971 | 07 | 15.84910 | 18 | 48 | 43.63 | -06 | 28 | 09.7 | 0.8- | 0 | 073 |
| 713 | 1970 | 11 | 04.78870 | 00 | 56 | 47.90 | +10 | 15 | 27.8 | 0.1- | 1- | 073 |
| 713 | 1970 | 11 | 04.80605 | 00 | 56 | 46.98 | +10 | 15 | 22.6 | 0.1- | 1- | 073 |
| 714 | 1969 | 10 | 15.86862 | 00 | 18 | 29.41 | +18 | 00 | 45.9 | 0.0 | 2- | 073 |
| 714 | 1969 | 10 | 15.87277 | 00 | 18 | 28.29 | +18 | 00 | 29.3 | 0.0 | 2- | 073 |
| 737 | 1970 | 10 | 29.68076 | 00 | 30 | 30.91 | -02 | 35 | 33.1 | 0.3+ | 3+ | 073 |
| 737 | 1970 | 10 | 29.69115 | 00 | 30 | 30.65 | -02 | 35 | 37.9 | 0.3+ | 3+ | 073 |
| 743 | 1971 | 08 | 16.89977 | 22 | 18 | 49.37 | -02 | 24 | 03.8 | 0.2+ | 11+ | 073 |
| 743 | 1971 | 08 | 16.91016 | 22 | 18 | 48.86 | -02 | 24 | 09.5 | 0.2+ | 11+ | 073 |
| 747 | 1970 | 03 | 18.82978 | 11 | 07 | 54.24 | +21 | 45 | 06.3 | 0.0 | 1+ | 073 |
| 747 | 1970 | 03 | 18.84709 | 11 | 07 | 53.45 | +21 | 45 | 10.9 | 0.0 | 1+ | 073 |
| 751 | 1970 | 04 | 03.00734 | 14 | 12 | 03.58 | +07 | 11 | 35.0 | 0.4+ | 0 | 073 |
| 751 | 1970 | 04 | 03.03296 | 14 | 12 | 02.38 | +07 | 11 | 43.0 | 0.4+ | 0 | 073 |
| 755 | 1971 | 06 | 24.94885 | 19 | 49 | 15.89 | -16 | 32 | 38.2 | 0.6+ | 2- | 073 |
| 755 | 1971 | 06 | 24.96235 | 19 | 49 | 15.18 | -16 | 32 | 34.4 | 0.6+ | 2- | 073 |
| 760 | 1970 | 11 | 26.77335 | 02 | 00 | 51.72 | +30 | 11 | 39.9 | 0.6+ | 0 | 073 |

| | | | | | | | | | | | | |
|-----|------|----|----------|----|----|-------|-----|----|------|------|----|-----|
| 760 | 1970 | 11 | 26.80174 | 02 | 00 | 50.71 | +30 | 11 | 32.5 | 0.6+ | 0 | 073 |
| 778 | 1969 | 11 | 29.81469 | 02 | 36 | 32.33 | +38 | 13 | 36.2 | 0.1- | 1- | 073 |
| 778 | 1969 | 11 | 29.82923 | 02 | 36 | 31.60 | +38 | 13 | 30.7 | 0.1- | 1- | 073 |
| 788 | 1971 | 11 | 11.68575 | 00 | 38 | 53.38 | -02 | 48 | 32.8 | 0.6- | 2- | 073 |
| 788 | 1971 | 11 | 11.69545 | 00 | 38 | 53.35 | -02 | 48 | 31.4 | 0.6- | 2- | 073 |
| 790 | 1971 | 08 | 04.95397 | 22 | 09 | 51.38 | +19 | 50 | 58.0 | 0.1+ | 0 | 073 |
| 790 | 1971 | 08 | 04.96090 | 22 | 09 | 51.11 | +19 | 50 | 59.4 | 0.1+ | 0 | 073 |
| 790 | 1971 | 09 | 01.81044 | 21 | 49 | 54.68 | +19 | 23 | 30.3 | 0.0 | 0 | 073 |
| 790 | 1971 | 09 | 01.82499 | 21 | 49 | 54.08 | +19 | 23 | 26.9 | 0.0 | 0 | 073 |
| 790 | 1971 | 09 | 22.74201 | 21 | 38 | 14.40 | +17 | 11 | 41.5 | 0.0 | 0 | 073 |
| 790 | 1971 | 09 | 22.75455 | 21 | 38 | 14.16 | +17 | 11 | 36.1 | 0.0 | 1- | 073 |
| 808 | 1970 | 12 | 04.00809 | 07 | 10 | 18.70 | +15 | 01 | 25.2 | 0.0 | 0 | 073 |
| 808 | 1970 | 12 | 04.02470 | 07 | 10 | 18.17 | +15 | 01 | 23.4 | 0.0 | 0 | 073 |
| 813 | 1971 | 08 | 19.97331 | 23 | 11 | 33.91 | -17 | 23 | 46.6 | 0.1- | 2- | 073 |
| 813 | 1971 | 08 | 19.98716 | 23 | 11 | 33.49 | -17 | 23 | 46.3 | 0.1- | 2- | 073 |
| 845 | 1971 | 11 | 11.68575 | 00 | 39 | 03.45 | -03 | 16 | 46.8 | 0.3+ | 1+ | 073 |
| 845 | 1971 | 11 | 11.69545 | 00 | 39 | 03.35 | -03 | 16 | 46.5 | 0.3+ | 1+ | 073 |
| 856 | 1971 | 10 | 25.93671 | 04 | 00 | 46.49 | -01 | 03 | 59.7 | 0.1- | 1- | 073 |
| 856 | 1971 | 10 | 25.95056 | 04 | 00 | 45.91 | -01 | 04 | 03.4 | 0.1- | 1- | 073 |
| 862 | 1971 | 07 | 26.94866 | 21 | 49 | 03.39 | -05 | 52 | 09.2 | 0.1+ | 0 | 073 |
| 862 | 1971 | 07 | 26.95905 | 21 | 49 | 02.95 | -05 | 52 | 08.2 | 0.1+ | 0 | 073 |
| 862 | 1971 | 07 | 30.94192 | 21 | 45 | 52.82 | -05 | 46 | 02.6 | 0.0 | 1- | 073 |
| 862 | 1971 | 07 | 30.95334 | 21 | 45 | 52.29 | -05 | 46 | 00.8 | 0.0 | 1- | 073 |
| 875 | 1971 | 11 | 11.71484 | 00 | 56 | 57.44 | +01 | 09 | 59.1 | 0.2- | 0 | 073 |
| 875 | 1971 | 11 | 11.72938 | 00 | 56 | 57.33 | +01 | 09 | 59.9 | 0.2- | 0 | 073 |
| 895 | 1971 | 09 | 22.86952 | 23 | 44 | 38.62 | +38 | 26 | 45.8 | 0.1+ | 0 | 073 |
| 895 | 1971 | 09 | 22.88475 | 23 | 44 | 37.88 | +38 | 26 | 42.6 | 0.1+ | 0 | 073 |
| 895 | 1971 | 10 | 09.80895 | 23 | 31 | 09.79 | +36 | 44 | 56.9 | 0.0 | 0 | 073 |
| 895 | 1971 | 10 | 09.82662 | 23 | 31 | 09.19 | +36 | 44 | 50.5 | 0.0 | 0 | 073 |
| 895 | 1971 | 10 | 11.77961 | 23 | 29 | 48.71 | +36 | 28 | 15.1 | | | 073 |
| 895 | 1971 | 10 | 11.79554 | 23 | 29 | 48.08 | +36 | 28 | 07.3 | | | 073 |
| 895 | 1971 | 10 | 15.76594 | 23 | 27 | 17.19 | +35 | 51 | 59.3 | 0.0 | 0 | 073 |
| 895 | 1971 | 10 | 15.77562 | 23 | 27 | 16.46 | +35 | 51 | 51.1 | 0.0 | 0 | 073 |
| 901 | 1971 | 07 | 12.92446 | 21 | 32 | 49.62 | -09 | 39 | 09.2 | 0.0 | 1- | 073 |
| 901 | 1971 | 07 | 12.93346 | 21 | 32 | 49.51 | -09 | 39 | 07.3 | 0.0 | 1- | 073 |
| 901 | 1971 | 07 | 13.93350 | 21 | 32 | 37.50 | -09 | 35 | 07.5 | 0.0 | 0 | 073 |
| 901 | 1971 | 07 | 13.94354 | 21 | 32 | 37.29 | -09 | 35 | 02.1 | 0.0 | 0 | 073 |
| 901 | 1971 | 07 | 15.94259 | 21 | 32 | 01.47 | -09 | 28 | 46.7 | 0.0 | 1- | 073 |
| 901 | 1971 | 07 | 15.95160 | 21 | 32 | 01.26 | -09 | 28 | 44.9 | 0.0 | 1- | 073 |
| 901 | 1971 | 08 | 30.84152 | 21 | 00 | 28.53 | -09 | 44 | 31.6 | 0.0 | 1- | 073 |
| 901 | 1971 | 08 | 30.85329 | 21 | 00 | 28.13 | -09 | 44 | 33.4 | 0.0 | 1- | 073 |
| 901 | 1971 | 09 | 13.74377 | 20 | 56 | 56.53 | -10 | 10 | 16.9 | | | 073 |
| 901 | 1971 | 09 | 13.75416 | 20 | 56 | 56.38 | -10 | 10 | 18.1 | | | 073 |
| 924 | 1971 | 01 | 16.78528 | 05 | 31 | 55.06 | +12 | 25 | 38.8 | 0.7+ | 5+ | 073 |
| 924 | 1971 | 01 | 16.80329 | 05 | 31 | 54.25 | +12 | 25 | 45.9 | 0.7+ | 5+ | 073 |
| 925 | 1971 | 08 | 04.97025 | 22 | 53 | 55.66 | +13 | 21 | 18.4 | 0.5- | 6- | 073 |
| 925 | 1971 | 08 | 04.97648 | 22 | 53 | 55.39 | +13 | 21 | 20.8 | 0.5- | 6- | 073 |
| 925 | 1971 | 09 | 01.84022 | 22 | 29 | 18.67 | +14 | 36 | 09.3 | 0.4- | 7- | 073 |
| 925 | 1971 | 09 | 01.85338 | 22 | 29 | 18.02 | +14 | 36 | 08.7 | 0.4- | 7- | 073 |
| 925 | 1971 | 09 | 22.76702 | 22 | 10 | 04.01 | +13 | 50 | 00.2 | 0.5- | 6- | 073 |
| 925 | 1971 | 09 | 22.77741 | 22 | 10 | 03.57 | +13 | 49 | 58.5 | 0.5- | 6- | 073 |
| 954 | 1971 | 07 | 29.99937 | 22 | 37 | 45.07 | -08 | 04 | 19.6 | 0.1- | 0 | 073 |
| 954 | 1971 | 07 | 30.00699 | 22 | 37 | 44.94 | -08 | 04 | 20.0 | 0.1- | 0 | 073 |
| 980 | 1971 | 09 | 01.86515 | 23 | 01 | 31.74 | +21 | 01 | 27.2 | 0.1+ | 7+ | 073 |
| 980 | 1971 | 09 | 01.87762 | 23 | 01 | 31.29 | +21 | 01 | 28.4 | 0.1+ | 7+ | 073 |
| 980 | 1971 | 09 | 04.84209 | 22 | 58 | 46.99 | +21 | 08 | 16.5 | 0.0 | 8+ | 073 |
| 980 | 1971 | 09 | 04.85248 | 22 | 58 | 46.34 | +21 | 08 | 17.3 | 0.0 | 8+ | 073 |
| 980 | 1971 | 09 | 22.81964 | 22 | 42 | 32.12 | +20 | 45 | 44.3 | 0.0 | 1+ | 073 |

| | | | | | | | | | | | | |
|------|------|----|----------|----|----|-------|-----|----|------|------|-----|-----|
| 980 | 1971 | 09 | 22.82657 | 22 | 42 | 31.78 | +20 | 45 | 42.6 | 0.0 | 1- | 073 |
| 980 | 1971 | 09 | 27.81780 | 22 | 38 | 48.42 | +20 | 22 | 59.2 | 0.0 | 1- | 073 |
| 980 | 1971 | 09 | 27.82957 | 22 | 38 | 47.95 | +20 | 22 | 55.8 | 0.0 | 1- | 073 |
| 980 | 1971 | 10 | 04.77620 | 22 | 34 | 40.26 | +19 | 43 | 25.8 | 0.0 | 1- | 073 |
| 980 | 1971 | 10 | 04.78866 | 22 | 34 | 39.84 | +19 | 43 | 21.1 | 0.0 | 1- | 073 |
| 980 | 1971 | 10 | 09.72620 | 22 | 32 | 35.46 | +19 | 11 | 34.1 | 0.0 | 2- | 073 |
| 980 | 1971 | 10 | 09.73520 | 22 | 32 | 35.31 | +19 | 11 | 31.1 | 0.0 | 2- | 073 |
| 980 | 1971 | 10 | 15.69322 | 22 | 31 | 07.56 | +18 | 31 | 07.5 | 0.0 | 1- | 073 |
| 980 | 1971 | 10 | 15.70153 | 22 | 31 | 07.48 | +18 | 31 | 04.4 | 0.0 | 1- | 073 |
| 982 | 1971 | 07 | 12.92446 | 21 | 31 | 59.00 | -10 | 53 | 36.5 | 0.0 | 1- | 073 |
| 982 | 1971 | 07 | 12.93346 | 21 | 31 | 58.60 | -10 | 53 | 33.7 | 0.0 | 1- | 073 |
| 982 | 1971 | 07 | 13.93350 | 21 | 31 | 21.98 | -10 | 48 | 42.6 | 0.0 | 1- | 073 |
| 982 | 1971 | 07 | 13.94354 | 21 | 31 | 21.61 | -10 | 48 | 38.5 | 0.0 | 1- | 073 |
| 982 | 1971 | 07 | 15.94259 | 21 | 30 | 04.26 | -10 | 39 | 09.6 | 0.0 | 1- | 073 |
| 982 | 1971 | 07 | 15.95160 | 21 | 30 | 03.80 | -10 | 39 | 07.9 | 0.0 | 1- | 073 |
| 1001 | 1969 | 11 | 14.77670 | 01 | 06 | 29.70 | +18 | 14 | 24.1 | 0.2+ | 0 | 073 |
| 1001 | 1969 | 11 | 14.80094 | 01 | 06 | 29.15 | +18 | 14 | 13.8 | 0.2+ | 0 | 073 |
| 1013 | 1971 | 12 | 11.66526 | 02 | 14 | 54.66 | +22 | 24 | 54.9 | 0.0 | 0 | 073 |
| 1013 | 1971 | 12 | 11.67981 | 02 | 14 | 54.30 | +22 | 24 | 55.6 | 0.0 | 0 | 073 |
| 1021 | 1971 | 06 | 16.90355 | 18 | 07 | 12.53 | -12 | 59 | 26.8 | 0.0 | 1- | 073 |
| 1021 | 1971 | 06 | 16.91601 | 18 | 07 | 11.92 | -12 | 59 | 29.0 | 0.0 | 1- | 073 |
| 1022 | 1971 | 07 | 29.81723 | 18 | 25 | 18.97 | -20 | 57 | 55.0 | 0.3+ | 9- | 073 |
| 1022 | 1971 | 07 | 29.82900 | 18 | 25 | 18.85 | -20 | 57 | 57.5 | 0.3+ | 9- | 073 |
| 1032 | 1971 | 12 | 13.92617 | 06 | 48 | 57.01 | +27 | 10 | 25.9 | 0.1+ | 0 | 073 |
| 1032 | 1971 | 12 | 13.94140 | 06 | 48 | 56.35 | +27 | 10 | 30.3 | 0.1+ | 0 | 073 |
| 1047 | 1971 | 12 | 13.73572 | 02 | 55 | 06.70 | +13 | 47 | 10.9 | 0.0 | 2+ | 073 |
| 1047 | 1971 | 12 | 13.75165 | 02 | 55 | 06.39 | +13 | 47 | 17.2 | 0.0 | 2+ | 073 |
| 1058 | 1971 | 11 | 09.85052 | 01 | 55 | 03.96 | +12 | 13 | 02.8 | 0.2+ | 1+ | 073 |
| 1058 | 1971 | 11 | 09.86229 | 01 | 55 | 03.37 | +12 | 12 | 57.6 | 0.2+ | 1+ | 073 |
| 1085 | 1971 | 06 | 24.83112 | 16 | 28 | 22.72 | -13 | 01 | 22.0 | 1.2- | 6- | 073 |
| 1085 | 1971 | 06 | 24.84635 | 16 | 28 | 22.54 | -13 | 01 | 20.9 | 1.2- | 6- | 073 |
| 1111 | 1971 | 11 | 09.87963 | 02 | 20 | 28.85 | +07 | 38 | 12.3 | 0.1- | 0 | 073 |
| 1111 | 1971 | 11 | 09.89067 | 02 | 20 | 28.25 | +07 | 38 | 10.2 | 0.1- | 0 | 073 |
| 1117 | 1971 | 08 | 11.82129 | 19 | 30 | 11.64 | -18 | 28 | 44.5 | 0.5- | 1- | 073 |
| 1117 | 1971 | 08 | 11.82891 | 19 | 30 | 11.56 | -18 | 28 | 50.9 | 0.5- | 1- | 073 |
| 1117 | 1971 | 08 | 20.77391 | 19 | 29 | 12.62 | -19 | 17 | 03.5 | 0.3+ | 0 | 073 |
| 1117 | 1971 | 08 | 20.78915 | 19 | 29 | 11.93 | -19 | 17 | 15.1 | 0.3+ | 0 | 073 |
| 1133 | 1971 | 08 | 16.92816 | 23 | 14 | 02.67 | -17 | 36 | 38.1 | 0.2+ | 1+ | 073 |
| 1133 | 1971 | 08 | 16.93933 | 23 | 14 | 02.33 | -17 | 36 | 44.8 | 0.2+ | 1+ | 073 |
| 1215 | 1971 | 07 | 12.88291 | 19 | 10 | 21.29 | -15 | 18 | 54.9 | 0.1- | 0 | 073 |
| 1215 | 1971 | 07 | 12.89468 | 19 | 10 | 20.66 | -15 | 18 | 58.8 | 0.1- | 0 | 073 |
| 1251 | 1971 | 07 | 29.84562 | 19 | 14 | 16.09 | -17 | 54 | 28.0 | 0.6+ | 4+ | 073 |
| 1251 | 1971 | 07 | 29.85740 | 19 | 14 | 15.75 | -17 | 54 | 24.9 | 0.6+ | 4+ | 073 |
| 1283 | 1971 | 09 | 13.81511 | 22 | 12 | 51.13 | -11 | 14 | 19.7 | 0.1+ | 7- | 073 |
| 1283 | 1971 | 09 | 13.82688 | 22 | 12 | 50.64 | -11 | 14 | 29.1 | 0.1+ | 7- | 073 |
| 1317 | 1969 | 10 | 15.91190 | 00 | 15 | 25.59 | +05 | 21 | 04.4 | 0.5+ | 10+ | 073 |
| 1317 | 1969 | 10 | 15.93233 | 00 | 15 | 24.33 | +05 | 21 | 09.8 | 0.5+ | 10+ | 073 |
| 1331 | 1971 | 08 | 21.83351 | 20 | 29 | 43.13 | -20 | 05 | 12.4 | 0.0 | 0 | 073 |
| 1331 | 1971 | 08 | 21.84666 | 20 | 29 | 42.43 | -20 | 05 | 09.3 | 0.0 | 0 | 073 |
| 1349 | 1971 | 07 | 15.96891 | 21 | 34 | 01.82 | -13 | 27 | 44.5 | 0.1- | 2- | 073 |
| 1349 | 1971 | 07 | 15.98034 | 21 | 34 | 01.36 | -13 | 27 | 43.8 | 0.1- | 2- | 073 |
| 1561 | 1971 | 08 | 30.84152 | 20 | 58 | 37.49 | -10 | 27 | 37.3 | 0.7- | 14- | 073 |
| 1561 | 1971 | 08 | 30.85329 | 20 | 58 | 36.42 | -10 | 27 | 39.0 | 0.7- | 14- | 073 |
| 1572 | 1971 | 09 | 13.88782 | 23 | 51 | 32.55 | -06 | 19 | 58.3 | 0.0 | 1- | 073 |
| 1572 | 1971 | 09 | 13.89821 | 23 | 51 | 31.97 | -06 | 19 | 57.9 | 0.0 | 1- | 073 |
| 1593 | 1971 | 07 | 29.81723 | 18 | 23 | 41.34 | -20 | 56 | 11.1 | 0.6+ | 0 | 073 |
| 1593 | 1971 | 07 | 29.82900 | 18 | 23 | 41.21 | -20 | 56 | 19.3 | 0.6+ | 0 | 073 |
| 1619 | 1970 | 11 | 26.91601 | 04 | 46 | 03.81 | +23 | 58 | 31.9 | 0.1+ | 0 | 073 |

| | | | | | | | | | | | | |
|------|------|----|----------|----|----|-------|-----|----|------|------|-----|-----|
| 1619 | 1970 | 11 | 26.94198 | 04 | 46 | 02.77 | +23 | 58 | 34.9 | 0.1+ | 0 | 073 |
| 1619 | 1970 | 12 | 21.83227 | 04 | 18 | 46.07 | +24 | 58 | 19.2 | 0.1+ | 0 | 073 |
| 1620 | 1969 | 09 | 08.67693 | 20 | 20 | 21.40 | -07 | 58 | 43.5 | 0.7+ | 24+ | 073 |
| 1620 | 1969 | 09 | 09.62711 | 20 | 25 | 03.17 | -06 | 27 | 35.5 | 0.3+ | 15+ | 073 |
| 1620 | 1969 | 09 | 09.66727 | 20 | 25 | 14.43 | -06 | 24 | 01.3 | 0.8+ | 15+ | 073 |
| 1620 | 1969 | 09 | 10.59529 | 20 | 29 | 18.66 | -05 | 06 | 09.7 | 0.7+ | 12+ | 073 |
| 1620 | 1969 | 09 | 10.63546 | 20 | 29 | 28.85 | -05 | 03 | 00.6 | 0.7+ | 12+ | 073 |
| 1620 | 1969 | 09 | 10.64412 | 20 | 29 | 30.03 | -05 | 02 | 18.8 | 0.7+ | 12+ | 073 |
| 1620 | 1969 | 09 | 10.70437 | 20 | 29 | 45.38 | -04 | 57 | 33.7 | 0.7+ | 12+ | 073 |
| 1620 | 1969 | 09 | 13.57255 | 20 | 40 | 19.52 | -01 | 42 | 24.7 | 0.5+ | 10+ | 073 |

OBSERVATIONS MADE AT KITAB BY E. RAKHMATOV. REDUCED BY G. R. KASTEL'.
FROM KIEV KOMET. TSIRK. NO. 255.

| Object | Date | UT | R. A. (1950) | | | Decl. | | N | Obs. | |
|----------|------|----|--------------|----|----|-------|-----|----|------|-------|
| /1976 VI | 1976 | 03 | 10.02906 | 21 | 25 | 20.84 | +08 | 57 | 10.7 | 186 |
| /1976 VI | 1976 | 03 | 10.02952 | 21 | 25 | 20.75 | +08 | 57 | 11.3 | 186 |
| /1976 VI | 1976 | 03 | 10.03218 | 21 | 25 | 20.32 | +08 | 10 | 13.5 | 186 |
| /1976 VI | 1976 | 03 | 10.03252 | 21 | 25 | 20.29 | +08 | 57 | 13.2 | 186 |
| /1976 VI | 1976 | 03 | 10.03408 | 21 | 25 | 20.15 | +08 | 57 | 14.3 | 186 |
| /1976 VI | 1976 | 03 | 10.03443 | 21 | 25 | 19.98 | +08 | 57 | 16.3 | 186 |
| /1976 VI | 1976 | 03 | 10.04230 | 21 | 25 | 18.18 | +08 | 57 | 28.3 | 186 |
| /1976 VI | 1976 | 03 | 10.04303 | 21 | 25 | 17.45 | +08 | 57 | 29.2 | 186 |
| /1976 VI | 1976 | 05 | 25.96360 | 19 | 12 | 56.76 | +17 | 52 | 00.0 | 1 186 |
| /1976 VI | 1976 | 06 | 01.86397 | 18 | 55 | 40.95 | +17 | 14 | 28.3 | 1 186 |
| /1976 VI | 1976 | 06 | 01.86397 | 18 | 55 | 39.24 | +17 | 14 | 40.4 | 2 186 |
| /1976 VI | 1976 | 06 | 01.86397 | 18 | 55 | 37.71 | +17 | 14 | 48.2 | 3 186 |
| /1976 VI | 1976 | 06 | 05.88764 | 18 | 45 | 50.40 | +16 | 29 | 00.2 | 3 186 |
| /1976 VI | 1976 | 06 | 07.91632 | 18 | 40 | 32.57 | +16 | 24 | 52.9 | 1 186 |
| /1976 VI | 1976 | 06 | 21.75499 | 18 | 09 | 24.62 | +13 | 44 | 45.5 | 1 186 |
| /1976 VI | 1976 | 06 | 23.79624 | 18 | 05 | 17.28 | +13 | 17 | 19.9 | 2 186 |
| /1976 VI | 1976 | 06 | 30.75202 | 17 | 53 | 42.69 | +11 | 38 | 35.8 | 1 186 |
| /1976 VI | 1976 | 07 | 01.73303 | 17 | 27 | 44.73 | +11 | 19 | 51.9 | 3 186 |

Note 1: nucleus A. 2: nucleus D. 3: nucleus B.

OBSERVATIONS MADE AT ALMA-ATA BY D. A. ROZHKOVSIIJ. MEASURED BY L. A.
USOL'TSEVA. FROM KIEV KOMET. TSIRK. NO. 254.

| Object | Date | UT | R. A. (1950) | | | Decl. | Mag. | Obs. | | | |
|------------|------|----|--------------|----|----|-------|------|------|------|-------|-----|
| /1978 XXIV | 1979 | 08 | 20.77917 | 00 | 25 | 07.12 | -01 | 29 | 35.1 | 18.5T | 210 |
| /1978 XXIV | 1979 | 08 | 20.80000 | 00 | 25 | 06.50 | -01 | 29 | 41.8 | 18 T | 210 |

OBSERVATIONS MADE AT THE PURPLE MOUNTAIN OBSERVATORY BY J.-X. ZHANG, J.-X.
YANG, Q. WANG, S. WEI, Y. GE AND C.-Y. SHAO. MEASURED BY SHAO.

| Object | Date | UT | R. A. (1950) | | | Decl. | Mag. | Obs. | | | |
|-----------|------|----|--------------|----|----|-------|------|------|------|----|-----|
| /1978 XXI | 1979 | 11 | 13.53914 | 22 | 22 | 38.99 | -15 | 45 | 11.5 | | 330 |
| 2181 | 1979 | 11 | 13.59921 | 02 | 05 | 55.36 | +22 | 23 | 07.7 | | 330 |
| 1979 VA | 1979 | 11 | 18.58601 | 01 | 54 | 40.52 | +24 | 42 | 41.5 | 13 | 330 |

OBSERVATIONS MADE AT GEISEI (CODE 372) BY T. SEKI AND AT TOKAI (CODE 879)
BY T. FURUTA.

| Object | Date | UT | R. A. (1950) | | | Decl. | Mag. | Obs. | | | |
|---------|------|----|--------------|----|----|-------|------|------|------|------|-----|
| 1975 QK | 1979 | 11 | 20.51076 | 01 | 12 | 04.46 | -17 | 27 | 20.6 | 16 | 879 |
| 1975 QK | 1979 | 11 | 20.52257 | 01 | 12 | 04.47 | -17 | 27 | 14.8 | | 879 |
| 1975 QK | 1979 | 11 | 20.53507 | 01 | 12 | 04.49 | -17 | 27 | 06.9 | | 879 |
| 1979 VA | 1979 | 11 | 19.43056 | 01 | 59 | 54.03 | +24 | 34 | 18.8 | | 372 |
| 1979 VA | 1979 | 11 | 19.44097 | 01 | 59 | 57.72 | +24 | 34 | 11.7 | | 372 |
| 1979 XA | 1979 | 12 | 16.46424 | 02 | 19 | 01.5 | +13 | 18 | 04 | | 879 |
| 1979 XA | 1979 | 12 | 16.47014 | 02 | 18 | 59.3 | +13 | 17 | 57 | | 879 |
| 1979 XA | 1979 | 12 | 17.61042 | 02 | 12 | 35.20 | +12 | 54 | 27.9 | 15.0 | 372 |
| 1979 XA | 1979 | 12 | 17.63090 | 02 | 12 | 28.63 | +12 | 54 | 04.0 | | 372 |

OBSERVATIONS MADE WITH THE 1.2-M SCHMIDT TELESCOPE AT COONABARABRAN BY
K. S. RUSSELL.

| Object | Date | UT | R. A. (1950) | | Decl. | Mag. | Obs. |
|-----------|---------|----------|--------------|-------|--------|------|------|
| 164 | 1979 11 | 20.46736 | 00 06 | 47.31 | -33 35 | 26.7 | 413 |
| 164 | 1979 11 | 20.51250 | 00 06 | 49.29 | -33 34 | 08.1 | 413 |
| 164 | 1979 11 | 21.48495 | 00 07 | 34.81 | -33 04 | 33.1 | 413 |
| 164 | 1979 11 | 21.55787 | 00 07 | 37.80 | -33 02 | 21.8 | 413 |
| 164 | 1979 11 | 22.45729 | 00 08 | 21.53 | -32 34 | 59.5 | 413 |
| 164 | 1979 11 | 22.47118 | 00 08 | 22.11 | -32 34 | 35.1 | 413 |
| 1979 XB * | 1979 12 | 11.51059 | 04 24 | 04.83 | -29 36 | 08.7 | 413 |
| 1979 XB | 1979 12 | 11.55573 | 04 23 | 25.28 | -29 42 | 08.5 | 413 |
| 1979 XB | 1979 12 | 13.44144 | 03 46 | 10.73 | -34 55 | 38.9 | 413 |
| 1979 XB | 1979 12 | 13.44838 | 03 45 | 59.17 | -34 57 | 01.4 | 413 |
| 1979 XB | 1979 12 | 14.43661 | 03 11 | 23.42 | -38 40 | 02.9 | 413 |
| 1979 XB | 1979 12 | 14.44355 | 03 11 | 04.67 | -38 41 | 45.5 | 413 |
| 1979 XB | 1979 12 | 15.41910 | 02 16 | 43.39 | -42 40 | 34.2 | 413 |
| 1979 XB | 1979 12 | 15.41979 | 02 16 | 40.57 | -42 40 | 45.1 | 413 |
| 1979 XB | 1979 12 | 15.42049 | 02 16 | 37.60 | -42 40 | 52.1 | 413 |
| 1979 XB | 1979 12 | 15.42118 | 02 16 | 34.70 | -42 41 | 03.6 | 413 |
| 1979 XB | 1979 12 | 15.42187 | 02 16 | 31.63 | -42 41 | 11.7 | 413 |
| 1979 XB | 1979 12 | 15.42257 | 02 16 | 28.70 | -42 41 | 23.0 | 413 |
| 1979 XB | 1979 12 | 15.42326 | 02 16 | 25.80 | -42 41 | 31.7 | 413 |
| 1979 XB | 1979 12 | 15.42396 | 02 16 | 23.02 | -42 41 | 41.7 | 413 |
| 1979 XB | 1979 12 | 15.42465 | 02 16 | 19.77 | -42 41 | 49.4 | 413 |
| 1979 XB | 1979 12 | 15.42535 | 02 16 | 16.93 | -42 42 | 01.8 | 413 |
| 1979 XB | 1979 12 | 15.42604 | 02 16 | 13.75 | -42 42 | 09.0 | 413 |
| 1979 XB | 1979 12 | 15.42951 | 02 15 | 58.84 | -42 42 | 59.3 | 413 |

OBSERVATIONS MADE AT HAPPY VALLEY, WELLINGTON, BY A. C. GILMORE AND
P. M. KILMARTIN.

| Object | Date | UT | R. A. (1950) | | Decl. | Mag. | N | Obs. |
|---------|---------|----------|--------------|-------|--------|------|----|-------|
| 1979 VA | 1979 11 | 23.42936 | 02 20 | 44.76 | +23 54 | 42.1 | 14 | 1 484 |
| 1979 VA | 1979 11 | 23.44603 | 02 20 | 49.14 | +23 54 | 33.6 | | 1 484 |

Note 1: observatory code 484, Long. and Parallax 174.75, -321, +280 (see MPC 4766).

OBSERVATIONS MADE AT STAKENBRIDGE BY B. MANNING. COMMUNICATED BY
G. M. HURST.

| Object | Date | UT | R. A. (1950) | | Decl. | Mag. | Obs. |
|---------|---------|----------|--------------|-------|--------|------|------|
| 246 | 1979 08 | 21.90208 | 20 26 | 47.45 | -07 11 | 17.3 | 494 |
| 246 | 1979 08 | 25.89965 | 20 24 | 38.14 | -07 53 | 23.4 | 494 |
| 433 | 1979 08 | 25.91215 | 21 15 | 33.07 | -05 28 | 29.4 | 494 |
| 1979 VA | 1979 11 | 18.83073 | 01 56 | 13.93 | +24 39 | 59.3 | 494 |
| 1979 VA | 1979 11 | 18.84635 | 01 56 | 19.50 | +24 39 | 49.2 | 494 |
| 1979 VA | 1979 11 | 18.85903 | 01 56 | 24.20 | +24 39 | 42.6 | 494 |

OBSERVATIONS MADE AT THE LICK OBSERVATORY BY E. A. HARLAN. MEASURED BY
A. R. KLEMOLA.

| Object | Date | UT | R. A. (1950) | | Decl. | Obs. | |
|---------|---------|----------|--------------|-------|--------|------|-----|
| 1979 VA | 1979 11 | 16.29375 | 01 38 | 50.46 | +25 03 | 26.4 | 662 |
| 1979 VA | 1979 11 | 16.30069 | 01 38 | 53.38 | +25 03 | 23.0 | 662 |

OBSERVATIONS MADE AT PALOMAR.

| Object | Date | UT | R. A. (1950) | | Decl. | Mag. | N | Obs. |
|------------|---------|----------|--------------|-------|--------|------|----|-------|
| 1953 XK1 * | 1953 12 | 07.50278 | 09 08 | 08.7 | -09 02 | 17 | | 1 675 |
| 1953 XK1 | 1953 12 | 07.53403 | 09 08 | 09.7 | -09 03 | 10 | | 1 675 |
| 1953 XK1 | 1953 12 | 07.54097 | 09 08 | 09.9 | -09 03 | 24 | 14 | 1 675 |
| 1979 VA * | 1979 11 | 15.17569 | 01 30 | 07.53 | +25 12 | 03.2 | 11 | 2 675 |
| 1979 VA | 1979 11 | 15.24792 | 01 30 | 41.16 | +25 11 | 35.9 | | 2 675 |

| | | | | | |
|-----------|------------------|-------------|-------------|------|-------|
| 1979 VA | 1979 11 15.42847 | 01 32 05.44 | +25 10 03.4 | | 2 675 |
| 1979 VA | 1979 11 16.10694 | 01 37 29.19 | +25 04 55.8 | 11 | 2 675 |
| 1979 VA | 1979 11 16.28056 | 01 38 44.47 | +25 03 35.3 | | 2 675 |
| 1979 VA | 1979 11 16.35000 | 01 39 14.50 | +25 02 57.9 | | 2 675 |
| 1979 VA | 1979 11 24.23750 | 02 24 20.70 | +23 45 58.9 | | 3 675 |
| 1979 VA | 1979 11 24.25833 | 02 24 25.83 | +23 45 47.0 | | 3 675 |
| 1979 VA | 1979 12 12.23403 | 03 15 19.73 | +21 37 09.6 | 15 | 4 675 |
| 1979 VA | 1979 12 14.24028 | 03 19 06.93 | +21 28 45.4 | | 4 675 |
| 1979 XA * | 1979 12 13.13681 | 02 36 45.02 | +14 20 30.3 | 14.5 | 4 675 |
| 1979 XA | 1979 12 13.34236 | 02 35 39.61 | +14 16 52.3 | | 4 675 |
| 1979 XA | 1979 12 14.10139 | 02 31 45.34 | +14 03 16.4 | | 4 675 |
| 1979 XA | 1979 12 14.25069 | 02 30 56.68 | +14 00 33.0 | | 4 675 |
| 1979 XA | 1979 12 14.39792 | 02 30 08.99 | +13 57 48.1 | | 4 675 |

Note 1: identified by J. Dengel, H. Hartl and R. Weinberger on Palomar Sky Survey prints. 2: observations by E. Helin and S. J. Bus with the 0.46-m Schmidt telescope. 3: observations by C. Kowal with the 1.2-m Schmidt telescope. 4: observations by Q. R. Passey and Bus with the 0.46-m Schmidt telescope. Measured by Bus, Passey and R. Weeks.

OBSERVATIONS MADE AT THE LOWELL OBSERVATORY, ANDERSON MESA STATION, BY H. L. GICLAS AND E. BOWELL. MEASURED BY M. L. KANTZ.

| Object | Date | UT | R. A. (1950) | Decl. | Mag. | Obs. |
|---------|------------------|-------------|--------------|-------|------|------|
| 1975 SD | 1975 09 28.22708 | 00 29 38.04 | +00 05 25.0 | | | 688 |
| 1975 SD | 1975 10 04.33056 | 00 25 04.83 | -00 21 11.4 | | | 688 |
| 1975 SD | 1975 10 10.25486 | 00 20 43.42 | -00 45 49.4 | | | 688 |
| 1975 SD | 1975 10 11.27639 | 00 19 59.44 | -00 49 52.3 | | | 688 |
| 1979 VA | 1979 11 16.22014 | 01 38 18.25 | +25 04 02.3 | | 12 | 688 |
| 1979 VA | 1979 11 17.21181 | 01 45 31.02 | +24 55 30.5 | | | 688 |
| 1979 VA | 1979 11 22.15590 | 02 14 42.85 | +24 06 42.6 | | | 688 |
| 1979 VA | 1979 12 07.15313 | 03 04 40.10 | +22 03 18.0 | | | 688 |
| 1979 VA | 1979 12 17.17986 | 03 24 21.05 | +21 18 13.4 | | | 688 |
| 1979 XA | 1979 12 14.26389 | 02 30 52.21 | +14 00 14.4 | | 14 | 688 |
| 1979 XA | 1979 12 17.15417 | 02 15 11.22 | +13 03 59.1 | | | 688 |

OBSERVATIONS MADE AT THE GOETHE LINK OBSERVATORY, MEASURED AT INDIANA UNIVERSITY, REDUCED AT THE SMITHSONIAN ASTROPHYSICAL OBSERVATORY.

| Object | Date | UT | R. A. (1950) | Decl. | Obs. |
|----------|------------------|-------------|--------------|-------|------|
| 1949 SO1 | 1949 09 25.22564 | 23 15 29.67 | -08 09 13.3 | | 760 |
| 1949 SO1 | 1949 09 25.27046 | 23 15 27.78 | -08 09 27.9 | | 760 |
| 1954 JN | 1954 05 10.29873 | 16 08 08.37 | -14 46 34.2 | | 760 |
| 1954 JN | 1954 05 10.34144 | 16 08 06.58 | -14 46 22.6 | | 760 |
| 1956 AF | 1956 01 13.40558 | 08 59 45.79 | +13 50 33.2 | | 760 |
| 1956 AF | 1956 01 13.44794 | 08 59 43.34 | +13 50 36.2 | | 760 |
| 1965 JC | 1965 05 03.15955 | 14 13 41.38 | -10 56 33.8 | | 760 |
| 1965 JC | 1965 05 03.20260 | 14 13 38.84 | -10 56 33.6 | | 760 |

OBSERVATIONS MADE AT THE HARVARD COLLEGE OBSERVATORY AGASSIZ STATION BY R. E. MC CROSKY, C.-Y. SHAO, G. SCHWARTZ AND J. H. BULGER (WITH ASSISTANCE FROM C. M. BARDWELL AND B. G. MARSDEN).

| Object | Date | UT | R. A. (1950) | Decl. | Mag. | Obs. |
|------------|------------------|-------------|--------------|-------|-------|------|
| /1978 XXIV | 1979 09 21.24622 | 00 08 54.51 | -04 21 24.1 | | | 801 |
| /1979e | 1979 10 23.01436 | 18 33 24.09 | -00 36 22.7 | | | 801 |
| /1979f | 1979 09 01.32601 | 04 55 40.85 | +42 15 03.4 | | | 801 |
| /1979k | 1979 12 14.98141 | 23 39 07.87 | -06 03 01.2 | | 20.5N | 801 |
| /1979k | 1979 12 15.99677 | 23 39 34.00 | -05 59 25.7 | | | 801 |
| 1921 | 1979 10 22.20609 | 02 45 57.58 | +45 09 27.9 | | | 801 |
| 1922 | 1979 10 19.08184 | 22 29 50.68 | +29 51 33.7 | | | 801 |
| 2074 | 1979 10 26.29259 | 04 51 07.83 | -03 03 58.4 | | | 801 |

| | | | | | | | | | | | |
|------|-----|--------|----|----------|----|----|-------|-----|----|------|-----|
| 1973 | SU4 | 1979 | 11 | 24.31037 | 06 | 58 | 13.38 | +12 | 58 | 54.1 | 801 |
| 1975 | AK | 1979 | 11 | 21.35692 | 06 | 33 | 49.84 | +18 | 14 | 50.6 | 801 |
| 1975 | VF | 1979 | 08 | 23.28755 | 00 | 01 | 37.39 | +05 | 38 | 12.8 | 801 |
| 1975 | VF | 1979 | 09 | 16.16538 | 23 | 47 | 11.52 | +03 | 56 | 30.7 | 801 |
| 1975 | VF | 1979 | 11 | 20.06292 | 23 | 29 | 39.40 | -00 | 52 | 13.0 | 801 |
| 1976 | GR3 | 1979 | 11 | 24.27773 | 06 | 54 | 34.72 | +29 | 29 | 09.7 | 801 |
| 1977 | HC | 1979 | 11 | 21.23287 | 05 | 29 | 14.07 | +05 | 28 | 16.1 | 801 |
| 1977 | QH1 | 1979 | 11 | 21.15582 | 04 | 39 | 26.94 | +13 | 39 | 57.4 | 801 |
| 1977 | QH1 | 1979 | 11 | 22.21816 | 04 | 38 | 53.12 | +13 | 38 | 24.7 | 801 |
| 1977 | TL3 | 1979 | 11 | 21.31877 | 06 | 05 | 56.43 | +09 | 44 | 34.2 | 801 |
| 1978 | GC | 1979 | 11 | 21.28964 | 05 | 38 | 14.86 | -16 | 36 | 02.7 | 801 |
| 1978 | LA | 1979 | 08 | 31.34119 | 04 | 50 | 56.05 | +13 | 55 | 50.4 | 801 |
| 1978 | LA | 1979 | 11 | 21.17970 | 04 | 56 | 05.01 | +09 | 38 | 30.8 | 801 |
| 1978 | RC | 1979 | 11 | 24.34485 | 07 | 04 | 10.64 | +36 | 28 | 26.2 | 801 |
| 1979 | OA | 1979 | 09 | 13.11744 | 20 | 43 | 16.34 | +08 | 47 | 33.7 | 801 |
| 1979 | OA | 1979 | 11 | 16.98778 | 21 | 21 | 26.43 | +09 | 42 | 13.2 | 801 |
| 1979 | OB | 1979 | 09 | 13.14358 | 22 | 22 | 12.41 | -05 | 41 | 00.3 | 801 |
| 1979 | OB | 1979 | 10 | 22.11368 | 22 | 35 | 02.35 | -09 | 34 | 16.9 | 801 |
| 1979 | OB | 1979 | 11 | 19.97399 | 23 | 10 | 26.88 | -07 | 55 | 48.9 | 801 |
| 1979 | OC | 1979 | 10 | 22.08465 | 21 | 11 | 13.09 | -05 | 33 | 02.9 | 801 |
| 1979 | OC | 1979 | 11 | 16.95958 | 21 | 39 | 54.61 | -04 | 59 | 09.1 | 801 |
| 1979 | QL | * 1979 | 08 | 23.25413 | 22 | 39 | 22.69 | -15 | 11 | 18.3 | 801 |
| 1979 | UC1 | * 1979 | 10 | 31.30868 | 05 | 48 | 46.59 | -11 | 48 | 39.6 | 801 |
| 1979 | VA | 1979 | 11 | 16.96344 | 01 | 43 | 47.69 | +24 | 57 | 30.3 | 801 |
| 1979 | VA | 1979 | 11 | 16.97740 | 01 | 43 | 53.87 | +24 | 57 | 26.1 | 801 |
| 1979 | VA | 1979 | 11 | 17.14603 | 01 | 45 | 02.49 | +24 | 55 | 59.8 | 801 |
| 1979 | VA | 1979 | 11 | 17.15610 | 01 | 45 | 06.54 | +24 | 55 | 54.3 | 801 |
| 1979 | VA | 1979 | 11 | 22.18951 | 02 | 14 | 50.23 | +24 | 06 | 20.5 | 801 |
| 1979 | VA | 1979 | 11 | 28.28679 | 02 | 39 | 55.35 | +23 | 07 | 58.8 | 801 |
| 1979 | XA | 1979 | 12 | 15.03354 | 02 | 26 | 48.42 | +13 | 45 | 55.4 | 801 |
| 1979 | XA | 1979 | 12 | 15.09929 | 02 | 26 | 26.48 | +13 | 44 | 40.2 | 801 |
| 1979 | XA | 1979 | 12 | 18.00833 | 02 | 10 | 22.45 | +12 | 46 | 06.0 | 801 |
| 2528 | P-L | 1979 | 09 | 16.08184 | 20 | 35 | 43.46 | -22 | 31 | 07.1 | 801 |
| 6090 | P-L | 1979 | 11 | 20.09192 | 01 | 23 | 01.28 | +14 | 24 | 20.3 | 801 |
| 6512 | P-L | 1979 | 08 | 23.25413 | 22 | 39 | 20.21 | -14 | 54 | 07.6 | 801 |

17.5
18

OBSERVATIONS MADE AT RIO DE JANEIRO BY H. DEBEHOGNE AND R. R. DE FREITAS MOURAO. MEASURED BY L. E. S. MACHADO, J. F. C. CALDEIRA, E. RANGEL NETTO AND G. G. VIEIRA. FROM ASTRON. ASTROPHYS. SUPPL. 36, 407, 1979.

| Object | Date | UT | R. A. (1950) | | | Decl. | O - C | | Obs. | | | |
|--------|------|----|--------------|----|----|-------|-------|----|------|------|----|-----|
| 8 | 1977 | 09 | 09.05546 | 18 | 40 | 04.18 | -25 | 07 | 07.9 | 0.4- | 1- | 880 |
| 8 | 1977 | 09 | 09.07277 | 18 | 40 | 04.56 | -25 | 07 | 09.8 | 0.4- | 1- | 880 |
| 8 | 1977 | 09 | 09.09008 | 18 | 40 | 05.16 | -25 | 07 | 10.5 | 0.4- | 1- | 880 |
| 11 | 1977 | 09 | 10.91876 | 17 | 50 | 14.09 | -22 | 21 | 11.4 | 0.3- | 0 | 880 |
| 11 | 1977 | 09 | 10.96170 | 17 | 50 | 16.76 | -22 | 21 | 18.8 | 0.3- | 0 | 880 |
| 14 | 1977 | 09 | 10.20405 | 23 | 55 | 22.11 | -15 | 20 | 23.8 | 0.1+ | 1- | 880 |
| 14 | 1977 | 09 | 10.22622 | 23 | 55 | 21.02 | -15 | 20 | 31.5 | 0.1+ | 1- | 880 |
| 14 | 1977 | 09 | 10.25253 | 23 | 55 | 19.69 | -15 | 20 | 41.2 | 0.1+ | 1- | 880 |
| 14 | 1977 | 09 | 11.27681 | 23 | 54 | 28.08 | -15 | 26 | 55.0 | 0.0 | 1- | 880 |
| 14 | 1977 | 09 | 11.29828 | 23 | 54 | 26.89 | -15 | 27 | 02.1 | 0.0 | 1- | 880 |
| 17 | 1977 | 09 | 10.98663 | 19 | 51 | 43.27 | -22 | 39 | 26.3 | 0.4- | 1- | 880 |
| 17 | 1977 | 09 | 11.03995 | 19 | 51 | 43.91 | -22 | 39 | 32.6 | 0.4- | 1- | 880 |
| 17 | 1977 | 09 | 11.09397 | 19 | 51 | 44.59 | -22 | 39 | 37.6 | 0.4- | 1- | 880 |
| 21 | 1977 | 09 | 09.22236 | 21 | 44 | 14.16 | -19 | 28 | 30.0 | 0.3- | 3- | 880 |
| 21 | 1977 | 09 | 09.23967 | 21 | 44 | 13.46 | -19 | 28 | 32.4 | 0.3- | 3- | 880 |
| 21 | 1977 | 09 | 09.25699 | 21 | 44 | 12.84 | -19 | 28 | 34.6 | 0.3- | 3- | 880 |
| 21 | 1977 | 09 | 11.19647 | 21 | 43 | 05.96 | -19 | 32 | 20.4 | 0.0 | 2- | 880 |
| 21 | 1977 | 09 | 11.21725 | 21 | 43 | 05.20 | -19 | 32 | 24.0 | 0.0 | 2- | 880 |
| 21 | 1977 | 09 | 11.23872 | 21 | 43 | 04.54 | -19 | 32 | 26.3 | 0.0 | 2- | 880 |

ORBITAL ELEMENTS OF ONE-OPPOSITION MINOR PLANETS.

The orbit computers and authors of double designations are A = K. Reinmuth, B = C. M. Bardwell, F = E. Fogelin, M = B. G. Marsden, P = O. Kippes, T = B. Potter, W = J. G. Williams, X = W. Strobel. For further explanation see MPC 4499.

| Planet | B(1,0) | Epoch | M | Peri. | Node | Incl. | e | a | Arc | O | N | C |
|----------|--------|--------|--------|--------|--------|-------|--------|--------|-----|---|---|---|
| 1949 DA | 14.0 | 490305 | 354.39 | 355.90 | 161.74 | 3.29 | 0.0244 | 2.1922 | 16 | 8 | | B |
| 1949 GJ | 13.5 | 490414 | 9.72 | 162.02 | 27.74 | 9.12 | 0.1308 | 2.3847 | 21 | 6 | | B |
| 1949 GK | 14.5 | 490414 | 347.40 | 51.29 | 170.42 | 2.34 | 0.1962 | 2.3076 | 21 | 6 | | B |
| 1949 PV | 14.0 | 490812 | 356.68 | 199.45 | 132.15 | 6.18 | 0.1744 | 2.4128 | 24 | 3 | 2 | B |
| 1949 QJ2 | 14.5 | 490812 | 337.55 | 212.01 | 153.88 | 9.97 | 0.2698 | 2.6709 | 4 | 4 | 3 | B |
| 1949 UG | 12.0 | 491031 | 344.63 | 25.14 | 37.16 | 7.63 | 0.2294 | 3.1576 | 28 | 3 | 2 | B |
| 1950 CJ | 12.5 | 500208 | 91.91 | 254.11 | 105.27 | 5.24 | 0.3502 | 3.0279 | 14 | 6 | | B |
| 1950 KC | 12.5 | 500519 | 65.60 | 335.97 | 186.68 | 13.05 | 0.1210 | 2.6212 | 21 | 4 | 2 | B |
| 1950 SH | 14.0 | 501006 | 12.43 | 95.60 | 258.11 | 3.14 | 0.1818 | 2.2796 | 23 | 4 | 2 | B |
| 1950 TF | 13.5 | 501006 | 43.87 | 0.43 | 315.92 | 5.81 | 0.1197 | 2.3502 | 7 | 3 | 2 | B |
| 1950 TO4 | 13.0 | 501006 | 322.66 | 117.53 | 298.82 | 7.15 | 0.1555 | 2.7462 | 7 | 3 | 2 | B |
| 1951 GC | 15.0 | 510404 | 336.77 | 172.64 | 56.98 | 9.33 | 0.1902 | 2.2540 | 5 | 3 | | B |
| 1951 JQ | 13.5 | 510514 | 312.34 | 24.15 | 263.19 | 7.74 | 0.1588 | 2.8150 | 31 | 4 | 2 | B |
| 1951 OM | 12.5 | 510822 | 6.61 | 260.60 | 45.14 | 1.53 | 0.1541 | 3.1207 | 33 | 4 | | B |
| 1951 RL | 13.5 | 511001 | 2.24 | 16.62 | 335.50 | 13.24 | 0.1706 | 2.6770 | 30 | 4 | | B |
| 1951 TA | 13.5 | 511001 | 359.54 | 199.35 | 202.05 | 13.60 | 0.2264 | 3.1473 | 16 | 5 | | M |
| 1951 WO2 | 12.7 | 511220 | 55.73 | 200.36 | 146.43 | 17.35 | 0.1037 | 3.1722 | 86 | 0 | | W |
| 1952 HS | 14.0 | 520418 | 327.13 | 63.26 | 190.57 | 5.67 | 0.1460 | 2.2992 | 10 | 5 | | B |
| 1952 JH | 13.0 | 520518 | 52.33 | 301.73 | 231.25 | 8.60 | 0.1853 | 2.6860 | 24 | 5 | 2 | B |
| 1952 QX | 14.5 | 520925 | 342.33 | 271.35 | 104.39 | 5.09 | 0.1710 | 2.2426 | 42 | 0 | 2 | B |
| 1952 SG | 15.5 | 520925 | 23.13 | 193.57 | 124.42 | 4.89 | 0.1919 | 2.3040 | 9 | 6 | 2 | B |
| 1956 PG | 13.5 | 560815 | 303.19 | 81.57 | 306.12 | 1.09 | 0.1317 | 2.7258 | 32 | 3 | | B |
| 1978 VW2 | 16.0 | 781108 | 311.10 | 350.70 | 134.98 | 1.72 | 0.1386 | 3.1581 | 25 | 8 | | M |
| 1978 VX2 | 17.5 | 781108 | 295.54 | 259.23 | 236.84 | 12.46 | 0.0900 | 2.5519 | 25 | 6 | | M |
| 1978 VC3 | 16.0 | 781108 | 66.39 | 76.25 | 256.66 | 5.23 | 0.2086 | 2.7965 | 25 | 8 | | M |
| 1978 VD3 | 16.5 | 781108 | 13.74 | 101.05 | 307.52 | 1.38 | 0.0108 | 2.6091 | 24 | 6 | | M |
| 1978 VE3 | 15.0 | 781108 | 119.97 | 37.22 | 256.19 | 7.07 | 0.1279 | 3.1500 | 25 | 8 | | M |
| 1978 VF3 | 17.5 | 781108 | 1.55 | 5.50 | 50.42 | 1.49 | 0.2298 | 2.4066 | 23 | 6 | | M |
| 1978 VG3 | 14.0 | 781108 | 342.97 | 24.43 | 61.68 | 15.51 | 0.1533 | 3.0296 | 24 | 5 | | M |
| 1978 VH3 | 15.0 | 781108 | 92.86 | 247.55 | 72.26 | 10.65 | 0.1028 | 3.0515 | 25 | 7 | | M |
| 1978 VJ3 | 16.0 | 781108 | 262.43 | 274.69 | 254.68 | 9.27 | 0.0683 | 3.0575 | 25 | 8 | | M |
| 1978 VK3 | 16.5 | 781108 | 122.56 | 41.71 | 254.24 | 4.13 | 0.0469 | 2.5953 | 24 | 5 | | M |
| 1978 VL3 | 17.0 | 781108 | 83.75 | 272.65 | 47.47 | 3.52 | 0.1544 | 2.2831 | 25 | 5 | | M |
| 1978 VN3 | 17.5 | 781108 | 359.36 | 198.70 | 224.05 | 3.75 | 0.1024 | 2.7304 | 25 | 8 | | M |
| 1978 VO3 | 18.0 | 781108 | 63.23 | 123.86 | 210.93 | 2.34 | 0.2029 | 2.3275 | 25 | 5 | | M |
| 1978 VQ3 | 16.0 | 781108 | 328.28 | 222.16 | 239.15 | 8.99 | 0.1165 | 2.5471 | 25 | 7 | | M |
| 1978 VR3 | 18.5 | 781108 | 15.54 | 166.00 | 230.15 | 1.49 | 0.1923 | 2.3738 | 25 | 5 | | M |
| 1978 VS3 | 18.5 | 781108 | 338.83 | 212.31 | 236.98 | 5.13 | 0.1655 | 2.3564 | 24 | 6 | | M |
| 1978 VT3 | 16.5 | 781108 | 167.95 | 190.53 | 63.53 | 16.10 | 0.0540 | 2.5400 | 24 | 6 | | M |
| 1978 VU3 | 16.5 | 781108 | 40.55 | 111.46 | 243.31 | 5.37 | 0.2743 | 2.8131 | 24 | 7 | | M |
| 1978 VV3 | 15.0 | 781108 | 293.05 | 78.28 | 63.02 | 12.29 | 0.0920 | 3.0333 | 24 | 7 | | M |
| 1978 VW3 | 17.5 | 781108 | 323.10 | 213.71 | 246.14 | 5.80 | 0.0165 | 2.3821 | 24 | 5 | | M |
| 1978 VX3 | 16.0 | 781108 | 258.76 | 300.81 | 253.09 | 3.99 | 0.2770 | 2.7313 | 24 | 7 | | M |
| 1978 VY3 | 16.5 | 781108 | 38.64 | 100.93 | 269.33 | 3.21 | 0.1540 | 2.5616 | 24 | 7 | | M |
| 1978 VZ3 | 15.5 | 781108 | 7.43 | 48.22 | 6.60 | 1.73 | 0.0710 | 2.8538 | 24 | 5 | | M |
| 1978 VB4 | 18.0 | 781108 | 15.79 | 146.35 | 251.60 | 4.77 | 0.1546 | 2.2960 | 25 | 8 | | F |
| 1978 VC4 | 16.5 | 781108 | 335.38 | 87.73 | 3.52 | 1.47 | 0.0567 | 2.8495 | 24 | 5 | | F |
| 1978 VD4 | 16.0 | 781108 | 110.82 | 254.75 | 48.97 | 3.38 | 0.0901 | 2.6474 | 24 | 5 | | F |
| 1978 VE4 | 18.5 | 781108 | 29.37 | 326.68 | 52.33 | 3.96 | 0.1683 | 2.2995 | 24 | 6 | | F |
| 1978 VF4 | 15.5 | 781108 | 33.17 | 322.09 | 54.64 | 2.94 | 0.1783 | 3.0707 | 24 | 5 | | F |
| 1978 VG4 | 16.5 | 781108 | 230.69 | 138.17 | 57.86 | 3.51 | 0.0328 | 2.7163 | 24 | 5 | | F |

| | | | | | | | | | | | | |
|------|-----|------|--------|--------|--------|--------|-------|--------|--------|----|---|-----|
| 1978 | VH4 | 17.5 | 781108 | 303.32 | 265.89 | 229.23 | 1.63 | 0.1617 | 2.3907 | 24 | 7 | F |
| 1978 | VJ4 | 18.0 | 781108 | 9.93 | 169.82 | 235.40 | 4.06 | 0.1871 | 2.4522 | 24 | 5 | F |
| 1978 | VK4 | 13.5 | 781108 | 68.33 | 141.98 | 201.29 | 0.97 | 0.1178 | 3.1870 | 24 | 5 | 1 F |
| 1978 | VL4 | 18.5 | 781108 | 352.29 | 201.09 | 229.73 | 4.10 | 0.2310 | 2.3069 | 24 | 5 | F |
| 1978 | VM4 | 17.5 | 781108 | 16.29 | 313.74 | 82.16 | 3.38 | 0.1937 | 2.5337 | 24 | 6 | F |
| 1978 | VN4 | 17.5 | 781108 | 49.78 | 250.09 | 102.70 | 2.17 | 0.1838 | 2.4249 | 24 | 7 | F |
| 1978 | VO4 | 16.0 | 781108 | 153.34 | 175.26 | 87.88 | 3.89 | 0.1639 | 2.3727 | 24 | 7 | F |
| 1978 | VP4 | 16.5 | 781108 | 359.36 | 241.12 | 183.21 | 1.80 | 0.0534 | 2.8617 | 24 | 5 | F |
| 1978 | VR4 | 16.5 | 781108 | 322.62 | 239.18 | 227.17 | 4.10 | 0.1142 | 2.1969 | 25 | 6 | F |
| 1978 | VS4 | 13.0 | 781108 | 169.34 | 292.85 | 321.06 | 0.41 | 0.1801 | 3.0806 | 24 | 5 | F |
| 1978 | VT4 | 15.5 | 781108 | 327.57 | 71.22 | 34.96 | 1.53 | 0.1354 | 3.1201 | 24 | 5 | F |
| 1978 | VW4 | 18.0 | 781108 | 4.16 | 15.13 | 38.60 | 1.69 | 0.1857 | 2.3913 | 25 | 6 | F |
| 1978 | VX4 | 17.0 | 781108 | 59.76 | 277.05 | 65.50 | 3.99 | 0.1753 | 2.3527 | 24 | 7 | F |
| 1978 | VZ4 | 15.0 | 781108 | 203.55 | 37.46 | 189.72 | 2.15 | 0.1488 | 2.6336 | 25 | 6 | F |
| 1978 | VA5 | 16.0 | 781108 | 20.35 | 291.35 | 95.34 | 2.92 | 0.2733 | 3.2010 | 24 | 5 | F |
| 1978 | VB5 | 16.0 | 781108 | 217.87 | 140.72 | 71.28 | 7.38 | 0.1034 | 2.3805 | 24 | 6 | F |
| 1978 | VC5 | 16.5 | 781108 | 306.15 | 278.52 | 217.11 | 2.23 | 0.1928 | 2.3910 | 24 | 5 | F |
| 1978 | VD5 | 15.5 | 781108 | 314.89 | 299.11 | 183.67 | 1.25 | 0.1444 | 3.0871 | 24 | 5 | F |
| 1978 | VE5 | 15.0 | 781108 | 47.97 | 283.73 | 67.06 | 8.37 | 0.2346 | 2.7836 | 24 | 5 | F |
| 1978 | VF5 | 17.0 | 781108 | 296.14 | 67.45 | 66.66 | 7.40 | 0.0756 | 2.3632 | 25 | 5 | F |
| 1978 | VG5 | 15.0 | 781108 | 305.11 | 174.61 | 320.92 | 0.55 | 0.1516 | 3.1060 | 24 | 5 | F |
| 1978 | VH5 | 15.5 | 781108 | 284.59 | 254.70 | 249.04 | 9.03 | 0.0284 | 3.0173 | 25 | 6 | F |
| 1978 | VL5 | 15.5 | 781108 | 80.35 | 55.53 | 265.68 | 4.53 | 0.1790 | 2.2419 | 25 | 6 | 1 F |
| 1978 | VO5 | 17.5 | 781108 | 23.48 | 120.18 | 271.58 | 2.58 | 0.1100 | 2.2912 | 25 | 6 | M |
| 1978 | VP5 | 14.5 | 781108 | 73.54 | 297.02 | 33.25 | 1.30 | 0.1898 | 3.1057 | 25 | 6 | F |
| 1978 | VQ5 | 14.5 | 781108 | 221.31 | 136.49 | 72.20 | 3.35 | 0.0585 | 3.0386 | 24 | 5 | F |
| 1978 | VS5 | 15.5 | 781108 | 181.45 | 12.09 | 231.59 | 1.81 | 0.1640 | 2.4342 | 25 | 6 | F |
| 1978 | VU5 | 16.5 | 781108 | 58.56 | 166.34 | 194.13 | 2.10 | 0.0368 | 2.4219 | 25 | 6 | F |
| 1978 | VV5 | 15.5 | 781108 | 251.48 | 45.85 | 139.49 | 1.73 | 0.1341 | 2.3254 | 24 | 5 | F |
| 1978 | VW5 | 18.0 | 781108 | 55.48 | 125.31 | 213.88 | 2.12 | 0.2439 | 2.3455 | 24 | 5 | F |
| 1978 | VX5 | 17.5 | 781108 | 100.75 | 234.93 | 69.11 | 6.46 | 0.1691 | 2.2513 | 25 | 5 | F |
| 1978 | VY5 | 17.0 | 781108 | 340.58 | 11.98 | 74.88 | 2.18 | 0.1595 | 2.2581 | 24 | 5 | F |
| 1978 | VZ5 | 16.0 | 781108 | 297.54 | 266.33 | 238.62 | 4.69 | 0.1632 | 2.8713 | 24 | 5 | F |
| 1978 | VB6 | 15.5 | 781108 | 140.39 | 26.98 | 244.86 | 23.43 | 0.2013 | 2.3306 | 25 | 6 | B |
| 1978 | VC6 | 16.5 | 781108 | 52.54 | 87.68 | 244.07 | 9.66 | 0.3405 | 2.6305 | 24 | 5 | B |
| 1978 | VE6 | 17.0 | 781108 | 127.00 | 236.34 | 45.50 | 1.94 | 0.1982 | 2.3516 | 25 | 4 | M |
| 1978 | VF6 | 17.5 | 781108 | 283.36 | 257.80 | 254.98 | 5.23 | 0.1167 | 2.3524 | 25 | 6 | B |
| 1978 | VG6 | 11.5 | 781108 | 234.17 | 282.47 | 291.65 | 2.53 | 0.2282 | 4.9855 | 25 | 6 | 2 M |
| 1978 | VO6 | 16.5 | 781108 | 82.84 | 55.42 | 272.23 | 3.64 | 0.1064 | 2.2534 | 25 | 6 | B |
| 1978 | VP6 | 17.0 | 781108 | 62.55 | 12.25 | 324.94 | 1.58 | 0.2132 | 2.5856 | 25 | 5 | B |
| 1978 | VT6 | 16.5 | 781108 | 132.01 | 23.31 | 260.77 | 3.41 | 0.0825 | 2.1428 | 25 | 6 | B |
| 1978 | VU6 | 17.0 | 781108 | 6.93 | 142.28 | 269.17 | 1.73 | 0.1661 | 2.4519 | 24 | 5 | B |
| 1978 | VV6 | 17.0 | 781108 | 75.90 | 275.39 | 47.17 | 2.81 | 0.2076 | 2.2508 | 24 | 5 | B |
| 1978 | VW6 | 17.0 | 781108 | 0.51 | 178.39 | 242.89 | 13.15 | 0.1505 | 2.5663 | 24 | 5 | B |
| 1978 | VX6 | 16.5 | 781108 | 302.26 | 74.36 | 62.48 | 12.37 | 0.1481 | 2.5952 | 24 | 5 | B |
| 1978 | VZ6 | 15.5 | 781108 | 182.05 | 1.33 | 243.09 | 1.90 | 0.0397 | 3.0803 | 25 | 6 | 1 B |
| 1978 | VB7 | 16.5 | 781108 | 28.73 | 142.83 | 242.29 | 11.51 | 0.1460 | 2.7509 | 25 | 6 | B |
| 1978 | VD7 | 16.0 | 781108 | 16.12 | 331.30 | 74.22 | 3.12 | 0.0756 | 2.8402 | 25 | 6 | B |
| 1978 | VE7 | 17.0 | 781108 | 52.85 | 170.66 | 175.95 | 0.76 | 0.2103 | 2.3293 | 25 | 5 | B |
| 1978 | VF7 | 17.5 | 781108 | 282.59 | 75.68 | 84.89 | 3.70 | 0.1714 | 2.4520 | 25 | 5 | B |
| 1978 | VG7 | 17.0 | 781108 | 78.73 | 158.77 | 164.41 | 0.91 | 0.1825 | 2.2797 | 25 | 5 | B |
| 1978 | VH7 | 18.0 | 781108 | 356.66 | 358.45 | 66.28 | 5.84 | 0.1796 | 2.2679 | 24 | 4 | B |
| 1978 | VJ7 | 14.0 | 781108 | 200.01 | 39.23 | 192.81 | 0.73 | 0.1422 | 3.0889 | 24 | 5 | B |
| 1978 | VL7 | 16.5 | 781108 | 159.68 | 25.87 | 235.08 | 2.12 | 0.0620 | 2.1779 | 25 | 6 | B |
| 1978 | VM7 | 17.5 | 781108 | 56.43 | 90.19 | 241.29 | 6.26 | 0.3106 | 2.5792 | 25 | 5 | B |
| 1978 | VQ7 | 16.5 | 781108 | 295.11 | 249.89 | 251.33 | 7.68 | 0.1061 | 2.7490 | 25 | 6 | B |
| 1978 | VU7 | 15.0 | 781108 | 27.04 | 60.69 | 333.04 | 1.26 | 0.0758 | 2.8238 | 25 | 6 | B |
| 1978 | VW7 | 18.5 | 781108 | 3.49 | 143.06 | 271.58 | 1.31 | 0.2165 | 2.3753 | 25 | 6 | B |
| 1978 | VY7 | 16.0 | 781108 | 295.74 | 97.45 | 48.93 | 3.08 | 0.1420 | 3.1224 | 25 | 6 | B |

| | | | | | | | | | | | | |
|------|------|------|--------|--------|--------|--------|-------|--------|--------|----|---|-----|
| 1978 | VZ7 | 15.0 | 781108 | 88.40 | 292.02 | 24.47 | 1.09 | 0.1948 | 3.0454 | 24 | 5 | B |
| 1978 | VC8 | 18.5 | 781108 | 12.09 | 162.25 | 243.25 | 6.28 | 0.1211 | 2.2257 | 25 | 6 | B |
| 1978 | VD8 | 17.5 | 781108 | 162.56 | 201.18 | 58.23 | 3.43 | 0.0479 | 2.2426 | 25 | 6 | B |
| 1978 | VE8 | 16.5 | 781108 | 313.13 | 58.28 | 60.37 | 3.17 | 0.0653 | 3.0168 | 25 | 5 | B |
| 1978 | VF8 | 18.0 | 781108 | 40.72 | 307.14 | 61.37 | 7.75 | 0.1424 | 2.2484 | 24 | 5 | B |
| 1978 | VG8 | 17.5 | 781108 | 50.31 | 281.32 | 62.59 | 4.35 | 0.2692 | 2.5634 | 24 | 5 | B |
| 1978 | VH8 | 14.5 | 781108 | 135.00 | 42.33 | 245.20 | 1.04 | 0.0478 | 2.8447 | 24 | 5 | B |
| 1978 | VJ8 | 15.5 | 781108 | 163.68 | 75.13 | 185.80 | 0.85 | 0.1039 | 3.1395 | 24 | 5 | B |
| 1978 | VK8 | 16.0 | 781108 | 12.41 | 320.91 | 85.61 | 2.22 | 0.1563 | 2.8127 | 24 | 5 | B |
| 1978 | VL8 | 16.5 | 781108 | 28.14 | 313.10 | 68.30 | 18.19 | 0.2128 | 3.1223 | 25 | 5 | B |
| 1978 | VM8 | 17.5 | 781108 | 323.66 | 241.07 | 229.09 | 5.93 | 0.1486 | 2.3706 | 24 | 5 | B |
| 1978 | VO8 | 15.0 | 781108 | 292.92 | 40.92 | 109.84 | 2.54 | 0.1582 | 3.0519 | 25 | 6 | B |
| 1978 | VQ8 | 16.5 | 781108 | 259.69 | 315.00 | 222.81 | 4.35 | 0.1142 | 2.5842 | 25 | 6 | B |
| 1978 | VR8 | 18.0 | 781108 | 294.77 | 14.62 | 138.38 | 1.57 | 0.2203 | 2.2957 | 24 | 5 | B |
| 1978 | VS8 | 16.5 | 781108 | 309.14 | 295.75 | 184.72 | 1.88 | 0.0581 | 2.5260 | 24 | 5 | B |
| 1978 | VT8 | 15.5 | 781108 | 238.22 | 322.35 | 231.73 | 4.89 | 0.0565 | 2.9866 | 24 | 5 | B |
| 1978 | VU8 | 18.0 | 781108 | 349.86 | 355.26 | 82.00 | 2.48 | 0.2057 | 2.5250 | 24 | 5 | B |
| 1978 | VV8 | 18.5 | 781108 | 6.87 | 330.05 | 81.81 | 2.37 | 0.1695 | 2.4352 | 24 | 5 | B |
| 1978 | VW8 | 15.5 | 781108 | 359.45 | 344.76 | 81.21 | 2.59 | 0.1459 | 3.0977 | 24 | 5 | B |
| 1978 | VX8 | 16.0 | 781108 | 345.65 | 26.41 | 58.97 | 1.46 | 0.1582 | 3.1717 | 24 | 5 | B |
| 1978 | VY8 | 15.0 | 781108 | 102.46 | 76.10 | 247.83 | 10.48 | 0.0018 | 3.0430 | 24 | 4 | B |
| 1978 | VZ8 | 17.0 | 781108 | 0.51 | 3.97 | 58.89 | 3.86 | 0.1125 | 2.6038 | 24 | 5 | B |
| 1978 | VA9 | 18.0 | 781108 | 326.38 | 231.31 | 246.04 | 4.48 | 0.2576 | 2.5685 | 24 | 5 | M |
| 1978 | VB9 | 19.0 | 781108 | 14.51 | 344.03 | 54.30 | 3.40 | 0.2030 | 2.3363 | 25 | 5 | M |
| 1978 | VE9 | 15.0 | 781108 | 81.17 | 30.19 | 298.10 | 1.07 | 0.1509 | 3.0519 | 25 | 6 | M |
| 1978 | VH9 | 17.0 | 781108 | 302.86 | 248.50 | 260.19 | 5.11 | 0.2481 | 2.5718 | 25 | 6 | M |
| 1978 | VK9 | 16.0 | 781108 | 31.96 | 132.65 | 244.72 | 4.57 | 0.1640 | 2.2494 | 25 | 6 | M |
| 1978 | VL9 | 18.0 | 781108 | 15.24 | 240.33 | 161.31 | 1.66 | 0.1630 | 2.6066 | 25 | 5 | M |
| 1978 | VM9 | 17.0 | 781108 | 348.59 | 357.47 | 79.33 | 5.15 | 0.1117 | 2.3893 | 24 | 5 | M |
| 1978 | VN9 | 15.5 | 781108 | 218.28 | 121.17 | 89.45 | 4.05 | 0.0493 | 2.5905 | 25 | 6 | 1 M |
| 1978 | VP9 | 17.5 | 781108 | 92.72 | 79.54 | 237.22 | 6.47 | 0.1321 | 2.3311 | 25 | 6 | M |
| 1978 | VQ9 | 16.0 | 781108 | 82.70 | 250.64 | 67.77 | 13.16 | 0.2125 | 2.5645 | 24 | 5 | M |
| 1978 | VR9 | 15.5 | 781108 | 4.61 | 337.81 | 81.20 | 2.05 | 0.1543 | 3.0767 | 24 | 5 | M |
| 1978 | VS9 | 18.5 | 781108 | 8.82 | 179.57 | 230.62 | 0.46 | 0.1446 | 2.3744 | 24 | 5 | M |
| 1978 | VT9 | 17.5 | 781108 | 61.51 | 285.40 | 55.37 | 3.94 | 0.1831 | 2.2127 | 24 | 5 | M |
| 1978 | VU9 | 18.0 | 781108 | 357.33 | 12.30 | 53.73 | 3.92 | 0.1633 | 2.4490 | 24 | 5 | M |
| 1978 | VV9 | 15.0 | 781108 | 205.48 | 317.83 | 270.06 | 2.54 | 0.1127 | 3.1286 | 24 | 5 | M |
| 1978 | VB10 | 16.0 | 781108 | 185.63 | 344.06 | 259.15 | 9.35 | 0.1311 | 2.7473 | 25 | 6 | M |
| 1978 | VD10 | 18.5 | 781108 | 28.35 | 120.14 | 249.15 | 2.18 | 0.3069 | 2.5936 | 25 | 5 | M |
| 1978 | VE10 | 16.0 | 781108 | 75.07 | 266.04 | 59.83 | 1.79 | 0.2334 | 3.1872 | 25 | 5 | 1 M |
| 1978 | VG10 | 14.0 | 781108 | 84.94 | 187.43 | 140.70 | 0.77 | 0.1273 | 3.1223 | 25 | 6 | M |
| 1978 | VJ10 | 17.0 | 781108 | 43.32 | 274.43 | 80.52 | 4.64 | 0.2582 | 2.7023 | 25 | 5 | M |
| 1978 | VK10 | 16.0 | 781108 | 114.09 | 209.32 | 96.15 | 3.48 | 0.0472 | 2.3844 | 24 | 5 | M |
| 1978 | VL10 | 16.0 | 781108 | 18.39 | 241.21 | 161.14 | 1.95 | 0.1118 | 2.8928 | 24 | 5 | M |
| 1978 | VM10 | 16.0 | 781108 | 163.63 | 165.51 | 95.99 | 3.79 | 0.0482 | 2.6978 | 25 | 6 | M |
| 1978 | VN10 | 16.0 | 781108 | 321.41 | 271.22 | 208.10 | 2.94 | 0.1720 | 3.0514 | 24 | 5 | M |
| 1978 | VO10 | 18.0 | 781108 | 350.75 | 5.92 | 70.49 | 8.83 | 0.1699 | 2.6043 | 25 | 5 | M |
| 1978 | VP10 | 16.5 | 781108 | 101.71 | 236.81 | 80.17 | 3.98 | 0.0573 | 2.4274 | 24 | 5 | M |
| 1978 | VQ10 | 16.5 | 781108 | 14.30 | 162.44 | 238.31 | 7.25 | 0.2213 | 2.7827 | 24 | 5 | M |
| 1978 | VR10 | 16.5 | 781108 | 269.58 | 110.87 | 69.00 | 10.95 | 0.1997 | 2.8089 | 24 | 5 | M |
| 1978 | VS10 | 15.0 | 781108 | 93.16 | 252.80 | 71.47 | 3.47 | 0.0774 | 2.6647 | 24 | 5 | M |
| 1978 | VT10 | 17.0 | 781108 | 75.97 | 94.36 | 237.69 | 1.74 | 0.1462 | 2.4084 | 24 | 5 | M |
| 1978 | VU10 | 17.0 | 781108 | 82.48 | 61.62 | 256.81 | 2.04 | 0.2042 | 2.2451 | 24 | 5 | M |
| 1978 | VE11 | 17.0 | 781108 | 277.44 | 268.74 | 245.25 | 6.19 | 0.0652 | 2.2139 | 25 | 6 | M |
| 1978 | VG11 | 16.5 | 781108 | 32.90 | 309.70 | 64.12 | 6.73 | 0.2183 | 2.6493 | 25 | 6 | M |
| 1978 | VH11 | 16.5 | 781108 | 43.76 | 304.35 | 70.91 | 4.64 | 0.0787 | 2.6662 | 24 | 5 | M |
| 1978 | VJ11 | 17.0 | 781108 | 44.12 | 300.75 | 71.48 | 6.41 | 0.1079 | 2.7876 | 25 | 5 | M |
| 1978 | VL11 | 15.5 | 781108 | 218.31 | 143.59 | 74.81 | 5.73 | 0.1665 | 2.4140 | 25 | 6 | M |
| 1978 | VM11 | 17.0 | 781108 | 283.67 | 92.52 | 74.38 | 5.67 | 0.2160 | 2.5810 | 25 | 5 | M |

| | | | | | | | | | | | | |
|------|------|------|--------|--------|--------|--------|-------|--------|--------|-----|---|-----|
| 1978 | VN11 | 15.0 | 781108 | 356.41 | 290.39 | 140.57 | 1.81 | 0.1489 | 3.0873 | 25 | 5 | M |
| 1978 | VP11 | 15.0 | 781108 | 60.17 | 252.85 | 94.52 | 3.11 | 0.1829 | 3.1844 | 25 | 5 | 1 M |
| 1979 | KA | 12.5 | 790726 | 316.08 | 190.52 | 142.47 | 8.90 | 0.1412 | 2.7368 | 123 | 9 | M |
| 1979 | OA | 14.5 | 790904 | 24.03 | 340.65 | 297.64 | 24.95 | 0.3777 | 2.9099 | 117 | 9 | M |
| 1979 | OB | 16.0 | 790904 | 10.06 | 139.56 | 180.72 | 5.61 | 0.2838 | 2.2241 | 117 | 0 | M |
| 1979 | OC | 14.5 | 790904 | 7.65 | 64.40 | 255.25 | 7.45 | 0.0856 | 2.2907 | 117 | 0 | M |
| 1979 | QB | 15.0 | 790924 | 359.71 | 11.34 | 342.16 | 3.37 | 0.4422 | 2.3294 | 67 | 0 | M |
| 1979 | SA | 11.5 | 790924 | 254.74 | 273.49 | 205.09 | 18.80 | 0.1928 | 3.2301 | 53 | 0 | M |
| 1979 | SE | 13.5 | 791014 | 239.09 | 18.76 | 88.11 | 3.27 | 0.0257 | 2.8444 | 40 | 7 | M |
| 1979 | SF | 13.5 | 791014 | 62.26 | 319.29 | 333.76 | 8.49 | 0.0764 | 2.6800 | 32 | 0 | M |
| 1979 | SH | 16.0 | 791014 | 352.99 | 48.40 | 331.89 | 5.26 | 0.2786 | 2.6112 | 28 | 0 | M |
| 1979 | SJ | 16.0 | 791014 | 19.60 | 338.71 | 359.66 | 5.48 | 0.2163 | 2.3273 | 29 | 0 | M |
| 1979 | SO | 15.0 | 791014 | 6.31 | 349.18 | 8.37 | 8.20 | 0.2295 | 2.7765 | 24 | 0 | M |
| 1979 | SP | 13.0 | 791014 | 335.67 | 257.86 | 140.43 | 1.92 | 0.1594 | 3.1437 | 24 | 0 | M |
| 1979 | SQ | 13.5 | 791014 | 18.71 | 48.73 | 289.77 | 3.26 | 0.1269 | 2.5478 | 20 | 0 | M |
| 1979 | SR | 14.0 | 791014 | 21.03 | 126.95 | 206.33 | 8.56 | 0.1687 | 2.7693 | 24 | 0 | M |
| 1979 | SS | 15.5 | 791014 | 8.04 | 19.17 | 334.52 | 6.32 | 0.1749 | 2.3841 | 20 | 0 | M |
| 1979 | UQ | 16.0 | 791014 | 12.63 | 124.51 | 246.87 | 2.33 | 0.1984 | 2.1438 | 6 | 8 | M |
| 1979 | UR | 15.0 | 791014 | 29.58 | 344.13 | 16.35 | 7.13 | 0.0870 | 2.6547 | 4 | 6 | M |
| 1979 | US | 14.5 | 791014 | 13.97 | 7.11 | 7.65 | 3.67 | 0.1731 | 2.8158 | 4 | 6 | M |
| 1979 | UT | 14.0 | 791014 | 7.69 | 156.62 | 228.46 | 14.71 | 0.1709 | 3.2053 | 4 | 6 | 1 M |
| 1979 | UU | 13.5 | 791014 | 297.62 | 158.62 | 308.07 | 1.46 | 0.0774 | 2.6832 | 37 | 0 | M |
| 1979 | UX | 13.5 | 791014 | 40.71 | 343.77 | 357.48 | 3.84 | 0.1804 | 2.9482 | 6 | 6 | M |
| 1979 | UZ | 12.0 | 791014 | 229.22 | 99.62 | 75.67 | 14.61 | 0.1654 | 2.9094 | 24 | 8 | M |
| 1979 | UA1 | 13.5 | 791014 | 156.33 | 87.24 | 146.19 | 9.61 | 0.0985 | 2.5999 | 6 | 5 | M |

Note 1: e assumed. 2: double designations 1949 PV = 1949 QD1 (P, NAZ 12, 22); 1949 QJ2 = 1949 QA1 (A, MPC 383; see also MPC 5067); 1949 UG = 1949 UU (X, MPC 782); 1950 KC = 1950 LQ (T, MPC 491); 1950 SH = 1950 TK = 1950 TW2 (P, MPC 650 and 1331); 1950 TF = 1950 TU2 (P, MPC 650); 1950 TO4 = 1950 TU (P, MPC 777; see also MPC 5067); 1951 JQ = 1951 LE (P, MPC 1968); 1952 JH = 1952 KB (P, MPC 1968); 1952 QX = 1952 SC = 1952 TJ (P, MPC 936 and 1331); 1952 SG = 1952 SS (P, MPC 936); 1978 VG6 = 1978 WS12 (W).
3 = 1 + 2.

* * * * *

ORBITAL ELEMENTS BY D. K. YEOMANS, JET PROPULSION LABORATORY.

Periodic Comet Tuttle

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

T 1980 Dec. 14.71195 ET

| q | 1.0149415 | (1950.0) | P | Q |
|---|------------|-----------------|-------------|-------------|
| n | 0.07203584 | Peri. 206.89399 | -0.26107416 | -0.51930930 |
| a | 5.7205391 | Node 269.88155 | +0.96516246 | -0.12525874 |
| e | 0.8225794 | Incl. 54.46225 | +0.01736924 | -0.84535679 |

P 13.68

From 58 observations 1912-1967. Nongravitational parameters A1 = -0.04, A2 = +0.0131.

Periodic Comet Borrelly

Epoch 1981 Feb. 25.0 ET = JDE 2444660.5

T 1981 Feb. 20.02959 ET

| q | 1.3192461 | (1950.0) | P | Q |
|---|------------|-----------------|-------------|-------------|
| n | 0.14550969 | Peri. 352.77160 | +0.36086641 | -0.79596332 |
| a | 3.5799320 | Node 75.05769 | +0.87882852 | +0.11580120 |
| e | 0.6314885 | Incl. 30.20080 | +0.31214716 | +0.59416536 |

P 6.77

From 40 observations 1932-1975. Nongravitational parameters A1 = +0.10, A2 = -0.0378.

ORBITAL ELEMENTS BY S. NAKANO, SUMOTO, AND T. URATA, SHIMIZU, JAPAN.

The following orbital elements are from NOC 1083, 1077, 1082, 1078 and 1081, respectively. Identifications are by Urata unless otherwise stated.

(2189)* 1975 QK = 1976 UE

Discovered 1975 Aug. 30 at the El Leoncito Station of the Felix Aguilar Observatory.

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5

| | | | | | | | |
|---|------------|--------|-----------|--|-------------|--|-------------|
| M | 31.02056 | | (1950.0) | | P | | Q |
| n | 0.26468006 | Peri. | 216.19083 | | +0.95102891 | | +0.24482723 |
| a | 2.4024548 | Node | 128.53318 | | -0.19501034 | | +0.94885866 |
| e | 0.2258004 | Incl. | 13.95822 | | -0.23982282 | | +0.19931598 |
| P | 3.72 | B(1,0) | 14.0 | | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 750830 | 808 | 0.5- | 0.6- | 750909 | 808 | 1.2+ | 0.7- | 761101 | 809 | 0.9+ | 0.3- |
| 750830 | 808 | 0.1+ | 0.6- | 761024 | 809 | 1.5- | 0.9- | 761102 | 809 | 0.5+ | 0.6- |
| 750831 | 808 | 0.1+ | 0.3+ | 761025 | 809 | 0.2- | 0.4+ | 761102 | 809 | 0.4- | 0.4+ |
| 750902 | 808 | 0.3- | 0.2+ | 761031 | 809 | 0.2+ | 0.1- | 791120 | 879 | 1.0- | 0.5+ |
| 750905 | 808 | 0.7- | 0.3+ | 761031 | 809 | 0.6+ | 0.7- | 791120 | 879 | 0.1- | 0.3- |
| 750906 | 808 | 0.1- | 0.0 | 761101 | 809 | 0.1- | 0.2- | 791120 | 879 | 0.9+ | 0.6+ |

(2190)* 1976 GV3 = 1973 QR = 1977 QO1

Discovered 1976 Apr. 2 by N. S. Chernykh at the Crimean Astrophysical Observatory.

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5

| | | | | | | | |
|---|------------|--------|-----------|--|-------------|--|-------------|
| M | 329.60952 | | (1950.0) | | P | | Q |
| n | 0.25382980 | Peri. | 316.92110 | | -0.77756683 | | +0.62863665 |
| a | 2.4704400 | Node | 262.03410 | | -0.57287690 | | -0.71763346 |
| e | 0.0914728 | Incl. | 0.82995 | | -0.25923325 | | -0.29969679 |
| P | 3.88 | B(1,0) | 13.6 | | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|-------|-------|--------|-----|------|------|--------|-----|------|------|
| 730827 | 095 | 1.0+ | 1.6- | 760423 | 808 | 2.1+ | 0.8+ | 760502 | 095 | 1.4- | 0.2- |
| 730905 | 095 | 0.2- | 0.3- | 760423 | 808 | 0.7+ | 1.0+ | 760503 | 808 | 0.5+ | 1.5- |
| 760401 | 808 | (3.7- | 1.2+) | 760427 | 808 | 1.0- | 0.0 | 760503 | 808 | 0.5+ | 0.5+ |
| 760401 | 808 | 0.3- | 1.6+ | 760427 | 808 | 1.0- | 0.4- | 770819 | 095 | 0.5- | 1.5+ |
| 760402 | 095 | 0.2- | 1.4- | 760430 | 808 | 0.1- | 0.3+ | 770820 | 095 | 0.8- | 1.1+ |
| 760405 | 095 | (3.0+ | 0.2-) | 760430 | 808 | 0.2+ | 0.4- | 770909 | 095 | 0.2+ | 0.2- |

(2191)* 1977 PA1 = 1972 RP3 = 1978 VB1

Discovered 1977 Aug. 6 by C.-I. Lagerkvist at the Uppsala Southern Station, Mount Stromlo.

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5

| | | | | | | | |
|---|------------|--------|-----------|--|-------------|--|-------------|
| M | 58.37507 | | (1950.0) | | P | | Q |
| n | 0.18779676 | Peri. | 179.89885 | | +0.38394266 | | -0.91189375 |
| a | 3.0200258 | Node | 247.52178 | | +0.84701147 | | +0.41036876 |
| e | 0.0852029 | Incl. | 9.03107 | | +0.36764057 | | +0.00687591 |
| P | 5.25 | B(1,0) | 12.4 | | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 720905 | 095 | 0.7+ | 1.8- | 770814 | 414 | 1.4- | 1.4- | 781030 | 010 | 1.1- | 1.1+ |
| 770806 | 414 | 0.7- | 0.8+ | 770904 | 414 | 0.9- | 0.5- | 781101 | 010 | 0.4- | 1.2+ |
| 770809 | 414 | 0.1- | 1.3+ | 770904 | 414 | 1.6- | 1.2- | 781101 | 010 | 0.1- | 0.9+ |
| 770809 | 414 | 0.5+ | 1.2+ | 770907 | 414 | 0.5+ | 1.0+ | 781102 | 010 | 1.1+ | 1.0- |
| 770814 | 414 | 2.3+ | 0.5- | 770907 | 414 | 0.8+ | 0.9+ | 781102 | 010 | 0.4+ | 1.4- |

1976 GC8 = 1976 JJ = 1972 LT

The double designation 1976 GC8 = 1976 JJ is by B. G. Marsden (MPC 4927).

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5

| | | | | | | |
|--------------|--------|-----------|--|-------------|--|-------------|
| M 195.55443 | | (1950.0) | | P | | Q |
| n 0.21216050 | Peri. | 240.76541 | | +0.31689879 | | +0.94784751 |
| a 2.7841525 | Node | 47.75141 | | -0.85339466 | | +0.30062334 |
| e 0.0452874 | Incl. | 2.63745 | | -0.41387524 | | +0.10588063 |
| P 4.65 | B(1,0) | 13.2 | | | | |

Residuals in seconds of arc

| | | | | | | | | |
|------------|------|------|------------|------|------|------------|------|------|
| 720609 095 | 1.4- | 1.3- | 760428 805 | 0.1+ | 0.2- | 760502 805 | 1.0+ | 1.2- |
| 720615 095 | 1.4+ | 1.2+ | 760428 805 | 0.0 | 1.5+ | 760502 805 | 0.5+ | 0.1+ |
| 760404 095 | 0.2+ | 0.2- | 760429 805 | 0.6- | 0.2+ | 760502 095 | 1.2- | 0.1- |

1978 VT = 1969 RF1 = 1971 BV1 = 1975 AA1 = 1976 GB5

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5

| | | | | | | |
|--------------|--------|-----------|--|-------------|--|-------------|
| M 113.16433 | | (1950.0) | | P | | Q |
| n 0.23266948 | Peri. | 24.97311 | | +0.91986746 | | -0.39222180 |
| a 2.6180409 | Node | 358.11463 | | +0.34629497 | | +0.81503540 |
| e 0.0712471 | Incl. | 4.23702 | | +0.18418371 | | +0.42647316 |
| P 4.24 | B(1,0) | 12.8 | | | | |

Residuals in seconds of arc

| | | | | | | | | |
|------------|------|------|------------|------|------|------------|------|------|
| 690913 095 | 0.6+ | 1.2- | 760402 095 | 1.0- | 2.1- | 781101 010 | 0.8- | 0.4- |
| 710130 095 | 0.4- | 0.1+ | 781030 010 | 0.1- | 0.0 | 781102 010 | 0.3- | 0.1- |
| 750109 330 | 0.7+ | 0.5+ | 781101 010 | 0.5+ | 0.2+ | 781102 010 | 0.7+ | 1.1- |

* * * * *

ORBITAL ELEMENTS BY B. G. MARSDEN, SMITHSONIAN ASTROPHYSICAL OBSERVATORY.

Comet Lovas (1976 XII)

Epoch 1976 Oct. 29.0 ET = JDE 2443080.5

T 1976 Oct. 31.98255 ET

| | | | | | | |
|--------------|-------|-----------|--|-------------|--|-------------|
| q 5.7152080 | | (1950.0) | | P | | Q |
| z -0.0006135 | Peri. | 146.27718 | | -0.67675364 | | -0.64989999 |
| +/-0.0000406 | Node | 337.47120 | | +0.29534729 | | +0.19068513 |
| e 1.0035061 | Incl. | 64.52041 | | +0.67436969 | | -0.73570998 |

From 16 observations 1977 Feb. 17-1978 Mar. 14, mean residual 1".4.

Comet Torres (1979e)

T 1979 July 15.89856 ET

| | | | | | | |
|-------------|-------|-----------|--|-------------|--|-------------|
| q 4.6863392 | | (1950.0) | | P | | Q |
| | Peri. | 10.17447 | | +0.36948896 | | -0.10172179 |
| | Node | 292.43576 | | -0.90722557 | | -0.25454595 |
| e 1.0 | Incl. | 92.16099 | | -0.20104642 | | +0.96169591 |

From 21 observations 1979 June 26-Oct. 23.

Periodic Comet Honda-Mrkos-Pajdusakova

Epoch 1980 May 1.0 ET = JDE 2444360.5

T 1980 Apr. 11.07297 ET

| | | | | | | |
|--------------|-------|-----------|--|-------------|--|-------------|
| q 0.5806079 | | (1950.0) | | P | | Q |
| n 0.18651481 | Peri. | 184.63263 | | +0.53808011 | | -0.82321074 |
| a 3.0338482 | Node | 232.92857 | | +0.78041252 | | +0.56773581 |
| e 0.8086233 | Incl. | 13.11837 | | +0.31847462 | | -0.00036050 |
| P 5.28 | | | | | | |

From 32 observations 1964-1975, mean residual 1".3. Nongravitational parameters A1 = +0.06, A2 = -0.0488.

Periodic Comet de Vico-Swift

Epoch 1980 July 20.0 ET = JDE 2444440.5

T 1980 July 13.91694 ET

| | | | | | | | |
|---|------------|-------|-----------|--|-------------|--|-------------|
| q | 2.1916665 | | (1950.0) | | P | | Q |
| n | 0.13287277 | Peri. | 1.96461 | | +0.99995350 | | -0.00926731 |
| a | 3.8034589 | Node | 358.55825 | | +0.00674916 | | +0.87008337 |
| e | 0.4237702 | Incl. | 6.08487 | | +0.00688803 | | +0.49281744 |
| P | 7.42 | | | | | | |

From an approximate linkage 1844-1965, with some allowance for nongravita-
tional effects. T is uncertain by several days.

Periodic Comet Encke

Epoch 1980 Nov. 17.0 ET = JDE 2444560.5

T 1980 Dec. 6.57730 ET

| | | | | | | | |
|---|------------|-------|-----------|--|-------------|--|-------------|
| q | 0.3399359 | | (1950.0) | | P | | Q |
| n | 0.29830752 | Peri. | 185.98135 | | -0.93976637 | | -0.32972901 |
| a | 2.2183322 | Node | 334.19633 | | +0.32155294 | | -0.76337923 |
| e | 0.8467606 | Incl. | 11.94591 | | +0.11594337 | | -0.55545560 |
| P | 3.30 | | | | | | |

From 62 observations 1963-1977. Nongravitational parameters A1 = 0.00,
A2 = -0.0035.

Periodic Comet Kearns-Kwee

Epoch 1981 Nov. 12.0 ET = JDE 2444920.5

T 1981 Nov. 30.54157 ET

| | | | | | | | |
|---|------------|-------|-----------|--|-------------|--|-------------|
| q | 2.2235422 | | (1950.0) | | P | | Q |
| n | 0.10969182 | Peri. | 131.38083 | | +0.05207710 | | -0.99257377 |
| a | 4.3220179 | Node | 315.26210 | | +0.86323382 | | +0.10009091 |
| e | 0.4855315 | Incl. | 8.98552 | | +0.50211089 | | -0.06913113 |
| P | 8.99 | | | | | | |

From 110 observations 1963-1973, mean residual 1".3.

(2192)* 1972 HP = 1971 DY1 = 1974 VY1 = 1977 EJ1 = 1979 SL

Discovered 1972 Apr. 18 by T. Smirnova at the Crimean Astrophysical
Observatory. The identifications 1972 HP = 1974 VY1 = 1977 EJ1 = 1979 SL
are by B. G. Marsden. The identification 1977 EJ1 = 1971 DY1 was suggested
by T. Urata (NOC 1053), who later independently found 1979 SL = 1972 HP =
1977 EJ1 (NOC 1084). The identifications 1972 HP = 1974 VT1 (NOC 986) and
1969 TD2 = 1974 VY1 (NOC 1067) are invalid.

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| | | | | | | | |
|---|------------|--------|-----------|--|-------------|--|-------------|
| M | 98.12622 | | (1950.0) | | P | | Q |
| n | 0.17774521 | Peri. | 136.13078 | | +0.92177250 | | +0.38266675 |
| a | 3.1328344 | Node | 201.60861 | | -0.38574749 | | +0.88880336 |
| e | 0.0903354 | Incl. | 9.76539 | | -0.03917053 | | +0.25217996 |
| P | 5.55 | B(1,0) | 12.5 | | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 710223 | 095 | 0.6+ | 5.1- | 790919 | 046 | 1.2+ | 0.9- | 791011 | 046 | 0.4- | 2.6- |
| 720418 | 095 | 1.6+ | 1.3+ | 790919 | 046 | 1.4- | 2.6- | 791011 | 046 | 0.7- | 4.0- |
| 720509 | 095 | 1.0+ | 0.9+ | 790925 | 046 | 0.1+ | 0.1- | 791011 | 046 | 2.6+ | 2.5+ |
| 720512 | 095 | 3.1- | 0.4- | 790925 | 046 | 1.5+ | 0.2- | 791011 | 046 | 2.1+ | 2.9+ |
| 741115 | 095 | 1.5- | 3.0+ | 790926 | 046 | 0.2- | 0.5- | 791015 | 046 | 0.4- | 0.2+ |
| 770313 | 095 | 0.9+ | 0.2- | 790926 | 046 | 0.8+ | 0.3+ | 791015 | 046 | 0.2+ | 1.3- |
| 770322 | 095 | 0.4- | 1.3- | 790927 | 046 | 0.2+ | 0.6+ | 791019 | 046 | 0.4- | 0.4+ |
| 770325 | 095 | 2.1- | 1.0- | 790927 | 046 | 0.4- | 0.0 | 791019 | 046 | 2.6- | 1.8- |

1938 TB = 1949 SO1 = 1972 TB2

The key identification 1938 TB = 1972 TB2 is by J. Lehtinen. The identification with 1949 SO1 is by B. G. Marsden.

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5 (J-P)

| M | 170.20367 | (1950.0) | P | Q | |
|---|------------|----------|-----------|-------------|-------------|
| n | 0.17511870 | Peri. | 267.92951 | +0.89774135 | -0.43897639 |
| a | 3.1640881 | Node | 118.10730 | +0.41895511 | +0.82491569 |
| e | 0.2025907 | Incl. | 2.39634 | +0.13615094 | +0.35610928 |
| P | 5.63 | B(1,0) | 12.5 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 380922 | 062 | 0.8+ | 0.7- | 381021 | 062 | 0.2- | 1.1+ | 721008 | 095 | 0.3- | 1.5- |
| 381015 | 062 | 1.3- | 0.9- | 381115 | 062 | 0.3+ | 1.0+ | 721202 | 095 | 2.3- | 0.8- |
| 381015 | 062 | 0.9- | 0.5+ | 490925 | 760 | 0.3+ | 0.9+ | 721206 | 095 | 0.7- | 0.2+ |
| 381021 | 062 | 1.7- | 1.1+ | 490925 | 760 | 0.2- | 1.8- | | | | |

1947 XC = 1979 XA

The identification is by J. G. Williams.

Epoch 1979 Dec. 13.0 ET = JDE 2444220.5

| M | 335.33473 | (1950.0) | P | Q | |
|---|------------|----------|----------|-------------|-------------|
| n | 0.36659735 | Peri. | 93.74437 | -0.98704706 | -0.15576471 |
| a | 1.9334955 | Node | 77.29734 | +0.12706959 | -0.90521270 |
| e | 0.6611710 | Incl. | 2.25662 | +0.09793577 | -0.39538249 |
| P | 2.69 | B(1,0) | 17.0 | | |

From 12 observations 1979 Dec. 13-18; not linked to 1947.

1964 XA

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5 (J-P)

| M | 140.67670 | (1950.0) | P | Q | |
|---|------------|----------|----------|-------------|-------------|
| n | 0.27376784 | Peri. | 94.91532 | -0.47671309 | -0.86400843 |
| a | 2.3489943 | Node | 25.62057 | +0.58170731 | -0.44819938 |
| e | 0.2974463 | Incl. | 21.99798 | +0.65906087 | -0.22936162 |
| P | 3.60 | B(1,0) | 14.5 | | |

From 5 observations 1964 Dec. 8-1965 Feb. 24, mean residual 0".5.

1978 GC

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5 (J-P)

| M | 290.84829 | (1950.0) | P | Q | |
|---|------------|----------|-----------|-------------|-------------|
| n | 0.37365526 | Peri. | 102.00841 | +0.19857850 | +0.98007461 |
| a | 1.9090744 | Node | 179.38833 | -0.97975630 | +0.19839067 |
| e | 0.1682786 | Incl. | 24.98328 | +0.02538025 | -0.00974125 |
| P | 2.64 | B(1,0) | 14.5 | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 780408 | 807 | 0.5- | 0.2- | 780415 | 801 | 0.4+ | 1.2- | 790924 | 801 | 0.4+ | 0.8+ |
| 780409 | 807 | 1.2- | 1.7+ | 780503 | 801 | 0.9- | 0.5+ | 791121 | 801 | 0.5- | 0.9- |
| 780414 | 801 | 0.6+ | 0.3- | 790918 | 801 | 1.0+ | 0.5+ | | | | |

1979 VA

Epoch 1979 Dec. 13.0 ET = JDE 2444220.5

| M | 15.87771 | (1950.0) | P | Q | |
|---|------------|----------|-----------|-------------|-------------|
| n | 0.23189849 | Peri. | 89.34996 | +0.99862451 | -0.01992593 |
| a | 2.6238405 | Node | 271.79102 | -0.00106985 | +0.91703564 |
| e | 0.6265278 | Incl. | 2.78118 | +0.05242087 | +0.39830715 |
| P | 4.25 | B(1,0) | 17.3 | | |

From 30 observations 1979 Nov. 15-Dec. 17.

1979 XB

Epoch 1979 Dec. 13.0 ET = JDE 2444220.5

| M 346.38008 | (1950.0) | | P | Q |
|--------------|----------------|--|-------------|-------------|
| n 0.28962630 | Peri. 75.50605 | | -0.85530163 | -0.30463461 |
| a 2.2624416 | Node 85.36106 | | +0.13205866 | -0.91035305 |
| e 0.7132964 | Incl. 24.86565 | | +0.50101860 | -0.28009832 |
| P 3.40 | B(1,0) 20.0 | | | |

From 18 observations 1979 Dec. 11-15.

* * * * *

ORBITAL ELEMENTS BY C. M. BARDWELL, SMITHSONIAN ASTROPHYSICAL OBSERVATORY.

The identifications are by C. M. Bardwell unless otherwise stated.

(2193)* 1926 KB = 1931 GL = 1942 GG = 1950 WB = 1953 JM = 1965 PC
= 1966 UT = 1972 XX = 1977 VH

Discovered 1926 May 18 by H. E. Wood at Johannesburg. The key identification 1926 KB = 1931 GL is by A. Patry (J. Obs. 35, 163). The identification 1926 KB = 1942 GG was found independently by L. Oterma.

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| M 342.83101 | (1950.0) | | P | Q |
|--------------|-----------------|--|-------------|-------------|
| n 0.17986411 | Peri. 216.66715 | | -0.29308151 | +0.94834829 |
| a 3.1081815 | Node 36.73535 | | -0.82184553 | -0.18500750 |
| e 0.0617535 | Incl. 11.71097 | | -0.48854186 | -0.25769698 |
| P 5.48 | B(1,0) 11.5 | | | |

Residuals in seconds of arc

| | | | | | | | |
|--------|-------------------|--------|-------------------|--------|-----|------|------|
| 260518 | 078(14.0- 5.9-)Y | 420415 | 078(39.9+ 15.0-)X | 661020 | 095 | 3.3+ | 5.2+ |
| 260519 | 078 0.9+ 4.2+ Y | 420417 | 062 0.3- 0.4+ | 721202 | 095 | 3.6- | 0.1- |
| 260520 | 078 (3.7- 17.4-)Y | 420417 | 062 0.6- 0.2- | 721206 | 095 | 4.6+ | 2.3+ |
| 260602 | 078(10.5+ 24.8-)Y | 420421 | 078(56.5- 18.9-)X | 771010 | 330 | 1.2- | 2.1- |
| 260603 | 078(19.5+ 64.1-)Y | 420506 | 078 (0.2- 94.8-)X | 771021 | 330 | 3.7+ | 1.3- |
| 260608 | 078(22.3+ 4.9-)Y | 420519 | 078(46.0- 88.1-)X | 771103 | 330 | 0.9- | 0.5- |
| 310409 | 690 4.0+ 1.4- | 501116 | 711 3.6+ 1.1- Y | 771111 | 805 | 0.7+ | 0.9+ |
| 310411 | 690 5.2- 3.3- | 501203 | 711 6.6- 0.7- Y | 771112 | 805 | 1.3- | 0.1+ |
| 420319 | 062 0.4+ 0.1- | 530515 | 210 (1.1+ 28.0+)X | 771112 | 330 | 3.3- | 0.3- |
| 420414 | 062 0.1- 0.9+ | 650803 | 822 0.4+ 2.3- | 771114 | 805 | 0.4- | 0.4+ |
| 420414 | 062 0.0 0.9+ | 650803 | 822 0.2+ 0.5- | | | | |

(2194)* 1940 GE = 1965 JC = 1973 QB1 = 1977 VP

Discovered 1940 Apr. 3 by Y. Vaisala at Turku.

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| M 211.55602 | (1950.0) | | P | Q |
|--------------|-----------------|--|-------------|-------------|
| n 0.27748439 | Peri. 101.74385 | | -0.84514397 | -0.52349129 |
| a 2.3279680 | Node 46.79970 | | +0.41418978 | -0.76918327 |
| e 0.0417429 | Incl. 8.52906 | | +0.33790309 | -0.36648869 |
| P 3.55 | B(1,0) 13.5 | | | |

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

| | | | | | | | |
|--------|---------------|--------|------------------|--------|-----|------|------|
| 400403 | 062 0.7+ 1.1- | 650503 | 760 0.6+ 2.2+ | 771103 | 330 | 1.0- | 0.1+ |
| 400404 | 062 0.1- 0.8- | 650503 | 760 5.1+ 0.9+ | 771111 | 805 | 0.8- | 0.4+ |
| 400412 | 062 0.8- 1.1+ | 730828 | 095 0.4+ 0.5- | 771112 | 805 | 0.3- | 0.2+ |
| 400428 | 062 1.0- 1.5- | 730901 | 095(0.00- 0.04+) | 771112 | 330 | 0.8- | 0.7+ |
| 650502 | 760 1.7- 0.2+ | 771010 | 330 0.8+ 0.1- | 771114 | 805 | 1.0- | 0.6+ |
| 650502 | 760 2.3- 0.0 | 771021 | 330 2.3+ 0.9- | | | | |

(2195)* 1941 SP1 = 1931 TC3 = 1934 PQ = 1936 DF = 1943 GT = 1944 QD
= 1951 VA = 1973 GC1 = 1974 RC2 = 1976 GO4

Discovered 1941 Sept. 27 by L. Oterma at Turku.

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| | | | | |
|--------------|-----------------|-------------|---|-------------|
| M 290.51273 | (1950.0) | | P | Q |
| n 0.29762458 | Peri. 294.74438 | +0.81272350 | | -0.57735043 |
| a 2.2217244 | Node 100.61207 | +0.55922018 | | +0.73517296 |
| e 0.1060447 | Incl. 4.57518 | +0.16356434 | | +0.35522838 |
| P 3.31 | B(1,0) 13.5 | | | |

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

| | | |
|-------------------------|--------------------------|--------------------------|
| 311010 690 1.0+ 4.0- | 410930 062 0.9+ 0.4+ | 440825 078(39.6- 6.3-)X |
| 311012 690 2.3- 1.2- | 411027 062 0.5- 4.2+ | 440905 078(0.02- 0.04+)X |
| 311014 690(28.5- 0.8-) | 411112 062 0.8- 1.3+ | 511101 020(0.06+ 0.04+)X |
| 340807 078 (6.0- 1.1-)X | 430403 062 0.1- 2.7- | 511103 711 2.2+ 1.8+ Y |
| 360220 024 2.1- 1.1- | 430403 062 1.9- 2.5+ | 730401 095 4.8+ 4.6+ |
| 360311 024 0.6- 0.1+ | 430407 062 0.3- 4.9- | 740913 026 3.9- 1.5+ |
| 410927 062 0.1- 1.5+ | 440816 078(47.7+ 54.6+)X | 760402 095 2.6+ 8.5+ |
| 410930 062 0.9+ 0.4+ | | |

(2196)* 1965 BC = A906 VJ = 1948 LD = 1951 YD2 = 1954 JN = 1954 KN
 = 1966 FC = 1969 TM5 = 1972 FL = 1976 UH4

Discovered 1965 Jan. 29 at the Goethe Link Observatory, Indiana University. The double designation 1954 JN = 1954 KN was found by O. Kippes (MPC 1746).

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| | | | | |
|--------------|-----------------|-------------|---|-------------|
| M 125.40158 | (1950.0) | | P | Q |
| n 0.15500818 | Peri. 322.36612 | -0.99046846 | | -0.09898065 |
| a 3.4321504 | Node 212.34741 | +0.12037663 | | -0.96002761 |
| e 0.0634189 | Incl. 10.31286 | -0.06694547 | | -0.26182017 |
| P 6.36 | B(1,0) 11.0 | | | |

Residuals in seconds of arc

| | | |
|--------------------------|------------------------|----------------------|
| 061115 803(46.4- 99.8+)Y | 540510 760 1.2- 0.2- | 650131 760 0.2- 0.4- |
| 061120 803(23.8- 88.4+)Y | 540525 024 (2.0- 1.4-) | 660318 760 1.2+ 1.8+ |
| 061124 803(15.2- 21.2-)Y | 650101 330 0.3+ 0.8+ | 660318 760 0.7+ 0.5+ |
| 061126 786(12.3- 0.6+) | 650110 330 1.4- 0.1+ | 691015 095 4.0- 4.4+ |
| 480611 078 (7.5- 44.6-)X | 650129 760 4.2- 0.1+ | 691017 095 1.9+ 0.2+ |
| 511228 711 4.2+ 1.0- Y | 650129 760 2.2- 0.5+ | 720318 095 2.9+ 0.4+ |
| 540510 760 1.0- 0.0 | 650131 760 0.4+ 0.4- | 761028 095 1.7+ 1.1- |

(2197)* 1965 YN = 1955 DA = 1964 UN = 1975 SD

Discovered 1965 Dec. 30 at the Purple Mountain Observatory.

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| | | | | |
|--------------|----------------|-------------|---|-------------|
| M 242.41477 | (1950.0) | | P | Q |
| n 0.17564022 | Peri. 57.10761 | -0.41240715 | | -0.91024495 |
| a 3.1578154 | Node 57.29169 | +0.82037471 | | -0.38876885 |
| e 0.1236209 | Incl. 2.52530 | +0.39611320 | | -0.14252336 |
| P 5.61 | B(1,0) 11.5 | | | |

Residuals in seconds of arc

| | | |
|-------------------------|----------------------|----------------------|
| 550117 388 (0.6- 10.6-) | 651230 330 1.0+ 1.0- | 751004 688 0.7- 0.2- |
| 550223 760 0.5+ 0.1+ | 660120 330 1.4- 0.9+ | 751010 688 0.3+ 0.1- |
| 550223 760 0.2- 1.5+ | 660128 330 0.1+ 1.7- | 751011 688 1.6+ 0.2+ |
| 641030 330 1.4- 2.9+ | 750928 688 0.0 2.4- | |

(2198)* 1975 VF

Discovered 1975 Nov. 7 at the Harvard College Observatory, Agassiz Station.

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| | | | | |
|--------------|-----------------|-------------|---|-------------|
| M 78.53458 | (1950.0) | | P | Q |
| n 0.23595494 | Peri. 179.57334 | +0.73828034 | | -0.67311947 |
| a 2.5936816 | Node 222.84067 | +0.61861802 | | +0.70116952 |
| e 0.1970135 | Incl. 3.62899 | +0.26880082 | | +0.23509886 |
| P 4.18 | B(1,0) 15.7 | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 751027 | 675 | 0.6- | 1.5- | 751110 | 801 | 0.6+ | 0.9+ | 790823 | 801 | 0.5+ | 2.0+ |
| 751028 | 675 | 0.7- | 0.3- | 751230 | 801 | 0.2+ | 0.2+ | 790916 | 801 | 1.3- | 0.5+ |
| 751030 | 675 | 0.7+ | 0.1- | 770218 | 801 | 0.7+ | 0.9+ | 791023 | 801 | 0.5+ | 1.6+ |
| 751107 | 801 | 0.2+ | 0.3- | 770219 | 801 | 1.4+ | 0.8+ | 791120 | 801 | 1.4- | 0.4- |
| 751109 | 801 | 0.3+ | 0.0 | 770320 | 801 | 0.8- | 1.9+ | | | | |

(2199)* 1978 LA = 1975 RU

Discovered 1978 June 6 by A. Mrkos at the Klet Observatory. The identification is by E. Bowell (MPC 4781).

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| | | | | | | | | | | | |
|-------------|------------|----------|-----------|-------------|--|-------------|--|--|--|--|--|
| M 240.16237 | | (1950.0) | | P | | Q | | | | | |
| n | 0.29369245 | Peri. | 141.75887 | +0.31865184 | | +0.94462890 | | | | | |
| a | 2.2415110 | Node | 146.61297 | -0.90090727 | | +0.32752032 | | | | | |
| e | 0.2013998 | Incl. | 8.18454 | -0.29466435 | | +0.02016632 | | | | | |
| P | 3.36 | B(1,0) | 14.5 | | | | | | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 750903 | 095 | 1.1- | 1.7- | 780609 | 046 | 3.0- | 0.5- | 780710 | 046 | 3.2+ | 1.2- |
| 750906 | 095 | 1.0+ | 2.0+ | 780611 | 046 | 0.6- | 1.3- | 780710 | 046 | 0.2+ | 1.0- |
| 780606 | 046 | 0.3+ | 0.2- | 780611 | 046 | 0.3+ | 1.2- | 790831 | 801 | 0.2+ | 0.5- |
| 780606 | 046 | 1.9+ | 0.6- | 780629 | 046 | 0.9- | 0.8- | 790918 | 801 | 1.2+ | 0.5- |
| 780608 | 046 | 0.3- | 1.4+ | 780629 | 046 | 2.6- | 0.5+ | 791121 | 801 | 0.6- | 1.4- |
| 780609 | 046 | 0.2- | 0.3- | 780630 | 046 | 0.7- | 0.1+ | | | | |
| 780609 | 046 | 2.5+ | 3.0+ | 780630 | 046 | 0.4- | 0.1+ | | | | |

(2200)* 6090 P-L = 1966 DJ = 1977 AT1

Discovered 1960 Sept. 24 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels. The key identification 6090 P-L = 1977 AT1 was found independently by E. Bowell and C. M. Bardwell (MPC 4664).

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5

| | | | | | | | | | | | |
|-------------|------------|----------|-----------|-------------|--|-------------|--|--|--|--|--|
| M 313.90459 | | (1950.0) | | P | | Q | | | | | |
| n | 0.26411154 | Peri. | 209.76889 | -0.96573134 | | +0.25873482 | | | | | |
| a | 2.4059013 | Node | 345.18384 | -0.21948655 | | -0.85624421 | | | | | |
| e | 0.1460711 | Incl. | 4.59278 | -0.13852307 | | -0.44710417 | | | | | |
| P | 3.73 | B(1,0) | 13.9 | | | | | | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 600924 | 675 | 0.1+ | 0.3+ | 601026 | 675 | 0.4- | 0.8- | 770113 | 095 | 1.4- | 0.9- |
| 600925 | 675 | 0.8+ | 0.2+ | 660130 | 330 | 1.9+ | 0.5+ | 770120 | 095 | 0.9+ | 1.7- |
| 600926 | 675 | 1.3+ | 0.3- | 660214 | 330 | 0.5- | 0.4+ | 791023 | 801 | 1.2- | 1.9+ |
| 601017 | 675 | 0.6- | 0.4+ | 660218 | 760 | 0.9- | 1.0+ | 791120 | 801 | 0.5+ | 0.1- |
| 601022 | 675 | 0.8- | 0.1- | 660218 | 760 | 0.3+ | 0.7+ | | | | |
| 601024 | 675 | 0.1+ | 0.6- | 660224 | 330 | 0.3+ | 0.9- | | | | |

1978 VQ4 = 1968 US1 = 1977 JG

The key identification 1978 VQ4 = 1977 JG is by J. G. Williams.

Epoch 1980 Dec. 27.0 ET = JDE 2444600.5 (J-P)

| | | | | | | | | | | | |
|-------------|------------|----------|-----------|-------------|--|-------------|--|--|--|--|--|
| M 333.21260 | | (1950.0) | | P | | Q | | | | | |
| n | 0.29887179 | Peri. | 77.50045 | +0.56242091 | | +0.82520261 | | | | | |
| a | 2.2155436 | Node | 226.84946 | -0.78365942 | | +0.51184769 | | | | | |
| e | 0.1622057 | Incl. | 4.10191 | -0.26374348 | | +0.23885685 | | | | | |
| P | 3.30 | B(1,0) | 15.0 | | | | | | | | |

Residuals in seconds of arc

| | | | | | | | | | | | |
|--------|-----|------|------|--------|-----|------|------|--------|-----|------|------|
| 681023 | 095 | 0.4+ | 0.3+ | 781106 | 675 | 0.1+ | 0.9- | 781129 | 675 | 2.5+ | 1.8+ |
| 770515 | 095 | 0.5+ | 1.1- | 781107 | 675 | 0.1- | 0.5+ | 781130 | 675 | 1.9- | 0.4+ |
| 770523 | 095 | 1.6- | 0.1- | 781108 | 675 | 0.4- | 0.5- | 781130 | 675 | 4.0+ | 1.9+ |
| 781105 | 675 | 0.5- | 0.6- | 781129 | 675 | 2.4- | 0.0 | | | | |

EPHEMERIDES.

| 1975 VD | | R. A. (1950) | | Decl. | Delta | r | Elements MPC | | 5033 |
|------------|----|--------------|-----|-------|-------|-------|--------------|------|------|
| Date | ET | | | | | | Variation | | Mag. |
| 1979 12 13 | | 08 09.82 | +28 | 29.6 | 1.586 | 2.429 | -1.55 | +5.7 | 19.3 |
| 1979 12 23 | | 08 01.65 | +29 | 08.3 | | | | | |
| 1980 01 02 | | 07 50.73 | +29 | 43.5 | 1.519 | 2.478 | -1.74 | +5.2 | 19.0 |
| 1980 01 12 | | 07 38.31 | +30 | 08.9 | | | | | |
| 1980 01 22 | | 07 25.93 | +30 | 20.3 | 1.561 | 2.525 | -1.74 | +3.7 | 19.1 |
| 1980 02 01 | | 07 15.19 | +30 | 16.9 | | | | | |
| 1980 02 11 | | 07 07.17 | +30 | 01.3 | 1.712 | 2.570 | -1.57 | +2.4 | 19.5 |
| 1980 02 21 | | 07 02.45 | +29 | 36.8 | | | | | |
| 1980 03 02 | | 07 01.13 | +29 | 07.0 | 1.947 | 2.611 | -1.33 | +1.9 | 20.0 |
| 1980 03 12 | | 07 02.94 | +28 | 34.0 | | | | | |
| 1980 03 22 | | 07 07.51 | +27 | 58.7 | 2.230 | 2.650 | -1.11 | +1.8 | 20.4 |
| 1980 04 01 | | 07 14.41 | +27 | 21.4 | | | | | |
| 1980 04 11 | | 07 23.21 | +26 | 41.9 | 2.532 | 2.686 | -0.95 | +2.0 | 20.7 |
| 1980 04 21 | | 07 33.55 | +25 | 59.5 | | | | | |
| 1980 05 01 | | 07 45.10 | +25 | 13.9 | 2.831 | 2.719 | -0.82 | +2.3 | 20.9 |

| 1976 GC8 | | R. A. (1950) | | Decl. | Delta | r | Elements MPC | | 5128 |
|------------|----|--------------|-----|-------|-------|-------|--------------|-------|------|
| Date | ET | | | | | | Elong. | Phase | Mag. |
| 1979 12 13 | | 09 51.56 | +16 | 23.6 | 2.341 | 2.903 | 115.4 | 17.8 | 17.8 |
| 1979 12 23 | | 09 52.39 | +16 | 31.8 | | | | | |
| 1980 01 02 | | 09 50.73 | +16 | 52.5 | 2.111 | 2.900 | 136.1 | 13.6 | 17.4 |
| 1980 01 12 | | 09 46.58 | +17 | 24.5 | | | | | |
| 1980 01 22 | | 09 40.16 | +18 | 05.0 | 1.956 | 2.896 | 159.0 | 7.0 | 17.1 |
| 1980 02 01 | | 09 32.03 | +18 | 49.6 | | | | | |
| 1980 02 11 | | 09 23.04 | +19 | 32.7 | 1.908 | 2.892 | 174.4 | 1.9 | 16.8 |
| 1980 02 21 | | 09 14.17 | +20 | 09.5 | | | | | |
| 1980 03 02 | | 09 06.45 | +20 | 36.2 | 1.977 | 2.887 | 151.6 | 9.4 | 17.2 |
| 1980 03 12 | | 09 00.65 | +20 | 51.0 | | | | | |
| 1980 03 22 | | 08 57.24 | +20 | 53.7 | 2.142 | 2.882 | 129.6 | 15.4 | 17.5 |
| 1980 04 01 | | 08 56.40 | +20 | 45.1 | | | | | |
| 1980 04 11 | | 08 58.05 | +20 | 26.3 | 2.370 | 2.876 | 110.3 | 19.1 | 17.8 |
| 1980 04 21 | | 09 02.00 | +19 | 58.2 | | | | | |
| 1980 05 01 | | 09 07.95 | +19 | 21.9 | 2.629 | 2.869 | 93.3 | 20.5 | 18.1 |
| 1980 05 11 | | 09 15.62 | +18 | 37.9 | | | | | |
| 1980 05 21 | | 09 24.72 | +17 | 46.9 | 2.891 | 2.862 | 78.3 | 20.3 | 18.3 |

| (2191) 1977 PA1 | | R. A. (1950) | | Decl. | Delta | r | Elements MPC | | 5127 |
|-----------------|----|--------------|-----|-------|-------|-------|--------------|-------|------|
| Date | ET | | | | | | Elong. | Phase | Mag. |
| 1979 12 13 | | 10 23.61 | -00 | 27.6 | 2.551 | 2.918 | 101.9 | 19.3 | 17.2 |
| 1979 12 23 | | 10 26.32 | -01 | 25.9 | | | | | |
| 1980 01 02 | | 10 26.87 | -02 | 12.5 | 2.311 | 2.934 | 120.4 | 16.8 | 16.9 |
| 1980 01 12 | | 10 25.17 | -02 | 44.9 | | | | | |
| 1980 01 22 | | 10 21.25 | -03 | 01.0 | 2.122 | 2.951 | 140.7 | 12.2 | 16.7 |
| 1980 02 01 | | 10 15.40 | -02 | 59.3 | | | | | |
| 1980 02 11 | | 10 08.14 | -02 | 40.1 | 2.017 | 2.967 | 160.8 | 6.3 | 16.4 |
| 1980 02 21 | | 10 00.20 | -02 | 05.4 | | | | | |
| 1980 03 02 | | 09 52.46 | -01 | 19.5 | 2.022 | 2.984 | 163.1 | 5.5 | 16.4 |
| 1980 03 12 | | 09 45.76 | -00 | 27.5 | | | | | |
| 1980 03 22 | | 09 40.72 | +00 | 24.9 | 2.136 | 3.001 | 144.2 | 11.2 | 16.7 |
| 1980 04 01 | | 09 37.79 | +01 | 12.8 | | | | | |
| 1980 04 11 | | 09 37.10 | +01 | 52.9 | 2.338 | 3.018 | 124.3 | 15.9 | 17.0 |
| 1980 04 21 | | 09 38.60 | +02 | 22.8 | | | | | |
| 1980 05 01 | | 09 42.16 | +02 | 41.5 | 2.595 | 3.035 | 106.2 | 18.6 | 17.3 |
| 1980 05 11 | | 09 47.51 | +02 | 48.7 | | | | | |
| 1980 05 21 | | 09 54.44 | +02 | 44.8 | 2.877 | 3.051 | 90.1 | 19.4 | 17.6 |

| 1978 VT | | Elements MPC 5128 | | | | | | | |
|------------|----|-------------------|----------|-------|-------|--------|-------|------|--|
| Date | ET | R. A. (1950) | Decl. | Delta | r | Elong. | Phase | Mag. | |
| 1979 12 13 | | 11 23.78 | +06 24.7 | 2.517 | 2.715 | 90.8 | 21.3 | 17.5 | |
| 1979 12 23 | | 11 30.38 | +05 40.8 | | | | | | |
| 1980 01 02 | | 11 35.02 | +05 08.7 | 2.257 | 2.727 | 108.1 | 20.0 | 17.2 | |
| 1980 01 12 | | 11 37.45 | +04 49.8 | | | | | | |
| 1980 01 22 | | 11 37.45 | +04 45.2 | 2.023 | 2.739 | 127.7 | 16.5 | 16.9 | |
| 1980 02 01 | | 11 34.89 | +04 55.3 | | | | | | |
| 1980 02 11 | | 11 29.87 | +05 19.0 | 1.850 | 2.749 | 150.0 | 10.4 | 16.6 | |
| 1980 02 21 | | 11 22.72 | +05 53.6 | | | | | | |
| 1980 03 02 | | 11 14.13 | +06 34.7 | 1.771 | 2.759 | 174.1 | 2.1 | 16.1 | |
| 1980 03 12 | | 11 05.03 | +07 16.5 | | | | | | |
| 1980 03 22 | | 10 56.42 | +07 53.5 | 1.806 | 2.768 | 161.2 | 6.7 | 16.4 | |
| 1980 04 01 | | 10 49.24 | +08 20.7 | | | | | | |
| 1980 04 11 | | 10 44.12 | +08 35.6 | 1.946 | 2.776 | 138.4 | 13.9 | 16.8 | |
| 1980 04 21 | | 10 41.39 | +08 37.0 | | | | | | |
| 1980 05 01 | | 10 41.12 | +08 25.0 | 2.161 | 2.783 | 118.3 | 18.6 | 17.1 | |
| 1980 05 11 | | 10 43.16 | +08 00.5 | | | | | | |
| 1980 05 21 | | 10 47.28 | +07 24.6 | 2.417 | 2.789 | 100.7 | 20.9 | 17.4 | |

| 1978 VQ4 | | Elements MPC 5133 | | | | | | | |
|------------|----|-------------------|----------|-------|-------|--------|-------|------|--|
| Date | ET | R. A. (1950) | Decl. | Delta | r | Elong. | Phase | Mag. | |
| 1980 01 02 | | 11 58.30 | -04 38.9 | 2.144 | 2.492 | 98.8 | 22.9 | 19.2 | |
| 1980 01 12 | | 12 03.90 | -05 29.2 | | | | | | |
| 1980 01 22 | | 12 07.28 | -06 05.4 | 1.868 | 2.470 | 116.5 | 20.9 | 18.8 | |
| 1980 02 01 | | 12 08.13 | -06 24.9 | | | | | | |
| 1980 02 11 | | 12 06.23 | -06 25.2 | 1.630 | 2.445 | 136.7 | 16.1 | 18.4 | |
| 1980 02 21 | | 12 01.52 | -06 04.3 | | | | | | |
| 1980 03 02 | | 11 54.31 | -05 21.9 | 1.463 | 2.417 | 159.6 | 8.2 | 17.9 | |
| 1980 03 12 | | 11 45.26 | -04 20.8 | | | | | | |
| 1980 03 22 | | 11 35.44 | -03 06.9 | 1.396 | 2.388 | 172.4 | 3.2 | 17.6 | |
| 1980 04 01 | | 11 26.14 | -01 49.0 | | | | | | |
| 1980 04 11 | | 11 18.49 | -00 36.1 | 1.437 | 2.356 | 149.5 | 12.5 | 17.9 | |
| 1980 04 21 | | 11 13.32 | +00 24.3 | | | | | | |
| 1980 05 01 | | 11 11.08 | +01 07.4 | 1.564 | 2.323 | 127.9 | 20.0 | 18.3 | |
| 1980 05 11 | | 11 11.79 | +01 31.4 | | | | | | |
| 1980 05 21 | | 11 15.30 | +01 36.4 | 1.743 | 2.288 | 109.4 | 24.7 | 18.6 | |
| 1980 05 31 | | 11 21.31 | +01 23.4 | | | | | | |
| 1980 06 10 | | 11 29.48 | +00 54.3 | 1.944 | 2.252 | 93.8 | 26.7 | 18.8 | |

| (2193) 1926 KB | | Elements MPC 5131 | | | | | | | |
|----------------|----|-------------------|----------|-------|-------|--------|-------|------|--|
| Date | ET | R. A. (1950) | Decl. | Delta | r | Elong. | Phase | Mag. | |
| 1980 01 02 | | 12 29.61 | +07 50.9 | 2.822 | 3.093 | 96.6 | 18.4 | 16.6 | |
| 1980 01 12 | | 12 34.66 | +07 35.4 | | | | | | |
| 1980 01 22 | | 12 37.83 | +07 31.6 | 2.539 | 3.081 | 114.6 | 16.9 | 16.4 | |
| 1980 02 01 | | 12 38.92 | +07 39.6 | | | | | | |
| 1980 02 11 | | 12 37.77 | +07 58.3 | 2.296 | 3.069 | 134.4 | 13.3 | 16.0 | |
| 1980 02 21 | | 12 34.36 | +08 26.0 | | | | | | |
| 1980 03 02 | | 12 28.85 | +08 59.1 | 2.127 | 3.057 | 155.6 | 7.7 | 15.7 | |
| 1980 03 12 | | 12 21.67 | +09 33.0 | | | | | | |
| 1980 03 22 | | 12 13.47 | +10 02.5 | 2.061 | 3.045 | 169.3 | 3.5 | 15.5 | |
| 1980 04 01 | | 12 05.08 | +10 22.7 | | | | | | |
| 1980 04 11 | | 11 57.35 | +10 30.0 | 2.108 | 3.034 | 152.8 | 8.7 | 15.7 | |
| 1980 04 21 | | 11 50.99 | +10 22.6 | | | | | | |
| 1980 05 01 | | 11 46.52 | +10 00.2 | 2.253 | 3.023 | 132.1 | 14.3 | 16.0 | |
| 1980 05 11 | | 11 44.16 | +09 23.9 | | | | | | |
| 1980 05 21 | | 11 43.97 | +08 35.3 | 2.467 | 3.012 | 113.1 | 18.0 | 16.3 | |
| 1980 05 31 | | 11 45.85 | +07 36.2 | | | | | | |
| 1980 06 10 | | 11 49.60 | +06 28.1 | 2.717 | 3.001 | 96.2 | 19.7 | 16.5 | |

| 1964 XA | | Elements MPC 5130 | | | | | | | |
|------------|----|-------------------|----------|-------|-------|-----------|-------|------|--|
| Date | ET | R. A. (1950) | Decl. | Delta | r | Variation | | Mag. | |
| 1980 03 02 | | 15 43.81 | -23 16.8 | 1.731 | 2.168 | -1.03 | +12.0 | 18.0 | |
| 1980 03 12 | | 15 47.27 | -25 14.7 | | | | | | |
| 1980 03 22 | | 15 47.16 | -27 11.1 | 1.564 | 2.238 | -1.25 | +12.3 | 17.7 | |
| 1980 04 01 | | 15 43.12 | -29 03.2 | | | | | | |
| 1980 04 11 | | 15 35.02 | -30 46.1 | 1.442 | 2.306 | -1.50 | +13.2 | 17.5 | |
| 1980 04 21 | | 15 23.22 | -32 12.7 | | | | | | |
| 1980 05 01 | | 15 08.81 | -33 16.1 | 1.402 | 2.373 | -1.65 | +14.5 | 17.3 | |
| 1980 05 11 | | 14 53.41 | -33 52.4 | | | | | | |
| 1980 05 21 | | 14 38.90 | -34 03.0 | 1.466 | 2.438 | -1.56 | +15.3 | 17.5 | |
| 1980 05 31 | | 14 26.89 | -33 54.8 | | | | | | |
| 1980 06 10 | | 14 18.27 | -33 36.7 | 1.631 | 2.501 | -1.33 | +14.6 | 17.9 | |
| 1980 06 20 | | 14 13.39 | -33 16.9 | | | | | | |
| 1980 06 30 | | 14 12.10 | -33 01.5 | 1.870 | 2.561 | -1.10 | +12.8 | 18.4 | |
| 1980 07 10 | | 14 14.02 | -32 53.6 | | | | | | |
| 1980 07 20 | | 14 18.74 | -32 54.6 | 2.154 | 2.618 | -0.93 | +10.8 | 18.8 | |
| 1980 07 30 | | 14 25.84 | -33 04.5 | | | | | | |
| 1980 08 09 | | 14 34.94 | -33 22.2 | 2.457 | 2.671 | -0.82 | +8.9 | 19.1 | |

| (2190) 1976 GV3 | | Elements MPC 5127 | | | | | | | |
|-----------------|----|-------------------|----------|-------|-------|--------|-------|------|--|
| Date | ET | R. A. (1950) | Decl. | Delta | r | Elong. | Phase | Mag. | |
| 1980 03 02 | | 15 43.96 | -20 34.3 | 1.808 | 2.246 | 102.7 | 25.5 | 17.1 | |
| 1980 03 12 | | 15 52.39 | -21 01.4 | | | | | | |
| 1980 03 22 | | 15 58.19 | -21 19.1 | 1.582 | 2.244 | 119.3 | 22.8 | 16.8 | |
| 1980 04 01 | | 16 00.98 | -21 27.3 | | | | | | |
| 1980 04 11 | | 16 00.52 | -21 25.8 | 1.395 | 2.246 | 138.5 | 17.2 | 16.4 | |
| 1980 04 21 | | 15 56.77 | -21 13.9 | | | | | | |
| 1980 05 01 | | 15 50.13 | -20 52.0 | 1.274 | 2.249 | 160.5 | 8.6 | 16.0 | |
| 1980 05 11 | | 15 41.43 | -20 21.3 | | | | | | |
| 1980 05 21 | | 15 31.90 | -19 44.9 | 1.243 | 2.254 | 175.7 | 1.9 | 15.6 | |
| 1980 05 31 | | 15 22.98 | -19 07.8 | | | | | | |
| 1980 06 10 | | 15 15.86 | -18 35.5 | 1.311 | 2.261 | 152.7 | 11.9 | 16.1 | |
| 1980 06 20 | | 15 11.38 | -18 12.4 | | | | | | |
| 1980 06 30 | | 15 09.94 | -18 01.4 | 1.460 | 2.271 | 132.1 | 19.4 | 16.5 | |
| 1980 07 10 | | 15 11.53 | -18 02.7 | | | | | | |
| 1980 07 20 | | 15 15.98 | -18 15.7 | 1.665 | 2.282 | 114.5 | 23.9 | 16.9 | |
| 1980 07 30 | | 15 23.01 | -18 38.3 | | | | | | |
| 1980 08 09 | | 15 32.29 | -19 08.1 | 1.901 | 2.295 | 99.3 | 25.9 | 17.3 | |

| (2195) 1941 SP1 | | Elements MPC 5131 | | | | | | | |
|-----------------|----|-------------------|----------|-------|-------|--------|-------|------|--|
| Date | ET | R. A. (1950) | Decl. | Delta | r | Elong. | Phase | Mag. | |
| 1980 03 22 | | 17 23.95 | -19 29.7 | 2.063 | 2.436 | 99.6 | 23.8 | 17.6 | |
| 1980 04 01 | | 17 31.23 | -19 32.1 | | | | | | |
| 1980 04 11 | | 17 36.01 | -19 32.5 | 1.807 | 2.426 | 116.4 | 21.7 | 17.2 | |
| 1980 04 21 | | 17 37.96 | -19 32.3 | | | | | | |
| 1980 05 01 | | 17 36.80 | -19 32.4 | 1.587 | 2.413 | 135.7 | 17.0 | 16.8 | |
| 1980 05 11 | | 17 32.45 | -19 33.5 | | | | | | |
| 1980 05 21 | | 17 25.09 | -19 35.7 | 1.432 | 2.399 | 157.6 | 9.2 | 16.4 | |
| 1980 05 31 | | 17 15.37 | -19 38.9 | | | | | | |
| 1980 06 10 | | 17 04.35 | -19 42.9 | 1.370 | 2.384 | 176.3 | 1.6 | 15.9 | |
| 1980 06 20 | | 16 53.35 | -19 48.1 | | | | | | |
| 1980 06 30 | | 16 43.74 | -19 55.8 | 1.410 | 2.366 | 154.1 | 10.8 | 16.4 | |
| 1980 07 10 | | 16 36.55 | -20 07.2 | | | | | | |
| 1980 07 20 | | 16 32.41 | -20 23.6 | 1.538 | 2.347 | 132.5 | 18.6 | 16.7 | |
| 1980 07 30 | | 16 31.56 | -20 45.3 | | | | | | |
| 1980 08 09 | | 16 33.88 | -21 11.7 | 1.725 | 2.327 | 113.9 | 23.5 | 17.1 | |
| 1980 08 19 | | 16 39.18 | -21 41.6 | | | | | | |
| 1980 08 29 | | 16 47.15 | -22 13.6 | 1.940 | 2.306 | 97.8 | 25.7 | 17.3 | |