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TWX 710-320-6842 ASTROGRAM CAM      \*\*                      Brian G. Marsden, Director  
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EDITORIAL NOTICE.

Several contributors have offered to communicate their observations in machine-readable form. For the moment, it would be preferable if such observations were sent on punched cards (either "026" or "029" code), rather than on punched tape or magnetic tape or disk. The format to be used is illustrated below for the first two observations published on MPC 4898.

Columns 16-80 of the cards would be punched as follows:

Col.	31	34	44	46	56	61	65	68	78	80
16										
1977 09 08.93458	00	32	12.77	-01 34	15.0	0.2+	1+			095
1977 09 09.91884	23	14	58.50	+00 22	50.4			16.5		095

It is important that columns 16-56, which give the UT time of observation and the 1950.0 right ascension and declination, contain all leading zeros. If approximate or semiaccurate positions are being communicated, the decimal point is transferred to the appropriate quantity (and omitted entirely if the smallest unit is an integer) and the rest of the field blanked out, e.g.,

Col.	34	46	68	78
16				
1977 09 09.91884	23 14.98	+00 22.8	16.5	095
1977 09 09.9188	23 14 58	+00 22.8	16.5	095
1977 09 09.919	12 15.0	+00 23	16	095

Approximate and semiaccurate observations are not encouraged nowadays. Columns 57-71, which give the O-C and/or the magnitude, are optional. Here there are no leading zeros (except for a single one in front of a decimal point), and the signs for the O-C are to follow the number rather than precede it (signs being omitted for 0.0 and 0); the units are minutes of time for R.A. and minutes of arc for Decl. If the magnitude is not photographic (B), the color (e.g., V, R) can be indicated in column 72; in the case of comets, column 72 indicates whether the magnitude is total (T) or nuclear (N), a distinction that is considered mandatory. References to Notes should not be punched on the cards; if there are any Notes such references and the Notes themselves should be indicated on a printed listing of the cards. Columns 78-80 give the Observatory Code (see MPC 4766-4770).

The designation of the object is shown in columns 1-13. In the case of a numbered minor planet, the number is given in columns 1-4, without leading zeros (but ending in column 4). In the case of an unnumbered minor planet, up to eight characters of identification can be given in columns 5-12; this identification could be the standard designation supplied by the Minor Planet Center or a temporary label supplied by the observer; if the standard designation is used, there should be no space between the year and the letters; in the case of P-L objects, there should be no space between the number and P-L (the latter therefore in columns 9-11); a temporary label

should be consistently in the same columns for all observations in the same batch; the discovery observation can be indicated by an \* in column 13. In the case of a comet, the year of perihelion passage should be indicated in columns 6-9, the Arabic equivalent of the Roman numeral designation in columns 10-11 and the last figure of the year and the letter designation in columns 12-13; in general, both the numeral and the letter designations should be given, column 13 being given as Z if the letter designation does not exist, and the year shown in columns 6-9 being that of discovery if the date of perihelion passage is not known. Columns 1-13 for the cases mentioned above and for some examples of comets follow:

Col.		
1	13	
116		(1st observation on MPC 4898; no leading zero)
1977QJ2		(2nd observation on MPC 4898; no blank after year)
1975075E		(periodic comet Smirnova-Chernykh, 1975 VII = 1975e)
197711 Z		(periodic comet Encke, 1977 XI; no letter designation)
1979 9C		(comet Bradfield, 1979c; no Roman numeral designation yet)

Work is currently underway on the transformation of the Cincinnati file of minor-planet observations to the above format. That file is also being combined with the file of minor-planet and comet observations published on the MPCs since 1978 July and an earlier file of comet observations prepared by the IAU Central Bureau for Astronomical Telegrams. The total number of observations involved is in excess of 230 000.

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IDENTIFICATION CHANGES.

Continuation to MPC 4846.

Object	Date	UT	R. A. (1950)	Decl.	Old desig.	Mag.	Obs.
1940 GA1 *	1940 04	12.96	13 03.6	-01 26	1940 GD		062
1955 BW *	1955 01	26.01125	09 12 20.73	+14 20 33.6	646	15.0	020
1965 WW *	1965 11	20.27	04 40.7	+23 30	1057		760
1966 DU *	1966 02	17.98407	10 07 01.31	+15 22 59.8	1261		020
1966 DU	1966 02	18.02685	10 07 00.08	+15 23 35.7	1261		020
1966 EB *	1966 03	14.93054	09 50 09.92	+16 39 33.2	1261		020
1966 EB	1966 03	14.94647	09 50 03.66	+16 39 31.8	1261		020
1966 EB	1966 03	16.88733	09 48 48.98	+16 49 25.2	1261		020
1966 EB	1966 03	16.90188	09 48 48.83	+16 49 44.0	1261		020
1966 VR *	1966 11	13.87311	01 37 29.24	+08 31 33.7	1966 UT	16.0	095
1977 SO *	1977 09	18.86153	22 36 03.06	-01 01 33.7	1977 RM2	17.0	095
1977 VC2 *	1977 11	14.20732	01 53 33.36	+10 17 44.2	1977 VJ		805

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IDENTIFICATIONS.

The following identifications with numbered minor planets have not previously been published in the MPCs. The list continues that on MPC 4765.

	Note		Note		Note
1940 GA1 = (947)	1	1966 DB = (707)	2	1966 DG = (1261)	2
1966 DM = (909)	2	1969 QC = (453)	2	1973 EN = (1835)	3
1973 EQ = (1827)	3	1976 SM = (1870)	3	1977 TF = (1880)	4
1979 MD = (1614)	5				

Note 1: identification by L. Oterma. 2: by C. M. Bardwell. 3: by O. Kippes. 4: by B. G. Marsden. 5: by E. Bowell.

OBSERVATIONS MADE WITH THE 0.9-M SCHMIDT TELESCOPE AT CAUSSOLS BY K. TOMITA  
(WITH ASSISTANCE FROM H. CHEMIN, R. CHEMIN, K. HURUKAWA AND K. OTSUKA).

Object	Date	UT	R. A. (1950)			Decl.	Obs.
578	1978 10	30.94670	03 43	09.67	+23 13	46.5	010
578	1978 11	01.94664	03 41	21.82	+23 12	16.4	010
578	1978 11	02.94485	03 40	26.87	+23 11	22.0	010
578	1978 11	02.96006	03 40	25.88	+23 11	22.0	010
1978 UA	1978 10	30.94670	03 33	47.85	+26 03	15.9	010
1978 UA	1978 11	01.94664	03 32	02.73	+25 16	13.6	010
1978 UA	1978 11	02.94485	03 31	08.26	+24 52	09.0	010
1978 UA	1978 11	02.96006	03 31	07.45	+24 51	51.1	010
1978 UY *	1978 10	30.94670	03 35	17.91	+23 02	58.3	010
1978 UY	1978 11	01.94664	03 34	18.74	+23 11	30.7	010
1978 UZ *	1978 10	30.94670	03 36	00.84	+23 43	12.2	010
1978 UA1 *	1978 10	30.94670	03 37	31.44	+25 16	21.3	010
1978 UB1 *	1978 10	30.94670	03 37	50.91	+24 33	28.6	010
1978 UC1 *	1978 10	30.94670	03 38	08.68	+24 55	58.9	010
1978 UD1 *	1978 10	30.94670	03 39	16.32	+23 18	11.7	010
1978 UD1	1978 11	01.94664	03 38	02.85	+23 17	18.2	010
1978 UE1 *	1978 10	30.94670	03 39	19.21	+22 37	40.5	010
1978 UF1 *	1978 10	30.94670	03 40	14.25	+25 00	01.2	010
1978 UG1 *	1978 10	30.94670	03 41	32.29	+23 33	22.9	010
1978 UH1 *	1978 10	30.94670	03 41	42.61	+23 25	06.1	010
1978 UJ1 *	1978 10	30.94670	03 42	51.40	+22 59	30.1	010
1978 UK1 *	1978 10	30.94670	03 44	25.84	+23 18	53.4	010
1978 UL1 *	1978 10	30.94670	03 44	37.27	+23 19	17.0	010
1978 UM1 *	1978 10	30.94670	03 45	34.35	+24 58	07.8	010
1978 UN1 *	1978 10	30.94670	03 46	13.05	+23 06	55.0	010
1978 UN1	1978 11	01.94664	03 44	27.55	+23 07	33.0	010
1978 UO1 *	1978 10	30.94670	03 49	45.24	+23 04	55.4	010
1978 UP1 *	1978 10	30.94670	03 50	20.94	+23 03	34.7	010
1978 UP1	1978 11	01.94664	03 48	42.77	+23 01	32.2	010
1978 UQ1 *	1978 10	30.94670	03 50	27.84	+22 43	50.8	010
1978 UR1 *	1978 10	30.94670	03 34	35.89	+23 18	19.7	010
1978 VF	1978 10	30.94670	03 32	33.77	+22 19	51.9	010
1978 VL	1978 10	30.94670	03 34	43.34	+23 20	51.3	010
1978 VL	1978 11	01.94664	03 32	48.21	+23 27	55.1	010
1978 VM	1978 11	01.94664	03 32	50.79	+24 41	08.5	010
1978 VM	1978 11	02.96006	03 31	44.84	+24 42	48.5	010
1978 VN	1978 10	30.94670	03 34	45.01	+21 53	06.8	010
1978 VN	1978 11	01.94664	03 33	06.80	+21 46	25.1	010
1978 VO	1978 10	30.94670	03 35	03.26	+24 39	32.7	010
1978 VO	1978 11	01.94664	03 33	18.99	+24 36	59.5	010
1978 VO	1978 11	02.94485	03 32	25.63	+24 35	33.0	010
1978 VO	1978 11	02.96006	03 32	24.88	+24 35	31.8	010
1978 VP	1978 10	30.94670	03 35	02.71	+23 02	25.8	010
1978 VP	1978 11	01.94664	03 33	23.59	+22 56	36.2	010
1978 VP	1978 11	02.94485	03 32	32.75	+22 53	31.8	010
1978 VP	1978 11	02.96006	03 32	31.95	+22 53	29.4	010
1978 VR	1978 10	30.94670	03 35	55.66	+25 42	09.8	010
1978 VR	1978 11	01.94664	03 34	17.29	+25 37	31.7	010
1978 VT	1978 10	30.94670	03 36	28.92	+24 55	27.1	010
1978 VT	1978 11	01.94664	03 34	41.44	+24 53	46.9	010
1978 VT	1978 11	02.94485	03 33	46.24	+24 52	45.5	010
1978 VT	1978 11	02.96006	03 33	45.43	+24 52	43.6	010
1978 VU	1978 10	30.94670	03 36	59.71	+22 37	36.4	010
1978 VU	1978 11	01.94664	03 35	15.47	+22 33	20.1	010
1978 VV	1978 10	30.94670	03 37	24.52	+23 56	43.6	010
1978 VW	1978 10	30.94670	03 37	19.05	+25 10	50.6	010

1978 VW	1978 11 01.94664	03 35 35.34	+25 09 43.1	010
1978 VX	1978 10 30.94670	03 37 47.51	+22 08 17.9	010
1978 VX	1978 11 01.94664	03 35 52.59	+22 09 39.2	010
1978 VY	1978 10 30.94670	03 37 55.54	+24 43 49.1	010
1978 VY	1978 11 01.94664	03 36 04.73	+24 38 16.9	010
1978 VZ	1978 10 30.94670	03 37 40.79	+25 17 02.8	010
1978 VA1	1978 10 30.94670	03 37 46.84	+23 22 51.9	010
1978 VA1	1978 11 01.94664	03 36 11.15	+23 16 34.7	010
1978 VB1	1978 10 30.94670	03 38 13.38	+23 39 17.5	010
1978 VB1	1978 11 01.94664	03 36 44.92	+23 29 23.5	010
1978 VB1	1978 11 02.94485	03 35 59.50	+23 24 14.9	010
1978 VB1	1978 11 02.96006	03 35 58.73	+23 24 09.9	010
1978 VC1	1978 11 01.94664	03 36 56.96	+25 24 58.0	010
1978 VD1	1978 10 30.94670	03 38 48.08	+25 40 21.8	010
1978 VD1	1978 11 01.94664	03 36 50.42	+25 41 11.8	010
1978 VD1	1978 11 02.94485	03 35 49.80	+25 41 21.7	010
1978 VD1	1978 11 02.96006	03 35 48.75	+25 41 22.2	010
1978 VE1	1978 11 01.94664	03 37 25.67	+23 44 03.4	010
1978 VF1	1978 11 01.94664	03 37 29.12	+24 50 08.1	010
1978 VF1	1978 11 02.94485	03 36 44.17	+24 46 59.8	010
1978 VF1	1978 11 02.96006	03 36 43.54	+24 46 56.9	010
1978 VG1	1978 11 01.94664	03 37 45.68	+24 31 42.5	010
1978 VH1	1978 10 30.94670	03 39 42.73	+22 37 26.8	010
1978 VH1	1978 11 01.94664	03 37 57.24	+22 40 40.2	010
1978 VJ1	1978 10 30.94670	03 40 28.61	+25 00 02.4	010
1978 VJ1	1978 11 01.94664	03 38 40.44	+24 52 15.4	010
1978 VJ1	1978 11 02.94485	03 37 44.41	+24 48 06.0	010
1978 VJ1	1978 11 02.96006	03 37 43.44	+24 48 00.9	010
1978 VK1	1978 10 30.94670	03 40 51.45	+22 35 31.8	010
1978 VK1	1978 11 01.94664	03 39 12.98	+22 31 09.1	010
1978 VL1	1978 10 30.94670	03 41 25.96	+23 33 20.4	010
1978 VL1	1978 11 01.94664	03 39 44.50	+23 29 52.2	010
1978 VM1	1978 10 30.94670	03 42 19.11	+26 03 25.1	010
1978 VM1	1978 11 01.94664	03 40 43.10	+26 00 51.6	010
1978 VN1	1978 10 30.94670	03 42 42.57	+22 28 10.1	010
1978 VN1	1978 11 01.94664	03 40 48.48	+22 35 13.2	010
1978 VO1	1978 10 30.94670	03 43 07.90	+22 45 11.3	010
1978 VO1	1978 11 01.94664	03 41 05.47	+22 44 28.4	010
1978 VP1	1978 10 30.94670	03 42 58.80	+21 47 36.1	010
1978 VQ1	1978 11 01.94664	03 41 24.82	+23 42 59.2	010
1978 VQ1	1978 11 02.94485	03 40 23.65	+23 41 41.1	010
1978 VQ1	1978 11 02.96006	03 40 22.71	+23 41 40.3	010
1978 VR1	1978 11 02.94485	03 40 48.31	+23 35 50.7	010
1978 VR1	1978 11 02.96006	03 40 47.43	+23 35 47.9	010
1978 VS1	1978 11 01.94664	03 41 37.51	+22 01 44.9	010
1978 VT1	1978 10 30.94670	03 44 19.56	+23 25 14.6	010
1978 VT1	1978 11 02.94485	03 41 35.73	+23 27 25.4	010
1978 VT1	1978 11 02.96006	03 41 34.69	+23 27 26.9	010
1978 VW1	1978 10 30.94670	03 45 37.85	+22 19 48.8	010
1978 VW1	1978 11 01.94664	03 43 27.99	+22 28 13.4	010
1978 VX1	1978 11 01.94664	03 43 41.64	+24 59 39.7	010
1978 VY1	1978 11 01.94664	03 43 48.29	+22 09 02.2	010
1978 VZ1	1978 10 30.94670	03 45 42.86	+23 01 56.8	010
1978 VZ1	1978 11 01.94664	03 43 42.09	+23 08 12.6	010
1978 VA2	1978 11 01.94664	03 43 54.19	+22 13 44.0	010
1978 VB2	1978 10 30.94670	03 45 43.95	+23 48 41.5	010
1978 VB2	1978 11 01.94664	03 43 47.96	+23 45 56.2	010
1978 VD2	1978 10 30.94670	03 45 53.32	+22 13 36.8	010
1978 VE2	1978 10 30.94670	03 46 14.73	+25 34 06.8	010

1978 VE2	1978 11 01.94664	03 44 15.40	+25 29 58.6	010
1978 VF2	1978 10 30.94670	03 46 18.76	+25 57 36.1	010
1978 VF2	1978 11 01.94664	03 44 24.67	+25 54 24.7	010
1978 VF2	1978 11 02.94485	03 43 25.57	+25 52 33.3	010
1978 VF2	1978 11 02.96006	03 43 24.79	+25 52 33.4	010
1978 VH2	1978 10 30.94670	03 46 32.65	+24 19 05.5	010
1978 VH2	1978 11 01.94664	03 44 36.33	+24 13 32.9	010
1978 VJ2	1978 10 30.94670	03 48 51.75	+23 23 12.4	010
1978 VJ2	1978 11 01.94664	03 47 07.02	+23 20 45.6	010
1978 VK2	1978 10 30.94670	03 49 06.77	+23 54 55.7	010
1978 VK2	1978 11 01.94664	03 47 20.26	+23 51 14.5	010
1978 VL2	1978 10 30.94670	03 49 30.56	+24 24 17.5	010
1978 VL2	1978 11 01.94664	03 47 23.86	+24 22 49.2	010
1978 VM2	1978 10 30.94670	03 49 52.00	+22 47 14.4	010
1978 VM2	1978 11 01.94664	03 48 24.03	+22 44 15.2	010
1978 VN2	1978 10 30.94670	03 49 56.76	+21 42 53.9	010
1978 VN2	1978 11 01.94664	03 48 26.21	+21 39 21.7	010
1978 VO2	1978 10 30.94670	03 50 10.77	+22 45 04.7	010
1978 VO2	1978 11 01.94664	03 48 40.50	+22 35 04.9	010
1978 VP2	1978 10 30.94670	03 50 28.88	+22 44 02.0	010
1978 VP2	1978 11 01.94664	03 48 49.13	+22 39 03.0	010
1978 VQ2	1978 10 30.94670	03 50 25.62	+22 52 25.8	010
1978 VQ2	1978 11 01.94664	03 48 52.91	+22 44 11.5	010
1978 VR2	1978 10 30.94670	03 50 31.26	+25 17 56.4	010
1978 VR2	1978 11 01.94664	03 48 48.82	+25 20 33.4	010
1978 VR2	1978 11 02.94485	03 47 55.04	+25 21 36.4	010
1978 VR2	1978 11 02.96006	03 47 54.17	+25 21 36.2	010
1978 VS2	1978 10 30.94670	03 51 54.55	+24 14 43.4	010
1978 VS2	1978 11 01.94664	03 50 03.94	+24 15 20.5	010
1978 VT2	1978 10 30.94670	03 52 18.35	+25 44 22.3	010
1978 VT2	1978 11 01.94664	03 50 31.04	+25 42 08.9	010
1978 VU2	1978 11 01.94664	03 53 19.51	+23 45 34.1	010
1978 VU11*	1978 11 01.94664	03 34 18.74	+23 11 30.7	010
1978 VV11*	1978 11 01.94664	03 35 15.03	+23 26 03.5	010
1978 VW11*	1978 11 01.94664	03 35 18.08	+24 04 53.5	010
1978 VX11*	1978 11 01.94664	03 38 02.85	+23 17 18.2	010
1978 VY11*	1978 11 01.94664	03 45 25.57	+25 56 36.9	010
1978 VZ11*	1978 11 01.94664	03 45 36.80	+26 08 28.0	010
1978 VA12*	1978 11 01.94664	03 46 43.03	+23 11 25.6	010
1978 VB12*	1978 11 02.94485	03 27 23.11	+23 48 57.3	010
1978 VB12	1978 11 02.96006	03 27 22.43	+23 48 53.3	010
1978 VC12*	1978 11 02.94485	03 33 02.45	+23 29 58.6	010
1978 VC12	1978 11 02.96006	03 33 01.65	+23 29 57.8	010

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

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
/1978f	1979 08 02.00600	23 35 02.96	-17 58 47.2	13.0T	046		
/1978f	1979 08 02.01416	23 35 02.57	-17 58 47.5		046		
/1978f	1979 08 15.96417	23 21 31.23	-18 22 38.2	13.3T	046		
/1978f	1979 08 15.96862	23 21 30.92	-18 22 39.0		046		
/1978f	1979 08 18.99306	23 18 20.71	-18 27 08.1	13.3T	046		
/1978f	1979 08 19.00058	23 18 20.18	-18 27 08.8		046		
/1978f	1979 08 30.99959	23 05 29.89	-18 39 39.8	13.5T	046		
/1978f	1979 08 31.01505	23 05 28.86	-18 39 39.7		046		
/1978f	1979 09 01.02153	23 04 24.52	-18 40 15.9	13.5T	046		
/1978f	1979 09 01.02917	23 04 24.09	-18 40 15.2		046		
/1978f	1979 09 18.90054	22 46 37.91	-18 35 53.7	13 T	046		
/1978f	1979 09 18.91507	22 46 37.09	-18 35 52.2		046		

246	1979	07	26.95646	20	45	41.44	-02	55	17.7	046
246	1979	07	26.97885	20	45	40.26	-02	55	30.6	046
246	1979	07	26.99101	20	45	39.72	-02	55	36.0	046
246	1979	07	29.95052	20	43	21.79	-03	20	51.7	046
246	1979	07	29.96481	20	43	21.09	-03	20	59.1	046
397	1979	08	14.84935	21	23	46.54	+10	11	49.1	046
397	1979	08	14.86353	21	23	45.88	+10	11	46.6	046
397	1979	08	15.86064	21	22	58.68	+10	08	50.6	046
397	1979	08	15.87487	21	22	57.93	+10	08	46.9	046
478	1979	07	29.98872	21	40	49.31	+05	48	25.7	046
478	1979	07	30.00307	21	40	48.72	+05	48	24.8	046
478	1979	07	31.01714	21	40	08.21	+05	47	38.0	046
478	1979	07	31.03138	21	40	07.65	+05	47	37.8	046
587	1979	08	30.95961	23	37	00.77	+18	31	42.8	046
587	1979	08	30.97436	23	37	00.04	+18	31	45.9	046
587	1979	08	31.98194	23	35	52.71	+18	36	15.4	046
587	1979	08	31.99653	23	35	51.78	+18	36	18.1	046
666	1979	08	14.89368	21	27	22.39	-01	02	32.2	046
666	1979	08	14.90797	21	27	21.67	-01	02	35.7	046
666	1979	08	15.89738	21	26	31.25	-01	07	20.8	046
666	1979	08	15.91168	21	26	30.53	-01	07	25.3	046
666	1979	08	18.95938	21	23	54.97	-01	23	14.2	046
666	1979	08	18.97361	21	23	54.21	-01	23	19.0	046
666	1979	08	25.84383	21	18	12.48	-02	04	23.4	046
666	1979	08	25.85801	21	18	11.77	-02	04	28.8	046
666	1979	08	29.89862	21	15	04.49	-02	31	21.0	046
666	1979	08	29.91321	21	15	03.81	-02	31	25.6	046
666	1979	08	30.92170	21	14	19.39	-02	38	21.2	046
666	1979	08	30.93640	21	14	18.71	-02	38	27.5	046
666	1979	09	12.79839	21	06	49.14	-04	10	21.5	046
666	1979	09	12.81263	21	06	48.73	-04	10	27.2	046
666	1979	09	13.81574	21	06	24.40	-04	17	36.5	046
666	1979	09	13.82998	21	06	24.09	-04	17	42.5	046
666	1979	09	16.78928	21	05	22.99	-04	38	34.4	046
666	1979	09	16.80485	21	05	22.66	-04	38	40.5	046
666	1979	09	19.79410	21	04	37.47	-04	59	11.8	046
666	1979	09	19.80856	21	04	37.30	-04	59	17.6	046
1064	1979	08	29.93988	23	31	44.30	+13	44	09.5	046
1064	1979	08	29.95453	23	31	43.54	+13	44	09.8	046
1064	1979	09	11.85841	23	20	24.66	+13	19	34.2	046
1064	1979	09	11.87277	23	20	23.84	+13	19	30.6	046
1064	1979	09	12.83589	23	19	31.09	+13	15	57.8	046
1064	1979	09	12.85030	23	19	30.22	+13	15	54.3	046
1168	1979	08	30.95961	23	39	10.33	+17	46	13.6	046
1168	1979	08	30.97436	23	39	09.90	+17	46	09.3	046
1168	1979	08	31.98194	23	38	40.46	+17	40	29.9	046
1168	1979	08	31.99653	23	38	40.04	+17	40	25.5	046
1183	1979	09	19.95016	00	14	39.60	+00	22	07.9	046
1183	1979	09	19.96492	00	14	38.79	+00	22	03.8	046
1369	1979	09	19.95016	00	13	26.84	+01	30	20.3	046
1369	1979	09	19.96492	00	13	26.30	+01	30	11.4	046
1408	1979	09	17.92858	23	53	18.05	+04	53	55.8	046
1408	1979	09	17.94299	23	53	17.46	+04	53	50.1	046
1408	1979	09	18.93718	23	52	36.76	+04	46	48.0	046
1408	1979	09	18.95465	23	52	35.96	+04	46	39.1	046
1436	1979	07	29.98872	21	37	44.88	+04	49	10.9	046
1436	1979	07	30.00307	21	37	44.28	+04	49	12.1	046
1436	1979	07	31.01714	21	37	01.17	+04	50	20.8	046
1436	1979	07	31.03138	21	37	00.66	+04	50	10.6	046

1690		1979 08 15.93760	22 57 10.53	+13 01 14.5			046
1690		1979 08 15.95010	22 57 10.12	+13 01 13.8			046
1979 KB		1979 07 30.93236	16 42 10.23	-02 52 57.2	17.5		046
1979 KB		1979 07 30.94706	16 42 10.47	-02 53 02.3			046
1979 OC		1979 08 30.92170	21 08 04.16	-02 34 32.7	16.5		046
1979 OC		1979 08 30.93640	21 08 03.44	-02 34 37.2			046
1979 OC		1979 09 17.80433	20 59 22.93	-03 58 59.0	16.8		046
1979 OC		1979 09 17.82574	20 59 22.75	-03 59 05.4			046
1979 PA *		1979 08 14.84935	21 28 23.18	+10 46 07.8	17.2		046
1979 PA		1979 08 14.86353	21 28 22.46	+10 46 04.6			046
1979 PA		1979 08 15.86064	21 27 38.65	+10 41 06.2			046
1979 PA		1979 08 15.87487	21 27 38.10	+10 41 03.6			046
1979 PA		1979 08 19.03628	21 25 20.16	+10 22 51.5			046
1979 PB *		1979 08 14.89368	21 29 55.09	-01 08 46.6	15.4		046
1979 PB		1979 08 14.90797	21 29 54.38	-01 08 50.6			046
1979 PB		1979 08 15.89738	21 29 03.40	-01 13 12.2			046
1979 PB		1979 08 15.91168	21 29 02.59	-01 13 15.9			046
1979 PB		1979 08 18.95938	21 26 27.22	-01 27 30.3			046
1979 PB		1979 08 18.97361	21 26 26.50	-01 27 34.9			046
1979 PB		1979 08 25.84383	21 20 54.20	-02 03 17.4			046
1979 PB		1979 08 25.85801	21 20 53.48	-02 03 21.3			046
1979 PB		1979 08 29.89862	21 17 56.17	-02 25 54.7			046
1979 PB		1979 08 29.91321	21 17 55.55	-02 25 58.7			046
1979 PB		1979 08 30.92170	21 17 13.96	-02 31 43.7	16.0		046
1979 PB		1979 08 30.93640	21 17 13.29	-02 31 49.1			046
1979 PB		1979 09 16.78928	21 08 59.61	-04 06 52.8			046
1979 PB		1979 09 16.80485	21 08 59.31	-04 06 57.4			046
1979 PB		1979 09 19.79410	21 08 16.58	-04 22 28.2			046
1979 PB		1979 09 19.80856	21 08 16.34	-04 22 33.0			046
1979 PC *		1979 08 14.89368	21 29 06	-03 32.6	15.8	1	046
1979 PC		1979 08 14.90797	21 29 05	-03 32.6		1	046
1979 PC		1979 08 25.84383	21 19 30.43	-03 37 08.2			046
1979 PC		1979 08 25.85801	21 19 29.60	-03 37 09.9			046
1979 PC		1979 08 29.89862	21 16 09.66	-03 40 54.8			046
1979 PC		1979 08 29.91321	21 16 08.99	-03 40 55.8			046
1979 PC		1979 08 30.92170	21 15 20.92	-03 41 59.8			046
1979 PC		1979 08 30.93640	21 15 20.21	-03 42 00.8			046
1979 PC		1979 09 12.79839	21 06 36.12	-03 58 38.1			046
1979 PC		1979 09 12.81263	21 06 35.70	-03 58 40.3			046
1979 PC		1979 09 13.81574	21 06 03.11	-04 00 04.1			046
1979 PC		1979 09 13.82998	21 06 02.64	-04 00 05.4			046
1979 PC		1979 09 16.78928	21 04 34.47	-04 04 10.4			046
1979 PC		1979 09 16.80485	21 04 33.95	-04 04 11.8			046
1979 PC		1979 09 19.79410	21 03 17.81	-04 08 12.2			046
1979 PC		1979 09 19.80856	21 03 17.47	-04 08 13.7			046
1979 PD *		1979 08 14.89368	21 29 26	-03 33.2	17.4	1	046
1979 PD		1979 08 14.90797	21 29 25	-03 33.3		1	046
1979 QD *		1979 08 30.99959	23 11 44.49	-19 37 23.2	16.6	2	046
1979 QD		1979 08 31.01505	23 11 43.82	-19 37 30.7		2	046
1979 QE *		1979 08 30.95961	23 35 54.96	+17 02 41.1	16.4		046
1979 QE		1979 08 30.97436	23 35 54.22	+17 02 40.4			046
1979 QE		1979 08 31.98194	23 35 12.00	+17 01 58.3			046
1979 QE		1979 08 31.99653	23 35 11.32	+17 01 55.8			046
1979 QE		1979 09 12.87409	23 26 13.28	+16 38 23.7			046
1979 QE		1979 09 12.88832	23 26 12.36	+16 38 21.0			046
1979 QE		1979 09 16.83286	23 23 05.65	+16 24 41.7			046
1979 QE		1979 09 16.84733	23 23 05.13	+16 24 39.7			046
1979 QE		1979 09 19.83212	23 20 44.00	+16 12 34.0			046
1979 QE		1979 09 19.84630	23 20 43.34	+16 12 31.0			046

1979 QF	*	1979 08 29.93988	23 31 35.13	+13 10 31.7	16.5	046
1979 QF		1979 08 29.95453	23 31 34.66	+13 10 26.5		046
1979 QF		1979 09 12.83589	23 22 10.57	+11 07 41.3		046
1979 QF		1979 09 12.85030	23 22 09.73	+11 07 31.3		046
1979 QF		1979 09 16.87869	23 19 12.91	+10 22 42.6		046
1979 QF		1979 09 16.89299	23 19 12.39	+10 22 34.2		046
1979 QF		1979 09 17.86584	23 18 29.69	+10 11 10.5		046
1979 QF		1979 09 19.86973	23 17 02.70	+09 47 22.6		046
1979 QF		1979 09 19.88409	23 17 02.20	+09 47 13.0		046
1979 QF		1979 09 26.01241	23 12 47.45	+08 30 50.3		046
1979 QF		1979 09 26.02699	23 12 46.80	+08 30 39.1		046
1979 QK	*	1979 08 29.93988	23 32 37.12	+13 14 36.6	17.8	046
1979 QK		1979 08 29.95453	23 32 36.58	+13 14 40.4		046
1979 SA		1979 08 29.93988	23 29 02.95	+12 29 37.1	16.5	046
1979 SA		1979 08 29.95453	23 29 02.43	+12 29 32.2		046
1979 SA		1979 09 12.83589	23 20 15.30	+11 03 51.6		046
1979 SA		1979 09 12.85030	23 20 14.73	+11 03 44.9		046
1979 SA		1979 09 16.87869	23 17 34.81	+10 33 57.0		046
1979 SA		1979 09 16.89299	23 17 34.36	+10 33 51.1		046
1979 SA		1979 09 17.85172	23 16 56.40	+10 26 27.0		046
1979 SA		1979 09 17.86584	23 16 55.84	+10 26 21.0		046
1979 SA		1979 09 19.86973	23 15 36.80	+10 10 39.0		046
1979 SA		1979 09 19.88409	23 15 36.28	+10 10 31.4		046
1979 SA		1979 09 26.01241	23 11 41.73	+09 20 31.0		046
1979 SA		1979 09 26.02699	23 11 41.27	+09 20 23.0		046
1979 SF	*	1979 09 17.92858	23 46 37.95	+04 31 58.3	16.4	046
1979 SF		1979 09 17.94299	23 46 37.12	+04 31 55.7		046
1979 SF		1979 09 18.93718	23 45 41.48	+04 29 28.6		046
1979 SF		1979 09 18.95465	23 45 40.24	+04 29 25.2		046
1979 SF		1979 09 19.90747	23 44 47.15	+04 27 01.0		046
1979 SF		1979 09 19.92222	23 44 46.34	+04 26 59.2		046
1979 SF		1979 09 25.97219	23 39 10.54	+04 10 18.6		046
1979 SF		1979 09 25.98648	23 39 09.70	+04 10 16.3		046
1979 SF		1979 09 26.95431	23 38 17.30	+04 07 27.4		046
1979 SF		1979 09 26.96895	23 38 16.47	+04 07 25.2		046
1979 SF		1979 09 27.91801	23 37 25.51	+04 04 38.1		046
1979 SF		1979 09 27.93259	23 37 24.67	+04 04 35.6		046
1979 SG	*	1979 09 17.92858	23 51 50.61	+03 59 06.8	17.5	046
1979 SG		1979 09 17.94299	23 51 49.73	+03 59 05.3		046
1979 SH	*	1979 09 17.92858	23 48 36.55	+03 44 08.9	17.0	046
1979 SH		1979 09 17.94299	23 48 35.54	+03 44 08.7		046
1979 SH		1979 09 18.93718	23 47 44.60	+03 43 42.8		046
1979 SH		1979 09 18.95465	23 47 43.29	+03 43 41.9		046
1979 SH		1979 09 19.90747	23 46 54.44	+03 43 09.2		046
1979 SH		1979 09 19.92222	23 46 53.66	+03 43 05.2		046
1979 SH		1979 09 25.97219	23 41 40.15	+03 37 52.0		046
1979 SH		1979 09 25.98648	23 41 39.55	+03 37 50.5		046
1979 SH		1979 09 26.95431	23 40 50.28	+03 36 47.6		046
1979 SH		1979 09 26.96895	23 40 49.50	+03 36 47.0		046
1979 SH		1979 09 27.91801	23 40 01.97	+03 35 42.2		046
1979 SH		1979 09 27.93259	23 40 00.88	+03 35 41.2		046
1979 SJ	*	1979 09 19.95016	00 07 49.84	+00 38 25.6	17.0	046
1979 SJ		1979 09 19.96492	00 07 49.14	+00 38 23.5		046
1979 SJ		1979 09 25.93457	00 01 58.90	+00 35 31.7		046
1979 SJ		1979 09 25.94887	00 01 58.08	+00 35 32.3		046
1979 SJ		1979 09 26.91623	00 01 01.76	+00 35 02.1		046
1979 SJ		1979 09 26.93081	00 01 00.96	+00 35 00.9		046
1979 SJ		1979 09 27.95649	00 00 01.59	+00 34 31.5		046
1979 SJ		1979 09 27.97079	00 00 01.04	+00 34 31.3		046



1979 SK *	1979 09 19.90747	23 37 10.0	+03 52 44	16.8	046
1979 SK	1979 09 19.92222	23 37 09.0	+03 52 42		046
1979 SK	1979 09 25.89591	23 32 09.42	+03 27 55.1		046
1979 SK	1979 09 25.91050	23 32 08.74	+03 27 51.9		046
1979 SK	1979 09 26.87346	23 31 22.71	+03 23 40.3		046
1979 SK	1979 09 26.88804	23 31 22.11	+03 23 37.3		046
1979 SK	1979 09 27.87825	23 30 35.64	+03 19 16.8		046
1979 SK	1979 09 27.89249	23 30 34.93	+03 19 14.8		046
1979 SL *	1979 09 19.90747	23 39 55.32	+04 44 44.6	16.0	046
1979 SL	1979 09 19.92222	23 39 54.53	+04 44 36.2		046
1979 SL	1979 09 25.89591	23 35 55.96	+03 58 00.2		046
1979 SL	1979 09 25.91050	23 35 55.46	+03 57 53.2		046
1979 SL	1979 09 26.87346	23 35 17.90	+03 50 16.3		046
1979 SL	1979 09 26.88804	23 35 17.38	+03 50 10.2		046
1979 SM *	1979 09 19.90747	23 51 17.63	+04 07 38.6	17.0	046
1979 SM	1979 09 19.92222	23 51 16.32	+04 07 32.9		046
1979 SM	1979 09 25.97219	23 46 04.39	+03 55 25.2		046
1979 SM	1979 09 25.98648	23 46 03.69	+03 55 22.8		046
1979 SM	1979 09 26.95431	23 45 14.60	+03 53 17.7		046
1979 SM	1979 09 26.96895	23 45 13.81	+03 53 15.5		046
1979 SM	1979 09 27.91801	23 44 25.76	+03 51 08.7		046
1979 SM	1979 09 27.93259	23 44 25.16	+03 51 10.1		046
1979 SN *	1979 09 25.97219	23 44 17.36	+03 45 31.0	17.6	046
1979 SN	1979 09 25.98648	23 44 16.61	+03 45 28.6		046
1979 SN	1979 09 26.95431	23 43 22.44	+03 43 39.5		046
1979 SN	1979 09 26.96895	23 43 21.70	+03 43 38.7		046
1979 SN	1979 09 27.91801	23 42 28.99	+03 41 49.5		046
1979 SN	1979 09 27.93259	23 42 28.10	+03 41 49.5		046
1979 SO *	1979 09 25.93457	00 08 17.10	-01 05 08.6	17.0	046
1979 SO	1979 09 25.94887	00 08 16.23	-01 05 09.2		046
1979 SO	1979 09 26.91623	00 07 22.10	-01 05 05.2		046
1979 SO	1979 09 26.93081	00 07 21.26	-01 05 06.0		046
1979 SO	1979 09 27.95649	00 06 23.79	-01 04 59.4		046
1979 SO	1979 09 27.97079	00 06 23.19	-01 04 59.0		046
1979 SP *	1979 09 25.93457	00 02 28.42	-01 52 18.5	16.5	046
1979 SP	1979 09 25.94887	00 02 27.95	-01 52 22.0		046
1979 SP	1979 09 26.91623	00 01 45.50	-01 57 31.3		046
1979 SP	1979 09 26.93081	00 01 44.95	-01 57 35.3		046
1979 SP	1979 09 27.95649	00 01 00.00	-02 03 01.0		046
1979 SP	1979 09 27.97049	00 00 59.42	-02 03 04.9		046
1979 SQ *	1979 09 25.89591	23 26 18.35	+02 15 22.2	15.8	046
1979 SQ	1979 09 25.91050	23 26 17.61	+02 15 17.8		046
1979 SQ	1979 09 26.87346	23 25 31.39	+02 10 26.5		046
1979 SQ	1979 09 26.88804	23 25 30.70	+02 10 22.7		046
1979 SQ	1979 09 27.87825	23 24 43.81	+02 05 23.0		046
1979 SQ	1979 09 27.89249	23 24 43.05	+02 05 18.6		046
1979 SR *	1979 09 25.89591	23 29 26.34	+04 31 02.9	16.5	046
1979 SR	1979 09 25.91050	23 29 25.83	+04 30 55.1		046
1979 SR	1979 09 26.87346	23 28 48.13	+04 21 50.5		046
1979 SR	1979 09 26.88804	23 28 47.62	+04 21 42.3		046
1979 SR	1979 09 27.87825	23 28 09.33	+04 12 20.5		046
1979 SR	1979 09 27.89249	23 28 08.74	+04 12 14.1		046
1979 SS *	1979 09 25.89591	23 31 18.23	+02 30 50.5	17.0	046
1979 SS	1979 09 25.91050	23 31 17.56	+02 30 49.8		046
1979 SS	1979 09 26.87346	23 30 24.18	+02 29 25.1		046
1979 SS	1979 09 26.88804	23 30 23.29	+02 29 24.5		046
1979 SS	1979 09 27.87825	23 29 29.47	+02 27 56.2		046
1979 SS	1979 09 27.89249	23 29 28.48	+02 27 54.0		046
1979 ST *	1979 09 25.89591	23 34 20.45	+01 45 18.1	16.6	046

1979 ST	1979 09 25.91050	23 34 19.94	+01 45 14.2	046
1979 ST	1979 09 26.87346	23 33 37.89	+01 41 20.7	046
1979 ST	1979 09 26.88804	23 33 37.28	+01 41 16.8	046
1979 ST	1979 09 27.87825	23 32 54.53	+01 37 15.8	046
1979 ST	1979 09 27.89249	23 32 53.95	+01 37 12.8	046

Note 1: near edge of plate. 2: this object is a little diffuse.

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

Object	Date	UT	R. A. (1950)	Decl.	N	Obs.
/1979c	1979 08 31.88296	05 48 32.10	+59 21 58.0			063
/1979c	1979 08 31.88788	05 48 27.96	+59 22 28.0			063
/1979c	1979 08 31.95484	05 47 38.77	+59 26 49.2			063
/1979i	1979 09 28.82914	13 18 26.62	+65 20 38.4			063
/1979i	1979 09 28.84442	13 18 25.37	+65 20 18.9			063
/1979i	1979 09 28.88019	13 18 21.67	+65 19 39.5			063
1642	1942 09 07.93256	00 12 27.25	+07 09 59.8		1	062
1642	1942 09 11.94859	00 09 07.07	+07 05 45.1		1	062
1642	1942 09 14.96839	00 06 29.33	+07 01 18.6		1	062
1642	1942 10 03.89230	23 49 17.84	+06 16 39.4		1	062
1642	1942 10 03.89907	23 49 17.37	+06 16 36.8		1	062
1642	1942 10 11.87566	23 42 40.16	+05 53 52.3		1	062
1939 FY	1939 02 16.98632	11 30 11.46	+08 54 23.2			062
1939 FY	1939 03 14.93906	11 02 19.39	+09 42 46.3			062
1939 FY	1939 03 22.91024	10 54 10.42	+09 47 24.2			062
1939 UJ	1939 10 18.91069	01 56 00.54	+09 12 52.4			062
1939 UJ	1939 10 20.88693	01 54 17.70	+09 11 23.2			062
1939 UJ	1939 11 11.73215	01 36 07.92	+09 00 51.0			062
1940 FG	1940 04 12.84553	12 37 21.55	+05 29 43.2			062
1940 GD	1940 04 03.93452	13 11 20.64	-02 46 28.2			062
1940 GD	1940 04 04.89405	13 10 35.47	-02 35 43.6			062
1940 GD	1940 04 12.95896	13 04 13.50	-01 08 45.1			062
1940 GE	1940 04 03.93452	13 13 34.05	+00 56 01.2			062
1940 GE	1940 04 04.89405	13 12 33.78	+00 58 18.5			062
1940 GE	1940 04 12.95896	13 04 05.42	+01 13 45.7			062
1940 GE	1940 04 28.92126	12 49 21.22	+01 16 50.1			062
1940 GH	1940 04 04.99567	13 32 44.56	+06 39 57.8			062
1940 GH	1940 04 10.92882	13 27 47.41	+06 53 16.0			062
1940 GH	1940 04 11.89751	13 26 58.20	+06 55 04.8			062
1940 GH	1940 04 12.97470	13 26 03.43	+06 56 54.7			062
1940 GN	1940 04 09.99692	14 43 11.81	-01 02 25.6			062
1940 GN	1940 04 10.98328	14 42 30.02	-01 00 19.7			062
1940 GN	1940 04 13.00630	14 41 00.32	-00 56 18.9		2	062
1940 GN	1940 04 30.94802	14 24 39.27	-00 45 51.8			062
1940 GN	1940 05 01.93471	14 23 41.11	-00 46 56.6			062
1940 GO	1940 04 09.99692	14 55 33.98	+01 46 48.6			062
1940 GO	1940 04 10.98328	14 54 48.66	+01 50 16.9			062
1940 GO	1940 04 13.01116	14 53 12.18	+01 57 05.6			062
1940 GO	1940 05 01.93927	14 35 56.73	+02 34 18.8			062
1942 RM	1942 09 07.93962	23 48 36.44	-00 28 24.4			062
1942 RM	1942 09 08.91927	23 47 59.29	-00 42 27.9			062
1942 RM	1942 09 11.89465	23 46 03.23	-01 25 31.6			062
1942 RM	1942 09 15.91015	23 43 22.15	-02 23 50.4			062
1942 RM	1942 10 03.87176	23 32 22.69	-06 24 04.4			062
1943 EN	1943 03 03.93742	10 57 24.55	+14 20 43.6			062
1943 EN	1943 03 07.95360	10 52 54.92	+14 29 53.3			062
1943 EN	1943 03 09.90662	10 50 45.37	+14 33 27.3			062
1943 EN	1943 03 25.85628	10 35 27.13	+14 35 21.1			062

1943 GT	1943 04 03.95993	12 40 25.83	+04 04 10.8	062
1943 GT	1943 04 03.99477	12 40 23.61	+04 04 28.4	062
1943 GT	1943 04 07.91737	12 36 34.52	+04 26 37.4	062
1943 TD	1943 10 05.83032	23 52 44.21	+07 40 47.8	062
1943 TD	1943 10 05.86007	23 52 43.10	+07 40 32.3	062

Note 1: identification (1642) = 1942 RB by L. Oterma. 2: the approximate position on RI 2128 is in error.

OBSERVATIONS MADE AT THE PURPLE MOUNTAIN OBSERVATORY (CODE 330) AND AT TSINGTAO (CODE 334).

Object	Date	UT	R. A. (1950)	Decl.	O - C	Obs.
/1962 VIII	1965 01 08.82998	11 17 20.94	-00 42 42.0			330
/1965 I	1965 01 06.68004	06 44 28.80	+27 07 16.3			330
/1965 I	1965 01 07.72778	06 44 25.99	+27 29 13.4			330
/1965 I	1965 01 11.86250	06 44 25.28	+28 55 16.9			330
/1965 I	1965 03 04.52569	07 38 52.78	+37 43 52.3			330
/1965 I	1965 04 06.72049	08 54 04.41	+33 41 56.7			330
/1965 I	1965 04 23.58438	09 32 24.49	+30 00 30.4			330
/1965 II	1965 03 09.62604	08 04 07.27	+12 39 06.3			330
/1965 II	1965 03 27.53402	08 21 14.72	+11 21 12.0			330
/1965 II	1965 04 24.58750	09 02 29.33	+08 46 54.6			330
/1965 VIII	1965 11 09.89120	11 45 04.74	-23 47 07.5			330
/1965 VIII	1965 11 19.88148	11 07 56.41	-29 27 08.2			330
/1965 VIII	1965 11 22.88343	10 55 59.90	-31 01 59.7			330
/1972 IX	1972 10 10.50346	15 47 02.34	+23 51 44.5			330
/1972 IX	1972 10 12.46469	15 48 31.79	+23 52 43.3			330
/1972 XI	1973 01 27.56904	06 22 53.33	+30 06 47.7			330
/1973 II	1972 11 29.78886	07 14 27.51	-23 49 41.3			330
/1973 XII	1973 10 08.87532	10 43 03.27	-02 10 27.4			330
/1973 XII	1973 10 09.88021	10 44 52.18	-02 23 17.1			330
/1973 XII	1973 10 16.88403	10 58 41.67	-03 55 36.5			330
/1973 XII	1973 10 18.88065	11 02 51.45	-04 23 18.5			330
/1973 XII	1973 10 21.88082	11 09 23.79	-05 07 28.0			330
/1973 XII	1973 10 22.88329	11 11 38.48	-05 22 37.1			330
/1973 XII	1973 10 23.87949	11 13 55.20	-05 38 05.6			330
/1973 XII	1973 10 24.87951	11 16 11.43	-05 51 43.7			330
/1973 XII	1973 10 29.87598	11 28 26.82	-07 16 29.0			330
/1973 XII	1973 10 31.87881	11 33 41.18	-07 51 53.4			330
/1973 XII	1973 11 01.88025	11 36 23.46	-08 10 00.5			330
/1973 XII	1973 11 12.87312	12 10 19.00	-11 53 01.4			334
/1973 XII	1973 11 13.88001	12 13 53.86	-12 15 42.6			334
/1973 XII	1973 11 13.88696	12 13 55.19	-12 15 52.4			334
/1973 XII	1973 11 15.87259	12 21 18.79	-13 02 01.9			330
/1973 XII	1973 11 16.87677	12 25 13.10	-13 25 59.5			330
/1973 XII	1973 11 18.87784	12 33 20.26	-14 15 13.5			334
/1973 XII	1973 11 19.87670	12 37 34.18	-14 40 18.1			334
/1973 XII	1973 11 19.89371	12 37 38.95	-14 40 47.0			334
/1973 XII	1973 11 21.88733	12 46 32.12	-15 32 16.3			334
/1973 XII	1973 11 21.89323	12 46 33.98	-15 32 27.7			334
/1973 XII	1973 11 21.89579	12 46 34.62	-15 32 29.8			330
/1973 XII	1973 11 22.90174	12 51 16.91	-15 59 04.9			330
/1973 XII	1973 11 23.89108	12 56 03.98	-16 25 35.4			330
/1973 XII	1973 11 24.89045	13 01 03.87	-16 52 47.7			330
/1973 XII	1973 11 25.87556	13 06 09.83	-17 19 55.0			334
/1973 XII	1973 11 25.88632	13 06 12.79	-17 20 11.2			334
/1973 XII	1973 11 25.89396	13 06 15.28	-17 20 23.4			334
/1973 XII	1973 11 26.90061	13 11 38.73	-17 48 25.8			330
/1973 XII	1973 11 28.89572	13 22 55.14	-18 44 43.9			334
/1973 XII	1973 11 28.90127	13 22 57.75	-18 44 56.6			334

/1973 XII	1973 11	29.90486	13 28	57.15	-19 13	33.6			330
/1973 XII	1973 11	30.89595	13 35	05.41	-19 41	55.0			330
/1973 XII	1973 12	01.88842	13 41	27.84	-20 10	22.6			330
/1973 XII	1973 12	03.89395	13 55	06.63	-21 07	45.8			334
/1973 XII	1973 12	05.89164	14 09	47.07	-22 03	56.5			334
/1973 XII	1973 12	05.90142	14 09	52.78	-22 04	08.6			330
/1973 XII	1973 12	05.91143	14 09	55.90	-22 04	25.6			334
/1973 XII	1973 12	08.89251	14 34	02.27	-23 23	51.4			330
/1973 XII	1974 01	06.41612	20 37	40.03	-14 41	21.0			334
/1973 XII	1974 01	07.43443	20 49	42.45	-13 50	00.8			334
/1973 XII	1974 01	11.43199	21 36	37.42	-10 13	55.2			334
/1973 XII	1974 01	12.42980	21 48	11.28	-09 16	51.1			334
/1973 XII	1974 01	12.44578	21 48	22.38	-09 15	56.2			334
/1973 XII	1974 01	19.45693	23 05	30.24	-02 27	35.0			334
/1973 XII	1974 01	21.44832	23 25	26.81	-00 15	00.4			330
/1973 XII	1974 01	24.46412	23 53	30.16	+01 56	50.2			334
/1973 XII	1974 01	29.45573	00 34	08.78	+05 35	11.5			334
/1973 XII	1974 02	01.45155	00 55	19.17	+07 24	16.4			334
/1973 XII	1974 02	02.46951	01 01	59.07	+07 57	46.2			334
/1973 XII	1974 02	02.47993	01 02	03.55	+07 58	11.0			334
/1973 XII	1974 02	11.46506	01 51	27.85	+11 49	49.8			330
/1973 XII	1974 02	12.46856	01 56	06.00	+12 09	55.5			330
/1973 XII	1974 02	15.48294	02 09	10.24	+13 02	41.6			330
/1973 XII	1974 02	20.47501	02 28	24.61	+14 21	51.4			330
/1974 II	1973 09	21.53172	21 08	42.22	-15 54	45.6			330
/1974 II	1973 09	23.58473	21 08	16.84	-15 54	41.3			330
/1974 III	1974 03	18.47149	01 49	02.40	-04 13	19.8			330
/1974 III	1974 03	28.46846	02 14	49.17	+21 07	41.0			330
1	1975 12	02.69277	04 26	03.88	+18 14	00.0	0.0	0	330
1	1975 12	22.47521	04 07	26.66	+18 47	13.7	0.1-	0	330
2	1975 10	30.49168	23 31	55.76	-13 15	13.5			330
4	1975 10	30.49168	23 30	50.76	-14 26	55.8			330
5	1973 11	21.54509	02 17	50.07	+04 54	23.3	0.0	0	330
5	1973 11	24.49948	02 15	38.77	+04 47	11.5	0.0	0	330
5	1973 11	30.49692	02 11	46.35	+04 37	33.4	0.0	0	330
5	1977 10	12.55778	01 43	51.32	+02 46	55.8	0.0	0	330
5	1977 11	03.58413	01 24	53.05	+00 42	34.6	0.0	0	330
5	1977 11	04.57095	01 24	06.71	+00 38	21.3	0.1-	0	330
5	1977 11	08.55436	01 21	08.59	+00 22	56.3	0.1-	0	330
5	1977 11	11.53614	01 19	06.20	+00 13	12.4	0.1-		330
7	1973 12	22.63159	06 36	00.68	+20 22	30.7	0.0	0	330
7	1973 12	25.64363	06 32	38.44	+20 12	37.2	0.0	0	330
8	1966 01	28.86356	10 14	27.22	+16 20	03.0	0.0	0	330
8	1966 02	13.68900	09 58	54.83	+18 35	25.9	0.0	1+	330
8	1966 02	14.64248	09 57	53.69	+18 43	08.1	0.0	1+	330
8	1966 02	16.65288	09 55	44.92	+18 59	08.8	0.1-	1+	330
8	1966 02	25.72398	09 46	23.09	+20 03	22.0	0.0	1+	330
9	1975 10	30.71182	05 32	41.45	+22 24	49.4			330
9	1975 11	24.56208	05 20	21.73	+23 43	50.1	0.0	1+	330
10	1974 10	12.65045	02 00	46.74	+17 45	39.1	0.0	0	330
10	1974 11	18.64286	01 34	31.71	+15 01	56.7	0.0	0	330
10	1976 01	05.59660	06 00	46.15	+24 17	16.2	0.0	0	330
11	1974 10	23.68530	03 05	11.78	+09 20	52.2	0.1-	1-	330
14	1973 10	23.87598	00 17	13.79	-11 58	34.5	0.3+	0	330
14	1974 11	18.70396	06 49	38.77	+22 43	04.3			330
14	1974 12	14.62242	06 33	54.52	+24 33	56.0	0.0	0	330
14	1974 12	18.69013	06 29	52.44	+24 53	23.1	0.0	0	330
14	1975 01	04.58257	06 11	24.63	+26 08	50.4	0.0	0	330
14	1975 01	12.52770	06 03	07.75	+26 38	35.6	0.0	0	330

14	1975	01	16.57095	05	59	20.96	+26	51	56.6	0.0	0	330
14	1975	01	17.61476	05	58	25.97	+26	55	12.4	0.0	0	330
14	1975	01	18.63441	05	57	34.24	+26	58	19.4	0.0	0	330
16	1973	05	04.58410	15	00	56.85	-12	36	27.2	0.0	1-	330
17	1965	05	28.58168	15	21	46.54	-08	37	29.1	0.0+	0	330
17	1976	02	01.63623	09	55	53.07	+15	07	18.8	0.1+	0	330
18	1966	04	18.62108	12	58	28.50	+06	06	17.9	0.4+	1-	330
20	1966	02	14.69664	10	14	31.87	+09	44	19.2	0.0	1-	330
20	1966	02	24.72677	10	05	00.93	+10	40	04.9	0.0	0	330
20	1966	03	16.59788	09	49	55.36	+12	10	29.8			330
20	1974	05	25.53904	14	29	29.37	-14	18	02.0	0.0	0	330
21	1974	11	18.70396	06	42	49.52	+23	21	34.1			330
21	1974	12	14.62242	06	22	08.99	+24	09	44.2	0.3-	1+	330
21	1974	12	18.69013	06	17	39.62	+24	16	47.6	0.4-	1+	330
21	1975	01	04.58257	05	58	52.00	+24	38	37.2	0.3-	1+	330
21	1975	01	12.52770	05	51	11.47	+24	44	32.2	0.3-	0	330
21	1975	01	16.57095	05	47	49.92	+24	46	41.7	0.2-	0	330
21	1975	01	17.61476	05	47	02.15	+24	47	11.2	0.3-	1-	330
21	1975	01	18.63441	05	46	17.35	+24	47	38.0	0.3-	0	330
24	1973	11	16.59448	02	56	18.76	+17	03	08.9	0.4-	1-	330
24	1975	01	16.81470	10	04	20.35	+13	01	08.3	0.4-	2+	330
24	1975	01	22.86594	10	01	15.25	+13	18	59.9	0.5-	3+	330
24	1975	02	12.55003	09	46	14.01	+14	39	00.1	0.5-	3+	330
24	1975	02	12.60559	09	46	11.77	+14	39	04.7	0.4-	2+	330
24	1975	02	19.77855	09	40	20.55	+15	07	41.4	0.5-	3+	330
26	1974	03	28.61013	12	34	44.26	+00	15	11.9	0.4+	0	330
27	1973	01	30.56662	08	35	18.22	+20	27	20.8	0.0	0	330
29	1976	02	01.63623	10	00	34.49	+18	22	41.6	0.1+	0	330
32	1975	12	02.69277	04	27	35.13	+17	33	34.6	0.1-	1-	330
32	1975	12	22.47521	04	09	44.01	+16	25	13.4	0.1-	2-	330
32	1976	01	02.57425	04	02	51.29	+16	00	51.4	0.2-	2-	330
38	1977	10	16.64408	03	02	21.58	+28	19	18.5	0.0	0	330
39	1965	12	31.84103	08	08	10.28	+09	27	09.1	0.1-	1-	330
39	1966	01	21.66252	07	50	19.44	+11	00	37.5	0.0	0	330
39	1973	08	24.66782	22	22	07.37	-08	50	49.1	0.6-	1-	330
39	1973	11	27.48987	22	29	47.36	-13	48	09.6	0.6-	1-	330
40	1973	08	23.67749	22	34	57.42	-16	13	34.3	0.0	0	330
40	1973	11	27.48987	22	36	14.07	-13	59	49.5	0.0	0	330
40	1977	11	14.68613	05	00	16.53	+19	11	14.0	0.1-	1-	330
40	1977	12	08.55438	04	34	31.01	+19	11	30.9	0.2-	0	330
42	1975	11	28.59617	02	58	32.09	+09	13	44.6	0.0	0	330
43	1973	12	31.60618	07	35	06.36	+19	27	27.8	0.1+	1-	330
43	1974	02	11.53485	06	52	32.48	+20	08	33.0	0.0	0	330
44	1972	11	29.68956	06	00	27.67	+18	09	48.3	0.0	0	330
44	1972	12	08.62078	05	52	47.04	+18	14	05.4	0.0	0	330
44	1972	12	29.60278	05	31	19.54	+18	42	03.6	0.1-	0	330
45	1975	10	31.64103	01	47	26.87	+01	43	45.9	0.0	0	330
47	1965	10	20.72698	03	15	05.64	+23	03	00.5	0.1-	1-	330
47	1975	10	31.70422	04	46	34.38	+28	28	31.3	0.0	0	330
48	1973	11	21.54509	02	08	43.28	+06	53	08.2	0.0	0	330
48	1973	11	24.49948	02	07	05.89	+06	43	05.2	0.0	0	330
48	1973	11	30.49692	02	04	17.41	+06	26	36.1	0.0	0	330
50	1965	10	19.72494	03	15	05.24	+14	02	36.5	0.1+	2+	330
50	1965	10	23.75844	03	12	36.85	+13	42	50.9	0.1+	1+	330
50	1974	12	19.70337	07	42	07.65	+17	05	08.9	0.0	0	330
50	1975	01	10.70269	07	20	15.89	+17	57	41.7	0.0	0	330
50	1975	01	16.63900	07	14	08.06	+18	14	25.9	0.1-	0	330
51	1965	09	20.71935	01	11	27.42	+03	20	53.8	0.1+	2+	330
53	1973	05	04.69382	15	54	04.99	-12	23	55.6	0.0	0	330

54	1975	12	01.63926	04	51	41.21	+37	38	50.6	0.0	0	330
55	1966	02	25.89134	11	51	32.52	+04	53	52.9	0.0	1-	330
55	1975	04	11.54456	10	25	40.00	+13	56	15.6			330
57	1974	03	18.59163	11	51	10.95	-07	03	15.7	0.0	0	330
57	1977	10	10.67163	02	32	32.34	+09	46	54.9	0.3+	0	330
57	1977	10	21.85809	02	25	34.81	+08	04	51.5	0.3+	0	330
58	1965	12	31.89867	08	45	36.70	+12	46	46.6	0.0	0	330
58	1973	11	21.54509	02	09	54.44	+06	09	33.9	0.0	1-	330
58	1973	11	24.49948	02	08	02.53	+06	01	24.5	0.1+	1-	330
58	1973	11	30.49692	02	04	47.94	+05	48	59.1	0.1+	0	330
61	1966	02	14.69664	10	13	40.60	+13	15	19.4	0.0	0	330
61	1966	02	24.72677	10	04	25.68	+13	26	29.9	0.0	0	330
61	1966	03	16.59788	09	48	06.16	+13	34	25.9	0.1-	0	330
62	1965	09	20.71935	01	08	06.01	+03	48	26.9	1.8+	10+	330
64	1965	12	30.90002	08	20	49.51	+20	08	59.7	0.0	0	330
64	1966	01	20.57461	08	02	14.84	+20	54	11.2	0.0	1-	330
64	1966	01	28.76565	07	54	16.24	+21	10	42.6	0.0	0	330
64	1966	02	13.63553	07	41	50.43	+21	31	13.7	0.0	1-	330
64	1966	02	16.55323	07	40	15.06	+21	33	05.3	0.0	2+	330
64	1973	10	31.52534	00	54	26.04	+07	55	43.9	0.0	0	330
65	1965	09	20.66588	01	40	20.01	+06	57	57.2	0.5+	2+	330
65	1965	10	16.61661	01	22	36.01	+04	51	36.7	0.6+	3+	330
65	1973	12	31.60618	07	34	19.85	+18	10	12.7	0.0	1-	330
67	1974	05	25.65640	15	07	21.66	-11	29	03.7	2.2-	10+	330
67	1975	11	23.53493	03	47	16.24	+13	55	42.0	1.7-	5-	330
69	1972	10	28.60333	00	52	28.01	+02	05	12.5	0.0	1-	330
70	1966	03	15.64198	10	29	49.17	+26	33	24.0	0.0	1-	330
71	1972	11	27.55008	03	48	08.18	+52	00	13.8	0.1-	0	330
71	1972	11	28.54416	03	46	52.22	+51	55	39.0	0.0	1+	330
72	1965	12	24.74249	06	41	48.60	+14	44	43.4	0.1-	1+	330
72	1966	01	21.56669	06	13	13.03	+15	09	35.6	0.6-	1+	330
72	1975	12	22.47521	04	19	59.12	+14	50	02.8	0.2-	0	330
72	1975	12	30.52763	04	14	09.08	+14	36	58.1	0.1-	0	330
77	1973	01	30.66870	10	17	09.57	+13	11	08.1	0.3-	2-	330
78	1973	02	01.58260	07	44	35.38	+29	49	03.0	0.1-	0	330
79	1974	10	23.73669	03	38	01.24	+16	51	17.0	0.0	0	330
80	1974	01	01.64708	07	32	50.95	+07	55	14.4	0.8-	0	330
80	1975	04	12.62062	13	38	59.99	-13	36	44.5	0.4-	1-	330
85	1965	11	25.74801	05	50	13.00	+08	39	54.5	0.1-	0	330
86	1975	11	26.65725	05	40	11.05	+22	05	17.5	0.2+	1-	330
86	1975	11	29.59619	05	37	48.42	+22	09	32.4	0.1-	0	330
86	1975	12	02.62228	05	35	12.33	+22	13	47.0	0.0	0	330
86	1975	12	11.74446	05	26	46.01	+22	26	00.9	0.0	0	330
86	1975	12	22.52903	05	16	40.80	+22	38	45.4	0.1-	0	330
86	1975	12	24.55237	05	14	53.33	+22	40	58.3	0.0	0	330
86	1975	12	29.58108	05	10	41.74	+22	46	18.7	0.0	0	330
86	1976	01	05.54799	05	05	41.57	+22	53	34.8	0.0	0	330
88	1966	03	16.71663	10	10	39.28	+04	07	18.9	0.0	0	330
88	1973	11	20.62083	04	50	58.20	+26	10	06.2	0.0	0	330
88	1973	12	17.51765	04	25	00.51	+24	41	29.4	0.0	0	330
92	1965	10	16.63750	02	43	11.00	+01	41	53.8	1.1-	8-	330
92	1965	10	20.67490	02	40	17.29	+01	27	34.9	1.2-	8-	330
93	1966	03	15.58816	10	20	17.74	+16	13	37.5	0.4+	0	330
93	1977	10	10.61052	01	21	56.39	+12	51	30.3	1.0+	9+	330
93	1977	10	16.58784	01	16	17.04	+12	35	30.0	1.0+	9+	330
93	1977	11	01.50904	01	02	24.10	+11	48	51.3	1.0+	8+	330
93	1977	11	08.60436	00	57	26.84	+11	30	10.2	0.9+	8+	330
96	1975	04	02.63678	11	27	37.73	-15	17	32.0	0.0	0	330
100	1973	12	25.64363	06	21	47.97	+18	29	54.3	0.1-	1+	330

101	1966	02	13.74039	10	33	06.93	+12	29	37.6	0.0	1+	330
101	1966	02	14.74942	10	32	09.61	+12	32	26.6	0.0	0	330
101	1966	02	24.74483	10	22	21.27	+12	59	30.4	0.0	0	330
101	1966	02	25.77051	10	21	20.32	+13	02	06.4	0.0	1-	330
101	1966	03	15.58816	10	04	56.94	+13	35	12.9	0.1-	1-	330
101	1966	03	16.59788	10	04	08.74	+13	36	16.0			330
102	1966	02	16.75670	11	28	11.13	-02	03	16.9	0.2+	0	330
103	1975	11	28.59617	02	48	08.04	+07	30	32.3	0.1-	0	330
107	1965	10	17.56109	23	19	49.35	-05	16	16.3			330
107	1975	04	02.58748	11	18	53.28	+04	46	04.4	0.0	0	330
110	1974	04	15.58162	12	37	33.54	+02	39	45.9	0.1-	1+	330
112	1973	12	25.56655	05	18	53.64	+26	44	18.7	0.3-	0	330
113	1972	12	12.71914	06	32	25.70	+18	45	52.7	0.1-	0	330
114	1977	10	10.67163	02	22	39.48	+08	35	14.0	0.3+	1+	330
114	1977	10	21.85809	02	13	51.85	+07	30	41.9	0.3+	2+	330
115	1965	03	05.80903	11	27	46.03	-10	28	31.8	0.2+	1-	330
116	1973	11	23.50427	03	18	59.08	+17	25	55.1	0.0	0	330
116	1973	11	24.54774	03	18	00.57	+17	23	29.2	0.0	0	330
116	1973	11	28.48989	03	14	24.64	+17	14	43.9	0.0	0	330
118	1973	10	16.57153	02	39	15.12	+11	44	28.6	0.0	1-	330
119	1965	10	24.69903	03	43	24.30	+15	59	10.0	0.4-	2-	330
119	1965	11	20.73111	03	20	23.06	+13	20	30.7	0.4-	1-	330
119	1965	11	23.62125	03	17	49.11	+13	04	51.6	0.3-	0	330
119	1965	11	26.78470	03	15	06.59	+12	48	43.2	0.3-	1-	330
119	1965	11	30.80133	03	11	54.13	+12	29	54.0	0.3-	1-	330
119	1965	12	13.49242	03	04	01.02	+11	45	51.0	0.4-	2-	330
119	1965	12	18.51979	03	02	01.64	+11	35	31.9			330
119	1973	09	30.60663	00	43	03.55	+07	07	07.5	0.3-	1-	330
120	1965	02	23.67986	08	49	33.57	+22	03	53.2	0.0	0	330
120	1965	03	05.67847	08	43	16.74	+22	02	35.7			330
120	1973	08	26.61734	23	27	26.81	-02	39	36.3	0.2-	1-	330
121	1977	11	14.68613	05	15	02.40	+22	26	57.4	0.0	0	330
122	1965	09	23.63663	00	48	14.43	+04	43	53.9	0.2+	1+	330
122	1965	10	18.56383	00	31	01.29	+02	44	37.0	0.2+	1+	330
122	1965	10	21.53250	00	29	09.67	+02	31	43.4	0.2+	1+	330
123	1965	08	27.61977	22	11	25.21	-06	31	54.2	0.0	0	330
125	1973	12	17.56487	06	13	51.55	+16	37	02.4	0.6-	1-	330
126	1965	01	09.75208	07	44	01.27	+26	06	49.5	3.6+	8-	330
127	1973	11	20.62083	04	45	53.15	+30	11	12.1	0.2-	1-	330
128	1975	05	06.56299	14	07	35.57	-06	36	06.5	0.6+	4-	330
131	1973	11	23.54536	03	55	53.50	+19	45	18.7	0.2-	1-	330
131	1977	12	08.60508	05	40	59.43	+25	39	29.7	0.0	1-	330
131	1977	12	12.59270	05	36	31.97	+25	47	05.9	0.1+	0	330
136	1965	09	21.64389	00	28	13.58	+04	00	39.5	0.1-	0	330
136	1965	10	17.61109	00	28	45.79	-00	49	22.9	0.1-	0	330
136	1965	10	20.51656	00	07	10.86	-01	15	58.2	0.1-	0	330
136	1965	10	24.59417	00	05	17.87	-01	50	40.1	0.1-	1-	330
136	1972	10	28.60333	01	07	15.96	+01	18	55.6	0.0	0	330
137	1975	11	28.59617	02	49	13.63	+06	52	37.6	0.1+	0	330
138	1977	03	26.72239	12	48	58.81	-01	15	51.1	0.9-	6+	330
140	1973	08	23.67749	22	37	07.59	-13	19	33.0	0.1-	0	330
141	1973	10	18.51224	23	09	49.46	+11	59	24.8	0.4-	1-	330
141	1975	01	12.68811	09	59	37.22	+13	10	11.1	0.0	2-	330
148	1965	02	02.73958	10	48	34.05	+11	43	20.8	0.0	0	330
150	1973	10	16.57153	02	27	20.08	+14	09	30.4	0.1-	0	330
150	1973	12	01.51782	01	56	08.47	+10	52	45.4	0.2-	1-	330
153	1973	01	30.61430	08	45	40.18	+07	37	58.4	0.1-	0	330
153	1974	03	18.59163	11	36	03.86	-06	16	51.6	0.2-	0	330
154	1977	11	03.58413	01	26	25.00	+03	16	40.5	0.1+	2+	330

154	1977	11	04.51886	01	25	40.35	+03	17	08.3	0.0	1+	330
154	1977	11	04.57095	01	25	37.74	+03	17	09.3	0.0	1+	330
156	1974	11	18.64286	01	41	40.52	+16	37	24.0	0.0	0	330
159	1974	12	18.65610	06	49	49.30	+17	13	45.3	0.0	1+	330
159	1974	12	20.76111	06	48	07.67	+17	18	02.4	0.0	0	330
160	1975	01	22.81594	09	47	38.13	+18	20	52.0	0.0	0	330
160	1975	02	12.55003	09	28	59.97	+19	38	49.3	0.1-	0	330
161	1965	10	18.56383	00	24	45.94	+01	25	02.2	0.3+	3+	330
161	1973	12	24.59390	06	25	07.32	+37	19	21.7	0.4-	1+	330
163	1965	09	20.71935	01	14	53.37	+03	30	01.6	0.5+	2+	330
165	1972	12	29.70000	07	08	11.12	+28	02	07.0	0.0	0	330
166	1966	01	01.83444	08	26	18.99	+14	40	49.7	0.4-	0	330
166	1966	01	20.62113	08	09	31.86	+17	05	42.4	0.5-	0	330
166	1966	01	28.81218	08	01	47.46	+18	11	23.5	0.4-	0	330
166	1966	02	14.54560	07	48	53.07	+20	11	24.7	0.4-	1+	330
166	1966	02	16.55323	07	47	44.83	+20	23	52.8	0.4-	2+	330
166	1966	02	24.56392	07	44	18.13	+21	08	36.5			330
166	1975	01	12.68811	09	58	43.36	+14	15	06.0	0.0	1-	330
166	1975	01	16.72859	09	56	32.48	+14	45	49.1	0.1-	0	330
166	1975	02	12.55003	09	35	11.06	+18	35	01.2	0.0	0	330
171	1966	01	30.81775	09	45	48.72	+16	02	02.5	0.5+	2-	330
171	1966	02	14.59525	09	34	09.01	+17	12	42.9	0.5+	1-	330
171	1966	02	24.67625	09	26	18.87	+17	55	11.7	0.5+	2-	330
172	1976	02	01.63623	09	46	50.29	+17	10	47.5	0.1-	1+	330
173	1966	04	14.52352	11	24	25.68	+14	03	57.6	0.0	0	330
173	1966	04	14.54435	11	24	26.28	+14	03	51.5	0.0	0	330
177	1965	12	20.76359	07	15	03.47	+24	28	18.3	0.0	0	330
190	1972	10	28.60333	00	50	45.44	+02	01	20.7	0.1+	1-	330
190	1973	12	13.55609	05	47	29.22	+14	39	34.0	0.1+	0	330
190	1973	12	22.58089	05	40	50.95	+14	36	42.2	0.0	0	330
194	1973	08	04.51177	19	16	46.89	+00	06	28.8	0.2-	1-	330
197	1973	01	29.74084	09	53	50.09	+24	02	52.8	0.2-	0	330
198	1966	01	01.78653	07	46	29.78	+15	35	16.8	1.2-	9+	330
198	1966	01	16.67986	07	29	55.00	+15	25	50.2	1.2-	9+	330
198	1966	01	19.66142	07	26	40.41	+15	25	12.9	1.2-	8+	330
199	1965	10	20.67490	02	43	30.93	-02	37	00.3	0.6+	6+	330
201	1965	02	02.73958	10	39	05.31	+07	35	42.8	0.2+	1-	330
203	1965	09	21.64389	00	33	22.55	+05	15	54.2	0.8+	6+	330
205	1972	11	16.83603	05	18	28.34	+12	50	37.7	0.0	1+	330
205	1972	11	28.61777	05	09	08.97	+11	48	05.3	0.0	0	330
208	1973	12	25.56655	05	16	06.24	+25	41	02.4	0.2-	0	330
208	1975	02	16.85964	12	08	17.46	-00	14	20.5	0.1-	0	330
208	1975	04	02.58748	11	36	17.28	+02	48	05.3	0.0	0	330
209	1966	03	16.81559	12	19	56.07	-02	28	13.0	0.0	1+	330
209	1966	03	26.71803	12	12	04.24	-01	58	52.4	0.1+	1-	330
212	1977	12	12.53297	04	13	43.89	+27	07	09.3	0.4-	3-	330
213	1965	12	24.74249	06	42	46.73	+19	00	30.8	0.0	1+	330
215	1965	11	23.68826	05	00	10.77	+24	36	56.9	3.9-	7-	330
215	1965	12	24.58450	04	30	56.68	+23	55	25.2	4.0-	10-	330
215	1965	12	30.74516	04	26	29.62	+23	45	26.3	3.9-	11-	330
215	1974	10	23.73669	03	41	30.86	+20	40	17.0	0.0	0	330
215	1974	12	18.55263	02	57	11.16	+18	19	27.2	0.0	1-	330
215	1974	12	20.65000	02	56	23.00	+18	16	08.8			330
216	1965	05	29.75322	16	43	10.91	-11	22	31.9	0.1+	0	330
217	1965	01	08.80486	07	37	19.40	+10	20	16.0	0.1+	0	330
218	1972	10	28.70299	02	12	07.36	-02	45	41.4	1.1-	5-	330
218	1974	02	15.54336	07	21	21.18	+05	30	22.6	1.6-	4-	330
219	1974	10	23.68530	02	54	51.29	+10	20	40.6	0.0	1-	330
220	1966	01	01.78653	07	47	43.18	+14	39	03.6	0.7-	3+	330



220	1966	01	16.67986	07	31	10.68	+14	46	32.3	0.6-	4+	330
220	1966	01	19.66142	07	27	54.82	+14	49	21.5	0.7-	3+	330
220	1966	01	27.77778	07	19	35.53	+14	58	18.5	0.7-	3+	330
220	1972	12	12.71914	06	29	29.84	+20	33	59.0	0.1+	0	330
221	1966	04	14.52352	11	05	52.38	+14	07	37.5			330
221	1966	04	14.54435	11	05	52.97	+14	07	33.8			330
221	1973	08	24.59491	21	30	45.76	-15	26	41.0	0.1-	1-	330
225	1965	11	28.64190	04	26	42.37	+00	38	35.5	0.7-	1-	330
225	1965	12	19.63230	04	11	57.01	-00	11	22.6	0.8-	0	330
226	1965	01	10.71250	07	16	35.56	+12	07	27.1	2.1-	4-	330
226	1966	03	15.75170	12	40	32.84	+14	50	13.6	0.1-	0	330
227	1975	01	17.68073	08	29	14.53	+25	03	21.6	0.1-	1-	330
228	1974	11	18.70396	06	48	29.51	+26	00	47.7			330
228	1974	12	14.62242	06	24	22.44	+26	18	02.3	0.1-	0	330
228	1974	12	18.69013	06	19	10.42	+26	17	56.6	0.1-	0	330
228	1975	01	16.57095	05	45	49.47	+25	44	44.8	0.0	0	330
228	1975	01	17.61476	05	44	59.93	+25	42	50.8	0.1-	0	330
228	1975	01	18.63441	05	44	12.30	+25	41	04.4	0.1-	0	330
229	1972	12	29.70000	07	00	35.47	+25	30	07.6	0.1+	0	330
232	1975	11	28.59617	03	00	46.12	+07	52	03.3	0.5-	3-	330
233	1976	12	14.57406	06	10	04.82	+14	37	58.2	0.1+	1-	330
233	1976	12	20.59905	06	04	11.05	+14	25	50.7	0.0	1-	330
234	1965	12	31.84103	08	10	59.97	+08	09	15.7	0.0	1-	330
234	1966	01	01.88097	08	10	05.26	+08	14	44.2	0.0	0	330
234	1966	01	21.66252	07	50	37.77	+10	25	24.5	0.0	0	330
236	1965	09	17.48889	21	56	23.92	-06	21	06.8			330
238	1973	08	25.62199	20	37	34.76	-04	30	57.5	0.1-	1-	330
240	1976	12	16.58380	06	07	51.86	+21	43	52.7	1.5-	1+	330
241	1965	12	20.76359	07	01	49.44	+21	30	43.1	0.0	1+	330
241	1966	01	16.63194	06	37	54.53	+21	21	55.2	0.1+	0	330
241	1966	01	28.71322	06	29	15.08	+21	16	21.9			330
241	1975	11	24.52667	02	41	01.84	+21	18	34.8	0.0	1+	330
242	1965	06	27.71353	19	17	15.39	-06	05	53.5	0.0	1+	330
243	1973	01	29.67765	08	03	53.59	+21	04	00.1	0.0	0	330
244	1974	12	14.60506	05	22	20.44	+18	45	27.2	0.1-	1-	330
244	1977	10	12.60639	02	27	20.48	+14	34	56.7	0.1-	0	330
244	1977	11	03.64246	02	07	42.74	+11	57	07.7	0.1-	1-	330
244	1977	11	12.57364	02	00	19.42	+10	56	47.1	0.0	0	330
246	1965	04	26.62847	14	03	35.41	+08	04	36.4	0.1+	0	330
246	1974	05	25.69668	15	19	29.64	+07	01	58.4	0.2-	0	330
248	1976	12	16.58380	06	05	15.78	+21	01	52.6	0.0	0	330
250	1966	04	14.52352	11	13	05.12	+14	29	47.3			330
250	1966	04	14.54435	11	13	05.73	+14	29	49.0			330
251	1975	02	16.85964	12	05	27.33	+03	17	30.7	0.3-	1+	330
255	1965	09	22.61861	00	29	42.96	+00	38	41.5	0.1+	1+	330
255	1965	10	17.61109	00	08	05.01	-00	23	58.3	0.1+	1+	330
255	1965	10	20.51656	00	05	56.47	-00	28	43.0	0.1+	1+	330
255	1965	10	24.59417	00	03	10.45	-00	33	53.9	0.0	1+	330
256	1965	06	20.68524	19	42	09.17	-02	03	47.2	2.5+	2+	330
256	1965	06	27.79964	19	37	37.66	-02	01	44.8	2.6+	3+	330
259	1974	03	19.58124	11	19	53.93	+21	16	32.6	0.2-	1+	330
262	1972	11	28.70735	06	59	31.37	+32	49	36.8			330
262	1972	12	03.64816	06	57	09.96	+33	24	48.0	0.0	1+	330
262	1972	12	15.82611	06	47	25.61	+34	44	23.6	0.0	1-	330
263	1965	12	18.64062	06	11	42.10	+21	48	24.4	0.0	1-	330
263	1965	12	19.74828	06	10	38.53	+21	48	17.4	0.1-	1-	330
266	1973	11	23.50427	03	18	35.95	+18	23	34.3	0.2-	0	330
266	1973	11	24.54774	03	17	45.60	+18	13	07.7	0.3-	1-	330
266	1973	11	28.48989	03	14	43.87	+17	35	13.7	0.3-	1-	330

268	1965 09 20.71935	01 18 48.76	+04 53 14.8	0.4+	1+	330
268	1965 09 21.69850	01 18 13.21	+04 49 05.4	0.4+	2+	330
268	1965 10 19.56730	00 58 40.16	+02 41 58.3	0.3+	1+	330
269	1966 02 24.67625	09 13 42.04	+14 00 49.1	0.2-	2+	330
269	1975 03 21.81001	13 21 16.40	-02 57 10.6	1.0-	5+	330
270	1972 12 01.60488	04 26 36.09	+22 07 48.1	0.0	0	330
272	1965 11 21.73453	04 31 26.04	+25 14 53.9	2.6+	6+	330
272	1965 11 25.58991	04 27 37.69	+25 13 20.3	2.6+	7+	330
274	1965 10 24.69903	03 49 09.29	+16 34 21.1	1.2+	5+	330
274	1965 11 20.73111	03 28 09.22	+15 33 06.0	1.2+	5+	330
274	1965 11 23.62125	03 25 44.97	+15 26 31.3	1.1+	6+	330
274	1965 11 26.78470	03 23 09.38	+15 19 34.1	1.1+	6+	330
274	1965 11 30.80133	03 19 59.45	+15 11 20.8	1.1+	5+	330
274	1965 12 13.49242	03 11 16.68	+14 51 31.5	1.0+	6+	330
274	1965 12 18.51979	03 08 32.63	+14 46 43.9			330
274	1975 10 31.58408	00 43 43.80	-00 34 22.7	0.0	0	330
277	1973 09 30.60663	00 48 05.89	+06 28 32.9	0.5-	3+	330
280	1966 03 16.76698	11 40 43.77	+05 37 39.4	0.4+	6-	330
280	1966 03 26.59685	11 32 24.85	+06 03 58.1	0.4+	6-	330
280	1966 03 26.65661	11 32 21.83	+06 04 02.8	0.4+	6-	330
280	1966 04 14.61241	11 19 44.77	+06 28 42.6	0.3+	6-	330
282	1975 04 11.54456	10 24 52.37	+16 25 53.0			330
284	1974 12 20.80972	08 23 12.43	+09 12 59.9	0.0	0	330
284	1975 01 16.69873	07 59 44.06	+09 17 26.3	0.3-	1-	330
285	1965 07 28.77965	21 37 47.16	-11 51 25.7	4.8+	52+	330
287	1973 12 24.67133	06 58 36.67	+11 18 49.2	0.2-	0	330
288	1973 05 04.69382	15 59 30.43	-13 18 26.0	0.0	0	330
288	1975 11 28.59617	02 56 10.28	+10 49 37.1	0.1-	0	330
289	1965 06 28.66145	18 28 54.88	-12 51 21.4	0.2+	0	330
289	1976 12 14.57406	06 10 02.44	+12 51 59.9	0.1-	1-	330
291	1966 03 16.81559	12 24 45.73	-01 22 37.4	1.0-	6+	330
292	1972 11 17.85057	02 51 09.91	+19 21 39.2	0.1+	1+	330
292	1972 11 28.49624	02 40 00.94	+19 34 56.5	0.0	0	330
292	1972 12 08.68596	02 31 49.21	+19 48 17.9	0.1+	1-	330
294	1966 02 14.59525	09 46 50.56	+14 42 33.1	0.0	1+	330
294	1966 02 14.61470	09 46 49.90	+14 42 44.0	0.0	1+	330
294	1966 02 25.67745	09 38 48.73	+15 33 41.2	0.0	0	330
294	1966 03 16.53399	09 27 24.41	+16 43 39.6			330
295	1975 12 11.81911	06 35 46.69	+23 40 35.7	0.3+	1+	330
295	1976 01 05.59660	06 11 57.26	+23 20 25.6	0.5-	0	330
296	1965 01 11.88958	09 23 08.73	+15 39 06.6	0.1-	0	330
298	1965 09 23.63663	01 01 05.85	+06 53 03.9	0.2-	2-	330
299	1974 12 18.65610	06 44 57.41	+21 32 56.6	0.9+	7-	330
299	1974 12 20.76111	06 42 47.02	+21 33 29.3	0.9+	7-	330
300	1965 09 18.63674	01 26 44.04	+08 33 16.2	0.6-	1-	330
300	1965 09 20.66588	01 25 36.23	+08 26 48.3	0.5-	2-	330
300	1965 09 21.69850	01 25 00.25	+08 23 23.2	0.5-	3-	330
300	1965 10 19.51765	01 05 25.66	+06 29 58.9	0.5-	2-	330
301	1965 05 28.67821	16 28 39.52	-13 52 05.1	0.0	0	330
301	1965 06 27.57100	16 05 52.56	-13 41 39.9	0.0	0	330
301	1965 06 28.55172	16 05 23.85	-13 43 26.1	0.0	1-	330
302	1965 11 21.73453	04 38 36.99	+27 31 34.3	0.5-	1-	330
302	1965 11 25.58991	04 34 27.89	+27 30 05.2	0.6-	2-	330
304	1966 04 18.62108	12 56 20.12	+10 20 39.1	0.1+	1+	330
304	1976 01 01.60685	06 29 37.60	+01 34 16.9	0.3+	1+	330
305	1965 09 21.64389	00 33 14.75	+06 22 54.1	0.2+	1-	330
306	1965 10 24.74972	04 06 05.32	+08 54 11.5			330
306	1974 02 12.50365	08 49 54.08	+16 21 53.2	0.1-	0	330
306	1974 02 20.52675	08 42 43.01	+17 11 12.4	0.1-	0	330

313	1972	10	28.70299	02	07	13.44	+00	25	00.0	0.1-	1-	330
313	1974	05	25.58001	14	39	54.42	+00	35	22.9	0.1-	3-	330
315	1975	10	31.58408	00	38	14.70	+00	47	16.0	0.1-	1-	330
316	1965	09	20.71935	00	59	50.18	+02	57	59.1	0.0	0	330
316	1965	09	23.63663	00	57	56.27	+02	43	59.6	0.0	1-	330
316	1965	10	18.56383	00	39	53.32	+00	42	14.4	0.1+	1-	330
316	1965	10	21.53250	00	37	52.18	+00	29	47.3	0.0	1-	330
317	1976	02	05.62949	08	16	52.23	+18	32	20.0	0.2-	1+	330
321	1965	11	20.87556	05	42	21.04	+25	40	12.1	0.2-	1-	330
321	1965	11	22.69211	05	41	02.86	+25	41	49.1	0.2-	0	330
321	1965	12	30.79620	05	06	08.19	+25	39	57.8	0.3-	0	330
321	1966	01	16.52361	04	55	47.85	+25	25	28.7			330
322	1965	09	20.61519	00	27	15.47	+17	58	35.6	0.4+	2+	330
322	1965	09	23.53733	00	25	16.91	+17	44	37.1	0.3+	3+	330
325	1966	01	28.86356	10	01	13.28	+17	42	47.8	0.1-	1+	330
325	1966	01	30.81775	09	59	38.50	+17	47	30.4	0.1-	1+	330
325	1966	02	14.59525	09	46	45.74	+18	20	53.1	0.0	1+	330
325	1966	02	14.64248	09	46	43.34	+18	20	59.5	0.0	1+	330
325	1966	02	25.67745	09	37	12.20	+18	37	34.4	0.0	1+	330
326	1974	10	12.58309	01	03	18.76	-07	14	22.1	0.0	1-	330
327	1977	10	10.61052	01	17	34.38	+13	30	44.9	0.4-	4-	330
327	1977	10	16.58784	01	12	05.29	+13	12	51.4	0.4-	4-	330
327	1977	11	01.50904	00	58	42.03	+12	19	56.6	0.5-	5-	330
327	1977	11	08.60436	00	53	59.56	+11	58	15.1	0.5-	5-	330
332	1965	01	01.68820	06	50	33.58	+26	58	36.5	0.0	0	330
332	1965	01	05.61181	06	46	34.26	+27	03	52.1	0.0	0	330
332	1965	01	07.55278	06	44	37.03	+27	06	04.7	0.0	0	330
332	1965	01	08.64653	06	43	31.67	+27	07	13.8	0.0	0	330
332	1966	03	16.81559	12	17	02.65	+00	32	09.3	0.0	0	330
334	1974	04	15.58162	12	29	30.67	+02	39	16.4	0.0	0	330
335	1973	05	04.63955	15	09	26.12	-08	13	23.3	0.5-	2+	330
335	1974	10	23.68530	02	56	54.59	+08	45	25.1	0.3-	2-	330
336	1973	08	26.66734	23	42	48.39	+08	06	59.0	0.5-	0	330
336	1977	11	14.68613	05	18	46.29	+20	50	36.5	0.0	0	330
339	1965	10	16.52778	22	59	16.96	-07	12	23.4			330
341	1974	12	18.60888	05	34	44.50	+31	22	40.2	0.1-	0	330
341	1975	01	09.56514	05	09	44.88	+30	58	21.1	0.2-	1-	330
345	1973	08	21.57940	21	24	30.97	+01	02	43.8	0.0	0	330
348	1966	04	18.62108	13	01	20.52	+08	28	46.4	0.1+	0	330
349	1972	11	29.66873	04	34	54.86	+29	56	08.8	0.2+	0	330
349	1974	02	20.58716	11	06	12.04	+16	24	04.6	0.0	0	330
349	1974	03	18.53885	10	44	27.45	+17	48	05.3	0.0	0	330
349	1977	12	12.53297	04	20	32.65	+29	49	33.4	0.0	1+	330
351	1965	10	19.61869	01	22	52.09	-06	13	07.4	0.7-	2-	330
352	1965	03	04.77222	12	37	04.83	-09	20	29.7	0.1-	1+	330
352	1973	11	22.59861	04	50	13.48	+22	31	13.7	0.2-	0	330
352	1973	11	28.54059	04	43	49.84	+22	03	06.4	0.2-	0	330
352	1973	12	17.51765	04	23	59.26	+20	31	05.4	0.2-	0	330
355	1966	02	14.64248	10	03	23.43	+15	19	21.2	0.1-	0	330
355	1966	02	25.67745	09	52	28.70	+15	52	16.7	0.0	0	330
355	1966	03	16.53399	09	37	58.79	+16	17	31.8			330
355	1974	02	13.51898	08	57	08.71	+21	42	45.4	0.1-	1+	330
357	1965	01	01.74861	07	07	48.93	+10	12	18.5	1.4+	2+	330
357	1965	01	10.71250	07	00	19.98	+10	57	05.8	1.3+	2+	330
358	1974	10	23.68530	02	57	14.43	+12	24	04.3	0.1+	0	330
360	1966	03	26.77984	12	30	36.00	+10	58	18.0	0.0	0	330
363	1966	04	14.52352	11	22	00.02	+12	28	49.2	2.7+	18-	330
363	1966	04	14.54435	11	22	00.58	+12	28	48.0	2.7+	18-	330
363	1973	11	28.54059	04	33	14.36	+22	34	01.9	0.0	0	330

363	1973	12	17.51765	04	14	45.52	+22	32	58.2	0.0	0	330
367	1965	01	01.68820	06	48	25.75	+24	43	08.8	0.6-	2+	330
369	1972	11	29.68956	06	00	37.07	+19	02	56.1	0.5-	1-	330
369	1972	12	08.62078	05	52	11.03	+19	41	20.0	0.5-	1-	330
369	1972	12	29.60278	05	30	13.22	+21	16	48.3	0.6-	1-	330
374	1975	04	12.62062	13	37	52.66	-13	56	21.5	0.5-	1-	330
377	1973	12	17.56487	06	00	07.11	+14	12	51.1	0.0	0	330
379	1965	12	18.64062	06	04	28.40	+21	01	30.9	1.1-	0	330
379	1965	12	19.74828	06	03	27.64	+21	01	39.6	1.1-	0	330
380	1965	03	04.74792	12	36	26.84	+05	50	39.0	0.2-	2+	330
381	1974	01	01.70681	07	55	25.31	+16	59	47.3	0.4-	3+	330
387	1966	01	01.78653	07	38	15.71	+13	24	52.4	0.0	0	330
387	1966	01	16.67986	07	24	59.58	+14	43	54.5	0.0	0	330
387	1966	01	19.66142	07	22	19.49	+15	00	53.5	0.0	0	330
389	1972	10	28.65611	01	48	29.93	+23	45	25.7	0.3-	2-	330
393	1973	12	13.50539	04	42	26.25	+08	09	49.8	0.1-	0	330
399	1975	02	12.66809	10	56	54.58	+11	06	20.6	0.0	0	330
399	1975	02	16.78464	10	53	26.60	+11	10	23.0	0.1-	0	330
401	1972	12	15.88167	06	55	59.65	+29	56	52.8	0.0	0	330
403	1977	10	13.72654	02	35	07.16	+22	20	09.1	0.0	0	330
404	1965	01	01.68820	06	55	21.90	+26	32	35.1	2.0-	9-	330
404	1965	01	07.55278	06	48	45.66	+27	10	00.3	2.0-	9-	330
404	1965	01	08.64653	06	47	31.48	+27	16	45.0	2.0-	9-	330
404	1965	01	11.72847	06	44	03.99	+27	35	10.1	2.0-	9-	330
404	1972	11	30.60859	04	56	23.16	+15	14	29.6	0.4+	2-	330
404	1972	12	15.77681	04	40	32.24	+15	44	24.0	0.3+	2-	330
404	1972	12	29.55417	04	27	44.48	+16	21	15.1	0.3+	3-	330
407	1965	01	12.88472	09	50	52.66	+08	57	13.5	0.1-	7-	330
408	1965	02	23.73125	11	29	15.29	-07	13	36.2	1.0+	9-	330
408	1965	03	05.80903	11	21	49.85	-06	48	11.0	1.1+	8-	330
411	1965	11	25.74801	05	43	21.88	+12	54	06.5	0.5-	6-	330
413	1973	06	06.67079	17	24	43.13	+08	41	02.5	0.1-	0	330
421	1977	10	12.55778	01	32	20.86	+05	21	21.5	0.3-	2-	330
421	1977	11	03.58413	01	20	40.65	+01	27	42.0	0.4-	2-	330
421	1977	11	04.57095	01	20	18.94	+01	19	45.0	0.3-	2-	330
421	1977	11	08.55436	01	19	05.76	+00	50	46.1	0.3-	2-	330
421	1977	11	11.53614	01	18	27.83	+00	32	31.4	0.4-	2-	330
422	1975	04	12.62062	13	39	01.90	-12	48	35.2	0.0	1-	330
424	1965	12	31.74103	04	45	34.22	+18	37	07.6	1.2+	9-	330
427	1965	12	24.66263	06	25	20.41	+26	12	32.3	0.3-	0	330
427	1966	01	16.58194	06	04	56.07	+25	49	21.5	0.2-	1-	330
427	1966	01	28.65697	05	57	20.00	+25	30	58.3			330
428	1974	10	12.65045	02	12	14.44	+15	34	53.8	0.3+	2+	330
428	1974	11	18.64286	01	37	21.52	+15	36	47.4	0.1+	2+	330
429	1973	12	13.55609	05	33	03.74	+12	23	49.6	1.0+	5-	330
429	1973	12	22.58089	05	24	17.18	+11	52	34.4	1.1+	5-	330
429	1973	12	23.52399	05	23	24.30	+11	49	54.4	1.1+	5-	330
430	1965	01	05.53333	03	33	00.01	+16	29	34.4			330
433	1972	10	10.60624	21	11	54.44	+00	07	40.3	0.0	1+	330
434	1965	02	23.73125	11	25	53.48	-04	53	24.3	1.6+	2-	330
434	1974	10	12.58309	01	14	23.07	-10	58	24.9	0.1-	0	330
437	1965	11	20.87556	05	45	59.23	+24	58	09.0	0.0	0	330
437	1965	11	22.69211	05	44	16.08	+24	52	44.7	0.0	1+	330
437	1965	11	23.71639	05	43	15.86	+24	49	39.5	0.1+	1+	330
437	1965	12	19.68890	05	13	43.56	+23	12	41.6	0.2-	0	330
437	1965	12	30.79620	05	02	25.75	+22	27	47.5	0.1-	0	330
438	1972	11	28.70735	06	49	21.18	+20	50	55.5	1.0-	1-	330
438	1972	12	03.64816	06	45	52.34	+30	21	08.4	1.1-	2-	330
438	1972	12	15.82611	06	34	39.53	+31	09	21.6	0.9-	2-	330

439	1965	11	21.66578	04	11	27.66	+02	24	51.1	0.4+	0	330
439	1965	12	24.49874	03	49	06.19	+00	05	24.8	0.5-	1-	330
442	1973	12	17.56487	05	58	37.83	+16	03	08.4	1.4-	1-	330
447	1972	12	13.83044	06	42	08.20	+25	44	02.1	0.7+	0	330
447	1977	12	08.60508	05	30	36.80	+24	24	26.7	0.0	1-	330
447	1977	12	12.59270	05	26	48.84	+24	27	54.2	0.0	0	330
448	1977	10	10.67163	02	21	01.20	+11	01	10.0	0.7-	6-	330
448	1977	10	21.85809	02	11	10.75	+10	59	05.2	0.9-	6-	330
448	1977	11	03.64246	01	59	26.05	+10	55	18.0	0.8-	6-	330
448	1977	11	12.57364	01	51	56.21	+10	55	05.2	0.8-	6-	330
449	1977	12	08.60508	05	48	52.35	+23	06	16.8	0.0	1-	330
449	1977	12	12.59270	05	44	49.96	+23	13	06.6	0.0	0	330
455	1965	05	28.63515	15	53	50.34	-15	13	26.7	0.4+	2-	330
456	1965	05	29.70417	16	03	16.68	-13	46	00.8	0.0	0	330
456	1972	11	30.67942	06	24	50.05	+10	35	03.2	0.0	1-	330
456	1972	12	13.77558	06	14	26.67	+09	41	42.4	0.0	0	330
456	1973	01	09.65513	05	50	27.33	+08	42	42.5	0.0	1-	330
460	1972	12	01.66183	04	16	15.38	+16	14	39.0	0.6+	1+	330
460	1972	12	13.59433	04	05	42.97	+15	36	36.4	0.5+	1+	330
461	1972	11	29.68956	05	44	35.82	+21	12	06.8	0.2-	0	330
461	1972	12	08.62078	05	37	15.38	+21	07	42.0	0.1-	1+	330
461	1972	12	29.60278	05	18	48.60	+20	58	30.1	0.2-	0	330
461	1977	12	04.53280	01	34	51.31	+08	00	25.2			330
462	1966	03	15.69198	11	48	50.41	+05	59	35.0	2.7-	17+	330
462	1966	03	16.76698	11	47	59.42	+06	05	27.5	2.7-	17+	330
462	1966	03	26.59685	11	40	21.26	+06	56	03.5	2.7-	16+	330
462	1966	03	26.65661	11	40	18.25	+06	56	18.7	2.8-	16+	330
462	1966	04	14.61241	11	28	01.40	+08	06	46.4	2.6-	14+	330
462	1975	01	09.66028	08	04	58.99	+21	12	41.4	0.1+	0	330
465	1965	12	20.76359	07	14	10.36	+24	32	34.8	3.2+	9-	330
468	1965	07	28.64840	21	18	05.01	-16	26	50.7	0.3-	1-	330
470	1965	07	28.60882	20	31	07.36	-09	27	34.3	0.2-	1-	330
470	1974	12	20.80972	08	27	06.96	+09	12	14.2	0.7-	1+	330
470	1975	01	16.69873	08	06	29.88	+10	12	51.7	0.8-	2+	330
471	1974	05	25.61751	14	46	36.82	-02	58	16.0	0.0	1+	330
474	1965	12	31.89867	08	51	35.32	+09	19	00.1			330
477	1965	09	18.63674	01	34	06.35	+09	53	43.3	3.4+	30+	330
477	1965	09	22.67903	01	31	15.45	+09	53	34.2	3.4+	32+	330
477	1965	10	16.59375	01	08	30.98	+09	15	36.9	3.5+	33+	330
477	1965	10	20.57073	01	04	38.02	+09	06	29.9	3.4+	32+	330
477	1965	10	24.64556	01	00	53.42	+08	57	32.9	3.4+	32+	330
478	1975	12	02.69277	04	30	36.47	+16	26	26.6	0.2-	0	330
478	1975	12	22.47521	04	14	48.83	+14	35	56.7	0.2-	0	330
478	1975	12	30.52763	04	10	07.67	+14	02	09.5	0.2-	0	330
479	1973	12	23.52399	05	16	49.92	+10	59	20.1	0.1-	1-	330
479	1975	04	12.55396	12	35	04.48	+07	18	43.0	0.0	1+	330
482	1977	10	12.64875	02	36	53.71	+03	28	04.4	0.0	0	330
484	1965	11	28.71412	06	09	51.77	+10	20	22.3	0.9+	1+	330
485	1975	05	06.61715	15	18	23.99	-06	03	09.3	0.1+	1+	330
486	1965	12	19.68890	05	29	24.13	+20	14	26.3	0.3+	0	330
486	1965	12	31.78929	05	15	48.96	+20	55	04.4	0.3+	1+	330
486	1966	01	16.52361	05	02	20.36	+21	48	17.1			330
487	1966	04	13.58395	11	08	49.71	+19	01	40.2			330
487	1973	12	17.56487	06	12	24.28	+16	21	26.6	0.0	0	330
490	1965	10	24.74972	03	56	48.07	+09	41	31.7			330
491	1965	09	22.61861	00	14	34.74	-01	43	25.9	1.0+	0	330
492	1965	01	12.83611	08	56	28.06	+19	34	37.1	1.1+	5-	330
492	1966	03	16.81559	12	13	06.80	+00	20	07.2	1.2+	9-	330
498	1965	03	04.74792	12	37	43.59	+10	26	49.2	0.2+	2+	330

498	1973	01	29.74084	09	48	14.44	+22	44	16.1	0.1-	0	330
499	1972	11	16.80922	02	46	32.07	+17	35	31.6	0.1-	0	330
499	1972	11	24.47560	02	41	35.35	+17	08	00.3	0.0	0	330
499	1972	11	28.49624	02	39	15.78	+16	54	23.7	0.0	1-	330
499	1972	12	03.57733	02	36	39.09	+16	38	20.0	0.0	1-	330
499	1972	12	08.68596	02	34	32.73	+16	24	31.5	0.0	0	330
499	1974	02	12.50365	08	39	56.74	+15	53	04.1	0.2-	0	330
500	1973	08	20.64807	23	12	26.78	+09	20	03.4	0.7+	5+	330
507	1965	02	23.73125	11	28	49.61	-08	24	30.8	0.0	2+	330
507	1965	03	05.80903	11	21	25.80	-08	00	43.2	0.0	2+	330
507	1975	01	09.56514	05	08	48.95	+28	58	26.0	0.2-	0	330
508	1973	11	16.59448	03	00	11.10	+18	58	26.9	0.1-	1-	330
509	1973	05	04.69382	16	01	15.68	-13	36	19.1	0.0	0	330
510	1972	11	30.67942	06	08	51.22	+11	21	38.5	0.5+	0	330
516	1976	02	01.63623	09	46	12.25	+17	47	06.0	0.5+	5-	330
517	1965	11	21.73453	04	39	14.51	+24	38	04.6	0.4-	0	330
517	1965	11	25.58991	04	35	55.67	+24	27	17.0	0.4-	0	330
517	1965	11	25.63574	04	35	53.14	+24	27	06.8	0.3-	0	330
517	1965	11	28.69433	04	33	10.40	+24	17	54.7	0.4-	0	330
517	1965	12	13.55214	04	20	20.48	+23	27	54.8	0.4-	0	330
517	1965	12	18.57535	04	16	34.87	+23	10	36.3	0.5-	1+	330
517	1965	12	24.58450	04	12	45.79	+22	50	52.0	0.4-	0	330
517	1965	12	30.74516	04	09	46.78	+22	32	36.8			330
518	1972	11	30.60859	04	55	17.52	+14	34	04.1	2.3-	2+	330
518	1972	12	15.77681	04	40	00.95	+13	50	04.3	2.3-	2+	330
518	1972	12	29.55417	04	28	53.04	+13	29	35.0	2.1-	1+	330
519	1973	11	16.59448	03	00	34.63	+18	53	58.8	0.1-	0	330
521	1965	05	29.70417	16	06	36.70	-14	11	14.9	0.2+	3-	330
522	1966	01	16.63194	06	32	55.06	+21	37	32.1	1.7-	1+	330
522	1966	01	28.71322	06	25	30.43	+21	55	09.7			330
525	1965	09	21.64389	00	36	16.36	+07	26	14.6	0.0	1+	330
529	1975	11	26.58086	04	48	21.88	+23	53	35.8	0.2-	0	330
529	1975	11	28.63645	04	46	21.91	+23	58	26.0	0.2-	1-	330
529	1975	11	29.53647	04	45	28.72	+24	00	32.2	0.2-	0	330
529	1975	12	23.53359	04	22	46.61	+24	43	20.1	0.3-	1-	330
529	1975	12	29.50260	04	18	24.33	+24	51	25.8	0.3-	1-	330
530	1966	01	01.83444	08	17	28.79	+17	14	41.8	1.3+	2-	330
530	1966	01	20.62113	08	03	09.40	+18	25	57.9	1.1+	2-	330
530	1966	01	28.78439	07	56	43.36	+18	57	32.2	1.2+	1-	330
530	1966	02	14.54560	07	45	15.50	+19	56	04.4	1.1+	0	330
530	1966	02	24.56392	07	40	21.84	+20	24	41.2			330
533	1965	01	12.88472	09	42	55.11	+06	42	50.2	2.2+	8-	330
534	1965	10	19.72494	03	15	59.54	+14	01	12.8	0.4-	3-	330
534	1965	10	23.75844	03	13	08.99	+13	50	13.0	0.5-	3-	330
534	1965	11	20.68076	02	49	32.66	+12	30	45.3	0.6-	3-	330
534	1965	11	23.57368	02	47	14.15	+12	24	14.1	0.6-	3-	330
534	1965	11	26.63123	02	44	55.13	+12	18	07.1	0.5-	3-	330
534	1965	11	30.74994	02	42	03.16	+12	11	17.3	0.6-	3-	330
534	1965	12	11.48697	02	36	16.08	+12	02	16.0			330
534	1975	12	02.69277	04	26	47.22	+19	29	25.9	0.0	0	330
535	1972	12	29.70000	07	06	13.61	+25	57	26.8	0.1-	2+	330
535	1976	12	16.58380	06	04	25.14	+24	13	35.4	0.0	3+	330
536	1965	11	30.69091	02	02	02.54	+02	46	11.5			330
536	1972	12	01.60488	04	14	08.67	+25	02	11.1	0.1-	1-	330
537	1966	01	16.63194	06	48	21.46	+19	27	11.3	0.4-	1+	330
537	1966	01	28.71322	06	39	38.19	+20	01	06.1			330
539	1965	01	11.83958	08	16	29.40	+15	24	13.4	0.2+	2-	330
539	1965	01	26.63194	08	01	50.48	+15	40	53.8	0.2+	3-	330
539	1965	02	02.60972	07	55	21.84	+15	49	57.1	0.2+	2-	330

539	1965	02	23.55417	07	41	21.27	+16	13	22.0			330
539	1974	01	01.70681	07	54	03.22	+17	48	44.7	0.1+	0	330
539	1977	10	16.64408	02	53	46.00	+27	00	25.0	0.1+	0	330
542	1966	02	13.74039	10	21	03.13	+09	30	45.4	0.1-	0	330
542	1966	02	14.69664	10	20	20.15	+09	37	46.7	0.2-	0	330
542	1966	02	24.72677	10	12	41.04	+10	52	11.8	0.1-	2-	330
542	1966	03	16.59788	09	59	02.86	+13	06	17.0			330
544	1977	01	10.58958	07	25	33.37	+23	52	38.7	0.1+	1+	330
545	1972	10	28.65611	01	37	07.96	+25	02	58.2	0.1-	1-	330
545	1973	12	24.59390	06	24	35.45	+36	28	35.4	0.1-	0	330
545	1975	03	07.66553	09	36	41.33	+16	02	43.9	0.0	1+	330
547	1973	08	21.63148	22	57	48.55	+10	54	22.7	0.0	0	330
548	1973	11	20.56805	03	18	22.44	+11	26	57.7	0.0	0	330
552	1973	01	30.61430	08	53	58.27	+09	27	00.6	0.4-	1+	330
554	1977	12	12.59270	05	44	04.67	+26	24	33.8	0.0	0	330
557	1965	12	30.90002	08	22	30.53	+19	28	04.3	1.1+	4-	330
557	1966	01	20.57461	08	02	37.32	+19	58	54.1	1.2+	3-	330
557	1966	01	28.76565	07	54	02.53	+20	10	52.9	1.2+	3-	330
557	1966	01	28.81218	07	53	59.78	+20	10	51.8	1.2+	3-	330
557	1966	02	13.63553	07	40	49.55	+20	24	22.9	1.1+	3-	330
557	1966	02	14.54560	07	40	17.02	+20	24	39.3	1.0+	2-	330
557	1966	02	16.55323	07	39	10.28	+20	25	08.0	1.1+	2-	330
557	1966	02	24.56392	07	36	07.58	+20	24	31.5			330
558	1973	12	24.67133	06	55	05.49	+13	50	43.9	0.4-	1+	330
558	1977	10	04.57707	00	40	39.56	-05	24	09.4	0.0	1+	330
560	1965	05	28.58168	15	20	45.49	-08	26	45.6	0.7-	3+	330
560	1972	12	12.71914	06	23	23.32	+19	20	00.6	0.3+	1-	330
563	1965	10	19.61869	01	25	46.20	-09	11	40.1	0.1-	2-	330
564	1975	12	23.59817	05	04	18.94	+27	42	53.8	0.0	0	330
566	1966	03	16.76698	11	58	48.63	+07	26	22.2	0.7-	4+	330
566	1966	04	14.61241	11	40	34.63	+09	03	29.8	0.6-	4+	330
569	1975	11	29.59619	05	23	23.53	+24	52	37.7	0.7-	0	330
569	1975	12	24.55237	04	59	18.68	+24	10	14.9	0.7-	1-	330
569	1975	12	30.58596	04	54	28.11	+23	57	35.2	0.8-	1-	330
570	1965	01	10.75972	07	48	11.75	+18	48	17.3	0.4+	0	330
572	1965	12	19.81008	06	55	29.55	+04	32	56.7	1.0-	1+	330
572	1972	10	28.60333	00	54	13.99	+02	11	16.6	2.6-	10-	330
575	1965	03	04.77222	12	37	19.50	-09	37	33.5	0.3-	2+	330
579	1973	11	23.54536	04	12	36.02	+15	30	53.4	0.0	0	330
580	1976	02	01.63623	10	00	06.76	+15	59	55.1	0.1+	2-	330
583	1966	07	19.74315	20	25	10.31	-10	51	40.9	0.3+	1+	330
585	1965	10	24.74972	04	03	08.53	+11	24	11.0			330
586	1973	11	23.50427	03	08	53.31	+17	28	40.7	0.0	0	330
586	1973	11	28.48989	03	04	59.12	+17	10	24.1	0.0	0	330
586	1975	01	16.81470	10	15	07.78	+08	23	26.3	0.0	1-	330
586	1975	01	22.86594	10	12	03.50	+08	36	27.3	0.0	1-	330
586	1975	02	12.60559	09	57	43.45	+09	50	24.8	0.0	1-	330
586	1975	02	19.77855	09	51	55.30	+10	21	46.1	0.1-	0	330
588	1966	02	14.79873	10	44	02.92	+02	42	27.8	0.0	1-	330
592	1972	10	28.70299	02	09	24.91	+01	04	34.9	0.0	1+	330
593	1973	05	04.63955	15	20	34.47	-05	14	04.7	1.0+	8-	330
595	1977	10	12.60639	02	24	04.04	+18	31	49.2	0.1-	0	330
597	1973	11	22.55000	03	32	02.33	+27	13	06.7	0.3-	1-	330
597	1977	10	04.57707	00	43	00.88	-06	52	15.2	0.0	0	330
608	1966	01	01.83444	08	22	10.94	+18	54	49.7	2.5-	21+	330
608	1966	01	20.62113	08	05	30.49	+18	59	51.6	2.7-	21+	330
608	1966	01	28.78439	07	58	01.45	+19	01	58.1	2.8-	21+	330
608	1966	02	14.54560	07	45	00.58	+19	01	34.3	2.7-	19+	330
608	1966	02	24.56392	07	39	45.19	+18	37	19.6			330

609	1965	07	28.64840	21	07	24.19	-12	53	19.8	1.5+	5+	330
617	1965	10	21.65090	02	08	55.09	+06	12	40.7	0.0	1+	330
617	1977	10	10.67163	02	25	31.63	+08	28	29.8	0.0	0	330
617	1977	10	21.85809	02	18	49.93	+08	25	13.8	0.0	1+	330
617	1977	11	03.64246	02	10	45.35	+08	22	52.7	0.0	0	330
617	1977	11	12.57364	02	05	19.22	+08	23	49.7	0.0	0	330
618	1973	06	06.67079	17	34	00.91	-10	29	07.0	0.1-	0	330
622	1975	01	16.81470	10	02	38.79	+10	22	47.9	0.0	0	330
622	1975	01	22.86594	09	58	30.93	+11	08	06.7	0.0	0	330
624	1966	02	13.74039	10	40	20.46	+11	38	26.7	0.1-	2+	330
624	1966	02	14.74942	10	39	46.33	+11	39	45.9	0.2-	3+	330
624	1966	02	16.69871	10	38	39.57	+11	42	17.1	0.2-	2+	330
624	1966	02	24.74483	10	33	56.40	+11	52	37.2	0.3-	3+	330
624	1966	02	25.77051	10	33	19.61	+11	53	53.2	0.2-	3+	330
624	1966	03	16.66108	10	22	33.53	+12	12	00.5	0.2-	1+	330
627	1966	01	01.83444	08	08	44.91	+15	40	11.5	0.2-	1+	330
627	1966	01	20.62113	07	52	56.16	+16	52	13.5	0.2-	1+	330
627	1966	01	28.81218	07	45	54.28	+17	26	14.4	0.2-	1+	330
627	1966	02	14.54560	07	34	03.59	+18	31	11.9	0.1-	2+	330
627	1966	02	24.56392	07	29	35.17	+19	03	59.2			330
628	1965	01	11.88958	09	44	12.32	+19	37	46.5	0.2	0	330
628	1976	12	14.57406	06	15	16.39	+16	26	40.1	0.3+	0	330
629	1977	10	12.64875	02	37	46.28	+03	30	58.4	0.0	0	330
630	1965	11	25.74801	05	29	32.01	+11	40	32.0	2.6-	10-	330
635	1965	12	19.81008	06	59	22.29	+06	31	18.0	0.2-	1-	330
638	1965	01	12.83611	08	54	13.68	+21	43	15.6	0.0	0	330
640	1965	12	19.81008	07	01	33.30	+09	25	24.4	2.1+	3+	330
641	1965	02	02.73958	10	30	39.41	+12	32	01.6	0.2-	2-	330
641	1965	02	25.75344	10	07	09.80	+14	39	58.8	0.2-	2-	330
641	1965	03	04.67222	10	00	17.70	+15	11	09.2	0.1-	3-	330
650	1965	12	19.74828	05	57	25.70	+19	40	45.4	0.1-	1+	330
655	1966	02	14.74942	10	34	51.95	+12	50	35.6	0.9+	3-	330
655	1966	02	24.74483	10	27	10.53	+13	54	34.8	0.9+	3-	330
655	1966	02	25.77051	10	26	22.34	+14	00	57.7	0.9+	3-	330
655	1966	03	15.58816	10	13	29.62	+15	36	44.0	0.8+	2-	330
655	1976	02	05.62949	08	15	24.53	+19	09	43.0	0.2-	1+	330
657	1965	09	23.50955	00	19	04.72	+17	56	38.6	0.0	0	330
661	1976	02	01.63623	09	56	19.33	+16	25	44.6	0.4-	2+	330
664	1965	09	22.61861	00	18	20.59	+00	22	44.0	1.5+	5+	330
664	1965	10	17.61109	00	01	56.67	-02	18	49.3	1.4+	4+	330
664	1965	10	20.51656	00	00	27.79	-02	33	39.1	1.4+	4+	330
664	1965	10	24.59417	23	58	36.42	-02	52	29.9	1.4+	5+	330
669	1965	06	27.71353	19	16	26.96	-06	46	08.0	1.2+	1+	330
670	1965	11	25.74801	05	37	55.27	+11	27	20.4	0.9-	2-	330
670	1965	12	18.62431	05	17	11.76	+10	54	34.2	1.0-	2-	330
672	1965	08	27.69095	22	35	56.97	-12	03	24.9	1.1+	15+	330
672	1965	09	18.52424	22	14	41.99	-11	38	02.7	1.1+	13+	330
673	1975	12	22.52903	05	35	19.20	+20	30	51.3	0.2-	0	330
674	1975	04	03.63267	11	15	09.08	+25	07	10.4	0.2-	3+	330
675	1965	01	08.70625	06	51	30.36	+16	45	06.0	0.1-	1-	330
677	1974	12	19.70337	07	36	31.31	+19	06	09.5	0.0	0	330
677	1975	01	10.70269	07	17	14.21	+18	44	53.5	0.0	0	330
677	1975	01	16.63900	07	11	38.88	+18	40	29.7	0.1-	1-	330
678	1975	01	09.66028	08	02	47.20	+18	00	51.8	0.2-	1+	330
680	1972	11	16.80922	02	34	09.05	+17	33	39.4	0.0	0	330
680	1972	11	24.47560	02	27	45.72	+17	29	04.2	0.1-	1+	330
680	1972	11	28.49624	02	24	45.20	+17	27	04.8	0.1-	1-	330
680	1972	12	03.57733	02	21	20.14	+17	25	20.8	0.1-	1-	330
680	1972	12	08.68596	02	18	29.46	+17	24	49.4	0.1-	1-	330



681	1965	10	17.56109	23	09	30.45	-05	14	58.0			330
684	1976	02	01.63623	09	44	42.08	+16	30	36.3	0.1+	0	330
687	1965	02	02.73958	10	45	49.01	+09	23	58.5	0.1+	1-	330
688	1972	11	30.67942	06	12	31.66	+08	36	17.9	0.4+	0	330
688	1972	12	13.77558	06	01	28.10	+08	19	30.8	0.5+	1-	330
694	1965	05	29.70417	16	06	09.86	-14	14	19.5	0.7+	1+	330
696	1973	01	29.67765	08	07	37.99	+18	45	01.2	0.3-	0	330
699	1965	06	27.68089	17	16	25.18	-09	03	38.2	2.7+	14+	330
701	1974	11	18.64286	01	27	43.85	+14	27	05.1	0.1-	0	330
702	1973	08	06.66931	22	07	46.04	+09	13	44.9	0.0	0	330
702	1973	08	22.59478	21	54	29.51	+09	37	13.0	0.0	1-	330
703	1966	01	01.83444	08	06	51.67	+15	46	34.9	0.2-	1-	330
703	1966	01	27.77778	07	37	52.54	+17	01	10.6	0.3-	2-	330
707	1966	01	30.76984	08	59	12.31	+13	09	20.9			330
707	1966	02	16.60323	08	40	48.36	+13	59	06.6			330
707	1966	02	24.62434	08	33	50.73	+14	19	48.4			330
708	1975	12	23.59817	05	02	47.22	+28	13	20.8	0.0	1-	330
709	1966	02	14.69664	10	12	54.24	+08	34	44.6	0.1-	1+	330
709	1966	02	24.72677	10	03	33.97	+08	45	39.2	0.1+	1+	330
709	1973	08	06.73736	22	17	54.18	-10	06	02.4	0.2-	1-	330
709	1973	08	22.64270	22	02	25.60	-09	33	02.8	0.2-	2-	330
710	1975	12	01.57676	03	30	03.21	+16	32	26.0	0.1-	1-	330
712	1972	11	16.83603	05	21	42.83	+15	56	49.1	2.4-	11-	330
712	1972	11	28.61777	05	12	22.56	+13	56	53.2	2.5-	11-	330
715	1973	12	24.59390	06	39	48.83	+39	20	26.9	0.3-	0	330
715	1977	10	21.85809	02	27	35.53	+09	34	35.9	0.1-	0	330
715	1977	11	03.64246	02	14	32.31	+09	41	39.5	0.1-	1+	330
715	1977	11	12.57364	02	05	49.58	+09	50	20.0	0.0	0	330
715	1977	12	04.53280	01	50	43.05	+10	37	16.9			330
716	1966	02	14.69664	10	11	54.06	+11	46	33.0	0.2+	0	330
716	1966	02	24.72677	10	03	53.15	+13	06	11.2	0.2+	0	330
720	1965	09	21.69850	01	10	41.92	+05	56	09.0	0.2+	1-	330
720	1965	10	19.56730	00	48	53.11	+04	00	10.0	0.1+	0	330
721	1965	10	20.72698	03	19	32.28	+19	23	26.4	0.5-	3-	330
721	1972	11	29.66873	04	51	36.16	+29	14	06.9	0.0	1+	330
725	1977	12	04.53280	01	38	31.34	+07	39	12.9			330
727	1966	03	15.75170	12	28	23.95	+15	13	02.5	0.1-	1-	330
735	1975	11	24.52667	02	30	45.68	+19	24	52.7	0.3-	2-	330
736	1966	02	25.67745	09	50	14.55	+14	51	38.4	0.1+	2+	330
736	1966	03	16.53399	09	34	30.06	+16	33	55.9			330
738	1965	12	30.84343	07	56	17.76	+18	51	54.6	0.0	1+	330
738	1966	01	16.73472	07	42	04.62	+19	44	57.2	0.1+	1+	330
738	1975	11	26.54058	04	11	57.78	+16	14	43.7	0.1+	1+	330
739	1976	01	01.60685	06	28	46.10	+02	38	02.9	0.0	0	330
740	1965	12	30.90002	08	10	20.78	+19	08	47.1	2.5-	1+	330
740	1966	01	01.83444	08	08	59.99	+19	19	48.2	2.5-	2+	330
740	1966	01	20.57461	07	53	33.13	+21	15	31.8	2.7-	1+	330
740	1966	01	28.76565	07	46	29.97	+22	05	04.4	2.6-	0	330
740	1966	02	13.63553	07	35	13.68	+23	28	01.4	2.5-	0	330
741	1965	10	24.74972	04	05	45.85	+11	07	29.9			330
742	1975	01	09.56514	04	57	08.14	+28	37	05.0	0.6+	4+	330
743	1966	07	19.74315	20	11	17.82	-12	47	11.1	0.0	0	330
743	1972	11	29.68956	05	46	28.19	+19	34	19.2	0.0	1-	330
743	1972	12	08.62078	05	38	32.79	+19	12	53.9	0.1-	0	330
743	1972	12	29.60278	05	19	01.55	+18	29	48.3	0.1-	0	330
748	1973	11	23.50427	03	13	12.83	+19	41	02.0	0.1-	1-	330
748	1973	11	24.54774	03	12	29.11	+19	37	29.3	0.0	1-	330
748	1973	11	28.48989	03	09	48.44	+19	24	23.6	0.1-	1-	330
749	1965	12	19.68890	05	31	14.39	+19	36	58.5	0.3+	1+	330

751	1976	12	14.62406	06	20	55.09	+28	34	39.5	0.2-	0	330
752	1973	12	22.63159	06	32	51.18	+24	58	26.7	0.6-	0	330
754	1966	03	16.81559	12	23	54.13	-00	52	42.0	1.4+	2+	330
758	1972	12	12.71914	06	30	29.50	+21	05	20.2	0.1-	1-	330
759	1975	01	16.81470	10	10	52.08	+09	52	20.2	0.0	0	330
759	1975	01	22.86594	10	06	16.02	+09	47	11.5	0.0	0	330
759	1975	02	12.60559	09	46	21.51	+09	47	13.0	0.1-	0	330
762	1966	01	30.76984	08	59	24.95	+14	59	45.6	0.9+	7-	330
762	1966	02	16.60323	08	44	02.15	+14	46	56.4	0.9+	7-	330
762	1966	02	24.62434	08	37	55.52	+14	39	10.8			330
763	1965	01	12.86736	09	48	55.91	+10	32	08.8	0.1-	1-	330
764	1966	01	21.53370	06	05	27.34	+18	00	43.9	0.6-	1+	330
767	1965	01	12.83611	08	45	17.46	+20	26	29.7	0.5+	1-	330
767	1966	03	15.69198	12	04	52.32	+03	03	08.1	0.0	1-	330
767	1974	10	23.73669	03	45	47.11	+17	56	32.3	0.7+	3+	330
767	1974	12	18.55263	03	04	18.34	+16	09	25.4	0.6+	3+	330
769	1965	11	21.73453	04	43	54.40	+27	18	56.5	1.2+	5+	330
769	1965	11	25.58991	04	40	33.29	+27	19	07.2	1.3+	5+	330
769	1973	01	29.74084	09	54	18.63	+23	21	53.9	0.1+	0	330
772	1975	10	31.70422	04	56	51.79	+23	20	10.3	0.0	1-	330
772	1975	11	06.64540	04	52	34.50	+23	53	40.3	0.2-	2-	330
772	1975	11	23.57243	04	36	22.99	+25	25	17.1	0.2-	2-	330
772	1975	11	26.58086	04	33	04.12	+25	40	18.0	0.1-	2-	330
772	1975	11	29.53647	04	29	44.63	+25	54	32.6	0.2-	1-	330
772	1975	12	23.53359	04	03	47.05	+27	28	55.8	0.0	2-	330
772	1975	12	29.50260	03	58	34.22	+27	47	16.6	0.2-	2-	330
774	1972	12	12.71914	06	18	57.20	+20	45	14.1	0.1-	1-	330
774	1977	11	14.68613	05	06	15.48	+22	52	51.5	0.1-	0	330
774	1977	12	08.55438	04	46	34.65	+21	55	46.6	0.1-	0	330
775	1966	01	16.58194	06	01	56.42	+27	59	50.0	0.6-	2+	330
775	1966	01	28.65697	05	54	43.01	+27	12	28.2			330
778	1965	02	02.73958	10	30	56.07	+07	56	08.8	1.4+	16-	330
779	1965	12	30.84343	07	53	24.51	+18	04	41.0	0.4-	2-	330
779	1966	01	01.78653	07	51	30.09	+18	01	59.3	0.0	0	330
779	1966	01	16.67986	07	36	06.31	+17	44	02.9	0.0	0	330
779	1966	01	16.73472	07	36	02.93	+17	44	00.4	0.1-	0	330
779	1966	01	19.66142	07	33	01.67	+17	40	49.5	0.0	0	330
779	1966	01	27.77778	07	25	04.23	+17	32	19.3	0.0	0	330
780	1975	02	12.66809	11	03	57.02	+12	09	13.1	0.2-	0	330
780	1975	02	16.78464	11	01	28.00	+12	45	33.9	0.2-	1+	330
782	1965	01	01.68820	06	40	35.02	+26	25	26.9	0.2-	3+	330
784	1965	09	18.63674	01	40	56.59	+11	06	38.9	1.4-	11-	330
784	1965	10	16.59375	01	19	04.91	+10	17	23.8	1.4-	12-	330
784	1965	10	20.57073	01	15	45.41	+10	07	53.5	1.4-	11-	330
784	1965	10	24.64556	01	12	25.54	+09	58	10.1	1.4-	9-	330
786	1974	11	18.70396	06	41	02.91	+22	39	41.1			330
786	1974	12	14.62242	06	24	36.09	+24	06	39.9	0.1-	0	330
786	1974	12	18.69013	06	21	05.31	+24	20	56.9	0.1-	0	330
786	1975	01	04.58257	06	05	47.06	+25	16	19.5	0.2-	0	330
786	1975	01	12.52770	05	58	59.74	+25	38	58.9	0.2-	1-	330
786	1975	01	16.57095	05	55	50.12	+25	49	32.1	0.2-	1-	330
786	1975	01	17.61476	05	55	03.60	+25	52	09.6	0.2-	1-	330
786	1975	01	18.63441	05	54	19.36	+25	54	41.7	0.1-	1-	330
791	1965	11	28.64190	04	25	42.53	-00	21	21.9	4.5+	23+	330
791	1965	12	19.63230	04	09	17.73	+00	25	33.8	4.2+	21+	330
792	1966	01	01.88097	08	27	55.28	+11	30	47.8	0.5+	0	330
792	1966	01	21.61634	08	09	47.48	+10	52	03.3	0.5+	0	330
792	1966	01	27.72503	08	03	39.47	+10	48	52.2	0.5+	1+	330
792	1966	02	13.58553	07	49	22.28	+10	54	57.0	0.5+	1+	330

792	1966	02	18.52263	07	46	28.03	+10	59	23.7			330
797	1975	10	30.71182	05	27	54.12	+22	16	21.1			330
797	1975	11	24.56208	05	12	10.98	+21	16	06.1	0.0	1-	330
797	1977	04	19.57221	12	22	36.09	-07	50	12.2	0.2+	2-	330
803	1966	01	01.78653	07	46	03.10	+13	16	47.6	0.0	0	330
803	1966	01	16.67986	07	33	48.08	+13	19	43.4	0.1-	1+	330
803	1966	01	19.66142	07	31	19.90	+13	21	45.7	0.1-	1+	330
809	1965	01	01.72083	07	21	48.65	+13	05	53.2	0.5+	2+	330
811	1965	10	24.69903	03	34	49.81	+14	33	03.8	1.2-	7-	330
811	1965	11	20.73111	03	12	27.84	+13	07	00.1	1.2-	8-	330
811	1965	11	23.62125	03	10	03.32	+12	58	58.6	1.2-	7-	330
811	1965	11	26.78470	03	07	30.59	+12	50	57.9	1.2-	7-	330
811	1965	11	30.80133	03	04	29.11	+12	41	52.6	1.2-	7-	330
811	1965	12	13.49242	02	56	41.59	+12	23	20.1			330
811	1965	12	18.51979	02	54	32.11	+12	20	46.5			330
811	1975	11	26.54058	04	05	57.04	+16	25	56.1	0.1-	1+	330
813	1973	01	29.74084	09	46	59.71	+25	01	47.3	0.4-	4+	330
817	1966	01	01.78653	07	40	15.42	+15	33	20.2	0.1+	1+	330
817	1966	01	16.67986	07	25	45.29	+17	34	02.8	0.1+	1+	330
817	1966	01	19.66142	07	22	53.85	+17	58	47.2	0.2+	1+	330
818	1965	10	24.74972	03	50	07.39	+11	08	49.6			330
818	1965	11	20.73111	03	26	56.47	+11	38	55.7	0.2+	3+	330
818	1965	11	23.62125	03	24	17.57	+11	44	06.1	0.3+	2+	330
818	1965	11	26.78470	03	21	27.04	+11	50	20.0	0.2+	2+	330
818	1965	11	30.80133	03	17	59.63	+11	59	09.8	0.1+	2+	330
818	1965	12	13.49242	03	08	41.75	+12	34	34.6	0.2+	2+	330
818	1965	12	18.51979	03	05	52.83	+12	51	48.9			330
820	1965	01	11.83958	08	34	44.69	+19	11	25.0	0.4-	2+	330
822	1965	09	21.69850	01	14	08.02	+08	18	44.7	0.0	1+	330
822	1965	10	19.56730	00	48	41.71	+05	29	47.2	0.1-	1-	330
823	1977	10	04.64443	01	21	53.68	+14	30	19.1	0.3+	2+	330
823	1977	10	10.61052	01	16	10.99	+13	52	54.4	0.2+	2+	330
823	1977	10	16.58784	01	10	15.67	+13	10	41.6	0.2+	1+	330
823	1977	11	01.50904	00	55	54.45	+11	11	02.1	0.3+	2+	330
823	1977	11	08.60436	00	51	09.14	+10	22	19.1	0.2+	0	330
825	1977	11	04.51886	01	36	44.48	+04	20	20.3	0.1-	0	330
826	1965	02	23.70347	11	18	55.70	-06	21	57.3	1.3-	11+	330
826	1965	03	05.80903	11	10	52.77	-05	32	04.5	1.4-	11+	330
834	1974	12	18.65610	06	41	08.29	+17	50	29.8	0.2-	1-	330
834	1974	12	20.76111	06	39	29.76	+17	51	23.5	0.1-	1-	330
846	1965	07	28.64840	21	15	44.84	-15	35	49.6	0.7-	3-	330
851	1974	10	23.68530	03	00	16.40	+12	48	57.7	0.0	0	330
856	1965	01	11.83958	08	32	59.81	+16	31	00.3	0.2+	1+	330
858	1965	11	20.82903	05	10	05.80	+24	04	19.8	0.5+	1+	330
858	1965	11	23.68826	05	07	34.49	+24	08	17.6	0.4+	2+	330
858	1974	10	23.68530	03	03	50.62	+11	25	40.9	0.0	1+	330
863	1973	12	24.67133	07	00	23.47	+12	21	02.7	0.1-	1+	330
865	1966	04	14.61241	11	21	38.71	+07	17	29.6	4.2-	12+	330
866	1965	11	20.87556	05	49	59.02	+20	41	02.0	0.0	1-	330
866	1965	11	23.71639	05	48	04.87	+20	45	44.8	0.0	0	330
866	1965	12	19.68890	05	25	55.99	+21	31	09.2	0.1-	0	330
866	1965	12	30.79620	05	16	21.89	+21	50	07.5	0.1-	0	330
866	1965	12	31.78929	05	15	34.97	+21	51	49.7	0.1-	0	330
866	1966	01	16.52361	05	05	34.77	+22	18	48.9			330
866	1975	10	30.49168	23	20	37.16	-16	42	50.8			330
868	1965	01	11.83958	08	23	12.88	+19	51	47.3	2.1+	1+	330
868	1974	02	13.51898	08	51	42.29	+20	45	58.6	2.5+	1-	330
869	1965	01	12.86736	09	52	48.29	+08	56	04.4	0.8+	1-	330
872	1973	11	20.56805	03	15	47.17	+11	06	43.2	0.0	1-	330

874	1965	12	31.81152	08	14	34.81	+04	23	43.6	1.4-	4+	330
885	1972	11	30.60859	04	50	17.97	+17	36	54.1	0.1-	1+	330
885	1972	12	15.77681	04	37	03.22	+17	19	39.5	0.1-	0	330
885	1977	10	12.55778	01	27	26.76	+04	40	38.8	0.0	1+	330
885	1977	11	03.58413	01	12	06.49	+02	59	18.4	0.1+	0	330
885	1977	11	04.57095	01	11	33.19	+02	56	04.5	0.1+	0	330
885	1977	11	08.55436	01	09	29.55	+02	44	32.0	0.0	1+	330
885	1977	11	11.53614	01	08	09.25	+02	37	34.3	0.1+	1+	330
887	1973	12	31.55965	06	45	20.33	+08	49	38.5	0.3+	3+	330
887	1974	01	21.55839	08	26	21.52	+31	19	54.9	0.1+	2+	330
887	1974	02	12.58142	09	33	40.40	+38	38	15.2	0.0	0	330
889	1965	05	29.75322	16	43	48.82	-11	12	48.6	4.5+	17-	330
891	1965	01	09.75208	07	45	10.72	+23	37	31.8	0.2-	0	330
897	1965	01	01.74861	07	21	27.75	+11	07	12.1	4.1+	29-	330
897	1965	01	10.68472	07	12	10.29	+10	46	14.3	4.1+	28-	330
900	1965	09	20.66588	01	43	24.19	+06	34	39.5	0.9+	7+	330
900	1965	10	18.61661	01	22	44.90	+01	35	15.1	0.8+	9+	330
903	1977	10	12.64875	02	31	30.81	+01	09	49.5	0.1+	1+	330
904	1965	11	25.69025	05	26	27.31	+03	49	46.7	2.1-	5+	330
905	1966	04	14.52352	11	08	33.09	+10	55	00.8			330
905	1966	04	14.54435	11	08	33.83	+10	55	01.5			330
906	1975	04	12.55396	12	35	03.65	+05	30	41.2	0.1-	1+	330
909	1966	02	14.74942	10	44	08.45	+11	50	21.1			330
909	1966	02	16.69871	10	42	58.15	+12	04	53.7			330
917	1965	02	02.73958	10	47	50.04	+09	24	37.1	0.8+	7-	330
918	1965	01	12.80833	09	04	00.89	+24	25	22.4	0.1+	1-	330
918	1975	01	16.81470	10	20	56.44	+12	48	56.6	0.0	2-	330
918	1975	01	22.86594	10	17	11.47	+12	57	04.7	0.0	1-	330
918	1975	02	12.60559	10	00	20.37	+13	37	56.2	0.0	1-	330
918	1975	03	07.66553	09	40	21.00	+14	18	25.2	0.0	2-	330
924	1965	11	28.71412	06	23	16.87	+11	15	19.9	0.3-	1-	330
924	1973	05	04.63955	15	21	14.30	-05	23	03.7	0.1-	1+	330
929	1965	10	20.72698	03	14	56.01	+19	08	38.9	0.1-	0	330
929	1965	11	20.68076	02	43	47.47	+16	06	17.5	0.0	1+	330
929	1965	11	23.57368	02	41	07.45	+15	49	06.5	0.1-	1-	330
929	1965	11	26.63123	02	38	28.85	+15	31	41.4	0.0	1-	330
929	1965	11	30.74994	02	35	15.59	+15	09	46.4	0.0	1-	330
929	1965	12	11.48697	02	29	00.82	+14	23	12.2			330
936	1965	10	19.72494	03	19	48.03	+17	12	22.7	0.2-	2-	330
936	1965	11	20.68076	02	54	09.93	+15	48	02.5	0.3-	1-	330
936	1965	11	23.57368	02	51	56.68	+15	40	30.5	0.3-	1-	330
936	1965	11	26.63123	02	49	42.56	+15	32	58.1	0.3-	2-	330
936	1965	11	30.74994	02	46	54.59	+15	23	37.5	0.3-	1-	330
936	1965	12	11.48697	02	41	04.40	+15	05	15.4			330
937	1974	12	18.65610	06	48	44.55	+19	48	48.9	0.1-	0	330
937	1974	12	20.76111	06	46	21.35	+19	48	27.2	0.1-	1-	330
938	1965	08	27.80623	23	33	15.64	-06	11	58.2	0.9-	6-	330
938	1965	09	21.57940	23	16	13.41	-08	21	11.1	1.0-	6-	330
938	1965	10	16.52778	23	03	55.02	-09	36	02.7			330
943	1966	01	30.86671	10	22	03.65	+20	03	01.5	0.6+	6-	330
943	1966	02	13.68900	10	12	47.45	+22	15	49.6	0.7+	5-	330
943	1966	02	16.65288	10	10	33.01	+22	42	23.6	0.6+	6-	330
943	1966	02	25.72398	10	03	39.70	+23	55	02.2	0.4+	5-	330
947	1965	11	21.73453	04	47	02.09	+26	17	27.3	0.6-	1-	330
947	1965	11	25.58991	04	43	05.39	+26	27	14.8	0.5-	1-	330
954	1972	12	01.66183	04	05	55.66	+19	14	28.3	0.0	1-	330
955	1966	02	13.68900	10	05	17.97	+19	33	36.9	1.1-	11-	330
955	1966	02	16.65288	10	02	08.53	+19	42	20.0	1.0-	12-	330
955	1966	02	25.72398	09	52	22.16	+20	03	57.9	1.2-	10-	330

956	1977	10	10.67163	02	35	38.20	+11	53	24.3	0.0	0	330
956	1977	10	21.85809	02	25	50.50	+10	17	42.9	0.2+	1+	330
956	1977	11	03.64246	02	13	36.96	+08	30	47.5	0.2+	1+	330
956	1977	11	12.57364	02	05	58.20	+07	28	03.5	0.2+	1+	330
961	1965	10	18.56383	00	35	32.05	-00	19	43.6	2.7+	26+	330
961	1965	10	21.53250	00	33	00.09	-00	19	51.1	2.6+	24+	330
962	1976	12	16.58380	06	03	22.77	+20	06	46.0	0.6+	1+	330
966	1975	11	29.59619	05	33	03.78	+25	34	21.7	0.0	0	330
966	1975	12	02.62228	05	30	06.45	+25	44	30.6	0.0	1+	330
966	1975	12	23.59817	05	08	04.94	+26	41	42.0	0.1-	0	330
966	1976	01	01.55616	04	59	25.75	+26	58	47.1	0.1-	0	330
968	1965	11	22.62336	04	18	06.89	+11	13	56.4	3.2+	0	330
974	1965	12	30.90002	08	12	30.17	+23	51	20.8	0.6+	5-	330
976	1965	10	20.72698	03	13	59.29	+21	49	49.9	0.1+	0	330
987	1972	10	28.65611	01	41	13.37	+24	42	02.7	0.0	1-	330
992	1975	11	23.53493	03	46	15.60	+12	47	43.0	0.0	1+	330
993	1975	12	22.52903	05	26	52.48	+20	30	15.4	0.6-	1-	330
993	1975	12	29.58108	05	20	32.17	+20	25	57.4	0.5-	0	330
993	1976	01	05.54799	05	14	59.81	+20	22	42.1	0.6-	0	330
999	1974	10	12.65045	02	11	09.30	+15	29	25.0	0.5-	1-	330
1002	1975	12	01.63926	04	40	15.66	+38	58	18.0	0.0	0	330
1004	1974	12	14.60506	05	20	57.76	+19	02	55.5	0.3-	0	330
1007	1965	01	11.86181	09	22	41.19	+15	16	37.0	0.0	0	330
1010	1975	01	09.66028	08	14	24.40	+21	42	09.8	0.2-	0	330
1014	1965	11	20.82903	05	15	50.86	+23	09	16.3			330
1014	1965	11	23.68826	05	13	38.07	+23	03	45.8			330
1014	1965	12	20.64796	04	48	28.56	+21	56	48.0			330
1014	1965	12	31.70804	04	39	50.22	+21	29	14.3			330
1022	1965	01	10.75972	07	46	45.29	+21	55	42.7	1.5-	6-	330
1029	1965	09	21.69850	01	16	52.51	+06	58	49.4	1.0-	5-	330
1029	1965	10	19.56730	00	55	08.18	+05	05	21.8	1.1-	6-	330
1032	1965	11	20.78111	04	59	25.20	+21	22	52.7	0.8+	3+	330
1032	1965	11	25.63574	04	55	26.56	+21	25	33.1	0.7+	4+	330
1032	1965	12	20.64796	04	34	02.03	+21	34	40.1	0.6+	4+	330
1032	1965	12	31.74103	04	26	08.93	+21	38	48.2			330
1036	1972	11	30.63150	05	12	50.60	-10	04	56.8	1.0+	2-	330
1045	1965	01	01.68820	06	47	05.45	+22	57	29.1	1.4+	1+	330
1052	1975	10	31.64103	01	35	26.77	+00	21	16.9	0.0	0	330
1054	1965	11	22.62336	04	00	29.50	+12	46	50.3	1.1-	7-	330
1054	1975	11	26.54058	04	12	10.18	+14	19	42.4	0.6-	2-	330
1055	1966	02	14.74942	10	44	07.87	+09	08	32.0	1.8+	6-	330
1055	1966	02	16.69871	10	42	19.88	+09	23	18.1	1.8+	7-	330
1055	1977	10	12.64875	02	24	52.55	+04	37	39.3	0.0	1+	330
1057	1965	11	20.78111	04	56	25.85	+23	45	43.7	1.2+	4-	330
1057	1965	11	25.63574	04	51	56.33	+23	30	51.1	1.3+	4-	330
1057	1965	11	28.69433	04	48	59.24	+23	20	52.9	1.2+	4-	330
1057	1965	11	30.84890	04	46	52.56	+23	13	34.5	1.3+	4-	330
1057	1965	12	13.55214	04	34	47.58	+22	28	52.3	1.2+	5-	330
1057	1965	12	18.57535	04	30	32.59	+22	11	24.1	1.2+	5-	330
1057	1965	12	24.58450	04	26	08.85	+21	51	50.7	1.1+	5-	330
1057	1965	12	30.74516	04	22	35.35	+21	34	03.3			330
1057	1975	12	11.81911	06	31	59.74	+22	08	55.5	0.2+	1+	330
1060	1965	06	28.66145	18	28	41.48	-12	15	29.4	0.1-	2-	330
1062	1977	10	04.64443	01	28	12.31	+15	00	30.8			330
1062	1977	10	10.61052	01	23	21.62	+14	44	12.7			330
1062	1977	10	16.58784	01	18	19.54	+14	24	37.9			330
1062	1977	11	01.50904	01	05	38.21	+13	24	43.8			330
1062	1977	11	08.60436	01	00	59.11	+12	58	35.9			330
1063	1973	05	04.69382	16	11	52.38	-14	09	22.1	0.0	1-	330

1064	1965	01	11.83958	08	18	39.40	+14	57	36.2	4.4-	24+	330
1064	1965	01	26.63194	08	03	42.42	+15	07	31.7	4.4-	24+	330
1064	1965	02	02.60972	07	56	52.43	+15	13	47.0	4.3-	23+	330
1064	1965	02	23.55417	07	41	04.63	+15	30	55.1			330
1076	1965	10	21.65090	02	12	21.92	+07	31	38.3	1.4+	7+	330
1076	1965	11	20.63180	01	47	51.14	+05	17	39.5	1.3+	6+	330
1076	1975	05	06.56299	14	09	32.36	-07	42	15.0	0.0	0	330
1078	1975	01	04.58257	06	13	54.13	+24	32	45.2	0.5-	0	330
1078	1975	01	12.52770	06	05	25.85	+25	15	49.1	0.4-	0	330
1078	1975	01	16.57095	06	01	42.08	+25	35	47.9	0.4-	0	330
1078	1975	01	17.61476	06	00	49.17	+25	40	44.7	0.4-	0	330
1078	1975	01	18.63441	05	59	59.63	+25	45	28.7	0.5-	1-	330
1079	1965	12	30.90002	08	20	26.53	+20	36	03.3			330
1079	1966	01	20.57461	08	02	20.64	+21	26	34.7			330
1079	1966	01	28.76565	07	54	44.45	+21	44	25.0			330
1079	1966	02	13.63553	07	42	28.16	+22	08	00.1			330
1079	1966	02	16.55323	07	40	46.55	+22	10	34.7			330
1081	1965	09	21.57940	23	21	15.82	-08	45	28.3	3.8+	28+	330
1081	1965	10	16.52778	23	06	03.64	-09	28	47.2			330
1084	1973	12	25.64363	06	35	04.80	+17	26	42.8	0.6-	0	330
1086	1975	01	16.81470	10	11	53.53	+09	33	10.8	0.0	1+	330
1086	1975	01	22.86594	10	08	30.63	+09	34	37.4	0.0	0	330
1086	1975	02	12.60559	09	52	45.48	+10	01	28.0	0.2-	1+	330
1086	1975	02	19.77855	09	46	39.01	+10	15	04.8	0.2-	2+	330
1088	1975	05	06.56299	14	13	12.51	-09	48	26.0	0.0	0	330
1094	1965	10	20.62490	02	12	47.45	-08	13	45.7	0.6-	4-	330
1095	1965	10	18.66904	02	18	56.69	+05	29	50.9			330
1095	1965	10	21.65090	02	16	47.15	+05	09	57.1			330
1095	1965	11	20.63180	01	56	09.55	+02	30	24.7			330
1095	1965	11	25.53470	01	53	44.62	+02	15	48.6			330
1095	1965	11	30.69091	01	51	41.07	+02	04	41.7			330
1096	1975	10	30.71182	05	34	45.98	+20	05	59.8			330
1096	1975	11	24.56208	05	17	30.67	+20	59	44.4	0.0	0	330
1102	1965	09	20.61519	00	18	24.38	+16	04	28.5	0.9-	2-	330
1107	1975	05	06.61715	15	10	58.41	-08	21	21.0	0.2-	1-	330
1108	1975	11	24.52667	02	39	09.32	+18	25	02.2	0.6+	0	330
1109	1965	08	27.61977	22	09	06.25	-05	24	20.9	1.8-	12-	330
1118	1974	12	20.68680	05	56	32.13	+38	40	35.0	0.4+	3-	330
1119	1974	12	18.60888	05	29	01.35	+28	35	27.1	0.0	1-	330
1119	1975	01	09.56514	05	07	50.43	+28	40	56.9	0.1-	1-	330
1121	1977	10	16.64408	02	58	07.92	+24	09	15.9	1.3+	7+	330
1126	1965	10	17.56109	23	16	18.65	-04	32	48.7	0.0	2-	330
1128	1966	02	13.74039	10	27	40.66	+11	18	30.5	1.7-	11+	330
1128	1966	02	14.74942	10	26	51.15	+11	23	24.2	1.8-	10+	330
1128	1966	02	24.72677	10	18	22.59	+12	12	05.3	1.8-	10+	330
1128	1966	02	24.74483	10	18	21.51	+12	12	10.7	1.8-	10+	330
1128	1966	02	25.77051	10	17	29.18	+12	17	05.1	1.8-	10+	330
1128	1966	03	16.59788	10	02	50.64	+13	33	50.5			330
1129	1972	11	29.66873	04	44	20.89	+26	35	45.2	0.1-	1+	330
1129	1977	10	16.64408	03	00	04.72	+27	12	22.0	0.2-	0	330
1132	1973	08	23.73235	23	03	47.79	-18	45	19.6	0.0	0	330
1135	1966	01	28.86356	10	10	21.70	+14	43	12.8	1.0-	3+	330
1135	1966	02	14.64248	09	55	31.30	+15	46	02.1	1.0-	4+	330
1135	1966	02	25.67745	09	45	17.58	+16	22	52.5	1.0-	4+	330
1135	1966	03	16.53399	09	31	09.98	+17	00	23.4			330
1135	1977	10	12.60639	02	14	43.41	+18	37	00.3	0.1-	1+	330
1135	1977	11	01.55765	01	56	09.67	+17	39	20.8	0.1-	1-	330
1135	1977	11	08.65367	01	49	53.68	+17	12	25.3	0.0	1-	330
1138	1974	12	14.62242	06	24	05.31	+27	57	25.2	0.1-	1-	330

1138	1974	12	18.69013	06	20	13.97	+27	45	12.8	0.1-	1-	330
1138	1975	01	04.58257	06	04	01.19	+26	43	54.5	0.2-	0	330
1138	1975	01	12.52770	05	57	15.44	+26	11	03.5	0.2-	0	330
1138	1975	01	16.57095	05	54	13.83	+25	53	51.9	0.1-	1-	330
1138	1975	01	17.61476	05	53	29.97	+25	49	24.9	0.2-	1-	330
1138	1975	01	18.63441	05	52	48.80	+25	45	05.0	0.1-	1-	330
1140	1975	12	23.59817	05	23	06.08	+28	26	37.1	0.0	1+	330
1140	1976	01	01.55616	05	13	59.66	+28	58	59.5	0.1-	0	330
1143	1974	10	23.73669	03	42	52.63	+18	55	12.2	0.0	0	330
1147	1976	02	05.62949	08	02	01.76	+16	32	11.8	0.3-	0	330
1149	1965	12	31.84103	08	22	47.80	+09	07	12.8	1.4+	9-	330
1149	1966	01	01.88097	08	22	00.09	+09	05	15.9	1.4+	9-	330
1149	1966	01	21.61634	08	04	41.28	+08	49	51.0	1.5+	9-	330
1149	1966	01	21.66252	08	04	38.64	+08	49	52.2	1.4+	9-	330
1149	1966	01	27.72503	07	59	06.48	+08	52	47.3	1.5+	9-	330
1149	1966	02	13.58553	07	45	51.53	+09	13	44.3	1.4+	8-	330
1149	1966	02	18.52263	07	42	55.88	+09	22	04.8			330
1150	1965	11	20.82903	05	10	14.07	+19	56	51.7	4.5+	4+	330
1150	1965	11	23.68826	05	07	06.73	+19	48	31.1	4.5+	6+	330
1150	1965	12	30.64796	04	36	20.92	+18	36	26.2	4.2+	5+	330
1150	1965	12	31.74103	04	27	40.97	+18	20	17.0			330
1154	1975	11	26.54058	04	06	53.43	+18	42	52.5	0.0	0	330
1162	1975	11	24.56208	05	10	49.27	+24	22	21.1	0.0	1-	330
1166	1965	01	09.75208	07	31	44.69	+23	39	45.3	0.0	0	330
1167	1965	01	08.80486	07	56	41.64	+13	14	01.1	0.0	0	330
1171	1975	11	28.59617	02	46	11.89	+11	10	36.4	0.0	1+	330
1180	1965	09	21.62627	00	08	23.60	-10	05	33.6	0.2-	1-	330
1185	1977	10	04.57707	00	54	37.03	-04	23	38.9	0.1-	0	330
1186	1972	11	17.85057	02	50	28.82	+18	02	59.3	0.1+	0	330
1186	1972	11	28.49624	02	41	31.99	+17	57	42.6	0.1-	0	330
1186	1972	12	03.57733	02	37	55.44	+17	56	16.6	0.0	0	330
1186	1972	12	08.68596	02	34	56.98	+17	56	06.7	0.1+	1-	330
1186	1977	10	12.55778	01	36	01.50	+03	22	41.7	0.4+	4+	330
1186	1977	11	03.58413	01	17	15.24	+03	04	40.8	0.3+	4+	330
1186	1977	11	04.57095	01	16	31.60	+03	04	53.3	0.4+	4+	330
1186	1977	11	08.55436	01	13	45.45	+03	06	49.4	0.3+	4+	330
1186	1977	11	11.53614	01	11	52.87	+03	09	29.3	0.3+	3+	330
1191	1965	01	01.74861	07	20	07.29	+08	47	49.2	9.6+	43+	330
1191	1965	01	10.71250	07	12	12.26	+09	46	08.3	9.6+	42+	330
1194	1965	01	12.88472	09	47	00.81	+06	34	30.3	0.0	0	330
1199	1965	01	08.80486	07	53	08.33	+09	29	25.8	0.8+	4-	330
1202	1965	01	12.80833	08	58	33.28	+21	33	18.4	3.9+	16-	330
1204	1965	10	17.56109	23	19	57.65	-04	15	34.1	2.7-	17-	330
1204	1972	11	16.80922	02	37	12.73	+17	49	43.6	0.0	0	330
1204	1972	11	24.47560	02	30	21.94	+17	19	37.0	0.0	0	330
1204	1972	11	28.49624	02	27	29.51	+17	05	59.2	0.0	1-	330
1204	1972	12	03.57733	02	24	37.70	+16	51	38.5	0.1-	1-	330
1204	1972	12	08.68596	02	22	44.42	+16	41	13.5	0.0	1-	330
1208	1965	11	25.53470	02	02	34.26	+02	07	35.1	3.0-	50-	330
1208	1965	11	30.69091	02	00	00.36	+02	21	23.7	3.2-	50-	330
1209	1966	02	13.68900	10	05	20.55	+20	24	51.9	1.4-	6+	330
1209	1966	02	16.65288	10	03	02.31	+20	40	04.6	1.4-	6+	330
1209	1966	02	25.72398	09	55	55.29	+21	22	29.7	1.5-	6+	330
1209	1975	12	02.69277	04	27	01.79	+18	12	11.4	0.6-	3-	330
1209	1975	12	22.47521	04	11	29.60	+18	05	49.9	0.5-	3-	330
1210	1965	12	30.90002	08	24	18.13	+21	53	38.4	0.9+	1-	330
1210	1966	01	20.57461	08	07	42.43	+23	50	54.1	0.9+	0	330
1210	1966	01	21.70870	08	06	42.51	+23	57	06.9	0.9+	0	330
1210	1966	01	27.83128	08	01	21.85	+24	29	10.3	1.0+	0	330

1216	1974	12	19.70337	07	37	31.56	+17	54	53.0	0.0	0	330
1216	1975	01	10.70269	07	14	35.42	+19	32	32.7	0.0	0	330
1216	1975	01	16.63900	07	07	49.21	+20	01	00.7	0.0	0	330
1218	1976	01	05.59660	06	05	00.52	+26	46	32.3	0.3-	1+	330
1225	1975	12	24.63293	04	39	44.44	+27	30	08.7	0.0	1-	330
1227	1965	08	27.71838	23	21	46.22	-14	45	38.0	2.8+	34+	330
1234	1975	01	12.68811	09	45	48.50	+11	17	33.0	0.1+	0	330
1237	1977	10	04.57707	00	59	41.30	-06	45	45.9	0.0	0	330
1239	1965	09	23.63663	00	48	02.86	+02	29	39.2	0.8+	7+	330
1239	1965	10	18.56383	00	26	27.71	+00	19	53.1	0.8+	8+	330
1239	1965	10	21.50299	00	24	08.41	+00	07	01.8	0.8+	7+	330
1239	1974	10	23.73669	03	38	46.62	+18	08	49.3	1.2+	5+	330
1243	1972	10	28.65611	01	46	49.30	+22	20	42.6	0.0	1+	330
1243	1975	04	02.63678	11	38	51.90	-16	11	55.8	0.1-	0	330
1245	1973	11	23.54536	04	11	34.41	+16	34	36.3	0.0	0	330
1245	1975	03	07.66553	09	54	54.61	+12	45	59.0	0.0	0	330
1247	1965	07	28.64840	21	19	46.61	-14	08	27.0	0.6+	3+	330
1248	1966	03	15.64198	10	46	22.50	+22	49	22.7	0.0	0	330
1248	1975	02	19.82577	11	15	30.72	+19	54	43.5	0.4-	2+	330
1248	1975	03	17.68278	10	53	24.89	+22	12	09.8	0.3-	2+	330
1248	1975	04	01.64436	10	43	07.06	+22	31	42.4	0.5-	3+	330
1248	1975	04	03.52677	10	42	08.55	+22	30	43.6	0.4-	3+	330
1248	1975	04	11.59560	10	38	54.55	+22	18	26.4			330
1249	1975	11	24.52667	02	32	27.65	+19	19	47.8	0.0	0	330
1251	1972	11	16.83603	05	22	46.24	+14	16	05.0	0.0	1-	330
1251	1972	11	28.61777	05	12	49.67	+14	01	58.9	0.0	1-	330
1254	1965	03	04.77222	12	26	10.63	-13	25	36.2	0.9+	6-	330
1254	1974	11	18.70396	06	54	36.83	+25	54	52.5			330
1254	1974	12	14.62242	06	39	20.69	+25	41	35.4	0.9-	2+	330
1254	1974	12	18.69013	06	35	50.47	+25	38	16.9	0.9-	2+	330
1254	1975	01	04.58257	06	20	19.62	+25	17	44.4	1.0-	3+	330
1259	1966	01	28.86356	10	01	32.97	+15	28	53.1	0.1-	1-	330
1259	1966	01	30.81775	10	00	11.58	+15	37	35.0	0.0	0	330
1259	1966	02	14.59525	09	48	40.99	+16	45	15.4	0.1-	1-	330
1259	1966	02	14.64248	09	48	38.67	+16	45	29.4	0.2-	1-	330
1259	1966	02	25.67745	09	39	41.84	+17	31	29.7	0.1-	1-	330
1259	1966	03	16.53399	09	27	26.82	+18	24	04.0			330
1259	1975	10	30.71182	05	28	01.33	+23	01	39.0			330
1259	1975	11	24.56208	05	13	35.47	+22	59	26.2	0.2+	1-	330
1261	1966	01	28.86356	10	11	39.37	+15	00	51.9			330
1261	1966	02	14.64248	09	59	23.45	+16	18	05.7			330
1261	1966	02	25.67745	09	50	32.99	+17	04	53.6			330
1261	1966	03	16.53399	09	38	31.78	+17	55	24.9			330
1266	1965	03	05.80903	11	26	17.92	-10	26	56.1	0.9+	8-	330
1268	1975	01	17.68073	08	15	43.54	+24	46	32.1	0.0	1+	330
1269	1973	01	30.66870	10	10	55.40	+11	57	16.6	0.4+	3-	330
1271	1965	12	24.71471	06	32	11.06	+17	54	42.5	0.2+	2+	330
1271	1976	12	14.57406	06	09	43.39	+17	05	50.5	0.3+	3+	330
1282	1975	04	02.63678	11	23	41.53	-13	09	36.0	0.3-	2+	330
1284	1965	01	09.75208	07	43	04.51	+25	11	38.8	0.6+	3-	330
1285	1977	02	14.53194	08	49	58.35	+18	13	18.1	0.2-	1+	330
1289	1965	02	02.73958	10	34	33.76	+07	16	17.1	0.3-	3+	330
1291	1965	10	19.72494	03	17	27.34	+16	33	18.2	0.4-	1-	330
1291	1965	11	20.68076	02	53	09.06	+13	18	42.8	0.5-	2-	330
1291	1965	11	23.57368	02	51	03.60	+13	02	23.3	0.5-	1-	330
1291	1965	11	26.63123	02	48	57.86	+12	45	57.9	0.5-	1-	330
1291	1965	11	30.74994	02	46	22.26	+12	25	21.3	0.4-	1-	330
1291	1965	12	11.45398	02	41	07.98	+11	41	38.9			330
1291	1976	12	14.57406	06	14	26.14	+12	39	20.3	0.4+	2-	330



1292	1965	07	28.74701	21	30	04.02	-12	18	32.7	1.2-	7-	330
1294	1977	10	12.64875	02	31	26.65	+00	57	42.7	0.1-	1-	330
1295	1966	02	14.79873	10	49	37.83	+05	18	49.4	0.3-	2+	330
1295	1966	02	25.83162	10	42	02.02	+06	12	07.1	0.3-	2+	330
1295	1966	03	16.71663	10	29	11.85	+07	45	32.4	0.3-	2+	330
1297	1966	02	16.75670	11	14	03.12	-05	28	08.3	1.2-	9+	330
1297	1976	02	05.62949	08	12	22.68	+17	34	03.7	0.1-	0	330
1300	1965	12	20.70317	06	14	00.26	+25	36	59.1	0.4+	1+	330
1300	1965	12	24.69214	06	09	54.23	+25	51	54.4	0.4+	2+	330
1300	1966	01	16.58194	05	48	32.85	+26	56	30.2			330
1300	1966	01	28.65697	05	41	32.09	+27	19	04.4			330
1302	1974	10	23.73669	03	46	48.95	+17	14	31.6	0.0	0	330
1302	1974	12	18.55263	03	06	25.93	+15	36	11.8	0.1-	0	330
1304	1965	12	20.64796	04	53	17.54	+17	58	17.9	2.0+	14+	330
1304	1965	12	31.70804	04	44	30.13	+18	31	11.2	2.0+	15+	330
1305	1972	12	13.83044	06	43	22.72	+24	48	56.9	0.0	0	330
1306	1965	12	20.76359	07	15	07.50	+19	38	27.2	0.1-	0	330
1317	1966	03	15.69198	12	03	30.63	+04	56	09.9	0.2+	2-	330
1326	1974	12	18.65610	06	42	39.98	+19	31	44.1	0.2-	1+	330
1326	1974	12	20.76111	06	40	28.07	+19	49	13.1	0.3-	0	330
1332	1965	12	30.90002	08	07	37.57	+23	46	10.5	2.4+	6-	330
1332	1966	01	20.57461	07	49	29.47	+24	36	50.3	2.6+	4-	330
1332	1966	01	28.76565	07	42	17.78	+24	51	08.2	2.5+	4-	330
1332	1966	02	13.63553	07	30	54.51	+25	05	32.9	2.4+	3-	330
1334	1965	10	21.70403	03	34	29.14	+02	31	26.6	0.2-	1-	330
1336	1965	01	01.68820	06	39	52.22	+23	19	35.3	3.1-	0	330
1338	1966	01	30.81775	09	45	58.09	+14	45	58.4	0.4+	2-	330
1338	1966	02	14.59525	09	29	34.96	+15	20	38.2	0.6+	2-	330
1338	1966	02	24.67625	09	19	05.17	+15	38	24.0	0.5+	3-	330
1341	1965	10	21.70403	03	18	56.01	-00	09	29.5	0.6+	0	330
1352	1975	12	02.69277	04	37	32.92	+16	38	39.3	0.1-	1-	330
1352	1975	12	22.47521	04	20	25.02	+15	59	30.0	0.1-	0	330
1354	1965	11	21.70675	04	33	27.92	+26	57	51.7	0.0	1+	330
1354	1965	11	25.58991	04	30	04.46	+26	55	16.8	0.0	0	330
1357	1965	11	20.87556	05	51	58.36	+21	32	25.7	0.7+	0	330
1357	1965	11	23.71639	05	49	59.09	+21	43	12.3	0.6+	1+	330
1357	1965	12	19.68890	05	26	42.64	+23	21	26.0	0.3+	1+	330
1357	1965	12	30.79620	05	16	40.31	+23	58	51.1	0.2+	3+	330
1357	1965	12	31.78929	05	15	51.43	+24	02	01.6	0.2+	2+	330
1357	1966	01	16.52361	05	05	30.42	+24	48	32.1			330
1358	1965	02	02.73958	10	27	44.48	+12	28	11.8	0.7+	5-	330
1358	1965	02	25.72566	10	06	41.40	+14	20	31.4	0.7+	5-	330
1359	1975	12	23.59817	05	13	17.84	+28	30	48.4	0.1-	0	330
1359	1976	01	01.55616	05	05	24.23	+28	43	30.2	0.1-	0	330
1363	1965	10	19.56730	00	49	00.77	+05	48	34.5	0.2+	2+	330
1372	1965	02	23.70347	11	25	28.40	-05	38	20.6	4.6-	41+	330
1372	1965	03	05.78125	11	15	44.59	-05	35	40.3	4.8-	42+	330
1376	1965	10	24.69903	03	49	44.75	+14	18	41.1	0.0	1+	330
1376	1965	11	20.73111	03	21	27.99	+12	09	13.4	0.4-	1+	330
1376	1965	11	23.62125	03	18	26.16	+11	58	15.6	0.2-	1+	330
1376	1965	11	26.78470	03	15	16.17	+11	47	34.2	0.1-	2+	330
1376	1965	11	30.80133	03	11	34.17	+11	36	09.3	0.3-	1+	330
1376	1965	12	13.49242	03	02	45.25	+11	17	25.8			330
1376	1965	12	18.51979	03	00	38.27	+11	17	26.3			330
1376	1975	11	23.53493	03	37	17.52	+13	03	16.5	0.1-	0	330
1378	1965	01	11.86181	09	40	42.80	+19	53	09.4	2.5+	16-	330
1378	1965	02	02.68854	09	21	29.90	+21	47	24.1	2.8+	16-	330
1378	1965	02	11.84514	09	11	34.63	+22	30	34.3	2.9+	14-	330
1378	1965	02	23.67986	08	59	32.78	+23	10	27.3	2.8+	12-	330

1388	1977	11	04.51886	01	41	47.95	+03	10	24.7	0.0	1-	330
1389	1966	01	16.63194	06	42	35.42	+20	12	20.4	2.4+	3-	330
1391	1975	11	23.53493	03	39	58.10	+10	45	27.4	0.1-	1-	330
1396	1974	12	19.63184	04	52	55.40	+29	38	33.8	0.1-	0	330
1397	1966	03	16.76698	11	46	50.61	+07	26	30.0	0.1-	1+	330
1397	1966	03	26.59685	11	38	02.97	+08	20	18.9	0.1-	0	330
1397	1966	03	26.65661	11	37	59.61	+08	20	33.4	0.0	1+	330
1397	1966	04	14.61241	11	23	37.53	+09	30	33.9	0.0	1+	330
1397	1975	03	21.77702	13	29	16.87	-03	50	51.7	0.0	0	330
1406	1965	03	04.77222	12	22	44.81	-11	55	14.9	0.2-	3+	330
1407	1965	01	11.83958	08	20	53.64	+14	52	37.6	0.1+	1-	330
1407	1965	01	26.63194	08	05	57.23	+15	15	45.2	0.2+	0	330
1407	1965	02	02.58194	07	59	23.10	+15	28	01.4	0.2+	1-	330
1407	1965	02	23.55417	07	45	14.25	+16	00	32.2			330
1409	1965	07	28.59146	20	30	23.98	-10	14	34.5	0.5+	2-	330
1412	1965	09	21.62627	00	08	22.79	-07	59	59.9	2.6-	17-	330
1418	1974	12	20.68680	06	01	54.38	+35	16	22.6	0.0	1-	330
1423	1965	09	22.61861	00	27	57.33	-01	10	35.6	1.9-	13-	330
1423	1965	10	17.61109	00	08	40.82	-02	49	05.1	1.8-	11-	330
1423	1965	10	20.51656	00	06	51.72	-02	56	23.1	1.8-	11-	330
1423	1965	10	24.59417	00	04	34.07	-03	05	25.6	1.7-	12-	330
1425	1975	03	21.81001	13	22	11.22	-05	52	43.3	0.0	1+	330
1427	1975	12	11.81911	06	38	52.53	+26	27	23.2	0.2+	0	330
1427	1976	01	05.59660	06	13	53.49	+27	40	37.8	0.0	0	330
1434	1965	11	25.69025	05	33	24.98	+08	24	49.2	5.8+	10+	330
1434	1965	11	25.74801	05	33	22.61	+08	24	47.0	5.8+	11+	330
1440	1965	09	20.71935	01	02	02.01	+04	10	11.3	4.7+	32+	330
1440	1965	09	23.60886	01	00	08.64	+03	59	53.5	4.7+	33+	330
1440	1965	10	18.56383	00	41	32.49	+02	24	27.7	4.7+	33+	330
1440	1965	10	21.53250	00	39	28.95	+02	14	51.4	4.6+	33+	330
1449	1965	06	20.59705	17	25	31.55	-17	15	25.0	2.5+	9-	330
1454	1965	02	23.67986	08	47	24.15	+23	03	23.4	0.0	1-	330
1457	1974	11	18.70396	06	53	37.06	+26	46	01.1			330
1457	1974	12	14.62242	06	36	14.31	+26	47	45.3	0.2+	1-	330
1457	1974	12	18.69013	06	32	16.24	+26	46	09.1	0.2+	1-	330
1457	1975	01	04.58257	06	14	41.97	+26	29	34.0	0.2+	0	330
1457	1975	01	12.52770	06	06	54.33	+26	16	16.8	0.3+	0	330
1457	1975	01	16.57095	06	03	17.83	+26	09	09.6	0.3+	1-	330
1457	1975	01	17.61476	06	02	25.42	+26	06	20.5	0.3+	2-	330
1457	1975	01	18.63441	06	01	35.11	+26	04	15.1	0.2+	2-	330
1461	1966	03	15.64198	10	42	29.70	+27	21	25.1	0.0	0	330
1461	1966	04	18.56587	10	28	27.79	+27	30	43.6			330
1466	1965	11	28.64190	04	34	10.87	+01	22	33.5	0.1-	1-	330
1470	1975	02	16.85964	11	59	39.69	+00	45	25.6	0.2-	0	330
1470	1975	04	02.55970	11	29	05.07	+03	28	16.4	0.1-	0	330
1478	1965	01	12.83611	08	59	01.66	+20	57	21.7	0.7-	12-	330
1482	1975	12	02.62228	05	41	58.72	+24	06	59.0	0.1-	0	330
1482	1975	12	11.74446	05	33	29.18	+24	10	50.1	0.0	0	330
1482	1975	12	22.52903	05	23	04.01	+24	12	09.2	0.1-	0	330
1482	1975	12	29.58108	05	16	37.02	+24	11	14.6	0.0	0	330
1482	1976	01	05.54799	05	10	56.04	+24	09	35.8	0.1-	0	330
1487	1977	12	08.60508	05	38	19.94	+22	25	19.6	0.2+	1+	330
1487	1977	12	12.59270	05	34	49.86	+22	25	19.3	0.1+	0	330
1490	1975	04	02.63678	11	36	27.84	-13	34	17.4	0.3-	2-	330
1494	1974	12	14.60506	05	18	19.31	+18	44	07.5	0.1-	0	330
1512	1965	09	23.63663	00	49	19.89	+05	17	02.9	0.8+	7+	330
1512	1965	10	18.56383	00	33	38.67	+04	04	55.8	0.7+	6+	330
1512	1965	10	21.53250	00	31	55.99	+03	57	04.9	0.7+	6+	330
1524	1975	02	16.85964	11	57	37.48	-00	43	57.0	0.2-	2+	330

1530	1965	09	18.54854	23	53	09.86	+09	31	09.3	4.9+	34+	330
1530	1965	09	22.57000	23	49	42.05	+09	16	30.0	5.0+	34+	330
1542	1965	01	10.75972	07	36	10.55	+17	37	17.3	1.8+	4-	330
1544	1974	10	23.73669	03	47	37.84	+18	30	07.1	0.1-	0	330
1547	1975	12	01.63926	04	39	43.06	+37	14	52.3	0.0	1+	330
1549	1972	12	01.66183	04	11	48.24	+17	42	37.6	0.0	1+	330
1551	1975	02	12.66809	10	59	33.45	+11	15	27.5	0.0	1-	330
1551	1975	02	16.78464	10	56	11.68	+11	43	22.8	0.0	0	330
1551	1975	04	11.54456	10	17	17.74	+15	40	17.2			330
1555	1965	01	11.88958	09	30	48.67	+15	59	07.3	0.0	0	330
1560	1966	02	16.75670	11	31	29.10	-05	03	00.5	0.1-	2-	330
1576	1965	11	20.78111	04	41	32.90	+20	43	41.7	0.0	0	330
1576	1965	11	25.63574	04	37	26.71	+20	34	50.2	0.0	0	330
1576	1965	11	28.69433	04	34	45.70	+20	29	03.9	0.0	0	330
1576	1965	12	13.55214	04	21	59.49	+20	01	25.5	0.1-	0	330
1576	1965	12	18.57535	04	18	12.11	+19	53	20.1	0.0	0	330
1576	1965	12	24.58450	04	14	18.23	+19	45	16.7	0.0	1-	330
1576	1965	12	30.74516	04	11	11.39	+19	39	29.6			330
1578	1965	10	19.56730	00	58	50.96	+05	15	38.8	0.0	0	330
1578	1975	01	09.66028	08	13	13.54	+20	45	10.0	0.0	0	330
1581	1966	03	15.69198	11	58	32.50	+04	11	16.4	0.2-	1+	330
1581	1966	03	16.76698	11	57	44.89	+04	16	51.9	0.2-	1+	330
1581	1966	03	26.59685	11	50	29.71	+05	06	10.9	0.2-	1+	330
1581	1966	04	14.61241	11	38	36.22	+06	16	46.6	0.2-	1+	330
1581	1975	12	02.69277	04	28	16.20	+19	39	08.1	0.0	0	330
1582	1975	11	26.65725	05	41	13.64	+19	25	31.1	0.2+	0	330
1582	1975	12	11.74446	05	28	52.53	+19	48	36.1	0.0	1+	330
1586	1973	01	29.67765	08	03	46.45	+20	08	10.3	0.1+	0	330
1589	1965	08	27.71838	23	14	01.77	-14	35	44.4	0.1+	4-	330
1596	1965	01	01.74861	07	21	05.24	+09	07	34.0	0.0	0	330
1596	1965	01	10.69514	07	12	35.05	+08	47	20.3	0.1-	1+	330
1602	1965	10	19.72494	03	21	20.40	+14	21	48.9	0.2+	1+	330
1602	1965	10	23.73066	03	18	01.91	+14	12	31.0	0.2+	1+	330
1602	1965	11	20.68076	02	48	35.57	+12	58	49.8	0.1-	0	330
1602	1965	11	23.57368	02	45	38.82	+12	52	51.4	0.0	0	330
1602	1965	11	26.63123	02	42	41.90	+12	47	26.5	0.0	0	330
1602	1965	11	30.74994	02	39	04.22	+12	41	49.9	0.1-	1+	330
1602	1965	12	11.45398	02	31	52.25	+12	38	01.1			330
1603	1965	03	04.74792	12	40	35.24	+05	55	03.2	0.2-	0	330
1605	1965	11	25.69025	05	27	27.79	+07	26	45.3	1.4-	1+	330
1615	1965	11	20.82903	05	13	39.35	+20	22	30.2	0.0	1+	330
1615	1965	11	23.68826	05	11	27.58	+20	19	12.9	0.0	0	330
1615	1965	12	20.64796	04	48	08.93	+19	49	55.7	0.1-	0	330
1615	1965	12	31.74103	04	40	31.11	+19	43	37.2	0.1-	0	330
1616	1977	11	12.57364	01	47	22.25	+07	59	28.6	0.0	0	330
1622	1975	01	17.68073	08	24	23.35	+29	13	48.2	0.0	0	330
1628	1965	09	20.71935	01	06	24.52	+02	15	33.0	0.3-	0	330
1633	1977	10	10.67163	02	25	43.48	+10	35	55.6	0.2+	1+	330
1633	1977	10	21.83031	02	17	55.38	+09	53	35.7	0.1+	1+	330
1633	1977	11	03.64246	02	08	15.31	+09	04	15.1	0.0	0	330
1633	1977	11	12.57364	02	01	47.42	+08	33	14.7	0.0	0	330
1636	1965	09	22.61861	00	32	00.02	+00	55	19.1	0.4+	1+	330
1636	1965	10	17.61109	00	11	53.02	-02	34	22.1	0.3+	2+	330
1636	1972	11	16.83603	05	26	22.38	+14	55	41.5	1.0+	0	330
1636	1972	11	28.61777	05	16	23.44	+14	21	09.2	0.8+	1+	330
1643	1975	12	23.59817	05	05	15.12	+25	31	19.1	0.1-	0	330
1645	1965	07	28.64840	21	09	01.19	-15	15	54.1	0.1-	1+	330
1648	1965	08	27.69095	22	35	49.77	-12	58	37.8	0.0	1-	330
1650	1966	02	14.79873	10	39	21.90	+05	01	42.8	0.1+	0	330

1650	1966	02	25.83162	10	29	21.66	+06	07	39.6	0.0	0	330
1650	1966	03	16.71663	10	12	32.85	+08	07	30.0	0.1-	0	330
1662	1975	01	12.68811	09	55	56.56	+14	27	09.1	0.0	0	330
1662	1975	01	16.72859	09	53	23.46	+14	36	30.1	0.0	0	330
1662	1975	02	12.55003	09	30	02.88	+15	58	00.0	0.1-	1-	330
1665	1975	04	03.63267	11	18	58.18	+24	05	42.2	0.1-	0	330
1670	1974	12	18.55263	03	09	52.13	+18	48	04.3	0.2-	1-	330
1670	1974	12	20.65000	03	08	47.77	+18	51	45.5	0.2-	1-	330
1672	1974	12	19.70337	07	39	48.97	+19	50	31.7	0.2+	0	330
1672	1975	01	10.70269	07	22	06.25	+20	28	59.3	0.3+	0	330
1672	1975	01	16.63900	07	16	55.07	+20	40	34.4	0.3+	1-	330
1674	1966	01	28.86356	10	02	09.28	+15	04	41.8			330
1674	1966	02	14.61470	09	49	19.52	+16	26	16.9			330
1674	1966	02	25.67745	09	40	39.23	+17	14	20.3			330
1674	1977	01	10.58958	07	26	13.62	+22	59	33.0	0.4+	0	330
1687	1973	01	30.66870	10	09	26.90	+14	30	50.6	0.1-	0	330
1691	1974	12	19.70337	07	51	41.94	+19	32	27.7	0.1-	0	330
1701	1965	10	19.61869	01	32	16.88	-08	25	27.6			330
1701	1965	10	23.63170	01	28	44.74	-08	22	50.8			330
1701	1977	12	12.53297	04	16	07.80	+24	56	31.1	0.1-	0	330
1707	1972	11	28.70735	06	45	41.36	+30	34	21.5	0.0	1-	330
1707	1972	12	03.64816	06	42	23.32	+30	51	52.9	0.1+	0	330
1725	1975	11	23.53493	03	29	13.26	+14	26	10.4	0.0	0	330
1728	1966	01	01.88097	08	18	56.44	+10	26	25.3			330
1728	1966	01	21.61634	08	00	37.89	+10	44	35.8			330
1728	1966	02	13.58553	07	40	42.41	+11	40	45.7			330
1728	1966	02	18.52263	07	37	39.39	+11	54	32.3			330
1731	1977	11	04.51886	01	32	28.26	+01	51	55.2	0.6+	3+	330
1742	1964	11	11.74583	04	20	43.86	+17	35	26.0			330
1742	1964	11	27.61632	04	06	39.16	+16	56	12.1			330
1742	1964	12	25.55972	03	45	59.77	+16	13	00.6			330
1742	1966	02	14.69664	10	17	18.92	+10	30	12.1			330
1742	1966	02	24.72677	10	09	12.41	+11	22	36.8			330
1742	1966	03	16.59788	09	54	56.06	+12	53	09.0			330
1742	1974	12	14.60506	05	24	19.64	+19	34	58.2	0.1-	0	330
1745	1975	12	01.57676	03	48	05.17	+18	32	09.1	0.1-	0	330
1748	1975	12	22.52903	05	28	56.91	+20	24	17.6	0.1-	0	330
1749	1974	11	18.64286	01	41	38.18	+17	01	29.7	0.1+	1+	330
1749	1975	12	24.63293	04	29	18.68	+29	26	30.8	0.3+	1+	330
1761	1977	12	08.55438	04	34	53.74	+21	57	51.0	0.6+	0	330
1768	1965	09	22.61861	00	32	26.68	+02	26	32.3			330
1768	1965	10	17.61109	00	10	49.45	+01	13	55.9			330
1768	1965	10	24.59417	00	06	27.89	+01	02	45.4			330
1777	1975	01	16.81470	10	14	10.04	+12	21	55.7	0.1-	0	330
1777	1975	01	22.86594	10	10	41.38	+12	35	50.3	0.0	1+	330
1777	1975	02	12.60559	09	53	25.99	+13	45	06.5	0.1-	0	330
1778	1975	05	06.56299	14	03	56.69	-08	43	23.8	0.1-	1-	330
1790	1965	09	22.61861	00	19	15.71	+02	14	08.9			330
1790	1965	09	23.55677	00	18	18.03	+02	10	11.7			330
1790	1965	10	17.58157	23	54	49.13	+00	35	23.9			330
1790	1965	10	20.48566	23	52	34.06	+00	26	59.4			330
1790	1965	10	24.59417	23	49	44.50	+00	16	58.5			330
1801	1975	01	16.57095	05	47	22.95	+28	46	00.2			330
1801	1975	01	18.63441	05	45	58.84	+28	50	22.5			330
1810	1977	12	08.60508	05	33	19.47	+22	28	22.7	0.3+	0	330
1810	1977	12	12.59270	05	28	48.50	+22	12	47.2	0.3+	0	330
1811	1977	11	04.51886	01	43	45.23	+02	02	51.7	0.1+	1+	330
1824	1966	02	14.61470	10	06	31.21	+13	59	56.4			330
1824	1966	02	25.67745	09	57	01.87	+14	44	59.3			330

1824	1966	03	16.53399	09	43	34.11	+15	39	18.9				330
1858	1966	02	14.79873	10	40	25.23	+05	59	14.1				330
1888	1972	11	16.80922	02	41	35.49	+18	39	57.1				330
1888	1972	11	24.47560	02	35	07.58	+17	44	42.0				330
1888	1972	11	28.49624	02	32	10.72	+17	16	59.4				330
1888	1972	12	03.57733	02	29	00.07	+16	44	03.0				330
1888	1972	12	08.68596	02	26	36.59	+16	15	12.6				330
1902	1975	12	23.59817	05	03	33.69	+28	54	30.8				330
1907	1966	02	16.60323	08	57	47.84	+15	53	41.7				330
1907	1966	02	24.62434	08	51	19.18	+16	32	49.9				330
1939	1965	12	30.90002	08	17	24.75	+20	58	16.6				330
1939	1966	01	20.57461	08	00	41.34	+21	52	16.5				330
1939	1966	01	28.76565	07	53	37.71	+22	11	42.9				330
1939	1966	02	13.63553	07	41	46.37	+22	39	44.9				330
1939	1966	02	16.55323	07	40	02.10	+22	43	21.2				330
1947	1977	10	12.64875	02	34	34.82	-00	15	12.2	0.0	0		330
1952	1965	11	20.87556	05	53	56.96	+23	08	04.7				330
1952	1965	11	23.71639	05	52	01.83	+23	23	06.1				330
1952	1965	12	30.79620	05	17	30.72	+26	25	07.8				330
1952	1976	12	14.62406	06	19	06.46	+27	54	40.9	0.0	2+		330
1961	1975	01	17.68073	08	31	53.31	+29	08	01.3				330
1965	1966	01	30.81775	09	42	49.86	+16	42	54.3				330
1965	1966	02	14.59525	09	28	55.25	+18	01	09.3				330
1965	1966	02	24.67625	09	19	55.25	+18	45	05.9				330
1972	1975	10	31.58408	00	37	31.58	+00	42	51.0				330
1976	1966	02	16.69871	10	46	41.74	+11	46	37.6				330
2004	1965	01	11.86181	09	36	06.44	+18	14	42.6				330
2004	1965	02	02.68854	09	14	36.40	+19	45	59.2				330
2004	1965	02	23.67986	08	52	27.10	+20	45	36.0				330
2004	1965	03	05.67847	08	45	40.29	+20	51	34.6				330
2007	1965	01	11.88958	09	34	12.82	+19	26	51.8				330
2007	1965	02	02.68854	09	15	09.49	+20	59	51.9				330
2007	1965	02	11.84514	09	05	18.96	+21	33	53.6				330
2007	1965	03	05.67847	08	46	41.71	+22	08	54.9				330
2012	1975	11	26.58086	04	37	38.00	+24	28	32.4				330
2012	1975	11	29.53647	04	34	11.62	+24	18	36.6				330
2040	1977	10	12.55778	01	35	39.01	+02	44	58.4				330
2040	1977	11	03.58413	01	16	27.44	+02	24	48.9				330
2040	1977	11	04.57095	01	15	40.61	+02	24	52.1				330
2040	1977	11	08.55436	01	12	39.37	+02	25	57.4				330
2040	1977	11	11.53614	01	10	33.36	+02	27	56.6				330
2041	1977	10	12.55778	01	27	50.23	+04	25	42.9				330
2041	1977	11	03.58413	01	12	15.99	+02	49	19.4				330
2041	1977	11	04.57095	01	11	41.27	+02	46	15.1				330
2041	1977	11	08.55436	01	09	31.31	+02	35	19.2				330
2041	1977	11	11.53614	01	08	06.18	+02	28	46.8				330
2058	1966	01	28.86356	10	02	45.16	+14	43	25.7				330
2058	1966	02	14.64248	09	50	15.85	+15	58	56.5				330
2058	1966	02	25.67745	09	41	37.59	+16	45	40.9				330
2065	1977	10	04.64443	01	17	24.55	+18	15	21.3				330
2086	1966	02	16.55323	07	36	34.30	+20	05	52.5				330
2087	1965	11	26.78470	03	17	51.02	+16	03	02.5				330
2087	1965	11	30.80133	03	13	57.29	+15	53	24.0				330
2087	1965	12	13.49242	03	04	21.80	+15	33	53.6				330
2087	1976	01	05.54799	05	20	15.62	+22	54	49.9				330
2089	1975	04	03.63267	11	20	20.18	+27	07	20.3				330
2092	1966	01	28.76565	07	54	31.27	+24	19	29.6				330
2092	1966	02	13.63553	07	41	57.98	+24	52	22.8				330
2115	1975	11	24.52667	02	36	26.31	+18	22	39.4				330

2118		1976	02	01.63623	09	52	07.13	+15	27	11.1	330	
2123		1966	02	13.74039	10	25	46.40	+09	18	45.1	330	
2123		1966	02	14.69664	10	24	59.69	+09	22	55.3	330	
2123		1966	02	24.72677	10	16	39.26	+10	07	40.1	330	
2123		1966	02	25.77051	10	15	47.45	+10	12	19.7	330	
2123		1975	01	04.58257	06	10	02.98	+24	20	27.4	330	
2123		1975	01	16.57095	05	59	55.06	+24	16	57.2	330	
2123		1975	01	17.61476	05	59	09.16	+24	16	30.3	330	
2123		1975	01	18.63441	05	58	26.75	+24	16	01.1	330	
2132		1975	10	31.64103	01	37	09.18	+01	57	33.9	330	
2144		1965	01	11.83958	08	27	17.12	+17	44	28.0	330	
2144		1975	01	16.81470	10	11	12.21	+11	16	59.9	330	
2144		1975	01	22.86594	10	08	01.05	+11	40	31.5	330	
2144		1975	02	12.60559	09	52	40.05	+13	23	49.4	330	
2144		1975	03	07.66553	09	34	41.79	+15	15	19.7	330	
2144		1978	10	29.69333	03	54	33.11	+15	54	59.8	330	
2144		1978	11	03.70326	03	50	54.72	+15	40	29.2	330	
2144		1978	11	26.69715	03	31	05.41	+14	33	22.8	330	
2144		1978	11	30.60061	03	27	48.02	+14	23	57.7	330	
2144		1978	12	05.57908	03	23	53.40	+14	13	26.2	330	
2147		1966	02	24.72677	10	02	57.84	+13	30	13.4	330	
2153		1972	12	13.83044	06	39	02.82	+24	28	37.0	330	
2155		1965	09	21.69850	01	24	36.48	+07	03	01.2	330	
1964	TR2	*	1964	10	08.71806	01	04	29.18	+06	28	02.3	330
1964	TR2		1964	10	30.67917	00	44	53.60	+05	19	33.7	330
1964	TR2		1964	11	01.60911	00	43	41.17	+05	16	04.8	330
1964	TR2		1964	11	09.62708	00	39	54.42	+05	08	04.6	330
1964	TS2	*	1964	10	08.71806	01	07	11.36	+06	36	00.2	330
1964	TS2		1964	10	30.67917	00	50	47.89	+03	36	47.3	330
1964	TS2		1964	11	01.59175	00	49	48.09	+03	24	37.6	330
1964	TT2	*	1964	10	08.71806	01	10	39.64	+05	55	01.2	330
1964	TT2		1964	10	30.67917	00	52	54.45	+04	53	11.9	330
1964	TT2		1964	11	09.62708	00	48	02.18	+04	43	20.3	330
1964	TU2	*	1964	10	09.65069	00	59	32.16	+14	22	08.8	330
1964	TU2		1964	10	30.60000	00	41	13.34	+13	16	08.9	330
1964	TU2		1964	11	09.57569	00	36	33.38	+12	46	52.2	330
1964	TV2	*	1964	10	09.65069	01	07	27.51	+14	30	53.7	330
1964	TV2		1964	10	30.60000	00	52	55.40	+12	28	54.9	330
1964	TV2		1964	11	09.59306	00	48	01.52	+11	33	51.8	330
1964	TV2		1964	11	30.51181	00	44	49.11	+10	14	29.0	330
1964	TV2		1964	12	03.50903	00	45	11.82	+10	08	10.9	330
1964	TV2		1966	01	01.78653	07	51	04.88	+16	37	38.7	330
1964	TV2		1966	01	16.67986	07	38	24.01	+16	50	13.6	330
1964	TV2		1966	01	19.66142	07	35	50.12	+16	53	28.1	330
1964	VZ2	*	1964	11	11.71806	04	07	52.03	+19	44	43.2	330
1964	VZ2		1964	11	27.61632	03	54	06.36	+19	31	04.2	330
1964	VZ2		1964	12	03.67431	03	48	52.14	+19	25	40.6	330
1964	VA3	*	1964	11	11.71806	04	09	14.83	+19	36	22.1	330
1964	VA3		1964	11	27.61632	03	56	28.82	+18	59	24.1	330
1964	VA3		1964	12	03.67431	03	51	40.18	+18	45	05.2	330
1965	AC	*	1965	01	01.66042	06	44	57.59	+24	38	18.6	330
1965	AD	*	1965	01	01.66042	06	47	43.58	+26	31	36.7	330
1965	AE	*	1965	01	01.66042	06	54	17.29	+25	30	38.7	330
1965	AF	*	1965	01	01.66042	06	58	14.15	+26	18	16.8	330
1965	AG	*	1965	01	01.66042	06	58	49.16	+27	13	41.1	330
1965	AH	*	1965	01	01.68820	06	39	45.19	+23	20	33.0	330
1965	AJ	*	1965	01	01.68820	06	46	09.13	+24	28	09.0	330
1965	AK	*	1965	01	01.68820	06	55	34.82	+23	43	41.0	330
1965	AK		1965	01	11.76111	06	46	25.71	+23	54	55.2	330

1965 AL *	1965 01	01.68820	06 57	29.47	+24 26	38.7	330
1965 AL	1965 01	11.76111	06 47	46.87	+24 51	02.6	330
1965 AM *	1965 01	01.72083	07 05	49.99	+07 58	10.4	330
1965 AN *	1965 01	01.72083	07 19	50.29	+09 04	40.9	330
1965 AN	1965 01	10.68472	07 11	37.28	+08 53	07.9	330
1965 AO *	1965 01	01.72083	07 24	00.27	+11 37	31.8	330
1965 AP *	1965 01	01.74861	07 24	42.40	+10 48	28.9	330
1965 AQ *	1965 01	08.64653	06 47	28.24	+26 48	59.9	330
1965 AR *	1965 01	08.67847	06 50	13.88	+20 15	53.3	330
1965 AS *	1965 01	08.70625	06 48	41.05	+18 31	22.8	330
1965 AT *	1965 01	08.77708	07 54	08.80	+13 56	29.1	330
1965 AU *	1965 01	08.80486	07 41	00.32	+10 12	31.9	330
1965 AV *	1965 01	08.80486	07 51	07.53	+09 59	53.4	330
1965 AW *	1965 01	09.75208	07 30	52.38	+22 09	01.8	330
1965 AX *	1965 01	09.75208	07 35	23.01	+22 24	43.8	330
1965 AY *	1965 01	10.75972	07 34	20.85	+20 57	14.5	330
1965 AZ *	1965 01	10.75972	07 45	00.51	+20 42	29.1	330
1965 AA1 *	1965 01	10.75972	07 49	56.12	+21 48	44.4	330
1965 AB1 *	1965 01	10.75972	07 50	39.12	+21 31	21.3	330
1965 AC1 *	1965 01	11.81111	08 17	10.81	+17 03	40.1	330
1965 AC1	1965 01	26.60417	08 03	51.03	+17 01	31.3	330
1965 AD1 *	1965 01	11.81111	08 28	20.57	+17 03	23.2	330
1965 AE1 *	1965 01	11.81111	08 31	36.74	+16 03	14.2	330
1965 AF1 *	1965 01	11.81111	08 38	16.06	+18 28	21.6	330
1965 AG1 *	1965 01	11.83958	08 20	36.18	+18 56	41.9	330
1965 AH1 *	1965 01	11.86181	09 26	39.04	+17 52	48.4	330
1965 AJ1 *	1965 01	11.86181	09 30	53.35	+16 47	36.0	330
1965 AK1 *	1965 01	11.88958	09 27	27.53	+18 16	56.6	330
1965 AK1	1965 02	02.68854	09 12	45.57	+21 44	44.3	330
1965 AK1	1965 03	04.60556	08 51	58.80	+25 40	09.7	330
1965 AL1 *	1965 01	12.83611	08 50	07.46	+23 07	41.3	330
1965 AM1 *	1965 01	12.88472	09 48	51.81	+10 16	24.7	330
1965 BC	1965 01	01.74861	07 08	45.93	+08 23	58.7	330
1965 BC	1965 01	10.68472	07 01	46.33	+08 27	47.8	330
1965 BD *	1965 01	26.60417	08 03	23.15	+17 13	57.0	330
1965 CG *	1965 02	02.73958	10 28	35.50	+10 38	23.7	330
1965 CH *	1965 02	02.73958	10 34	08.54	+09 41	49.6	330
1965 CJ *	1965 02	11.80556	07 56	30.79	+13 43	22.4	330
1965 DA *	1965 02	23.55417	07 40	22.41	+14 46	39.1	330
1965 DB *	1965 02	23.70347	11 28	36.62	-09 43	25.1	330
1965 DC *	1965 02	25.72566	10 08	49.89	+15 04	40.9	330
1965 DC	1965 03	04.67222	10 03	39.05	+15 36	31.6	330
1965 DD *	1965 02	25.72566	10 10	41.55	+14 40	05.7	330
1965 DD	1965 03	04.67222	10 04	47.12	+14 46	32.4	330
1965 DE *	1965 02	25.72566	10 10	48.68	+13 00	39.3	330
1965 EA *	1965 03	04.60556	08 50	03.23	+25 13	07.7	330
1965 OJ *	1965 07	28.64840	21 12	51.79	-16 05	21.3	330
1965 QE *	1965 08	27.61977	22 19	37.57	-05 18	00.5	330
1965 SN *	1965 09	18.63674	01 32	25.16	+12 21	35.5	330
1965 SN	1965 10	16.59375	01 07	24.69	+10 27	27.6	330
1965 SN	1965 10	20.57073	01 03	25.67	+10 05	14.6	330
1965 SN	1965 10	24.64556	00 59	31.69	+09 42	33.0	330
1965 SO *	1965 09	20.71935	01 00	24.34	+02 52	36.5	330
1965 SO	1965 09	23.63663	00 57	55.49	+02 41	18.2	330
1965 SO	1965 10	18.56383	00 35	19.24	+01 09	24.5	330
1965 SO	1965 10	21.53250	00 33	03.01	+01 02	09.5	330
1965 SP *	1965 09	20.71935	01 00	55.56	+05 42	46.4	330
1965 SP	1965 09	23.60886	00 59	12.24	+05 19	49.1	330
1965 SP	1965 10	18.56383	00 42	32.34	+01 51	53.4	330

1965 SP		1965 10	21.53250	00 40	43.15	+01 29	13.3	330
1965 SQ	*	1965 09	20.71935	01 11	00.30	+03 04	21.4	330
1965 SR	*	1965 09	21.57940	23 17	28.89	-08 35	31.2	330
1965 SS	*	1965 09	21.62627	00 12	46.07	-08 15	44.1	330
1965 ST	*	1965 09	22.61861	00 14	35.65	+01 48	24.0	330
1965 SU	*	1965 09	22.61861	00 16	40.12	+00 43	40.2	330
1965 SU		1965 09	23.58524	00 15	44.21	+00 37	22.0	330
1965 SU		1965 10	17.61109	23 53	55.35	-01 46	46.3	330
1965 SU		1965 10	20.48566	23 51	58.78	-01 59	05.2	330
1965 SU		1965 10	24.59417	23 49	35.81	-02 13	52.1	330
1965 SV	*	1965 09	22.61861	00 24	01.85	+01 51	09.7	330
1965 SV		1965 09	23.58524	00 23	13.07	+01 42	08.6	330
1965 SV		1965 10	17.61109	00 03	31.82	-01 55	49.4	330
1965 SV		1965 10	20.48566	00 01	45.04	-02 16	47.9	330
1965 SV		1965 10	24.59417	23 59	34.94	-02 43	21.8	330
1965 SW	*	1965 09	22.61861	00 28	34.05	+02 52	50.7	330
1965 SX	*	1965 09	23.60886	00 45	55.86	+06 44	57.9	330
1965 SY	*	1965 09	23.63663	00 48	35.97	+04 08	56.6	330
1965 UW	*	1965 10	16.52778	23 07	20.09	-08 58	07.6	330
1965 UX	*	1965 10	16.52778	23 12	02.09	-09 16	45.4	330
1965 UY	*	1965 10	16.59375	00 59	16.14	+09 45	41.9	330
1965 UY		1965 10	20.57073	00 56	34.99	+09 10	30.5	330
1965 UZ	*	1965 10	16.59375	01 02	20.95	+10 30	01.1	330
1965 UZ		1965 10	20.57073	00 58	55.04	+10 10	22.3	330
1965 UZ		1965 10	24.64556	00 55	33.86	+09 50	19.9	330
1965 UA1	*	1965 10	16.59375	01 03	14.74	+10 25	47.0	330
1965 UA1		1965 10	20.57073	00 59	43.74	+10 03	44.3	330
1965 UA1		1965 10	24.64556	00 56	18.54	+09 41	19.1	330
1965 UB1	*	1965 10	16.59375	01 05	06.78	+09 55	18.2	330
1965 UB1		1965 10	20.57073	01 00	57.38	+10 04	00.1	330
1965 UB1		1965 10	24.64556	00 56	57.34	+10 12	40.3	330
1965 UC1	*	1965 10	16.59375	01 10	06.84	+07 42	26.6	330
1965 UC1		1965 10	20.57073	01 06	10.12	+07 34	03.3	330
1965 UC1		1965 10	24.64556	01 02	22.85	+07 26	19.8	330
1965 UD1	*	1965 10	16.59375	01 13	52.63	+12 30	33.7	330
1965 UD1		1965 10	20.57073	01 10	15.35	+12 18	40.6	330
1965 UD1		1965 10	24.64556	01 06	13.69	+12 00	39.5	330
1965 UE1	*	1965 10	17.58157	00 03	12.07	-00 27	00.3	330
1965 UE1		1965 10	20.48566	00 01	29.86	-00 36	53.6	330
1965 UE1		1965 10	24.59417	23 59	16.13	-00 49	25.0	330
1965 UF1	*	1965 10	17.61109	00 09	26.61	+01 24	16.9	330
1965 UF1		1965 10	20.48566	00 07	32.23	+01 15	44.2	330
1965 UF1		1965 10	24.59417	00 05	01.46	+01 04	03.0	330
1965 UG1	*	1965 10	17.61109	23 52	47.31	-01 47	41.1	330
1965 UG1		1965 10	20.48566	23 51	18.67	-01 55	05.4	330
1965 UG1		1965 10	24.59417	23 49	28.53	-02 03	51.6	330
1965 UH1	*	1965 10	18.56383	00 37	54.93	+03 54	16.8	330
1965 UH1		1965 10	21.53250	00 36	24.20	+03 27	34.1	330
1965 UJ1	*	1965 10	18.56383	00 39	32.59	+02 41	51.4	330
1965 UJ1		1965 10	21.53250	00 37	12.67	+02 32	27.5	330
1965 UK1	*	1965 10	18.61661	01 17	00.16	+03 25	46.4	330
1965 UL1	*	1965 10	18.61661	01 18	32.85	+03 38	38.5	330
1965 UL1		1965 10	23.59385	01 14	52.11	+03 19	28.2	330
1965 UM1	*	1965 10	18.61661	01 25	22.06	+03 53	30.0	330
1965 UM1		1965 10	23.59385	01 21	28.14	+03 04	18.8	330
1965 UN1	*	1965 10	18.66904	02 18	58.27	+06 49	28.4	330
1965 UN1		1965 10	21.65090	02 16	12.56	+06 35	34.6	330
1965 UO1	*	1965 10	18.66904	02 22	42.42	+04 36	43.1	330
1965 UO1		1965 10	21.65090	02 19	57.56	+04 24	33.4	330



1965 UO1	1965 11	20.63180	01 54	06.35	+03 40	08.4	330
1965 UO1	1965 11	25.53470	01 51	46.10	+03 51	21.1	330
1965 UO1	1965 11	30.69091	01 50	12.01	+04 09	00.7	330
1965 UP1 *	1965 10	18.66904	02 31	18.00	+04 59	18.6	330
1965 UP1	1965 10	23.70913	02 27	17.41	+04 30	56.7	330
1965 UP1	1965 11	25.53470	02 02	40.12	+02 32	27.0	330
1965 UQ1 *	1965 10	19.56730	00 46	49.59	+04 02	24.9	330
1965 UR1 *	1965 10	19.56730	00 52	39.07	+04 36	48.2	330
1965 US1 *	1965 10	19.56730	01 02	43.94	+05 15	40.7	330
1965 UT1 *	1965 10	19.56730	01 02	58.38	+01 55	46.1	330
1965 UT1	1965 10	23.54594	00 59	52.15	+01 40	59.9	330
1965 UU1 *	1965 10	19.72494	03 21	11.03	+13 22	34.7	330
1965 UU1	1965 10	23.75844	03 17	43.01	+13 41	32.6	330
1965 UU1	1965 11	20.68076	02 46	59.94	+15 55	06.7	330
1965 UU1	1965 11	23.57368	02 43	58.22	+16 09	12.0	330
1965 UU1	1965 11	26.63123	02 40	57.47	+16 24	14.0	330
1965 UU1	1965 11	30.74994	02 37	16.28	+16 44	52.2	330
1965 UV1 *	1965 10	20.57073	01 11	19.73	+07 29	54.1	330
1965 UV1	1965 10	24.64556	01 05	05.32	+08 09	15.8	330
1965 UW1 *	1965 10	20.64538	02 42	33.99	+00 21	46.4	330
1965 UX1 *	1965 10	20.64538	02 49	20.04	-01 14	30.0	330
1965 UY1 *	1965 10	20.72698	03 08	50.77	+20 10	24.9	330
1965 UZ1 *	1965 10	20.72698	03 18	11.58	+21 44	35.3	330
1965 UA2 *	1965 10	20.72698	03 18	15.55	+21 03	03.0	330
1965 UB2 *	1965 10	21.59812	01 01	44.31	-02 50	29.4	330
1965 UC2 *	1965 10	21.65090	02 08	56.96	+04 42	13.4	330
1965 UD2 *	1965 10	24.69903	03 38	52.30	+14 23	26.6	330
1965 UD2	1965 11	20.73111	03 14	39.96	+13 39	08.1	330
1965 UD2	1965 11	23.62125	03 11	46.52	+13 36	11.1	330
1965 UD2	1965 11	26.78470	03 08	42.39	+13 33	56.9	330
1965 UD2	1965 11	30.80133	03 05	05.87	+13 32	46.9	330
1965 UD2	1965 12	13.49242	02 56	39.76	+13 44	33.9	330
1965 UE2 *	1965 10	24.69903	03 43	10.18	+14 17	24.2	330
1965 WJ	1965 12	13.55214	04 25	27.28	+19 20	32.1	330
1965 WJ	1965 12	18.57535	04 21	05.29	+19 42	16.8	330
1965 WJ	1965 12	24.58450	04 16	30.02	+20 08	52.1	330
1965 WJ	1965 12	30.74516	04 12	43.23	+20 36	59.8	330
1965 WP *	1965 11	20.73111	03 14	08.11	+12 48	12.1	330
1965 WQ *	1965 11	20.78111	04 40	11.43	+23 28	00.9	330
1965 WQ	1965 11	25.63574	04 35	33.33	+23 06	43.2	330
1965 WQ	1965 11	28.69433	04 32	27.09	+22 52	15.9	330
1965 WQ	1965 12	13.55214	04 17	21.80	+21 35	32.8	330
1965 WQ	1965 12	18.57535	04 12	56.19	+21 09	47.7	330
1965 WR *	1965 11	21.73453	04 45	27.14	+24 24	06.9	330
1965 WR	1965 11	25.58991	04 41	43.70	+23 51	08.4	330
1965 WR	1965 11	25.63574	04 41	40.66	+23 50	45.1	330
1965 WR	1965 11	28.69433	04 38	38.19	+23 23	51.6	330
1965 WR	1965 12	13.55214	04 24	23.75	+21 11	06.1	330
1965 WR	1965 12	18.57535	04 20	18.24	+20 28	25.9	330
1965 WR	1965 12	24.58450	04 16	13.61	+19 41	09.9	330
1965 WS *	1965 11	26.78470	03 12	39.74	+14 47	33.8	330
1965 WT *	1965 11	26.78470	03 23	15.22	+13 49	42.7	330
1965 WU *	1965 11	28.64190	04 22	18.91	+01 41	07.5	330
1965 WV *	1965 11	28.64190	04 27	29.06	+02 33	49.7	330
1965 XC *	1965 12	13.49242	03 04	02.91	+15 48	14.5	330
1965 XC	1965 12	18.51979	03 02	10.32	+15 39	49.6	330
1965 YB *	1965 12	19.68890	05 15	49.85	+20 50	32.0	330
1965 YC *	1965 12	19.68890	05 21	37.09	+21 19	00.0	330
1965 YC	1965 12	31.78929	05 09	29.43	+20 45	27.0	330

1965 YD	*	1965 12	19.68890	05 26	48.85	+22 38	40.0	330
1965 YD		1965 12	30.76843	05 17	34.11	+22 31	19.5	330
1965 YE	*	1965 12	19.68890	05 34	33.94	+19 14	05.9	330
1965 YF	*	1965 12	20.70317	06 12	46.14	+23 03	39.2	330
1965 YF		1965 12	24.66263	06 08	12.75	+23 20	23.9	330
1965 YG	*	1965 12	20.76359	07 02	43.09	+22 11	53.7	330
1965 YG		1966 01	16.63194	06 35	14.83	+23 09	58.5	330
1965 YG		1966 01	28.71322	06 26	46.44	+23 27	05.0	330
1965 YH	*	1965 12	20.76359	07 09	54.44	+20 13	59.6	330
1965 YJ	*	1965 12	24.55152	04 31	02.97	+21 35	59.7	330
1965 YJ		1965 12	30.74516	04 26	46.67	+21 38	24.4	330
1965 YK	*	1965 12	24.69214	06 15	32.75	+28 04	48.2	330
1965 YL	*	1965 12	30.79620	05 07	16.31	+26 15	07.2	330
1965 YM	*	1965 12	30.79620	05 12	20.45	+23 36	16.7	330
1965 YM		1966 01	16.52361	05 02	32.09	+22 28	25.9	330
1965 YN	*	1965 12	30.90002	08 09	21.11	+23 21	05.6	330
1965 YN		1966 01	20.57461	07 51	55.52	+24 25	26.7	330
1965 YN		1966 01	28.76565	07 44	48.72	+24 45	08.2	330
1966 AA	*	1966 01	01.88097	08 25	32.86	+12 20	50.9	330
1966 AA		1966 02	13.58553	07 43	58.65	+10 06	51.2	330
1966 AA		1966 02	18.52263	07 40	59.42	+10 01	22.3	330
1966 BF	*	1966 01	16.52361	04 54	51.25	+25 09	16.2	330
1966 BG	*	1966 01	16.52361	05 04	56.27	+26 42	53.5	330
1966 BH	*	1966 01	16.52361	05 07	03.53	+22 21	40.6	330
1966 BJ	*	1966 01	16.58194	05 45	38.19	+23 42	16.8	330
1966 BK	*	1966 01	16.58194	05 51	25.62	+25 52	54.4	330
1966 BK		1966 01	28.65697	05 45	55.53	+24 51	47.1	330
1966 BL	*	1966 01	20.57461	08 01	55.76	+20 50	59.0	330
1966 BL		1966 01	28.76565	07 53	42.69	+20 42	54.4	330
1966 BL		1966 02	13.63553	07 40	54.41	+20 19	07.4	330
1966 BL		1966 02	16.55323	07 39	15.16	+20 13	32.2	330
1966 BM	*	1966 01	20.57461	08 02	39.70	+20 41	28.0	330
1966 BM		1966 01	28.76565	07 53	13.14	+20 14	46.0	330
1966 BN	*	1966 01	20.57461	08 02	42.40	+23 28	50.8	330
1966 BO	*	1966 01	20.62113	08 03	40.03	+14 56	26.3	330
1966 BO		1966 01	28.81218	07 55	37.61	+15 53	14.7	330
1966 BO		1966 02	14.54560	07 41	47.64	+17 49	15.7	330
1966 BO		1966 02	24.53094	07 36	55.49	+18 50	23.9	330
1966 BP	*	1966 01	21.53370	06 04	55.93	+19 48	49.5	330
1966 BQ	*	1966 01	21.70870	08 11	37.72	+23 23	48.9	330
1966 BR	*	1966 01	21.70870	08 13	38.85	+22 33	34.1	330
1966 BS	*	1966 01	21.70870	08 20	29.27	+21 08	14.3	330
1966 BT	*	1966 01	21.70870	08 21	08.28	+21 19	09.7	330
1966 BU	*	1966 01	27.90073	10 53	06.46	+09 45	25.6	330
1966 BV	*	1966 01	28.86356	10 01	06.83	+14 47	25.7	330
1966 BW	*	1966 01	30.76984	08 58	23.10	+15 14	02.0	330
1966 BW		1966 02	16.60323	08 44	46.23	+16 12	45.1	330
1966 BW		1966 02	24.62434	08 39	13.64	+16 37	14.5	330
1966 BX	*	1966 01	30.81775	09 42	18.06	+15 10	42.4	330
1966 BY	*	1966 01	30.81775	09 49	43.68	+15 04	23.9	330
1966 BY		1966 02	14.59525	09 34	39.05	+16 32	42.0	330
1966 BZ	*	1966 01	30.81775	09 50	57.42	+13 17	32.8	330
1966 BZ		1966 02	14.59525	09 38	23.82	+14 39	37.0	330
1966 BZ		1966 02	24.67625	09 29	56.40	+15 32	25.1	330
1966 BA1	*	1966 01	30.81775	09 53	41.13	+14 10	48.8	330
1966 BA1		1966 02	14.59525	09 45	29.34	+14 30	38.2	330
1966 BA1		1966 02	14.61470	09 45	28.56	+14 30	40.5	330
1966 BA1		1966 02	25.67745	09 39	19.54	+14 44	18.2	330
1966 BA1		1966 03	16.49927	09 30	26.09	+14 58	35.0	330

1966	CD	*	1966	02	13.63553	07	29	11.03	+24	50	09.0	330
1966	CE	*	1966	02	13.63553	07	40	37.16	+21	12	22.4	330
1966	CE		1966	02	16.55323	07	39	00.14	+21	30	24.3	330
1966	CF	*	1966	02	13.68900	10	05	05.05	+20	57	49.0	330
1966	CF		1966	02	16.65288	10	02	21.80	+21	27	14.3	330
1966	CF		1966	02	25.72398	09	54	03.65	+22	48	14.3	330
1966	CG	*	1966	02	13.74039	10	20	14.39	+10	31	26.6	330
1966	CG		1966	02	14.69664	10	19	30.24	+10	37	28.3	330
1966	CG		1966	02	24.72677	10	10	59.81	+11	20	18.3	330
1966	CH	*	1966	02	13.74039	10	21	39.64	+11	36	26.3	330
1966	CH		1966	02	14.69664	10	20	31.60	+11	35	34.5	330
1966	CJ	*	1966	02	13.74039	10	27	04.95	+11	39	47.7	330
1966	CJ		1966	02	14.74942	10	26	11.55	+11	46	33.5	330
1966	CK	*	1966	02	13.74039	10	29	48.84	+12	24	16.5	330
1966	CK		1966	02	14.74942	10	29	02.93	+12	32	02.5	330
1966	CK		1966	02	25.77051	10	20	07.11	+13	57	58.1	330
1966	CL	*	1966	02	13.74039	10	33	21.53	+11	37	30.4	330
1966	CL		1966	02	14.74942	10	32	29.36	+11	44	35.6	330
1966	CL		1966	02	25.77051	10	22	15.68	+13	03	44.2	330
1966	CM	*	1966	02	13.74039	10	36	31.76	+09	52	48.3	330
1966	CM		1966	02	14.74942	10	35	49.60	+10	04	44.5	330
1966	CM		1966	02	25.77051	10	27	35.20	+12	17	44.6	330
1966	CN	*	1966	02	13.74039	10	38	51.56	+09	20	11.4	330
1966	CN		1966	02	14.74942	10	38	20.98	+09	22	29.3	330
1966	CN		1966	02	16.69871	10	37	20.72	+09	27	01.9	330
1966	CN		1966	02	25.77051	10	32	32.78	+09	48	34.9	330
1966	CO	*	1966	02	14.61470	09	53	35.98	+16	09	17.1	330
1966	CO		1966	02	25.67745	09	42	18.34	+16	39	29.6	330
1966	CP	*	1966	02	14.61470	10	02	39.99	+15	32	30.7	330
1966	CP		1966	02	25.67745	09	53	48.09	+16	25	22.9	330
1966	CQ	*	1966	02	14.61470	10	06	33.29	+14	48	07.2	330
1966	CR	*	1966	02	14.64248	09	53	38.10	+16	39	46.1	330
1966	CR		1966	02	25.67745	09	44	07.08	+18	02	40.5	330
1966	CS	*	1966	02	14.69664	10	08	38.15	+10	05	03.1	330
1966	CT	*	1966	02	14.69664	10	10	19.03	+12	20	01.4	330
1966	CU	*	1966	02	14.69664	10	15	14.32	+10	31	07.8	330
1966	CV	*	1966	02	14.79873	10	33	49.58	+05	52	43.1	330
1966	CW	*	1966	02	14.79873	10	33	57.20	+06	12	25.9	330
1966	CX	*	1966	02	14.79873	10	38	55.57	+03	27	41.7	330
1966	CY	*	1966	02	14.79873	10	41	58.40	+02	43	32.3	330
1966	CZ	*	1966	02	14.79873	10	48	28.78	+07	24	34.6	330
1966	DD		1966	01	30.76984	09	05	44.83	+14	48	54.2	330
1966	DD		1966	02	16.60323	08	50	12.35	+15	41	49.6	330
1966	DD		1966	02	24.62434	08	44	04.34	+16	02	42.7	330
1966	DH		1966	01	28.86356	10	11	11.95	+15	39	02.7	330
1966	DH		1966	02	14.61470	09	56	19.15	+16	23	04.3	330
1966	DH		1966	02	25.67745	09	45	55.37	+16	46	22.1	330
1966	DJ		1966	01	30.81775	09	53	23.46	+16	51	19.1	330
1966	DJ		1966	02	14.59525	09	38	16.48	+17	32	30.6	330
1966	DJ		1966	02	24.67625	09	27	45.81	+17	52	07.2	330
1966	DP		1966	02	16.75670	11	26	57.87	-03	02	32.6	330
1966	DR	*	1966	02	16.55323	07	32	58.93	+18	38	12.2	330
1966	DS	*	1966	02	16.55323	07	44	08.26	+20	02	13.6	330
1966	DT	*	1966	02	24.72677	10	07	02.56	+11	04	08.8	330
1966	EA	*	1966	03	15.75170	12	34	57.48	+17	42	34.7	330
1966	FJ	*	1966	03	16.49927	09	30	52.34	+17	00	32.9	330
1966	FK	*	1966	03	16.53399	09	29	29.62	+18	07	18.7	330
1966	FL	*	1966	03	16.53399	09	31	52.72	+16	58	55.9	330
1966	FM	*	1966	03	16.71663	10	17	23.41	+03	53	25.9	330

1966	FN	*	1966	03	16.76698	11	50	19.52	+04	21	56.3	330
1966	FN		1966	03	26.59685	11	45	41.71	+05	13	04.2	330
1966	FO	*	1966	03	16.81559	12	13	40.65	-02	07	20.7	330
1966	FP	*	1966	03	26.65661	11	50	27.11	+05	06	21.9	330
1966	FQ	*	1966	03	26.71803	12	00	21.02	+00	24	51.8	330
1966	FR	*	1966	03	26.71803	12	00	52.56	-01	41	46.2	330
1966	FS	*	1966	03	26.71803	12	06	47.32	-00	09	12.1	330
1966	HM	*	1966	04	18.68601	14	24	05.55	-04	53	50.3	330
1972	WA	*	1972	11	29.68956	05	51	17.77	+19	16	17.0	330
1972	WB	*	1972	11	30.60859	05	04	11.49	+16	05	18.2	330
1972	XL2	*	1972	12	04.63076	05	06	44.93	+12	58	55.8	330
1972	XM2	*	1972	12	08.62078	05	43	22.48	+19	15	22.1	330
1972	YR1	*	1972	12	29.65208	06	32	09.42	+35	46	34.8	330
1972	YS1	*	1972	12	29.70000	07	13	10.76	+29	01	55.7	330
1973	AW4	*	1973	01	09.65513	06	09	01.72	+08	21	51.0	330
1973	BD	*	1973	01	29.67765	07	52	11.32	+20	53	31.8	330
1973	UY4	*	1973	10	16.57153	02	26	32.10	+09	59	55.9	330
1973	WH	*	1973	11	22.55000	03	24	34.99	+29	46	09.2	330
1974	TP	*	1974	10	12.65045	02	07	16.72	+17	22	13.4	330
1974	TQ	*	1974	10	12.65045	02	09	26.90	+15	17	42.5	330
1974	TR	*	1974	10	12.65045	02	10	54.43	+15	17	43.7	330
1974	UL	*	1974	10	23.68530	03	01	09.29	+08	56	05.6	330
1974	UM	*	1974	10	23.73669	03	34	14.08	+19	06	25.7	330
1974	UN	*	1974	10	23.73669	03	40	33.09	+19	23	07.4	330
1974	UO	*	1974	10	23.73669	03	48	17.32	+19	42	24.7	330
1974	WH1	*	1974	11	18.64286	01	29	07.19	+15	30	23.3	330
1974	WJ1	*	1974	11	18.64286	01	35	21.72	+14	16	25.7	330
1974	WK1	*	1974	11	18.64286	01	46	02.77	+15	50	10.6	330
1974	WL1	*	1974	11	18.64286	01	48	25.30	+16	01	20.9	330
1974	WM1	*	1974	11	18.70396	06	54	35.74	+23	00	08.7	330
1974	XQ		1974	12	14.65459	06	21	10.35	+24	58	36.3	330
1974	XQ		1974	12	18.69013	06	17	26.62	+25	02	20.0	330
1974	XQ		1975	01	12.52770	05	55	14.65	+25	11	54.8	330
1974	XQ		1975	01	16.57095	05	52	23.84	+25	11	32.2	330
1974	XQ		1975	01	17.61476	05	51	42.85	+25	11	23.6	330
1974	XQ		1975	01	18.63441	05	51	04.94	+25	11	13.1	330
1974	XU	*	1974	12	14.53561	01	35	00.90	+16	14	58.0	330
1974	XV	*	1974	12	14.60506	05	16	56.76	+19	26	06.9	330
1974	XW	*	1974	12	14.62242	06	29	21.42	+24	52	43.2	330
1974	XW		1974	12	18.69013	06	25	33.74	+25	08	20.8	330
1974	XX	*	1974	12	14.62242	06	39	01.67	+25	18	32.3	330
1974	XX		1974	12	18.69013	06	35	26.83	+25	47	39.6	330
1974	XX		1975	01	04.58257	06	19	13.40	+27	41	18.5	330
1974	YB	*	1974	12	18.55263	02	59	51.60	+17	30	23.8	330
1974	YC	*	1974	12	18.60888	05	26	52.61	+30	27	40.8	330
1974	YD	*	1974	12	18.60888	05	27	29.53	+30	10	14.8	330
1974	YE	*	1974	12	18.60888	05	31	41.67	+29	25	44.8	330
1974	YF	*	1974	12	18.60888	05	35	00.74	+28	13	36.8	330
1974	YG	*	1974	12	18.69013	06	14	52.80	+27	02	12.1	330
1974	YH	*	1974	12	18.69013	06	27	46.60	+24	54	03.2	330
1974	YJ	*	1974	12	18.69013	06	28	05.49	+24	53	09.9	330
1974	YK	*	1974	12	19.63184	04	47	03.73	+26	47	47.6	330
1974	YL	*	1974	12	19.63184	04	54	35.94	+27	19	50.9	330
1974	YM	*	1974	12	19.63184	04	54	37.01	+27	20	00.1	330
1974	YN	*	1974	12	19.63184	05	01	39.47	+25	28	29.7	330
1974	YO	*	1974	12	19.63184	05	01	52.35	+28	34	15.8	330
1974	YP	*	1974	12	19.70337	07	36	57.45	+20	47	00.7	330
1974	YP		1975	01	10.70269	07	12	00.64	+19	28	22.7	330
1974	YP		1975	01	16.63900	07	05	18.81	+19	08	25.3	330

1974 YQ *	1974 12	20.73333	06 45	02.96	+18 18	29.9	330
1974 YR *	1974 12	20.80972	08 21	53.42	+08 51	55.2	330
1975 AW *	1975 01	04.58257	06 00	22.86	+25 11	32.2	330
1975 AX *	1975 01	04.58257	06 02	31.35	+24 17	04.6	330
1975 AY *	1975 01	04.58257	06 10	01.60	+25 42	50.3	330
1975 AZ *	1975 01	04.58257	06 10	12.21	+25 41	46.3	330
1975 AA1 *	1975 01	09.56514	05 06	57.93	+29 28	41.7	330
1975 AB1 *	1975 01	09.66028	07 56	41.29	+18 31	24.4	330
1975 AC1 *	1975 01	10.70269	07 21	05.62	+19 12	46.2	330
1975 AC1	1975 01	16.63900	07 15	03.74	+20 02	28.1	330
1975 AD1 *	1975 01	12.52770	05 58	41.50	+27 26	31.8	330
1975 AE1 *	1975 01	12.52770	06 01	20.14	+26 25	54.4	330
1975 BC	1975 01	16.63900	07 11	21.67	+21 56	57.0	330
1975 BF	1975 01	16.63900	07 19	22.45	+20 32	31.9	330
1975 BU	1975 01	12.68811	09 45	27.22	+14 10	32.5	330
1975 BU	1975 01	18.68858	09 42	32.24	+15 08	05.7	330
1975 BV	1975 01	16.72859	09 46	35.98	+17 18	28.7	330
1975 BV	1975 01	18.68858	09 44	59.74	+17 26	46.8	330
1975 BV	1975 01	22.81594	09 41	17.10	+17 44	59.0	330
1975 BX	1975 01	16.74595	09 47	31.41	+16 44	30.3	330
1975 BX	1975 01	18.70594	09 46	44.06	+17 22	08.9	330
1975 BX	1975 01	22.81594	09 44	41.17	+18 44	35.9	330
1975 BX	1975 02	11.61388	09 29	07.15	+25 58	28.8	330
1975 BX	1975 03	07.59053	09 09	24.65	+33 10	56.2	330
1975 BA1	1975 01	12.68811	09 56	34.00	+14 31	07.9	330
1975 BA1	1975 01	16.72859	09 54	48.76	+14 42	16.4	330
1975 BA1	1975 01	18.68858	09 53	50.24	+14 49	00.7	330
1975 BJ1 *	1975 01	16.57095	05 46	59.76	+26 22	28.2	330
1975 BJ1	1975 01	17.61476	05 46	17.34	+26 17	46.7	330
1975 BK1 *	1975 01	16.57095	05 59	13.27	+27 13	32.4	330
1975 BK1	1975 01	17.61476	05 58	23.49	+27 09	32.4	330
1975 BK1	1975 01	18.63441	05 57	37.47	+27 05	39.2	330
1975 BL1 *	1975 01	16.59178	05 47	17.74	+28 22	31.6	330
1975 BL1	1975 01	18.63441	05 45	52.40	+28 15	55.9	330
1975 BM1 *	1975 01	16.69873	07 53	37.68	+09 34	08.4	330
1975 BN1 *	1975 01	16.69873	07 58	22.30	+09 25	07.1	330
1975 BO1 *	1975 01	16.69873	08 05	40.18	+09 09	28.1	330
1975 BP1 *	1975 01	16.81470	10 10	08.79	+10 38	05.8	330
1975 BP1	1975 01	22.86594	10 07	12.58	+10 58	16.1	330
1975 BP1	1975 02	12.60559	09 52	39.25	+12 32	57.3	330
1975 BQ1 *	1975 01	17.68073	08 16	04.22	+26 14	18.8	330
1975 BR1 *	1975 01	17.68073	08 20	18.10	+25 21	51.3	330
1975 BS1 *	1975 01	17.68073	08 29	17.01	+27 10	12.3	330
1975 BT1 *	1975 01	18.68858	09 51	28.49	+19 00	03.1	330
1975 BT1	1975 01	22.81594	09 48	53.97	+19 38	02.8	330
1975 CD *	1975 02	12.55003	09 33	24.85	+17 32	11.6	330
1975 CE *	1975 02	12.55003	09 36	01.91	+16 22	30.5	330
1975 CF *	1975 02	12.66809	10 51	39.08	+14 38	58.9	330
1975 CF	1975 02	16.78464	10 49	10.78	+14 55	35.9	330
1975 CG *	1975 02	12.66809	11 02	47.37	+12 14	11.1	330
1975 DD *	1975 02	16.78464	10 55	48.72	+13 13	16.6	330
1975 DE *	1975 02	16.78464	11 00	17.78	+13 04	57.2	330
1975 EY1	1975 01	16.81470	10 19	10.87	+09 47	53.2	330
1975 EY1	1975 01	22.86594	10 16	10.26	+10 23	25.4	330
1975 EY1	1975 02	12.60559	09 58	56.40	+13 06	50.3	330
1975 EA2	1975 03	07.66553	09 48	48.01	+15 39	59.7	330
1975 EB6 *	1975 03	07.66553	09 34	20.14	+14 07	26.9	330
1975 FW *	1975 03	17.68278	10 51	07.62	+23 10	11.6	330
1975 FW	1975 04	01.64436	10 40	45.43	+23 16	26.7	330

1975 FW	1975 04	03.52677	10 39	42.97	+23 14	20.8	330
1975 FW	1975 04	11.59560	10 36	04.75	+22 58	48.9	330
1975 FX *	1975 03	17.68278	10 56	40.54	+23 18	00.0	330
1975 FX	1975 04	01.64436	10 46	22.53	+23 14	23.3	330
1975 FX	1975 04	03.52677	10 45	22.27	+23 10	56.9	330
1975 FX	1975 04	11.59560	10 41	56.92	+22 48	37.1	330
1975 FY *	1975 03	21.81001	13 32	17.60	-03 21	16.0	330
1975 GG	1975 04	12.55396	12 27	14.54	+02 49	30.6	330
1975 GM	1975 04	12.55396	12 36	00.87	+02 38	28.4	330
1975 GM1 *	1975 04	12.55396	12 28	50.70	+02 48	29.3	330
1975 GN1 *	1975 04	12.55396	12 32	05.37	+04 46	13.3	330
1975 UJ *	1975 10	31.58408	00 41	38.71	+02 25	04.8	330
1975 VP1	1975 12	02.69277	04 26	18.00	+18 09	55.7	330
1975 VL9 *	1975 11	06.64540	04 54	06.92	+26 01	11.2	330
1975 VM9 *	1975 11	06.64540	04 57	50.47	+25 38	48.8	330
1975 WC1 *	1975 11	23.53493	03 46	43.64	+13 47	18.9	330
1975 WD1 *	1975 11	23.57243	04 43	23.39	+25 30	40.4	330
1975 WE1 *	1975 11	24.52667	02 32	58.71	+21 15	14.4	330
1975 WF1 *	1975 11	24.52667	02 41	03.11	+17 13	00.0	330
1975 WG1 *	1975 11	26.54058	04 14	27.47	+18 11	57.3	330
1975 WH1 *	1975 11	26.54058	04 19	03.84	+15 22	02.0	330
1975 WJ1 *	1975 11	26.58086	04 43	36.79	+23 13	14.1	330
1975 WJ1	1975 11	29.53647	04 40	54.55	+23 05	39.0	330
1975 WK1 *	1975 11	26.65725	05 31	40.51	+22 26	17.1	330
1975 WK1	1975 11	29.59619	05 28	53.40	+22 18	47.4	330
1975 WK1	1975 12	02.62228	05 25	48.65	+22 10	44.2	330
1975 WK1	1975 12	11.74446	05 15	43.39	+21 44	41.4	330
1975 WK1	1975 12	24.55237	05 01	48.04	+21 07	20.9	330
1975 WL1 *	1975 11	26.65725	05 38	36.86	+22 38	41.8	330
1975 WL1	1975 11	29.59619	05 36	24.72	+22 40	02.4	330
1975 WL1	1975 12	02.62228	05 33	59.90	+22 41	15.0	330
1975 WL1	1975 12	11.74446	05 26	05.70	+22 44	09.6	330
1975 WL1	1975 12	22.52903	05 16	25.84	+22 45	57.8	330
1975 WL1	1975 12	24.55237	05 14	40.80	+22 46	08.9	330
1975 WL1	1976 01	05.54799	05 05	26.23	+22 47	14.3	330
1975 WM1 *	1975 11	26.65725	05 41	53.64	+21 36	46.6	330
1975 WM1	1975 11	29.59619	05 40	17.12	+21 41	34.6	330
1975 WM1	1975 12	02.62228	05 38	33.81	+21 46	29.8	330
1975 WM1	1975 12	11.74446	05 33	04.48	+22 01	19.6	330
1975 WM1	1975 12	22.52903	05 26	22.98	+22 18	32.7	330
1975 WM1	1975 12	29.58108	05 22	08.55	+22 29	31.3	330
1975 WN1 *	1975 11	26.65725	05 43	03.45	+21 35	27.0	330
1975 WO1 *	1975 11	26.65725	05 43	37.21	+24 35	18.8	330
1975 WO1	1975 11	29.59619	05 41	14.41	+24 53	56.9	330
1975 WO1	1975 12	02.62228	05 38	35.71	+25 13	00.3	330
1975 WO1	1975 12	23.59817	05 17	53.89	+27 11	54.5	330
1975 WO1	1976 01	01.55616	05 09	54.15	+27 52	10.2	330
1975 WP1 *	1975 11	28.63645	04 54	34.91	+20 04	45.0	330
1975 WQ1 *	1975 11	28.63645	04 57	20.24	+22 11	26.3	330
1975 WR1 *	1975 11	29.59619	05 20	32.28	+20 45	49.2	330
1975 XX1	1975 11	26.58086	04 38	55.72	+25 55	46.3	330
1975 XX1	1975 11	29.53647	04 36	01.70	+25 52	40.2	330
1975 XY1	1975 11	23.57243	04 43	34.44	+25 33	19.0	330
1975 XY1	1975 11	26.58086	04 40	17.71	+24 35	10.0	330
1975 XY1	1975 11	29.53647	04 36	58.22	+23 35	59.0	330
1975 XY1	1975 12	22.47521	04 13	30.33	+15 46	03.3	330
1975 XY1	1975 12	30.52763	04 08	31.12	+13 23	31.2	330
1975 XZ1	1975 11	23.57243	04 51	31.20	+25 52	27.0	330
1975 XZ1	1975 11	26.58086	04 48	41.24	+25 59	36.1	330

1975 XZ1	1975 11	29.53647	04 45	49.78	+26 06	08.0	330
1975 XZ1	1975 12	23.53359	04 23	10.05	+26 41	00.2	330
1975 XZ1	1975 12	29.50260	04 18	35.70	+26 45	57.8	330
1975 XA3	1975 11	23.57243	04 40	02.23	+26 41	35.2	330
1975 XA3	1975 11	26.58086	04 36	12.80	+26 49	11.0	330
1975 XA3	1975 11	29.53647	04 32	23.82	+26 55	22.6	330
1975 XA3	1975 12	23.53359	04 05	46.85	+27 09	41.2	330
1975 XA3	1975 12	29.50260	04 01	52.40	+27 08	06.9	330
1975 XF3	1975 11	26.58086	04 39	34.03	+25 27	26.2	330
1975 XF3	1975 11	29.53647	04 36	23.79	+25 20	46.3	330
1975 XP3	1975 11	26.58086	04 50	53.46	+27 32	07.7	330
1975 XP3	1975 11	29.53647	04 47	39.67	+27 30	56.6	330
1975 XW6 *	1975 12	01.57676	03 36	29.53	+18 32	24.0	330
1975 XX6 *	1975 12	01.63926	04 42	29.08	+39 50	08.9	330
1975 XY6 *	1975 12	01.63926	05 03	02.05	+38 07	44.8	330
1975 XZ6 *	1975 12	02.69277	04 18	09.19	+17 19	24.4	330
1975 XZ6	1975 12	22.47521	04 02	11.31	+16 50	16.4	330
1975 XA7 *	1975 12	02.69277	04 28	16.58	+15 42	35.9	330
1975 XB7 *	1975 12	02.69277	04 37	17.50	+18 25	00.9	330
1975 XC7 *	1975 12	11.74446	05 16	27.23	+19 51	11.0	330
1975 XD7 *	1975 12	11.74446	05 21	17.72	+19 42	54.0	330
1975 XD7	1975 12	24.55237	05 06	57.63	+20 37	52.4	330
1975 YF *	1975 12	22.47521	04 07	14.98	+17 18	20.0	330
1975 YG *	1975 12	22.47521	04 09	49.61	+19 14	12.6	330
1975 YH *	1975 12	22.47521	04 12	28.73	+19 13	48.0	330
1975 YJ *	1975 12	22.47521	04 13	03.13	+15 00	23.4	330
1975 YJ	1975 12	30.52763	04 08	39.52	+14 52	49.9	330
1975 YK *	1975 12	23.53359	04 01	48.07	+23 16	13.2	330
1975 YL *	1975 12	23.53359	04 06	33.57	+24 11	13.2	330
1975 YM *	1975 12	24.55237	05 04	41.34	+19 44	04.2	330
1975 YN *	1975 12	24.55237	05 05	18.80	+19 30	21.2	330
1975 YO *	1975 12	24.55237	05 12	01.57	+23 25	58.8	330
1975 YP *	1975 12	29.65191	08 24	22.62	+18 58	09.4	330
1976 AD	1975 12	22.52903	05 31	32.94	+24 04	02.4	330
1976 AD	1975 12	29.58108	05 25	17.46	+23 59	34.1	330
1976 AD	1976 01	05.54799	05 19	40.34	+23 54	25.4	330
1976 AJ *	1976 01	02.62703	07 43	04.69	+27 43	50.3	330
1976 AK *	1976 01	05.54799	05 22	57.88	+20 15	46.3	330
1976 AL *	1976 01	05.64590	07 47	06.91	+20 58	56.1	330
1976 CA *	1976 02	05.62949	07 59	10.31	+16 38	40.3	330
1976 YT3	1976 12	14.57406	06 18	06.64	+14 50	03.3	330
1976 YT7 *	1976 12	16.63171	07 47	20.46	+23 51	22.2	330
1977 AT2 *	1977 01	10.52431	05 48	37.61	+18 22	01.2	330
1977 CE *	1977 02	14.53194	08 47	42.03	+18 35	57.5	330
1977 CF *	1977 02	14.60556	09 17	40.59	+16 44	48.5	330
1977 CG *	1977 02	14.60556	09 23	15.37	+15 49	45.4	330
1977 HF *	1977 04	19.57221	12 21	24.90	-07 43	19.6	330
1977 HG *	1977 04	19.57221	12 26	30.18	-08 51	30.8	330
1977 TZ	1977 11	01.50904	01 12	36.21	+13 10	33.6	330
1977 TZ	1977 11	08.60436	01 05	56.57	+13 19	43.6	330
1977 TH3 *	1977 10	04.57707	00 52	16.70	-09 00	14.5	330
1977 TJ3 *	1977 10	04.61665	01 23	19.19	+16 00	06.3	330
1977 TJ3	1977 10	10.61052	01 20	27.45	+15 24	16.2	330
1977 TJ3	1977 10	16.58784	01 17	33.38	+14 46	49.6	330
1977 TJ3	1977 11	01.50904	01 10	13.18	+13 04	08.5	330
1977 TJ3	1977 11	08.60436	01 07	23.58	+12 19	21.6	330
1977 TK3 *	1977 10	04.64443	01 08	35.07	+17 11	52.6	330
1977 TL3 *	1977 10	04.64443	01 24	09.26	+15 35	04.6	330
1977 TL3	1977 10	10.61052	01 21	19.82	+15 09	36.8	330

1977	TL3	1977	10	16.58784	01	18	26.60	+14	42	27.5	330
1977	TL3	1977	11	01.50904	01	11	06.61	+13	26	55.7	330
1977	TL3	1977	11	08.60436	01	08	16.57	+12	53	47.1	330
1977	TL3	1978	10	28.69159	03	48	16.93	+15	16	02.1	330
1977	TL3	1978	11	26.66938	03	33	34.87	+13	33	51.4	330
1977	TL3	1978	11	30.60027	03	31	34.37	+13	21	13.0	330
1977	TL3	1978	12	05.55131	03	29	09.58	+13	05	55.9	330
1977	TM3	* 1977	10	10.61052	01	08	54.55	+12	27	07.8	330
1977	TN3	* 1977	10	10.61052	01	17	47.70	+16	17	20.5	330
1977	TN3	1977	10	16.58784	01	13	24.92	+15	27	40.1	330
1977	TO3	* 1977	10	10.61052	01	20	16.13	+13	32	52.8	330
1977	TO3	1977	10	16.58784	01	14	18.89	+13	02	07.7	330
1977	TP3	* 1977	10	10.67163	02	23	42.43	+11	21	40.9	330
1977	TQ3	* 1977	10	10.67163	02	29	44.60	+08	57	49.0	330
1977	TQ3	1977	10	21.85809	02	18	52.99	+09	16	18.9	330
1977	TQ3	1977	11	03.64246	02	05	23.13	+09	40	22.0	330
1977	TQ3	1977	11	12.57364	01	57	17.91	+10	03	01.7	330
1977	TR3	* 1977	10	12.55778	01	38	30.39	+04	22	08.5	330
1977	TR3	1977	11	03.58413	01	20	06.75	+02	04	54.5	330
1977	TR3	1977	11	04.57095	01	19	27.01	+02	00	48.6	330
1977	TR3	1977	11	08.55436	01	17	01.39	+01	46	45.3	330
1977	TR3	1977	11	11.53614	01	15	29.76	+01	38	52.6	330
1977	TS3	* 1977	10	12.55778	01	42	27.28	+02	47	20.1	330
1977	TT3	* 1977	10	12.60639	02	09	24.83	+18	50	59.6	330
1977	TT3	1977	11	01.54029	01	54	12.13	+16	37	07.1	330
1977	TT3	1977	11	08.65367	01	49	06.10	+15	45	40.1	330
1977	TU3	* 1977	10	12.60639	02	25	26.11	+16	08	31.8	330
1977	TV3	* 1977	10	12.60639	02	29	26.85	+17	07	21.1	330
1977	TW3	* 1977	10	12.64875	02	23	52.14	-00	15	03.8	330
1977	TX3	* 1977	10	12.64875	02	38	42.37	+02	08	10.0	330
1977	TY3	* 1977	10	13.72654	02	31	46.31	+21	26	27.9	330
1977	TZ3	* 1977	10	13.72654	02	31	55.04	+18	59	22.9	330
1977	TA4	* 1977	10	13.72654	02	32	37.79	+22	20	17.2	330
1977	TB4	* 1977	10	13.72654	02	41	10.07	+20	05	33.1	330
1977	TC4	* 1977	10	13.72654	02	41	52.82	+20	55	33.8	330
1977	UX	* 1977	10	16.64408	03	01	05.21	+27	56	32.0	330
1977	VH	1977	10	10.67163	02	20	40.09	+12	06	56.8	330
1977	VH	1977	10	21.85809	02	11	32.94	+11	52	19.7	330
1977	VH	1977	11	03.64246	02	00	34.42	+11	33	07.2	330
1977	VH	1977	11	12.57364	01	53	24.21	+11	21	23.6	330
1977	VJ	1977	11	03.64246	02	02	01.49	+10	35	47.1	330
1977	VN	1977	10	12.60639	02	23	24.30	+14	39	44.7	330
1977	VN	1977	11	01.55765	02	08	10.73	+13	28	49.4	330
1977	VN	1977	11	08.65367	02	02	39.49	+13	01	26.5	330
1977	VP	1977	10	10.67163	02	34	55.02	+10	53	57.4	330
1977	VP	1977	10	21.85809	02	24	00.44	+10	39	41.2	330
1977	VP	1977	11	03.64246	02	09	59.74	+10	21	42.8	330
1977	VP	1977	11	12.57364	02	00	39.94	+10	12	55.3	330
1977	VQ	1977	11	12.57364	02	04	55.17	+10	34	05.8	330
1977	VV	1977	11	03.64246	02	14	20.82	+11	01	19.1	330
1977	VJ1	* 1977	11	01.55765	01	50	50.39	+14	40	46.1	330
1977	VJ1	1977	11	08.65367	01	46	01.49	+13	17	31.9	330
1977	VK1	* 1977	11	03.58413	01	11	45.17	+01	09	52.9	330
1977	VK1	1977	11	04.57095	01	10	59.83	+01	12	14.8	330
1977	VK1	1977	11	08.55436	01	08	08.16	+01	23	01.3	330
1977	VK1	1977	11	11.53614	01	06	12.57	+01	32	24.1	330
1977	VL1	* 1977	11	03.58413	01	11	51.16	+03	20	55.1	330
1977	VL1	1977	11	04.57095	01	11	12.66	+03	22	21.5	330
1977	VL1	1977	11	08.55436	01	08	52.05	+03	29	43.9	330



1977 VL1	1977 11 11.53614	01 07 24.89	+03 37 02.9	330
1977 VM1 *	1977 11 03.58413	01 21 17.88	+00 35 51.6	330
1977 VM1	1977 11 04.57095	01 20 28.42	+00 39 04.3	330
1977 VM1	1977 11 08.55436	01 17 25.42	+00 54 14.7	330
1977 VM1	1977 11 11.53614	01 15 27.66	+01 07 54.7	330
1977 VN1 *	1977 11 03.58413	01 26 38.62	+01 29 56.6	330
1977 VN1	1977 11 04.57095	01 26 02.84	+01 28 04.6	330
1977 VO1 *	1977 11 03.64246	02 00 04.83	+07 53 41.6	330
1977 VO1	1977 11 12.57364	01 53 23.49	+06 47 27.6	330
1977 VP1 *	1977 11 03.64246	02 09 59.66	+06 50 04.9	330
1977 VQ1 *	1977 11 04.51886	01 26 05.05	+01 28 11.4	330
1977 VR1 *	1977 11 04.51886	01 42 11.11	+02 26 46.4	330
1977 VS1 *	1977 11 08.65367	01 51 13.88	+15 45 25.3	330
1977 VT1 *	1977 11 08.65367	02 02 43.48	+17 41 17.2	330
1977 VU1 *	1977 11 08.65367	02 03 42.22	+15 53 43.4	330
1977 VV1 *	1977 11 08.65367	02 03 46.23	+17 11 27.7	330
1977 VW1 *	1977 11 12.57364	01 48 30.90	+09 02 24.2	330
1977 VX1 *	1977 11 12.57364	02 02 46.76	+06 25 58.2	330
1977 VY1 *	1977 11 14.55627	00 54 20.81	+00 32 26.5	330
1977 VZ1 *	1977 11 14.68613	05 04 36.98	+19 52 52.6	330
1977 VA2 *	1977 11 14.68613	05 15 33.61	+20 31 54.3	330
1977 VB2 *	1977 11 14.68613	05 19 47.09	+22 29 49.4	330
1977 XB *	1977 12 08.55438	04 32 37.67	+21 02 53.4	330
1977 XC *	1977 12 08.55438	04 34 23.00	+22 23 23.5	330
1977 XD *	1977 12 08.55438	04 45 41.60	+20 16 19.2	330
1977 XE *	1977 12 12.59270	05 44 58.96	+26 58 04.2	330

## OBSERVATIONS MADE AT GEISEI BY T. SEKI.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
/1978f	1979 07 30.69132		23 37 03.23	-17 54 40.2		372
/1979c	1979 09 04.78194		04 45 55.0	+63 27 39	16.5T	372
/1979c	1979 09 04.79653		04 45 37.0	+63 28 24		372
/1979c	1979 09 04.81007		04 45 19.8	+63 29 05		372

OBSERVATIONS MADE AT JCPM HAMATONBETSU STATION BY M. TAKEISHI. FROM JAPAN  
ASTRON. CIRC. NOS. 214 AND 215.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
/1979c	1979 08 23.72674		06 51 52.87	+51 14 22.4	13	T 1	394
/1979c	1979 08 23.74028		06 51 49.91	+51 14 56.2			394
/1979i	1979 09 23.64010		13 27 11.73	+67 14 41.7	13	T 1	394
/1979i	1979 09 23.65781		13 27 10.07	+67 14 13.4			394
/1979i	1979 09 25.49097		13 23 50.49	+66 33 05.1	14	T 1	394
/1979i	1979 09 25.51076		13 23 48.05	+66 32 42.3			394
/1979i	1979 09 26.45868		13 22 11.51	+66 11 42.3	14	T 1	394

Note 1: observatory code 394, Long. and Parallax 142.32, -301, -301 (see MPC 4766).

OBSERVATIONS MADE WITH THE 1.2-M U.K. SCHMIDT TELESCOPE AT COONABARABRAN  
BY E. HELIN AND S. J. BUS. MEASURED BY BUS.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
933	1979 06 23.63125		20 27 33.26	-15 01 42.9		413
933	1979 06 24.63611		20 26 56.50	-15 04 38.4		413
933	1979 06 25.66181		20 26 17.47	-15 07 44.4	15.5	413
933	1979 06 29.67859		20 23 30.79	-15 21 00.0		413
1244	1979 06 23.63125		20 19 02.17	-16 13 42.5		413
1244	1979 06 24.63611		20 18 18.92	-16 11 28.4		413
1244	1979 06 25.66181		20 17 33.18	-16 09 16.0	15.0	413
1244	1979 06 29.67859		20 14 19.17	-16 01 23.6		413
1827	1979 06 23.63125		20 16 51.06	-13 31 38.9		413

1827		1979	06	24.63611	20	16	15.11	-13	32	06.6		413
1827		1979	06	25.66181	20	15	37.30	-13	32	38.3	17.0	413
1827		1979	06	29.67859	20	12	58.71	-13	35	34.8		413
1979	MA	1979	06	23.64167	20	26	28.34	-16	09	36.6		413
1979	MA	1979	06	24.63611	20	25	25.00	-15	58	30.7		413
1979	MA	* 1979	06	25.66181	20	24	17.74	-15	47	06.6	19.0	413
1979	MA	1979	06	29.70984	20	19	35.40	-15	02	52.5		413
1979	MD1	1979	06	23.62778	20	11	59.00	-17	54	17.2		413
1979	MD1	* 1979	06	24.63611	20	11	25.59	-17	58	35.3	19.5	413
1979	ME1	* 1979	06	24.63611	20	12	24.46	-17	09	52.1	20.0	413
1979	ME1	1979	06	29.67859	20	09	01.33	-17	00	19.2		413
1979	MF1	* 1979	06	24.63611	20	13	59.95	-16	26	26.2	20.0	413
1979	MF1	1979	06	29.70984	20	11	28.97	-17	00	41.2		413
1979	MG1	* 1979	06	24.63611	20	16	44.06	-12	33	06.9	20.0	413
1979	MG1	1979	06	29.70984	20	13	28.27	-12	45	01.2		413
1979	MH1	1979	06	23.62778	20	28	50.41	-15	22	31.9		413
1979	MH1	* 1979	06	24.63611	20	28	23.52	-15	26	18.6	20.0	413
1979	MH1	1979	06	29.70984	20	25	52.78	-15	46	52.2		413
1979	MJ1	* 1979	06	24.63611	20	29	29.30	-14	02	23.3	20.0	413
1979	MJ1	1979	06	29.67859	20	27	00.53	-13	57	51.1		413
1979	MK1	1979	06	23.63125	20	08	35.27	-15	45	55.7		413
1979	MK1	1979	06	24.69049	20	07	59.96	-15	48	14.2		413
1979	MK1	* 1979	06	25.66181	20	07	25.74	-15	50	30.1	18.5	413
1979	ML1	1979	06	23.63125	20	08	59.59	-17	37	30.4		413
1979	ML1	1979	06	24.63611	20	08	23.68	-17	34	33.2		413
1979	ML1	* 1979	06	25.66181	20	07	44.89	-17	31	35.3	18.0	413
1979	MM1	1979	06	23.63125	20	08	52.20	-13	02	56.7		413
1979	MM1	1979	06	24.63611	20	08	21.40	-13	07	21.1		413
1979	MM1	* 1979	06	25.66181	20	07	48.88	-13	11	56.7	19.0	413
1979	MN1	1979	06	23.62778	20	10	01.38	-17	21	23.5		413
1979	MN1	1979	06	24.63611	20	09	20.67	-17	23	53.1		413
1979	MN1	* 1979	06	25.66181	20	08	37.67	-17	26	30.9	19.0	413
1979	MO1	1979	06	23.62778	20	09	52.86	-17	18	57.7		413
1979	MO1	1979	06	24.69049	20	09	19.49	-17	19	21.2		413
1979	MO1	* 1979	06	25.66181	20	08	46.99	-17	19	50.7	20.0	413
1979	MP1	1979	06	23.63125	20	09	53.41	-17	32	58.0		413
1979	MP1	1979	06	24.63611	20	09	21.97	-17	34	24.7		413
1979	MP1	* 1979	06	25.66181	20	08	48.16	-17	35	59.1	19.5	413
1979	MQ1	1979	06	23.63125	20	10	24.94	-17	24	24.3		413
1979	MQ1	1979	06	24.69049	20	09	41.59	-17	19	11.2		413
1979	MQ1	* 1979	06	25.66181	20	09	00.35	-17	14	24.0	20.0	413
1979	MR1	1979	06	23.62778	20	10	10.90	-17	37	17.0		413
1979	MR1	1979	06	24.63611	20	09	42.84	-17	39	11.2		413
1979	MR1	* 1979	06	25.66181	20	09	12.73	-17	41	13.4	19.5	413
1979	MR1	1979	06	29.70984	20	07	01.18	-17	50	10.6		413
1979	MS1	1979	06	24.63611	20	09	47.98	-17	07	44.3		413
1979	MS1	* 1979	06	25.66181	20	09	14.72	-17	09	15.3	20.0	413
1979	MT1	1979	06	23.63125	20	10	09.68	-16	50	14.9		413
1979	MT1	1979	06	24.63611	20	09	43.58	-16	53	35.6		413
1979	MT1	* 1979	06	25.66181	20	09	15.15	-16	57	08.4	20.0	413
1979	MU1	1979	06	23.62778	20	10	24.87	-13	23	34.3		413
1979	MU1	1979	06	24.63611	20	09	57.59	-13	25	13.6		413
1979	MU1	* 1979	06	25.66181	20	09	28.26	-13	27	02.6	20.0	413
1979	MV1	1979	06	23.63125	20	10	40.82	-14	48	11.6		413
1979	MV1	1979	06	24.63611	20	10	08.33	-14	52	14.1		413
1979	MV1	* 1979	06	25.66181	20	09	33.64	-14	56	31.1	18.5	413
1979	MV1	1979	06	29.67859	20	07	01.04	-15	14	55.6		413
1979	MW1	1979	06	23.64167	20	10	55.61	-14	39	51.9		413
1979	MW1	1979	06	24.63611	20	10	22.88	-14	38	45.9		413

1979	MW1	*	1979	06	25.66181	20	09	47.48	-14	37	42.1	18.5	413
1979	MW1		1979	06	29.70984	20	07	13.43	-14	34	32.0		413
1979	MX1		1979	06	24.63611	20	10	27.61	-18	04	08.5		413
1979	MX1	*	1979	06	25.66181	20	09	48.29	-18	04	36.0	19.5	413
1979	MX1		1979	06	29.67859	20	07	02.28	-18	07	04.2		413
1979	MY1		1979	06	23.62778	20	11	06.16	-14	25	25.9		413
1979	MY1		1979	06	24.63611	20	10	31.48	-14	26	45.4		413
1979	MY1	*	1979	06	25.66181	20	09	53.55	-14	28	15.2	20.0	413
1979	MY1		1979	06	29.67859	20	07	10.59	-14	35	25.4		413
1979	MZ1		1979	06	24.69049	20	10	29.83	-16	04	34.4		413
1979	MZ1	*	1979	06	25.66181	20	09	57.74	-16	07	21.4	20.0	413
1979	MZ1		1979	06	29.67859	20	07	32.86	-16	19	54.7		413
1979	MA2		1979	06	23.64167	20	11	25.53	-12	41	39.1		413
1979	MA2		1979	06	24.63611	20	10	51.17	-12	37	43.0		413
1979	MA2	*	1979	06	25.66181	20	10	13.97	-12	33	49.2	19.5	413
1979	MA2		1979	06	29.67859	20	07	29.10	-12	19	54.6		413
1979	MB2		1979	06	23.63125	20	11	37.32	-15	53	20.1		413
1979	MB2		1979	06	24.63611	20	10	59.05	-15	55	44.7		413
1979	MB2	*	1979	06	25.66181	20	10	18.59	-15	58	17.7	19.5	413
1979	MB2		1979	06	29.70984	20	07	27.45	-16	09	17.0		413
1979	MC2		1979	06	23.63125	20	11	39.82	-16	40	09.2		413
1979	MC2		1979	06	24.63611	20	11	05.94	-16	41	18.2		413
1979	MC2	*	1979	06	25.66181	20	10	30.13	-16	42	31.5	18.0	413
1979	MC2		1979	06	29.70984	20	07	56.69	-16	48	18.3		413
1979	MD2		1979	06	23.63125	20	11	58.56	-14	47	18.2		413
1979	MD2		1979	06	24.63611	20	11	18.55	-14	48	26.2		413
1979	MD2	*	1979	06	25.66181	20	10	36.07	-14	49	42.8	19.5	413
1979	MD2		1979	06	29.70984	20	07	34.86	-14	55	48.5		413
1979	ME2		1979	06	23.62778	20	11	08.95	-14	43	10.6		413
1979	ME2		1979	06	24.69049	20	10	53.15	-14	47	58.2		413
1979	ME2	*	1979	06	25.66181	20	10	37.19	-14	52	35.4	19.5	413
1979	ME2		1979	06	29.67859	20	09	13.35	-15	13	48.3		413
1979	MF2		1979	06	23.63125	20	11	19.14	-17	52	04.2		413
1979	MF2		1979	06	24.63611	20	11	00.97	-17	52	37.5		413
1979	MF2	*	1979	06	25.66181	20	10	40.31	-17	53	18.3	18.5	413
1979	MF2		1979	06	29.70984	20	08	58.43	-17	57	22.3		413
1979	MG2		1979	06	24.69049	20	11	17.89	-16	52	56.9		413
1979	MG2	*	1979	06	25.66181	20	10	43.19	-16	55	31.5	20.0	413
1979	MG2		1979	06	29.67859	20	08	02.01	-17	07	26.4		413
1979	MH2		1979	06	23.62778	20	11	49.04	-14	08	09.1		413
1979	MH2		1979	06	24.63611	20	11	19.69	-14	08	26.6		413
1979	MH2	*	1979	06	25.66181	20	10	48.62	-14	08	49.5	19.0	413
1979	MH2		1979	06	29.70984	20	08	34.21	-14	11	20.8		413
1979	MJ2		1979	06	23.63125	20	12	19.75	-17	29	15.8		413
1979	MJ2		1979	06	24.63611	20	11	42.08	-17	33	37.3		413
1979	MJ2	*	1979	06	25.66181	20	11	02.15	-17	38	07.0	20.0	413
1979	MJ2		1979	06	29.67859	20	08	09.26	-17	57	05.0		413
1979	MK2		1979	06	23.64167	20	12	26.24	-17	50	15.2		413
1979	MK2		1979	06	24.63611	20	11	48.54	-17	54	37.5		413
1979	MK2	*	1979	06	25.66181	20	11	08.07	-17	59	12.7	16.5	413
1979	ML2		1979	06	23.64167	20	12	11.99	-12	33	29.7		413
1979	ML2		1979	06	24.63611	20	11	47.25	-12	38	53.2		413
1979	ML2	*	1979	06	25.66181	20	11	20.23	-12	44	37.2	17.0	413
1979	ML2		1979	06	29.67859	20	09	21.28	-13	08	48.1		413
1979	MM2		1979	06	24.63611	20	11	58.95	-15	31	49.7		413
1979	MM2	*	1979	06	25.66181	20	11	22.45	-15	29	15.0	19.5	413
1979	MM2		1979	06	29.70984	20	08	42.20	-15	20	06.0		413
1979	MN2		1979	06	23.63125	20	12	45.31	-16	21	34.5		413
1979	MN2		1979	06	24.63611	20	12	18.55	-16	23	49.2		413

1979 MN2 *	1979 06 25.66181	20 11 49.39	-16 26 14.6	16.5	413
1979 MN2	1979 06 29.70984	20 09 36.83	-16 37 15.9		413
1979 MO2	1979 06 23.63125	20 12 38.21	-12 21 32.4		413
1979 MO2	1979 06 24.63611	20 12 17.03	-12 17 59.0		413
1979 MO2 *	1979 06 25.66181	20 11 53.20	-12 14 30.4	18.5	413
1979 MP2	1979 06 23.62778	20 13 18.21	-15 31 44.5		413
1979 MP2	1979 06 24.69049	20 12 40.88	-15 29 54.5		413
1979 MP2 *	1979 06 25.66181	20 12 04.58	-15 28 13.9	20.0	413
1979 MP2	1979 06 29.70984	20 09 23.31	-15 22 03.3		413
1979 MQ2	1979 06 23.63125	20 13 24.84	-12 38 09.4		413
1979 MQ2	1979 06 24.63611	20 12 51.37	-12 39 57.7		413
1979 MQ2 *	1979 06 25.66181	20 12 15.50	-12 41 57.8	19.5	413
1979 MQ2	1979 06 29.67859	20 09 39.59	-12 51 27.3		413
1979 MR2	1979 06 23.63125	20 13 50.34	-18 02 26.4		413
1979 MR2	1979 06 24.63611	20 13 16.62	-18 03 44.1		413
1979 MR2 *	1979 06 25.66181	20 12 40.78	-18 05 07.1	19.0	413
1979 MS2	1979 06 23.62778	20 14 25.15	-15 43 00.5		413
1979 MS2	1979 06 24.63611	20 13 51.55	-15 43 10.3		413
1979 MS2 *	1979 06 25.66181	20 13 15.73	-15 43 27.8	19.5	413
1979 MS2	1979 06 29.67859	20 10 37.91	-15 45 54.8		413
1979 MT2	1979 06 24.63611	20 13 59.58	-18 05 50.0		413
1979 MT2 *	1979 06 25.66181	20 13 18.88	-18 04 06.2	20.0	413
1979 MT2	1979 06 29.70984	20 10 26.16	-17 57 48.3		413
1979 MU2	1979 06 23.63125	20 14 15.82	-12 58 04.3		413
1979 MU2	1979 06 24.63611	20 13 49.27	-12 59 25.1		413
1979 MU2 *	1979 06 25.66181	20 13 21.06	-13 00 53.1	18.5	413
1979 MU2	1979 06 29.70984	20 11 17.02	-13 07 59.0		413
1979 MV2	1979 06 24.69049	20 13 53.40	-16 05 07.9		413
1979 MV2 *	1979 06 25.66181	20 13 21.10	-16 09 52.1	20.0	413
1979 MV2	1979 06 29.70984	20 10 49.57	-16 30 57.5		413
1979 MW2	1979 06 23.63125	20 14 25.77	-15 19 36.8		413
1979 MW2	1979 06 24.63611	20 13 55.90	-15 20 54.0		413
1979 MW2 *	1979 06 25.66181	20 13 24.18	-15 22 18.1	19.0	413
1979 MW2	1979 06 29.70984	20 11 07.64	-15 28 45.4		413
1979 MX2	1979 06 23.63125	20 14 47.24	-17 24 55.9		413
1979 MX2	1979 06 24.63611	20 14 12.75	-17 23 10.7		413
1979 MX2 *	1979 06 25.66181	20 13 36.26	-17 21 26.9	17.0	413
1979 MX2	1979 06 29.67859	20 11 01.43	-17 15 08.7		413
1979 MY2	1979 06 23.63125	20 15 09.46	-13 54 05.6		413
1979 MY2	1979 06 24.63611	20 14 30.15	-13 53 34.2		413
1979 MY2 *	1979 06 25.66181	20 13 48.51	-13 53 08.4	18.5	413
1979 MY2	1979 06 29.70984	20 10 50.36	-13 52 36.6		413
1979 MZ2	1979 06 23.63125	20 15 11.63	-17 23 48.6		413
1979 MZ2	1979 06 24.63611	20 14 34.06	-17 25 52.8		413
1979 MZ2 *	1979 06 25.66181	20 13 54.17	-17 28 03.6	19.5	413
1979 MZ2	1979 06 29.67859	20 11 05.89	-17 37 23.8		413
1979 MA3	1979 06 24.63611	20 14 37.23	-17 52 39.8		413
1979 MA3 *	1979 06 25.66181	20 13 54.69	-17 53 04.9	20.0	413
1979 MA3	1979 06 29.70984	20 10 51.23	-17 55 33.0		413
1979 MB3	1979 06 23.64167	20 15 29.56	-15 46 57.3		413
1979 MB3	1979 06 24.63611	20 15 00.43	-15 55 15.8		413
1979 MB3 *	1979 06 25.66181	20 14 28.70	-16 03 59.6	18.5	413
1979 MB3	1979 06 29.67859	20 12 09.21	-16 39 50.7		413
1979 MC3	1979 06 23.63125	20 15 45.90	-16 28 20.7		413
1979 MC3	1979 06 24.63611	20 15 13.98	-16 29 46.2		413
1979 MC3 *	1979 06 25.66181	20 14 39.91	-16 31 17.9	20.0	413
1979 MC3	1979 06 29.67859	20 12 10.74	-16 38 30.7		413
1979 MD3	1979 06 24.69049	20 15 14.79	-14 27 31.5		413
1979 MD3 *	1979 06 25.66181	20 14 43.19	-14 28 41.2	20.0	413

1979 MD3	1979 06	29.67859	20 12	25.24	-14 34	07.0		413
1979 ME3	1979 06	24.69049	20 15	24.21	-12 51	27.5		413
1979 ME3 *	1979 06	25.66181	20 14	55.67	-12 52	44.3	20.0	413
1979 ME3	1979 06	29.70984	20 12	43.59	-12 59	14.0		413
1979 MF3	1979 06	24.69049	20 15	26.64	-15 29	52.8		413
1979 MF3 *	1979 06	25.66181	20 14	58.49	-15 30	24.4	20.0	413
1979 MF3	1979 06	29.67859	20 12	47.25	-15 33	47.3		413
1979 MG3	1979 06	23.63125	20 16	09.37	-15 05	16.3		413
1979 MG3	1979 06	24.63611	20 15	36.45	-15 03	16.9		413
1979 MG3 *	1979 06	25.66181	20 15	01.57	-15 01	18.2	18.5	413
1979 MG3	1979 06	29.70984	20 12	32.11	-14 54	18.5		413
1979 MH3	1979 06	24.63611	20 15	34.11	-18 00	17.5		413
1979 MH3 *	1979 06	25.66181	20 15	02.75	-18 04	32.4	20.0	413
1979 MJ3	1979 06	24.63611	20 15	44.77	-12 30	26.4		413
1979 MJ3 *	1979 06	25.66181	20 15	09.96	-12 31	36.3	20.0	413
1979 MK3	1979 06	23.63125	20 16	27.42	-16 49	10.9		413
1979 MK3	1979 06	24.63611	20 15	55.28	-16 51	37.1		413
1979 MK3 *	1979 06	25.66181	20 15	21.59	-16 54	09.9	19.5	413
1979 MK3	1979 06	29.70984	20 12	59.42	-17 04	51.4		413
1979 ML3	1979 06	23.63125	20 17	37.50	-14 50	21.9		413
1979 ML3	1979 06	24.63611	20 17	04.06	-14 50	22.2		413
1979 ML3 *	1979 06	25.66181	20 16	28.38	-14 50	29.0	17.0	413
1979 ML3	1979 06	29.67859	20 13	54.22	-14 52	00.7		413
1979 MM3	1979 06	23.64167	20 17	30.12	-15 52	46.9		413
1979 MM3	1979 06	24.63611	20 17	01.25	-15 59	24.9		413
1979 MM3 *	1979 06	25.66181	20 16	30.02	-16 06	25.5	18.5	413
1979 MM3	1979 06	29.67859	20 14	15.10	-16 35	11.7		413
1979 MN3	1979 06	23.63125	20 18	06.77	-16 58	07.4		413
1979 MN3	1979 06	24.69049	20 17	24.95	-16 59	09.1		413
1979 MN3 *	1979 06	25.66181	20 16	45.01	-17 00	12.7	18.5	413
1979 MN3	1979 06	29.67859	20 13	44.41	-17 05	28.3		413
1979 MO3	1979 06	24.69049	20 17	25.08	-16 55	34.2		413
1979 MO3 *	1979 06	25.66181	20 16	58.63	-16 57	57.2	20.0	413
1979 MO3	1979 06	29.67859	20 14	55.42	-17 08	47.5		413
1979 MP3	1979 06	23.62778	20 18	15.04	-15 02	18.0		413
1979 MP3	1979 06	24.63611	20 17	40.10	-15 02	23.6		413
1979 MP3 *	1979 06	25.66181	20 17	02.34	-15 02	36.0	19.5	413
1979 MP3	1979 06	29.67859	20 14	18.25	-15 04	34.3		413
1979 MQ3	1979 06	23.62778	20 18	18.76	-12 00	45.7		413
1979 MQ3	1979 06	24.63611	20 17	45.95	-12 03	46.1		413
1979 MQ3 *	1979 06	25.66181	20 17	11.13	-12 06	58.6	19.0	413
1979 MQ3	1979 06	29.67859	20 14	40.58	-12 21	04.5		413
1979 MR3	1979 06	23.64167	20 18	26.63	-15 56	11.6		413
1979 MR3	1979 06	24.63611	20 18	05.10	-16 01	47.4		413
1979 MR3 *	1979 06	25.66181	20 17	40.84	-16 07	45.4	16.5	413
1979 MR3	1979 06	29.67859	20 15	47.24	-16 33	04.0		413
1979 MS3	1979 06	23.63125	20 18	43.00	-15 49	30.3		413
1979 MS3	1979 06	24.63611	20 18	13.39	-15 49	22.0		413
1979 MS3 *	1979 06	25.66181	20 17	42.22	-15 49	17.3	19.5	413
1979 MS3	1979 06	29.67859	20 15	27.61	-15 49	46.9		413
1979 MT3	1979 06	23.63125	20 18	23.94	-16 59	54.4		413
1979 MT3	1979 06	24.63611	20 18	06.06	-16 56	48.5		413
1979 MT3 *	1979 06	25.66181	20 17	45.83	-16 53	47.8	20.0	413
1979 MT3	1979 06	29.70984	20 16	03.24	-16 42	50.5		413
1979 MU3 *	1979 06	25.66181	20 18	01.31	-18 00	38.7	20.0	413
1979 MU3	1979 06	29.67859	20 15	04.10	-18 07	18.0		413
1979 MV3	1979 06	23.64167	20 18	52.49	-12 12	39.6		413
1979 MV3	1979 06	24.63611	20 18	37.91	-12 11	25.2		413
1979 MV3 *	1979 06	25.66181	20 18	20.83	-12 10	18.0	19.5	413

1979 MV3	1979 06 29.70984	20 16 54.99	-12 07 39.1	413
1979 MW3	1979 06 23.63125	20 19 13.95	-15 11 10.3	413
1979 MW3	1979 06 24.63611	20 18 51.39	-15 09 33.2	413
1979 MW3 *	1979 06 25.66181	20 18 26.26	-15 08 02.4	18.5 413
1979 MW3	1979 06 29.67859	20 16 27.88	-15 03 38.2	413
1979 MX3	1979 06 24.63611	20 18 50.80	-15 48 46.5	413
1979 MX3 *	1979 06 25.66181	20 18 29.48	-15 46 21.1	19.5 413
1979 MX3	1979 06 29.70984	20 16 44.08	-15 37 53.5	413
1979 MY3	1979 06 23.63125	20 19 24.37	-16 59 08.3	413
1979 MY3	1979 06 24.63611	20 18 59.21	-17 03 02.5	413
1979 MY3 *	1979 06 25.66181	20 18 31.67	-17 07 11.1	19.5 413
1979 MY3	1979 06 29.67859	20 16 27.48	-17 24 50.0	413
1979 MZ3	1979 06 23.63125	20 19 51.88	-17 53 43.3	413
1979 MZ3	1979 06 24.63611	20 19 20.56	-17 55 05.4	413
1979 MZ3 *	1979 06 25.66181	20 18 47.38	-17 56 33.3	18.5 413
1979 MZ3	1979 06 29.67859	20 16 25.81	-18 03 00.2	413
1979 MA4	1979 06 23.63125	20 19 43.12	-13 37 57.7	413
1979 MA4	1979 06 24.63611	20 19 18.09	-13 38 24.9	413
1979 MA4 *	1979 06 25.66181	20 18 51.34	-13 38 57.6	17.0 413
1979 MA4	1979 06 29.70984	20 16 54.30	-13 42 08.7	413
1979 MB4	1979 06 23.63125	20 20 20.57	-11 59 32.5	413
1979 MB4	1979 06 24.63611	20 19 50.36	-12 01 11.2	413
1979 MB4 *	1979 06 25.66181	20 19 17.84	-12 03 02.3	19.0 413
1979 MB4	1979 06 29.67859	20 16 53.21	-12 12 06.9	413
1979 MC4	1979 06 23.62778	20 20 03.59	-13 04 48.7	413
1979 MC4	1979 06 24.69049	20 19 43.94	-12 59 03.8	413
1979 MC4 *	1979 06 25.66181	20 19 23.98	-12 53 50.1	20.0 413
1979 MC4	1979 06 29.70984	20 17 38.30	-12 32 56.6	413
1979 MD4	1979 06 23.63125	20 20 17.26	-16 30 57.5	413
1979 MD4	1979 06 24.63611	20 19 52.08	-16 30 54.5	413
1979 MD4 *	1979 06 25.66181	20 19 24.36	-16 30 59.1	16.0 413
1979 MD4	1979 06 29.70984	20 17 15.81	-16 32 27.6	413
1979 ME4	1979 06 23.64167	20 20 29.46	-15 56 29.5	413
1979 ME4	1979 06 24.69049	20 19 59.56	-16 03 02.0	413
1979 ME4 *	1979 06 25.66181	20 19 30.39	-16 09 17.1	19.5 413
1979 ME4	1979 06 29.67859	20 17 15.58	-16 36 37.2	413
1979 MF4	1979 06 23.63125	20 20 15.80	-15 44 35.2	413
1979 MF4	1979 06 24.63611	20 19 59.66	-15 48 37.8	413
1979 MF4 *	1979 06 25.66181	20 19 41.02	-15 52 58.0	15.0 413
1979 MG4	1979 06 23.63125	20 20 49.19	-17 33 57.0	413
1979 MG4	1979 06 24.63611	20 20 18.93	-17 35 37.1	413
1979 MG4 *	1979 06 25.66181	20 19 46.79	-17 37 23.4	18.0 413
1979 MG4	1979 06 29.67859	20 17 29.09	-17 45 07.1	413
1979 MH4	1979 06 24.63611	20 20 21.42	-12 13 37.9	413
1979 MH4 *	1979 06 25.66181	20 19 56.41	-12 13 04.7	19.5 413
1979 MH4	1979 06 29.70984	20 17 59.47	-12 12 40.3	413
1979 MJ4	1979 06 23.63125	20 20 39.76	-13 36 10.1	413
1979 MJ4	1979 06 24.63611	20 20 21.86	-13 43 17.1	413
1979 MJ4 *	1979 06 25.66181	20 20 01.79	-13 50 46.1	18.0 413
1979 MJ4	1979 06 29.67859	20 18 26.50	-14 22 20.6	413
1979 MK4	1979 06 23.63125	20 20 54.59	-15 42 39.7	413
1979 MK4	1979 06 24.69049	20 20 31.07	-15 45 44.0	413
1979 MK4 *	1979 06 25.66181	20 20 07.74	-15 48 44.3	20.0 413
1979 MK4	1979 06 29.70984	20 18 10.95	-16 02 54.0	413
1979 ML4	1979 06 24.69049	20 20 52.85	-12 49 50.4	413
1979 ML4 *	1979 06 25.66181	20 20 16.57	-12 48 51.0	20.0 413
1979 ML4	1979 06 29.70984	20 17 32.23	-12 45 48.5	413
1979 MM4	1979 06 23.63125	20 21 31.49	-13 43 12.0	413
1979 MM4	1979 06 24.63611	20 21 05.51	-13 42 40.9	413

1979	MM4	*	1979	06	25.66181	20	20	36.84	-13	42	20.0	18.5	413
1979	MM4		1979	06	29.70984	20	18	23.58	-13	42	45.6		413
1979	MN4		1979	06	23.63125	20	20	42.14	-13	20	12.2		413
1979	MN4		1979	06	24.69049	20	20	40.55	-13	11	40.3		413
1979	MN4	*	1979	06	25.66181	20	20	37.38	-13	03	52.7	19.0	413
1979	MN4		1979	06	29.67859	20	20	02.69	-12	32	10.9		413
1979	MO4	*	1979	06	25.66181	20	21	16.21	-16	58	04.4	20.0	413
1979	MO4		1979	06	29.70984	20	18	51.16	-17	06	16.8		413
1979	MP4		1979	06	24.63611	20	21	53.27	-13	13	03.2		413
1979	MP4	*	1979	06	25.66181	20	21	22.07	-13	12	50.1	20.0	413
1979	MP4		1979	06	29.70984	20	19	04.10	-13	13	15.4		413
1979	MQ4		1979	06	23.63125	20	22	32.37	-12	05	47.4		413
1979	MQ4		1979	06	24.63611	20	22	00.23	-12	04	15.2		413
1979	MQ4	*	1979	06	25.66181	20	21	26.36	-12	02	45.5	18.5	413
1979	MQ4		1979	06	29.70984	20	19	02.27	-11	57	46.9		413
1979	MR4		1979	06	23.63125	20	22	58.85	-12	19	28.2		413
1979	MR4		1979	06	24.63611	20	22	23.44	-12	19	35.6		413
1979	MR4	*	1979	06	25.66181	20	21	45.85	-12	19	51.0	16.5	413
1979	MR4		1979	06	29.67859	20	19	04.69	-12	22	01.8		413
1979	MS4		1979	06	23.63125	20	22	40.19	-15	35	43.7		413
1979	MS4		1979	06	24.63611	20	22	14.63	-15	38	05.5		413
1979	MS4	*	1979	06	25.66181	20	21	46.72	-15	40	38.0	19.5	413
1979	MS4		1979	06	29.67859	20	19	39.53	-15	52	08.2		413
1979	MT4		1979	06	23.63125	20	23	07.17	-13	50	34.2		413
1979	MT4		1979	06	24.63611	20	22	28.87	-13	47	46.5		413
1979	MT4	*	1979	06	25.66181	20	21	48.47	-13	45	01.5	18.5	413
1979	MT4		1979	06	29.70984	20	18	55.99	-13	34	52.3		413
1979	MU4		1979	06	23.63125	20	23	15.36	-16	38	46.0		413
1979	MU4		1979	06	24.63611	20	22	47.52	-16	40	43.2		413
1979	MU4	*	1979	06	25.66181	20	22	17.20	-16	42	50.7	18.5	413
1979	MV4		1979	06	23.63125	20	23	41.62	-16	09	00.2		413
1979	MV4		1979	06	24.69049	20	23	02.75	-16	08	20.6		413
1979	MV4	*	1979	06	25.66181	20	22	25.27	-16	07	52.1	19.0	413
1979	MV4		1979	06	29.67859	20	19	33.46	-16	06	58.3		413
1979	MW4		1979	06	24.63611	20	22	59.95	-15	14	16.3		413
1979	MW4	*	1979	06	25.66181	20	22	26.90	-15	19	16.7	20.0	413
1979	MW4		1979	06	29.67859	20	20	05.36	-15	40	04.6		413
1979	MX4		1979	06	23.63125	20	23	22.43	-12	10	06.0		413
1979	MX4		1979	06	24.63611	20	22	56.51	-12	02	20.6		413
1979	MX4	*	1979	06	25.66181	20	22	28.11	-11	54	30.6	16.5	413
1979	MY4		1979	06	24.69049	20	23	03.79	-14	47	09.0		413
1979	MY4	*	1979	06	25.66181	20	22	39.49	-14	37	34.3	20.0	413
1979	MY4		1979	06	29.67859	20	20	38.03	-13	58	10.9		413
1979	MZ4		1979	06	23.63125	20	23	17.81	-15	32	52.5		413
1979	MZ4		1979	06	24.63611	20	23	01.67	-15	38	09.0		413
1979	MZ4	*	1979	06	25.66181	20	22	43.35	-15	43	44.6	18.0	413
1979	MZ4		1979	06	29.70984	20	21	13.44	-16	07	43.6		413
1979	MA5		1979	06	23.63125	20	23	54.14	-12	13	00.0		413
1979	MA5		1979	06	24.63611	20	23	22.98	-12	11	08.5		413
1979	MA5	*	1979	06	25.66181	20	22	49.95	-12	09	19.0	18.5	413
1979	MA5		1979	06	29.70984	20	20	28.18	-12	03	05.4		413
1979	MB5		1979	06	23.63125	20	23	43.31	-13	10	02.8		413
1979	MB5		1979	06	24.63611	20	23	23.36	-13	09	11.0		413
1979	MB5	*	1979	06	25.66181	20	23	01.22	-13	08	26.3	18.0	413
1979	MB5		1979	06	29.67859	20	21	17.72	-13	06	57.4		413
1979	MC5		1979	06	23.62778	20	23	53.35	-11	56	37.7		413
1979	MC5		1979	06	24.63611	20	23	29.96	-11	56	25.4		413
1979	MC5	*	1979	06	25.66181	20	23	04.07	-11	56	21.7	20.0	413
1979	MC5		1979	06	29.70984	20	21	02.82	-11	57	46.3		413

1979 MD5	1979 06	23.63125	20 24	26.88	-17 49	37.4		413
1979 MD5	1979 06	24.63611	20 23	59.41	-17 55	17.4		413
1979 MD5 *	1979 06	25.66181	20 23	29.99	-18 01	11.9	19.5	413
1979 ME5	1979 06	23.64167	20 24	49.16	-12 43	26.2		413
1979 ME5	1979 06	24.69049	20 24	15.20	-12 45	57.9		413
1979 ME5 *	1979 06	25.66181	20 23	42.16	-12 48	28.7	20.0	413
1979 ME5	1979 06	29.67859	20 21	11.40	-13 00	14.2		413
1979 MF5	1979 06	24.63611	20 24	24.46	-17 42	35.2		413
1979 MF5 *	1979 06	25.66181	20 23	50.97	-17 42	04.8	20.0	413
1979 MF5	1979 06	29.70984	20 21	24.88	-17 40	50.9		413
1979 MG5	1979 06	23.63125	20 24	25.56	-13 43	06.0		413
1979 MG5	1979 06	24.69049	20 24	08.93	-13 39	43.8		413
1979 MG5 *	1979 06	25.66181	20 23	51.84	-13 36	48.0	17.5	413
1979 MG5	1979 06	29.70984	20 22	19.90	-13 26	03.5		413
1979 MH5	1979 06	24.63611	20 24	38.28	-17 24	20.7		413
1979 MH5 *	1979 06	25.66181	20 24	07.04	-17 24	33.1	20.0	413
1979 MJ5	1979 06	23.63125	20 25	22.25	-13 18	10.9		413
1979 MJ5	1979 06	24.69049	20 24	45.79	-13 19	36.4		413
1979 MJ5 *	1979 06	25.66181	20 24	10.71	-13 21	02.5	18.5	413
1979 MJ5	1979 06	29.67859	20 21	30.27	-13 28	19.3		413
1979 MK5	1979 06	23.63125	20 25	38.87	-15 18	42.6		413
1979 MK5 *	1979 06	25.66181	20 24	28.28	-15 20	21.7	19.5	413
1979 MK5	1979 06	29.67859	20 21	52.45	-15 24	45.4		413
1979 ML5	1979 06	24.63611	20 25	22.16	-12 28	26.6		413
1979 ML5 *	1979 06	25.66181	20 24	52.93	-12 29	25.2	20.0	413
1979 ML5	1979 06	29.70984	20 22	44.30	-12 34	39.4		413
1979 MM5	1979 06	23.63125	20 26	02.65	-17 32	56.5		413
1979 MM5	1979 06	24.63611	20 25	34.91	-17 33	25.0		413
1979 MM5 *	1979 06	25.66181	20 25	04.77	-17 33	59.8	18.5	413
1979 MM5	1979 06	29.67859	20 22	49.80	-17 37	13.5		413
1979 MN5	1979 06	24.63611	20 25	53.85	-15 56	22.4		413
1979 MN5 *	1979 06	25.66181	20 25	24.09	-15 58	23.9	20.0	413
1979 MN5	1979 06	29.67859	20 23	13.79	-16 07	24.9		413
1979 MO5	1979 06	23.62778	20 26	22.86	-12 51	18.1		413
1979 MO5	1979 06	24.69049	20 25	54.05	-12 48	49.2		413
1979 MO5 *	1979 06	25.66181	20 25	25.91	-12 46	42.0	20.0	413
1979 MO5	1979 06	29.70984	20 23	09.48	-12 39	18.6		413
1979 MP5	1979 06	23.62778	20 25	59.49	-16 23	06.4		413
1979 MP5	1979 06	24.63611	20 25	48.31	-16 25	04.8		413
1979 MP5 *	1979 06	25.66181	20 25	34.82	-16 27	14.0	19.5	413
1979 MP5	1979 06	29.70984	20 24	21.81	-16 37	31.1		413
1979 MQ5	1979 06	24.69049	20 26	05.62	-12 47	36.8		413
1979 MQ5 *	1979 06	25.66181	20 25	35.02	-12 45	46.0	20.0	413
1979 MQ5	1979 06	29.67859	20 23	17.46	-12 38	56.1		413
1979 MR5	1979 06	23.63125	20 26	33.61	-17 50	26.7		413
1979 MR5	1979 06	24.63611	20 26	08.15	-17 50	20.1		413
1979 MR5 *	1979 06	25.66181	20 25	40.30	-17 50	19.0	18.5	413
1979 MR5	1979 06	29.67859	20 23	32.02	-17 51	16.9		413
1979 MS5	1979 06	23.63125	20 26	47.54	-17 33	56.6		413
1979 MS5	1979 06	24.69049	20 26	15.60	-17 38	57.0		413
1979 MS5 *	1979 06	25.66181	20 25	44.71	-17 43	42.1	20.0	413
1979 MS5	1979 06	29.67859	20 23	20.26	-18 04	31.8		413
1979 MT5	1979 06	24.63611	20 26	18.56	-12 48	11.2		413
1979 MT5 *	1979 06	25.66181	20 25	44.79	-12 52	37.4	20.0	413
1979 MT5	1979 06	29.70984	20 23	20.42	-13 11	22.1		413
1979 MU5	1979 06	24.63611	20 26	40.01	-18 03	25.4		413
1979 MU5 *	1979 06	25.66181	20 26	20.02	-18 05	31.3	19.5	413
1979 MV5 *	1979 06	25.66181	20 26	30.19	-15 30	55.3	20.0	413
1979 MV5	1979 06	29.70984	20 24	12.07	-15 34	55.8		413



1979	MW5	1979	06	24.63611	20	26	57.70	-15	28	40.7		413	
1979	MW5	*	1979	06	25.66181	20	26	42.69	-15	34	17.4	20.0	413
1979	MW5		1979	06	29.70984	20	25	27.77	-15	58	06.4		413
1979	MX5		1979	06	23.63125	20	28	25.24	-15	38	43.4		413
1979	MX5		1979	06	24.63611	20	27	51.46	-15	40	33.5		413
1979	MX5	*	1979	06	25.66181	20	27	15.20	-15	42	32.7	18.5	413
1979	MX5		1979	06	29.67859	20	24	36.40	-15	51	39.3		413
1979	MY5		1979	06	23.63125	20	28	36.17	-14	07	23.6		413
1979	MY5		1979	06	24.63611	20	28	02.14	-14	02	45.9		413
1979	MY5	*	1979	06	25.66181	20	27	25.77	-13	58	07.7	17.0	413
1979	MY5		1979	06	29.67859	20	24	48.37	-13	40	48.4		413
1979	MZ5		1979	06	24.63611	20	27	56.02	-15	41	21.7		413
1979	MZ5	*	1979	06	25.66181	20	27	26.71	-15	40	57.8	19.5	413
1979	MA6		1979	06	23.63125	20	28	33.16	-15	06	35.7		413
1979	MA6		1979	06	24.63611	20	28	01.14	-15	09	41.6		413
1979	MA6	*	1979	06	25.66181	20	27	26.89	-15	12	59.5	18.5	413
1979	MA6		1979	06	29.67859	20	24	56.97	-15	27	15.0		413
1979	MB6		1979	06	23.68681	20	28	07.07	-14	45	01.2		413
1979	MB6		1979	06	24.63611	20	27	50.32	-14	46	16.2		413
1979	MB6	*	1979	06	25.66181	20	27	30.24	-14	47	46.2	18.0	413
1979	MB6		1979	06	29.67859	20	25	51.60	-14	55	24.0		413
1979	MC6		1979	06	23.64167	20	29	13.25	-13	49	58.0		413
1979	MC6		1979	06	24.63611	20	28	41.60	-13	37	47.6		413
1979	MC6	*	1979	06	25.66181	20	28	06.75	-13	25	11.9	18.5	413
1979	MC6		1979	06	29.67859	20	25	30.82	-12	35	58.6		413
1979	MD6		1979	06	24.69049	20	28	39.80	-17	10	34.1		413
1979	MD6	*	1979	06	25.66181	20	28	15.96	-17	13	01.5	20.0	413
1979	MD6		1979	06	29.70984	20	26	23.43	-17	24	00.2		413
1979	ME6		1979	06	24.69049	20	28	53.52	-12	59	53.9		413
1979	ME6	*	1979	06	25.66181	20	28	24.27	-12	55	36.7	20.0	413
1979	ME6		1979	06	29.70984	20	26	02.42	-12	39	00.5		413
1979	MF6		1979	06	24.63611	20	29	09.64	-13	58	18.0		413
1979	MF6	*	1979	06	25.66181	20	28	45.86	-14	01	13.6	20.0	413
1979	MF6		1979	06	29.67859	20	26	55.02	-14	14	27.2		413
1979	MG6		1979	06	23.63125	20	29	36.69	-12	33	13.1		413
1979	MG6		1979	06	24.63611	20	29	13.71	-12	28	37.4		413
1979	MG6	*	1979	06	25.66181	20	28	48.18	-12	24	04.5	18.5	413
1979	MG6		1979	06	29.67859	20	26	48.36	-12	07	38.5		413
1979	MH6		1979	06	24.63611	20	30	04.03	-17	36	55.2		413
1979	MH6	*	1979	06	25.66181	20	29	34.22	-17	41	25.6	20.0	413
1979	MH6		1979	06	29.67859	20	27	26.69	-17	59	55.9		413
1979	MJ6		1979	06	24.69049	20	30	18.77	-16	58	32.3		413
1979	MJ6	*	1979	06	25.66181	20	30	01.88	-16	59	52.5	20.0	413
1979	MJ6		1979	06	29.70984	20	28	32.17	-17	06	57.7		413
1979	MK6		1979	06	23.64167	20	31	07.23	-15	47	20.6		413
1979	MK6		1979	06	24.63611	20	30	40.02	-15	48	50.3		413
1979	MK6	*	1979	06	25.66181	20	30	10.42	-15	50	27.0	19.0	413
1979	MK6		1979	06	29.70984	20	27	59.58	-15	57	56.3		413
1979	ML6		1979	06	24.63611	20	30	33.75	-14	05	36.0		413
1979	ML6	*	1979	06	25.66181	20	30	12.96	-14	07	40.4	18.5	413
1979	ML6		1979	06	29.67859	20	28	33.88	-14	17	29.4		413
1979	MM6		1979	06	23.62778	20	31	16.06	-13	26	13.5		413
1979	MM6		1979	06	24.69049	20	30	45.95	-13	26	16.1		413
1979	MM6	*	1979	06	25.66181	20	30	16.87	-13	26	23.7	19.5	413
1979	MM6		1979	06	29.70984	20	28	05.14	-13	27	50.3		413
1979	MN6		1979	06	23.63125	20	31	30.22	-17	28	23.6		413
1979	MN6		1979	06	24.63611	20	30	57.44	-17	31	06.5		413
1979	MN6	*	1979	06	25.66181	20	30	22.22	-17	33	59.2	19.0	413
1979	MN6		1979	06	29.67859	20	27	45.73	-17	46	31.9		413

1979	MO6	1979	06	23.63125	20	31	29.77	-16	45	56.2		413	
1979	MO6	1979	06	24.63611	20	31	03.57	-16	51	06.3		413	
1979	MO6	*	1979	06	25.66181	20	30	35.36	-16	56	28.6	18.5	413
1979	MO6		1979	06	29.67859	20	28	30.71	-17	18	52.8		413
1979	MP6		1979	06	24.63611	20	31	14.42	-16	06	17.6		413
1979	MP6	*	1979	06	25.66181	20	30	42.39	-16	05	43.1	19.5	413
1979	MP6		1979	06	29.70984	20	28	22.23	-16	04	19.6		413
1979	MQ6		1979	06	24.63611	20	31	39.09	-16	18	58.2		413
1979	MQ6	*	1979	06	25.66181	20	31	01.94	-16	17	49.7	19.0	413
1979	MQ6		1979	06	29.67859	20	28	17.62	-16	14	23.3		413
1979	MR6		1979	06	23.62778	20	32	04.17	-12	43	18.0		413
1979	MR6		1979	06	24.63611	20	31	37.42	-12	44	42.3		413
1979	MR6	*	1979	06	25.66181	20	31	08.27	-12	46	18.1	19.5	413
1979	MR6		1979	06	29.67859	20	28	55.36	-12	54	24.4		413
1979	MS6		1979	06	23.63125	20	32	18.67	-12	06	02.7		413
1979	MS6		1979	06	24.63611	20	31	44.98	-12	04	57.8		413
1979	MS6	*	1979	06	25.66181	20	31	09.18	-12	03	58.9	17.5	413
1979	MS6		1979	06	29.67859	20	28	34.44	-12	01	19.4		413
1979	MT6		1979	06	23.62778	20	32	44.15	-14	45	30.5		413
1979	MT6		1979	06	24.63611	20	32	09.27	-14	42	16.0		413
1979	MT6	*	1979	06	25.66181	20	31	32.44	-14	39	04.9	20.0	413
1979	MU6		1979	06	24.63611	20	32	31.54	-13	12	18.3		413
1979	MU6	*	1979	06	25.66181	20	32	05.16	-13	17	09.1	20.0	413
1979	MU6		1979	06	29.70984	20	30	08.29	-13	37	46.1		413
1979	MV6		1979	06	23.64167	20	33	09.40	-13	18	02.3		413
1979	MV6		1979	06	24.63611	20	32	43.67	-13	17	15.7		413
1979	MV6	*	1979	06	25.66181	20	32	15.25	-13	16	34.9	17.0	413
1979	MV6		1979	06	29.67859	20	30	07.45	-13	15	16.9		413
1979	MW6		1979	06	24.63611	20	32	56.34	-14	46	13.5		413
1979	MW6	*	1979	06	25.66181	20	32	27.28	-14	47	04.9	20.0	413
1979	MW6		1979	06	29.67859	20	30	18.59	-14	51	35.6		413
1979	MX6		1979	06	23.62778	20	09	15.12	-13	40	49.5		413
1979	MX6		1979	06	24.63611	20	08	36.41	-13	38	02.9		413
1979	MX6	*	1979	06	25.71042	20	07	53.25	-13	35	13.1	17.0	413
1979	MY6		1979	06	24.69049	20	10	03.63	-15	16	38.1		413
1979	MY6	*	1979	06	25.71042	20	09	36.91	-15	17	37.1	20.0	413
1979	MY6		1979	06	29.70984	20	07	33.83	-15	22	53.7		413
1979	MZ6		1979	06	23.63125	20	10	38.32	-15	31	03.7		413
1979	MZ6		1979	06	24.63611	20	10	10.66	-15	28	48.8		413
1979	MZ6	*	1979	06	25.71042	20	09	39.07	-15	26	32.2	18.0	413
1979	MZ6		1979	06	29.70984	20	07	23.35	-15	19	06.1		413
1979	MA7		1979	06	24.63611	20	10	26.55	-15	56	25.4		413
1979	MA7	*	1979	06	25.71042	20	09	47.73	-15	56	40.4	20.0	413
1979	MA7		1979	06	29.70984	20	07	10.81	-15	58	27.8		413
1979	MB7		1979	06	23.63125	20	11	15.25	-13	32	09.0		413
1979	MB7		1979	06	24.69049	20	10	42.42	-13	31	16.3		413
1979	MB7	*	1979	06	25.71042	20	10	09.40	-13	30	33.2	20.0	413
1979	MB7		1979	06	29.67859	20	07	45.36	-13	28	50.5		413
1979	MC7		1979	06	24.69049	20	10	48.81	-16	14	39.6		413
1979	MC7	*	1979	06	25.71042	20	10	23.15	-16	16	55.8	20.0	413
1979	MC7		1979	06	29.67859	20	08	25.36	-16	27	10.3		413
1979	MD7		1979	06	24.63611	20	11	16.91	-16	13	25.2		413
1979	MD7	*	1979	06	25.71042	20	10	32.09	-16	18	04.2	20.0	413
1979	MD7		1979	06	29.70984	20	07	29.32	-16	36	40.1		413
1979	ME7		1979	06	23.63125	20	12	26.28	-13	51	57.4		413
1979	ME7		1979	06	24.69049	20	11	43.54	-13	48	30.4		413
1979	ME7	*	1979	06	25.71042	20	11	00.84	-13	45	15.2	18.5	413
1979	ME7		1979	06	29.67859	20	08	02.25	-13	33	14.0		413
1979	MF7		1979	06	23.62778	20	12	06.27	-16	05	14.0		413

1979 MF7	1979 06 24.63611	20 11 38.15	-16 08 34.7		413
1979 MF7 *	1979 06 25.71042	20 11 06.76	-16 12 16.3	20.0	413
1979 MG7	1979 06 24.69049	20 12 23.34	-15 39 20.8		413
1979 MG7 *	1979 06 25.71042	20 11 49.03	-15 40 36.5	20.0	413
1979 MG7	1979 06 29.70984	20 09 20.58	-15 46 31.1		413
1979 MH7	1979 06 24.63611	20 12 40.01	-12 41 23.2		413
1979 MH7 *	1979 06 25.71042	20 12 00.92	-12 46 50.9	18.5	413
1979 MH7	1979 06 29.67859	20 09 24.67	-13 08 22.0		413
1979 MJ7 *	1979 06 25.71042	20 12 25.73	-16 07 56.0	20.0	413
1979 MJ7	1979 06 29.70984	20 10 13.57	-16 20 44.2		413
1979 MK7	1979 06 23.62778	20 13 45.20	-16 13 59.7		413
1979 MK7	1979 06 24.63611	20 13 11.40	-16 14 56.1		413
1979 MK7 *	1979 06 25.71042	20 12 33.92	-16 16 00.0	20.0	413
1979 MK7	1979 06 29.70984	20 10 04.77	-16 20 36.5		413
1979 ML7	1979 06 24.69049	20 13 22.84	-17 50 10.3		413
1979 ML7 *	1979 06 25.71042	20 12 55.72	-17 53 37.4	19.5	413
1979 ML7	1979 06 29.67859	20 10 51.77	-18 08 25.5		413
1979 MM7	1979 06 23.62778	20 14 10.77	-13 47 13.8		413
1979 MM7	1979 06 24.63611	20 13 46.34	-13 48 42.7		413
1979 MM7 *	1979 06 25.71042	20 13 17.88	-13 50 30.6	19.0	413
1979 MM7	1979 06 29.67859	20 11 13.42	-13 59 05.3		413
1979 MN7	1979 06 23.62778	20 14 30.79	-13 05 00.7		413
1979 MN7	1979 06 24.69049	20 13 56.85	-13 06 59.8		413
1979 MN7 *	1979 06 25.71042	20 13 22.77	-13 09 04.2	20.0	413
1979 MN7	1979 06 29.67859	20 10 55.62	-13 18 25.4		413
1979 MO7	1979 06 24.63611	20 14 17.80	-12 14 11.7		413
1979 MO7 *	1979 06 25.71042	20 13 43.41	-12 13 46.0	20.0	413
1979 MO7	1979 06 29.67859	20 11 26.45	-12 13 03.9		413
1979 MP7	1979 06 24.69049	20 14 50.68	-14 09 17.8		413
1979 MP7 *	1979 06 25.71042	20 14 24.03	-14 10 47.5	20.0	413
1979 MQ7 *	1979 06 25.71042	20 15 19.25	-17 04 35.7	20.0	413
1979 MQ7	1979 06 29.70984	20 12 08.68	-17 03 21.9		413
1979 MR7	1979 06 24.69049	20 16 08.91	-17 37 44.7		413
1979 MR7 *	1979 06 25.71042	20 15 34.14	-17 33 29.6	20.0	413
1979 MR7	1979 06 29.70984	20 12 58.00	-17 17 13.6		413
1979 MS7	1979 06 23.62778	20 17 23.47	-15 06 47.3		413
1979 MS7	1979 06 24.69049	20 16 51.74	-15 05 24.4		413
1979 MS7 *	1979 06 25.71042	20 16 20.30	-15 04 17.1	20.0	413
1979 MS7	1979 06 29.70984	20 14 01.61	-15 00 39.6		413
1979 MT7	1979 06 24.69049	20 17 08.30	-13 28 43.3		413
1979 MT7 *	1979 06 25.71042	20 16 32.14	-13 30 28.6	20.0	413
1979 MT7	1979 06 29.67859	20 13 59.06	-13 38 21.2		413
1979 MU7	1979 06 23.63125	20 20 04.27	-13 06 26.0		413
1979 MU7	1979 06 24.63611	20 19 53.74	-13 00 42.8		413
1979 MU7 *	1979 06 25.71042	20 19 39.90	-12 54 46.2	18.5	413
1979 MU7	1979 06 29.67859	20 18 28.75	-12 34 08.2		413
1979 MV7	1979 06 24.63611	20 20 34.83	-13 04 10.2		413
1979 MV7 *	1979 06 25.71042	20 20 03.46	-13 04 07.3	19.5	413
1979 MV7	1979 06 29.67859	20 17 55.15	-13 04 56.7		413
1979 MW7	1979 06 23.63125	20 21 40.44	-13 54 13.8		413
1979 MW7 *	1979 06 25.71042	20 20 46.84	-13 49 33.6	20.0	413
1979 MW7	1979 06 29.70984	20 18 40.14	-13 42 21.3		413
1979 MX7	1979 06 24.69049	20 22 16.06	-16 45 13.7		413
1979 MX7 *	1979 06 25.71042	20 21 43.30	-16 42 32.8	20.0	413
1979 MX7	1979 06 29.70984	20 19 18.18	-16 32 34.1		413
1979 MY7	1979 06 24.63611	20 23 04.17	-17 45 13.0		413
1979 MY7 *	1979 06 25.71042	20 22 26.55	-17 43 00.6	20.0	413
1979 MY7	1979 06 29.70984	20 19 51.89	-17 35 21.0		413
1979 MZ7	1979 06 23.62778	20 23 05.29	-14 43 53.8		413

1979 MZ7	1979 06 24.63611	20 22 48.58	-14 44 37.1		413
1979 MZ7 *	1979 06 25.71042	20 22 28.77	-14 45 33.7	20.0	413
1979 MA8	1979 06 24.63611	20 23 17.58	-15 53 59.8		413
1979 MA8 *	1979 06 25.71042	20 22 44.54	-15 56 00.0	20.0	413
1979 MA8	1979 06 29.70984	20 20 30.47	-16 04 15.1		413
1979 MB8	1979 06 24.63611	20 23 28.10	-12 53 38.3		413
1979 MB8 *	1979 06 25.71042	20 22 50.31	-12 55 55.0	20.0	413
1979 MB8	1979 06 29.67859	20 20 17.92	-13 05 38.0		413
1979 MC8	1979 06 24.69049	20 23 09.45	-16 32 36.1		413
1979 MC8 *	1979 06 25.71042	20 22 50.82	-16 31 48.6	20.0	413
1979 MC8	1979 06 29.67859	20 21 19.44	-16 29 57.7		413
1979 MD8	1979 06 24.63611	20 25 04.12	-12 24 53.3		413
1979 MD8 *	1979 06 25.71042	20 24 26.29	-12 23 50.3	20.0	413
1979 MD8	1979 06 29.70984	20 21 53.86	-12 20 48.8		413
1979 ME8	1979 06 24.63611	20 25 20.97	-13 08 23.5		413
1979 ME8 *	1979 06 25.71042	20 24 40.19	-13 09 24.9	19.5	413
1979 ME8	1979 06 29.67859	20 21 54.59	-13 14 24.3		413
1979 MF8	1979 06 24.63611	20 25 24.10	-17 15 11.0		413
1979 MF8 *	1979 06 25.71042	20 24 52.42	-17 16 43.1	20.0	413
1979 MG8	1979 06 24.63611	20 25 41.60	-15 37 50.6		413
1979 MG8 *	1979 06 25.71042	20 25 10.47	-15 42 34.3	20.0	413
1979 MG8	1979 06 29.67859	20 23 03.74	-16 01 14.6		413
1979 MH8	1979 06 24.69049	20 25 49.44	-14 56 05.0		413
1979 MH8 *	1979 06 25.71042	20 25 33.04	-14 56 04.3	20.0	413
1979 MH8	1979 06 29.67859	20 24 10.06	-14 57 35.1		413
1979 MJ8	1979 06 24.69049	20 26 04.18	-13 26 47.8		413
1979 MJ8 *	1979 06 25.71042	20 25 34.40	-13 25 57.7	20.0	413
1979 MJ8	1979 06 29.67859	20 23 23.23	-13 23 46.4		413
1979 MK8	1979 06 24.69049	20 26 25.43	-15 19 15.2		413
1979 MK8 *	1979 06 25.71042	20 26 02.43	-15 19 27.7	20.0	413
1979 MK8	1979 06 29.67859	20 24 14.16	-15 21 46.6		413
1979 ML8	1979 06 24.69049	20 26 41.10	-14 48 05.3		413
1979 ML8 *	1979 06 25.71042	20 26 05.07	-14 50 11.6	20.0	413
1979 ML8	1979 06 29.67859	20 23 29.52	-14 59 29.4		413
1979 MM8	1979 06 23.63125	20 27 28.90	-13 13 33.5		413
1979 MM8	1979 06 24.63611	20 27 06.26	-13 13 52.9		413
1979 MM8 *	1979 06 25.71042	20 26 40.15	-13 14 22.8	18.5	413
1979 MM8	1979 06 29.67859	20 24 46.94	-13 17 44.3		413
1979 MN8	1979 06 24.69049	20 27 41.55	-13 07 02.5		413
1979 MN8 *	1979 06 25.71042	20 27 15.49	-13 07 14.2	20.0	413
1979 MO8	1979 06 23.63125	20 28 37.42	-16 59 09.7		413
1979 MO8	1979 06 24.63611	20 28 05.71	-16 57 11.9		413
1979 MO8 *	1979 06 25.71042	20 27 30.32	-16 55 08.5	20.0	413
1979 MO8	1979 06 29.67859	20 25 06.83	-16 48 09.0		413
1979 MP8 *	1979 06 25.71042	20 27 36.88	-17 45 54.9	20.0	413
1979 MP8	1979 06 29.67859	20 25 00.66	-17 45 24.4		413
1979 MQ8	1979 06 24.69049	20 28 17.33	-17 06 36.3		413
1979 MQ8 *	1979 06 25.71042	20 27 44.00	-17 09 24.6	20.0	413
1979 MQ8	1979 06 29.67859	20 25 19.88	-17 21 21.6		413
1979 MR8 *	1979 06 25.71042	20 27 45.47	-16 15 59.2	20.0	413
1979 MR8	1979 06 29.70984	20 25 31.44	-16 33 19.5		413
1979 MS8	1979 06 23.63125	20 29 53.61	-16 55 34.7		413
1979 MS8	1979 06 24.63611	20 29 28.83	-16 56 30.1		413
1979 MS8 *	1979 06 25.71042	20 29 00.72	-16 57 32.7	16.5	413
1979 MS8	1979 06 29.70984	20 27 02.12	-17 02 24.8		413
1979 MT8	1979 06 23.62778	20 30 28.01	-12 27 26.3		413
1979 MT8	1979 06 24.63611	20 29 57.56	-12 27 32.5		413
1979 MT8 *	1979 06 25.71042	20 29 23.75	-12 27 45.1	20.0	413
1979 MT8	1979 06 29.70984	20 27 07.18	-12 29 28.2		413

1979 MU8	1979 06 23.64167	20 31 03.42	-14 10 49.1		413
1979 MU8	1979 06 24.63611	20 30 34.08	-14 16 44.9		413
1979 MU8 *	1979 06 25.71042	20 30 00.67	-14 23 19.1	18.0	413
1979 MU8	1979 06 29.67859	20 27 43.09	-14 49 07.3		413
1979 MV8	1979 06 24.63611	20 31 01.81	-12 08 01.4		413
1979 MV8 *	1979 06 25.71042	20 30 43.71	-12 10 26.1	20.0	413
1979 MV8	1979 06 29.70984	20 29 18.38	-12 21 26.0		413
1979 MW8	1979 06 24.69049	20 31 10.96	-16 26 10.8		413
1979 MW8 *	1979 06 25.71042	20 30 46.68	-16 29 31.1	20.0	413
1979 MW8	1979 06 29.67859	20 28 57.37	-16 43 52.2		413
1979 MX8	1979 06 24.63611	20 31 48.05	-17 06 34.9		413
1979 MX8 *	1979 06 25.71042	20 31 17.61	-17 07 49.2	20.0	413
1979 MX8	1979 06 29.70984	20 29 10.75	-17 13 23.0		413
1979 MY8 *	1979 06 25.71042	20 31 41.85	-17 47 10.7	20.0	413
1979 MY8	1979 06 29.70984	20 29 34.19	-17 57 00.7		413
1979 MZ8	1979 06 24.63611	20 32 16.70	-13 56 17.4		413
1979 MZ8 *	1979 06 25.71042	20 31 43.52	-13 53 49.4	20.0	413
1979 MZ8	1979 06 29.67859	20 29 26.43	-13 45 27.3		413
1979 MA9	1979 06 24.69049	20 32 14.40	-12 11 25.8		413
1979 MA9 *	1979 06 25.71042	20 31 47.24	-12 15 31.9	20.0	413
1979 MA9	1979 06 29.67859	20 29 51.69	-12 32 32.2		413
1979 MB9	1979 06 24.63611	20 32 35.59	-17 03 51.4		413
1979 MB9 *	1979 06 25.71042	20 32 04.70	-17 05 32.5	20.0	413
1979 MB9	1979 06 29.67859	20 30 00.00	-17 12 29.6		413
1979 MC9	1979 06 23.62778	20 32 53.14	-14 40 22.5		413
1979 MC9	1979 06 24.63611	20 32 33.35	-14 40 38.5		413
1979 MC9 *	1979 06 25.71042	20 32 09.68	-14 41 07.2	20.0	413
1979 MC9	1979 06 29.70984	20 30 22.93	-14 44 30.3		413

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

Object	Date	UT	R. A. (1950)	Decl.	Obs.
1979 QB	1979 08 16.56759	21 49 29.95	-17 49 05.0		413
1979 QB	1979 08 16.61273	21 49 29.80	-17 48 40.6		413
1979 QB	1979 09 21.49149	22 02 04.46	-09 55 30.9		413
1979 QB	1979 09 21.54010	22 02 07.04	-09 54 39.9		413

## OBSERVATIONS MADE AT OSSERVATORIO S. VITTORE.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1979 QF	1979 08 29.92778	23 31 35.66	+13 10 38.6		15.0	552
1979 QF	1979 08 29.93681	23 31 35.34	+13 10 35.2			552
1979 QF	1979 09 16.96597	23 19 09.02	+10 21 44.8			552
1979 QF	1979 09 16.98056	23 19 08.50	+10 21 33.9			552
1979 QF	1979 09 17.87847	23 18 29.07	+10 11 07.2			552
1979 QF	1979 09 17.89306	23 18 28.39	+10 10 57.2			552
1979 QF	1979 09 18.88889	23 17 44.86	+09 59 08.6			552
1979 QF	1979 09 18.90625	23 17 44.47	+09 58 58.2			552
1979 QF	1979 09 26.88542	23 12 13.36	+08 19 40.9			552
1979 QF	1979 09 26.90069	23 12 12.13	+08 19 27.9			552
1979 QF	1979 09 27.86389	23 11 35.77	+08 07 06.3			552
1979 QF	1979 09 27.88125	23 11 35.01	+08 06 52.0			552
1979 SA *	1979 09 16.96597	23 17 31.46	+10 33 21.7		15.5	552
1979 SA	1979 09 16.98056	23 17 30.87	+10 33 13.9			552
1979 SA	1979 09 17.87847	23 16 55.30	+10 26 16.6			552
1979 SA	1979 09 17.89306	23 16 54.87	+10 26 09.2			552
1979 SA	1979 09 18.88889	23 16 15.64	+10 18 25.0			552
1979 SA	1979 09 18.90625	23 16 14.97	+10 18 17.1			552
1979 SA	1979 09 26.91875	23 11 08.22	+09 12 56.2			552
1979 SA	1979 09 26.93333	23 11 07.79	+09 12 47.3			552

1979 SA	1979 09 27.89653	23 10 32.60	+09 04 39.9	552
1979 SA	1979 09 27.91111	23 10 32.08	+09 04 32.3	552

## OBSERVATIONS MADE AT MOUNT WILSON OBSERVATORY BY L. E. CUNNINGHAM. MEASURED BY A. G. MOWBRAY.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1951 SX	1951 10 27.37773	03 11 38.91	-29 39 10.5	17	672	
1951 SX	1951 10 27.38155	03 11 38.76	-29 39 25.1		672	
1951 SX	1951 10 27.38433	03 11 38.73	-29 39 35.3		672	

## OBSERVATIONS MADE WITH THE 1.2-M SCHMIDT TELESCOPE AT PALOMAR.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
/1979h	1979 07 25.18333	19 24 55.09	-17 50 26.4	19	T	9	675
/1979h	1979 07 25.23542	19 24 53.95	-17 50 33.1			8	675
1951 SX *	1951 09 29.40069	03 06 01.23	+06 21 56.8			2	675
1951 SX	1951 10 02.38750	03 08 17.91	+02 37 24.3			2	675
1951 SX	1951 10 04.37778	03 09 35.21	+00 01 28.7			2	675
1951 SX	1951 10 05.39410	03 10 10.39	-01 19 44.2			5	675
1951 SX	1951 10 07.40903	03 11 11.55	-04 03 13.7			2	675
1954 WZ *	1954 11 20.20000	01 29 44.4	-03 15 18	17		6	675
1954 WZ	1954 11 20.23472	01 29 28.6	-03 17 04			6	675
1979 QG *	1979 08 22.32917	21 50 28.65	-13 59 37.8	17		7	675
1979 QG	1979 08 22.38125	21 50 25.80	-14 00 21.5			7	675
1979 QG	1979 08 23.29861	21 49 37.97	-14 13 39.9			7	675
1979 QG	1979 08 23.34028	21 49 35.75	-14 14 13.9			7	675
1979 SB *	1979 09 20.21597	23 32 49.59	-08 27 06.1	17.0		8	675
1979 SB	1979 09 20.26806	23 32 43.15	-08 26 14.0			8	675
1979 SB	1979 09 21.21319	23 30 45.28	-08 10 15.2	17.0		8	675
1979 SB	1979 09 21.26528	23 30 38.71	-08 09 22.5			8	675

Note 1: correction to MPC 4904. 2: observers A. G. Wilson and R. G. Harrington, measurers A. G. Mowbray and J. Gibson. 3: time of observation changed by -30 seconds. 5 = 2 + 3. 6: end of long trail, discovered by R. Weinberger on the blue and red Palomar Sky Survey prints. 7: observer E. Helin, measurer S. J. Bus. 8: observer C. T. Kowal. 9 = 1 + 8.

## OBSERVATION MADE AT THE EUROPEAN SOUTHERN OBSERVATORY. MEASURED BY R. M. WEST.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1979 MF	1979 07 21.14907	17 19 37.54	-13 10 25.2	17.5	809	

## OBSERVATIONS MADE AT THE HARVARD 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.
/1975 VII	1979 09 01.23172	23 06 01.90	-14 50 52.5	20	N	801
/1975 VII	1979 09 17.15370	22 57 05.75	-15 43 01.8	19	T	801
/1977s	1979 09 16.24902	00 12 00.56	-03 53 14.9			801
/1977s	1979 09 17.23294	00 11 24.29	-03 58 51.9	17	T	801
/1977s	1979 09 18.24910	00 10 46.72	-04 04 37.6			801
/1979c	1979 09 21.17914	22 33 16.71	+35 49 10.1	18	T	801
/1979c	1979 09 21.27155	22 32 26.96	+35 31 39.5			801
/1979c	1979 09 24.18890	22 11 01.23	+26 53 09.8	19	T	801
/1979i	1979 09 21.09129	13 32 17.8	+68 13 50.6			801
/1979i	1979 09 24.15238	13 26 14.02	+67 03 04.7			801
/1979i	1979 09 27.04782	13 21 13.71	+65 58 50.8	12	T	801
306	1979 09 16.11323	22 17 12.77	-15 37 05.7	12		801
306	1979 09 18.19046	22 16 05.61	-15 51 13.3			801
306	1979 09 19.20472	22 15 35.32	-15 57 44.2			801
1979 SC	1979 09 16.24902	00 11 11.42	-04 04 49.2			801

1979 SC *	1979 09 17.23294	00 10 11.23	-04 09 27.2	17	801
1979 SC	1979 09 18.24910	00 09 09.06	-04 14 06.3		801
1979 SD	1979 09 16.24902	00 12 20.42	-04 01 28.4		801
1979 SD *	1979 09 17.23294	00 11 31.63	-04 05 54.6	18	801
1979 SD	1979 09 18.24910	00 10 40.79	-04 10 26.9		801
1979 SE *	1979 09 16.11323	22 16 47.33	-15 36 07.0	17.5	801
1979 SE	1979 09 18.19046	22 15 23.97	-15 42 51.9	17.5	801
1979 SE	1979 09 19.20472	22 14 44.80	-15 45 57.0		801
1979 SE	1979 09 21.20940	22 13 30.05	-15 51 36.7	17.5	801
1979 SE	1979 09 27.20645	22 10 13.71	-16 05 18.1		801
6512 P-L	1979 09 16.11323	22 16 28.80	-15 46 01.3		801
6512 P-L	1979 09 18.19046	22 14 47.18	-15 47 00.1		801
6512 P-L	1979 09 19.20472	22 13 59.74	-15 47 11.9		801
6512 P-L	1979 09 21.20940	22 12 29.50	-15 47 08.2		801
6512 P-L	1979 09 27.20645	22 08 39.12	-15 42 57.3		801

OBSERVATIONS MADE AT THE LOWELL OBSERVATORY (CODE 690) AND BY H. L. GICLAS  
AT THE ANDERSON MESA STATION (CODE 688). MEASURED BY M. L. KANTZ.

Object	Date	UT	R. A. (1950)	Decl.	N	Obs.
/1979i	1979 09 20.21128	13 34 13.19	+68 34 40.9			688
/1979i	1979 09 22.17222	13 30 02.82	+67 48 37.7			688
1929 TM	1929 10 01.34375	00 46.15	+01 21.1			690
1929 TM	1929 10 11.33333	00 37.17	+00 54.2			690
1929 TM	1929 10 12.36606	00 36.28	+00 51.0			690
1959 EM	1959 03 11.20486	10 26 06.38	+09 39 17.5			690
1959 EM	1959 03 12.20139	10 25 38.99	+09 42 44.1			690
407	1979 07 15.25243	16 48 36.41	-27 33 00.2			688
710	1979 08 23.25833	20 21 33.78	-19 06 32.7			688
949	1979 07 25.19931	17 20 11.58	-34 25 40.2			688
1105	1979 07 15.29792	20 44 03.56	-19 45 44.9			688
1886	1979 08 23.22407	19 56 56.44	-39 33 21.9			688
2165	1929 10 27.30903	03 24 41.00	+19 22 06.7		1	690
2166	1929 10 05.37500	01 04 17.21	+01 42 19.4			690
2166	1929 10 11.33333	00 58 54.88	+00 52 59.6			690
2166	1929 10 12.36806	00 58 00.14	+00 44 53.2			690

Note 1: remeasurement of observation on MPC 2733.

OBSERVATIONS MADE AT RAYLEIGH (CODE 002) BY F. VAN LOOY, AT STAKENBRIDGE  
(CODE 494) BY B. MANNING AND AT WOOLSTON OBSERVATORY (CODE 993) BY  
H. B. RIDLEY AND P. BIRTWHISTLE. MEASURED BY MANNING, BIRTWHISTLE  
AND R. L. WATERFIELD.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
/1979c	1979 08 29.13854	06 16 36.05	+56 24 21.6		12.5T		494
/1979c	1979 09 15.94244	23 42 41.31	+52 48 54.8		12.0T		993
/1979i	1979 09 22.84236	13 28 43.46	+67 33 01.0		12 T	1	494
/1979i	1979 09 22.85816	13 28 40.96	+67 32 40.3		13.5T		993
/1979i	1979 09 27.82222	13 19 59.35	+65 42 07.4				494
/1979i	1979 09 27.84236	13 19 57.59	+65 41 43.2				494
115	1979 03 21.8299	05 23 41.29	+27 11 19.9				002
115	1979 03 21.8306	05 23 41.39	+27 11 19.3				002
115	1979 03 23.8817	05 27 25.41	+27 03 21.5				002
115	1979 03 23.8946	05 27 26.75	+27 03 18.9				002
324	1978 11 26.7827	02 17 34.24	+37 05 31.2				002
324	1978 11 26.7862	02 17 34.23	+37 05 31.5				002
324	1978 12 25.7771	02 21 04.34	+33 15 16.7				002
324	1978 12 25.9743	02 21 10.32	+33 14 15.0				002
324	1978 12 27.9618	02 22 37.20	+33 01 21.8				002
324	1978 12 27.9639	02 22 37.11	+33 01 21.0				002

Note 1: strongly condensed; forked tail 1'.5 long in p.a. 10 and 45 .

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*   M. P. C. 5000   *
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INDEX TO ORBITAL ELEMENTS.

The following index to orbital elements continues that on MPC 4001-4006 and refers to orbits of both comets and minor planets published since then. Only the latest orbit for each object is indexed, and multiple-designation minor planets are listed only under the principal designation.

Comet	MPC	Comet	MPC	Comet	MPC	Comet	MPC
/1921 I	4601	/1951 IX	4601	/1972 III	4601	/1973 IX	4540
/1973 X	4601	/1973 XI	4602	/1975 II	4602	/1975 III	4602
/1975 VII	4830	/1975 VIII	4602	/1976 IV	4602	/1976 IX	4602
/1976 XII	4540	/1977 III	4603	/1977 IX	4603	/1977 X	4603
/1977 XII	4603	/1977 XIII	4603	/1977 XIV	4540	/1977g	4658
/1977l	4539	/1977o	4603	/1978b	4604	/1978f	4604
/1978j	4604	/1978k	4604	/1978l	4604	/1978m	4604
/1978n	4605	/1978o	4605	/1979a	4772	/1979c	4933
/1979d	4933	/1979e	4933				

Comet	MPC	Comet	MPC	Comet	MPC
P/Brooks 2	4773	P/Forbes	4773	P/Reinmuth 1	4659
P/Reinmuth 2	4773			P/Schwassmann-Wachmann 1	4830
P/Stephan-Oterma	4658	P/Wirtanen	4773		

Planet	MPC	Planet	MPC	Planet	MPC	Planet	MPC	Planet	MPC
(6)	4360	(7)	4360	(8)	4360	(9)	4361	(10)	4361
(11)	4361	(12)	4361	(13)	4361	(14)	4361	(15)	4361
(16)	4824	(17)	4361	(18)	4361	(19)	4361	(20)	4361
(22)	4362	(23)	4362	(24)	4362	(25)	4362	(27)	4362
(28)	4362	(29)	4362	(30)	4362	(31)	4362	(32)	4362
(33)	4362	(34)	4363	(36)	4363	(37)	4363	(40)	4363
(41)	4363	(42)	4363	(43)	4363	(44)	4363	(45)	4363
(46)	4363	(47)	4363	(48)	4364	(49)	4364	(52)	4364
(53)	4736	(54)	4364	(55)	4364	(56)	4364	(57)	4364
(58)	4364	(59)	4364	(60)	4736	(61)	4364	(63)	4364
(64)	4365	(65)	4365	(67)	4365	(68)	4365	(69)	4365
(70)	4365	(71)	4365	(72)	4365	(74)	4365	(78)	4365
(79)	4365	(80)	4366	(83)	4366	(84)	4366	(85)	4473
(87)	4366	(88)	4366	(92)	4366	(93)	4366	(94)	4366
(95)	4366	(96)	4366	(97)	4367	(100)	4367	(103)	4367
(105)	4367	(107)	4367	(114)	4367	(115)	4772	(116)	4367
(121)	4367	(122)	4367	(125)	4367	(128)	4368	(131)	4368
(132)	4368	(135)	4368	(136)	4368	(138)	4737	(139)	4368
(140)	4368	(141)	4368	(144)	4368	(145)	4368	(154)	4368
(156)	4737	(158)	4369	(162)	4369	(164)	4369	(165)	4369
(173)	4369	(184)	4369	(185)	4369	(186)	4369	(187)	4369
(192)	4369	(196)	4369	(198)	4370	(200)	4370	(205)	4737
(208)	4370	(212)	4370	(216)	4370	(221)	4370	(230)	4370
(243)	4370	(247)	4370	(268)	4370	(279)	4370	(283)	4371
(300)	4371	(303)	4371	(306)	4371	(313)	4371	(323)	4371
(324)	4371	(325)	4737	(327)	4371	(329)	4371	(334)	4371
(338)	4371	(339)	4372	(344)	4372	(354)	4372	(356)	4372
(361)	4372	(363)	4737	(364)	4372	(367)	4372	(372)	4372
(374)	4372	(375)	4372	(381)	4372	(385)	4373	(386)	4373



(387) 4373	(388) 4737	(391) 4373	(393) 4373	(398) 4083
(405) 4373	(409) 4373	(415) 4373	(416) 4373	(419) 4373
(420) 4373	(421) 4374	(426) 4374	(434) 4374	(439) 4374
(441) 4374	(444) 4374	(446) 4374	(451) 4374	(453) 4374
(462) 4374	(466) 4374	(481) 4375	(498) 4375	(505) 4375
(510) 4375	(513) 4375	(520) 4737	(525) 4375	(530) 4375
(531) 4824	(532) 4375	(540) 4375	(544) 4375	(554) 4376
(558) 4376	(563) 4376	(574) 4376	(579) 4376	(584) 4376
(588) 4376	(589) 4738	(592) 4376	(594) 4376	(602) 4376
(605) 4376	(609) 4377	(613) 4377	(617) 4377	(624) 4377
(637) 4738	(639) 4377	(641) 4186	(650) 4377	(654) 4377
(658) 4377	(659) 4377	(665) 4377	(674) 4377	(675) 4378
(679) 4378	(694) 4824	(695) 4378	(696) 4378	(702) 4378
(712) 4378	(714) 4378	(737) 4823	(747) 4378	(756) 4378
(758) 4378	(776) 4379	(782) 4379	(783) 4379	(790) 4825
(796) 4825	(798) 4738	(801) 4379	(804) 4379	(814) 4379
(822) 4084	(831) 4379	(839) 4379	(846) 4738	(847) 4379
(849) 4380	(863) 4380	(869) 4380	(884) 4380	(892) 4380
(895) 4380	(903) 4380	(911) 4380	(925) 4380	(932) 4380
(944) 4380	(948) 4084	(952) 4738	(958) 4085	(965) 4344
(973) 4381	(976) 4381	(980) 4381	(990) 4085	(998) 4381
(1006) 4381	(1012) 4381	(1019) 4381	(1025) 4381	(1036) 4381
(1040) 4186	(1043) 4381	(1044) 4381	(1061) 4382	(1073) 4010
(1080) 4186	(1090) 4382	(1091) 4014	(1101) 4382	(1103) 4382
(1109) 4382	(1112) 4738	(1122) 4382	(1125) 4307	(1128) 4008
(1134) 4382	(1141) 4382	(1143) 4739	(1151) 4179	(1156) 4014
(1161) 4382	(1168) 4825	(1172) 4382	(1173) 4383	(1178) 4383
(1187) 4739	(1191) 4086	(1206) 4823	(1208) 4383	(1212) 4383
(1216) 4383	(1222) 4187	(1235) 4383	(1245) 4383	(1253) 4383
(1265) 4383	(1272) 4383	(1276) 4383	(1284) 4384	(1287) 4384
(1293) 4384	(1297) 4384	(1299) 4384	(1303) 4384	(1304) 4384
(1307) 4739	(1311) 4014	(1316) 4407	(1320) 4384	(1322) 4384
(1327) 4384	(1340) 4739	(1361) 4384	(1373) 4385	(1380) 4385
(1381) 4168	(1383) 4739	(1386) 4577	(1393) 4385	(1399) 4385
(1414) 4385	(1422) 4385	(1423) 4187	(1433) 4068	(1437) 4739
(1443) 4385	(1446) 4385	(1451) 4086	(1452) 4385	(1460) 4385
(1464) 4385	(1465) 4831	(1468) 4386	(1473) 4386	(1483) 4086
(1486) 4386	(1493) 4386	(1515) 4407	(1516) 4086	(1521) 4386
(1534) 4386	(1559) 4386	(1565) 4386	(1567) 4386	(1568) 4386
(1569) 4386	(1570) 4387	(1571) 4387	(1572) 4387	(1573) 4387
(1575) 4387	(1576) 4387	(1577) 4387	(1578) 4387	(1579) 4387
(1581) 4387	(1582) 4387	(1583) 4739	(1584) 4388	(1585) 4388
(1586) 4388	(1587) 4388	(1588) 4388	(1589) 4388	(1590) 4739
(1591) 4388	(1592) 4388	(1597) 4388	(1599) 4388	(1610) 4389
(1620) 4389	(1626) 4389	(1628) 4408	(1629) 4408	(1632) 4335
(1633) 4389	(1639) 4577	(1640) 4577	(1641) 4335	(1645) 4389
(1647) 4389	(1657) 4389	(1660) 4389	(1667) 4389	(1679) 4389
(1698) 4389	(1704) 4409	(1708) 4578	(1717) 4390	(1738) 4390
(1749) 4390	(1767) 4390	(1787) 4390	(1846) 4638	(1847) 4638
(1849) 4638	(1850) 4638	(1851) 4638	(1852) 4639	(1853) 4639
(1862) 4832	(1868) 4639	(1869) 4639	(1874) 4639	(1875) 4390
(1876) 4390	(1878) 4639	(1880) 4639	(1881) 4639	(1883) 4640
(1885) 4640	(1912) 4640	(1918) 4390	(1922) 4640	(1923) 4640
(1924) 4640	(1948) 4640	(1950) 4640	(1952) 4641	(1953) 4641
(1954) 4641	(1955) 4641	(1964) 4641	(1965) 4390	(1966) 4390
(1968) 4641	(1969) 4641	(1970) 4641	(1979) 4642	(1980) 4010
(1981) 4010	(1982) 4069	(1983) 4069	(1984) 4069	(1985) 4070
(1986) 4070	(1987) 4070	(1988) 4070	(1989) 4071	(1990) 4071
(1991) 4071	(1992) 4071	(1993) 4071	(1994) 4072	(1995) 4072

(1996) 4072	(1997) 4072	(1998) 4073	(1999) 4073	(2000) 4073
(2001) 4073	(2002) 4074	(2003) 4074	(2004) 4074	(2005) 4074
(2006) 4075	(2007) 4075	(2008) 4075	(2009) 4075	(2010) 4076
(2011) 4076	(2012) 4076	(2013) 4076	(2014) 4077	(2015) 4077
(2016) 4087	(2017) 4179	(2018) 4179	(2019) 4179	(2020) 4180
(2021) 4180	(2022) 4180	(2023) 4180	(2024) 4180	(2025) 4181
(2026) 4181	(2027) 4181	(2028) 4181	(2029) 4182	(2030) 4182
(2031) 4182	(2032) 4182	(2033) 4182	(2034) 4183	(2035) 4183
(2036) 4183	(2037) 4183	(2038) 4184	(2039) 4184	(2040) 4184
(2041) 4184	(2042) 4185	(2043) 4335	(2044) 4336	(2045) 4336
(2046) 4336	(2047) 4336	(2048) 4337	(2049) 4337	(2050) 4337
(2051) 4337	(2052) 4338	(2053) 4338	(2054) 4338	(2055) 4339
(2056) 4344	(2057) 4345	(2058) 4345	(2059) 4346	(2060) 4346
(2061) 4405	(2062) 4406	(2063) 4406	(2064) 4406	(2065) 4407
(2066) 4409	(2067) 4409	(2068) 4409	(2069) 4410	(2070) 4410
(2071) 4410	(2072) 4411	(2073) 4411	(2074) 4411	(2075) 4412
(2076) 4412	(2077) 4412	(2078) 4413	(2079) 4413	(2080) 4413
(2081) 4413	(2082) 4414	(2083) 4473	(2084) 4474	(2085) 4474
(2086) 4474	(2087) 4475	(2088) 4475	(2089) 4475	(2090) 4476
(2091) 4502	(2092) 4502	(2093) 4502	(2094) 4503	(2095) 4503
(2096) 4537	(2097) 4537	(2098) 4537	(2099) 4541	(2100) 4541
(2101) 4541	(2102) 4605	(2103) 4605	(2104) 4606	(2105) 4824
(2106) 4607	(2107) 4607	(2108) 4607	(2109) 4607	(2110) 4608
(2111) 4608	(2112) 4608	(2113) 4609	(2114) 4609	(2115) 4609
(2116) 4610	(2117) 4610	(2118) 4610	(2119) 4661	(2120) 4662
(2121) 4662	(2122) 4662	(2123) 4662	(2124) 4663	(2125) 4663
(2126) 4740	(2127) 4740	(2128) 4740	(2129) 4740	(2130) 4741
(2131) 4741	(2132) 4741	(2133) 4742	(2134) 4743	(2135) 4773
(2136) 4774	(2137) 4774	(2138) 4774	(2139) 4774	(2140) 4775
(2141) 4775	(2142) 4775	(2143) 4776	(2144) 4776	(2145) 4776
(2146) 4777	(2147) 4777	(2148) 4777	(2149) 4778	(2150) 4778
(2151) 4778	(2152) 4778	(2153) 4779	(2154) 4779	(2155) 4779
(2156) 4825	(2157) 4826	(2158) 4826	(2159) 4826	(2160) 4826
(2161) 4827	(2162) 4827	(2163) 4827	(2164) 4827	(2165) 4831
(2166) 4831	(2167) 4832	(2168) 4928	(2169) 4928	(2170) 4928
(2171) 4929	(2172) 4929	(2173) 4929	(2174) 4930	(2175) 4930
(2176) 4930	(2177) 4930	(2178) 4933		

Planet	MPC	Planet	MPC	Planet	MPC	Planet	MPC
1930 XU	4822	1931 TV	4780	1934 CD	4933	1935 SO1	4414
1938 TB	4822	1939 BF	4828	1939 BM	4822	1939 QB	4822
1939 TA	4822	1939 TM	4822	1939 UB	4822	1940 FG	4822
1940 GF	4822	1940 GG	4822	1940 GJ	4822	1941 HP	4822
1941 ST	4822	1941 SZ	4822	1941 SA1	4828	1941 UN	4822
1941 UV	4822	1941 WA	4822	1942 CB	4823	1942 CG	4823
1942 RJ	4823	1942 RZ	4823	1942 VW	4823	1942 YA	4414
1943 EO	4823	1943 EP	4828	1943 EQ	4611	1950 DB	4782
1951 QD	4771	1952 UT	4642	1952 UW1	4643	1953 FH1	4771
1953 FK1	4771	1953 GE	4771	1953 GG	4771	1953 GH	4771
1953 PR	4771	1953 TC1	4771	1953 TD1	4771	1953 TF1	4771
1953 TG1	4771	1953 TP1	4771	1953 TS2	4771	1953 UD	4771
1953 VX1	4771	1953 VY1	4771	1953 VN2	4771	1954 TS	4771
1954 UN2	4771	1954 UQ2	4771	1954 XA	4823	1954 XQ	4771
1955 FU1	4771	1955 QP1	4771	1955 RS	4771	1955 RV	4771
1955 RX	4771	1955 SF	4771	1956 SC	4771	1956 XA	4771
1957 HJ	4643	1957 JP	4771	1957 VC	4771	1957 WH	4771
1959 OB	4169	1959 VE	4771	1959 VF	4771	1961 BC	4771
1961 CG	4771	1961 TN1	4771	1962 FA	4771	1962 HD	4771
1962 HE	4771	1963 RJ	4715	1963 RK	4715	1963 TM	4715

1963 TJ1	4715	1963 UF	4715	1964 TA1	4715	1964 TC1	4715
1964 TH1	4715	1964 TR1	4715	1964 TX1	4643	1964 TA2	4715
1964 TC2	4715	1964 TG2	4715	1964 TN2	4715	1964 UO	4715
1964 UP	4715	1964 UQ	4715	1964 VD	4538	1964 VE	4715
1964 VO	4715	1964 VP	4715	1964 VY	4715	1964 VL1	4715
1964 VM1	4715	1964 VN1	4715	1964 VT1	4715	1965 MA	4715
1965 MC	4715	1965 QC	4715	1965 SB	4715	1966 PD	4715
1966 PK	4715	1966 PL	4715	1966 PM	4715	1966 PN	4715
1966 PP	4715	1966 PQ	4715	1966 PX	4715	1966 PY	4715
1966 TE	4715	1966 TP	4715	1966 UZ	4090	1967 CB	4715
1967 DA	4715	1967 DB	4715	1967 JM	4715	1967 JN	4715
1967 JO	4715	1967 JP	4715	1967 JQ	4715	1967 JS	4715
1967 KB	4715	1967 SB	4716	1967 UM	4716	1967 UN	4716
1967 UO	4716	1967 UQ	4716	1967 UR	4716	1967 US	4716
1967 UT	4716	1967 UV	4716	1968 BC	4644	1968 DL	4742
1968 DM	4716	1968 FH	4716	1968 FJ	4716	1968 HH	4716
1968 HK1	4780	1968 OL	4716	1968 OZ	4716	1968 QD	4716
1968 QE	4716	1968 SB	4716	1968 UP	4716	1968 UQ	4716
1969 DA	4716	1969 GA	4716	1969 GB	4716	1969 GC	4716
1969 GD	4716	1969 LA	4716	1969 LB	4716	1969 OW	4716
1969 OZ	4716	1969 PD	4716	1969 QR	4716	1969 RY	4415
1969 RD2	4169	1969 TA	4716	1969 TJ1	4716	1969 TL1	4716
1969 TM1	4716	1969 TO1	4644	1969 TP1	4716	1969 TQ1	4716
1969 TR1	4716	1969 TS1	4716	1969 TT1	4716	1969 TY1	4716
1969 TB2	4716	1969 TC2	4716	1969 TD2	4716	1969 TE2	4716
1969 TJ2	4716	1969 TK2	4716	1969 TO2	4716	1969 TP2	4716
1969 TR2	4716	1969 TB3	4716	1969 TC3	4090	1969 TK4	4716
1969 TN4	4716	1969 TQ4	4716	1969 TH6	4716	1969 UC	4091
1969 UR	4716	1969 UP1	4716	1969 VC	4716	1969 VU	4716
1969 VW	4717	1969 VX	4717	1969 VB1	4717	1969 VK1	4717
1970 AF1	4636	1970 HA	4636	1970 JB	4636	1970 NA	4636
1970 NB	4636	1970 OB	4636	1970 OF	4636	1970 OG	4934
1970 PA	4636	1970 PL	4636	1970 PQ	4636	1970 PR	4636
1970 PS	4636	1970 PU	4636	1970 QK	4636	1970 QV	4636
1970 QA1	4636	1971 BF1	4636	1971 FB	4636	1971 HY	4636
1971 LF	4636	1971 MG	4636	1971 OG	4078	1971 OH	4636
1971 OU	4636	1971 OV	4636	1971 OE1	4636	1971 QN	4636
1971 QP	4636	1971 QR1	4636	1971 QW1	4636	1971 SC	4636
1971 SN1	4636	1971 SS1	4636	1971 SX1	4636	1971 SY1	4636
1971 SD2	4636	1971 SK2	4636	1971 SL2	4829	1971 SN2	4636
1971 TF	4636	1971 TO	4636	1971 TZ	4636	1971 TD2	4636
1971 TF2	4636	1971 TH2	4636	1971 TJ2	4636	1971 TS2	4636
1971 TY2	4636	1971 UL1	4637	1971 UQ1	4578	1972 AJ	4637
1972 AK	4637	1972 AL	4637	1972 AM	4637	1972 AR	4637
1972 AT	4637	1972 AU	4637	1972 FA	4661	1972 FC	4637
1972 FD	4637	1972 GJ	4637	1972 HL	4637	1972 HN	4637
1972 HP	4637	1972 HR	4637	1972 HW	4229	1972 KG	4637
1972 KJ	4637	1972 KL	4229	1972 KM	4637	1972 LD1	4782
1972 NC	4476	1972 NR	4637	1972 NS	4637	1972 NW	4637
1972 PA	4637	1972 QF	4637	1972 RA	4659	1972 RB	4659
1972 RQ1	4637	1972 RU1	4637	1972 RX1	4637	1972 RE2	4637
1972 RF2	4637	1972 RU2	4637	1972 RT3	4637	1972 RU3	4637
1972 RV3	4637	1972 TF	4637	1972 TG	4637	1972 TB2	4637
1972 TF2	4637	1972 TL2	4637	1972 TP2	4637	1972 TR8	4637
1972 UA	4637	1972 XE1	4637	1972 YX	4637	1973 DP	4574
1973 FE1	4574	1973 FF1	4574	1973 FR1	4574	1973 FT1	4574
1973 FU1	4574	1973 NA	4659	1973 QJ	4574	1973 QL	4574
1973 QN	4574	1973 QP	4574	1973 QQ	4574	1973 QY	4574
1973 QO1	4574	1973 QR1	4574	1973 QY1	4574	1973 QZ1	4574

1973 QB2	4230	1973 QD2	4574	1973 SD	4644	1973 SF	4574
1973 SG	4574	1973 SL	4289	1973 SM	4290	1973 SN	4290
1973 SO	4290	1973 SP	4290	1973 SQ	4290	1973 SR	4290
1973 SS	4290	1973 ST	4290	1973 SU	4290	1973 SV	4291
1973 SW	4291	1973 SX	4291	1973 SY	4291	1973 SZ	4291
1973 SA1	4291	1973 SB1	4291	1973 SC1	4291	1973 SD1	4291
1973 SE1	4292	1973 SF1	4292	1973 SG1	4292	1973 SH1	4292
1973 SJ1	4292	1973 SK1	4292	1973 SL1	4292	1973 SM1	4292
1973 SN1	4292	1973 SO1	4293	1973 SP1	4293	1973 SQ1	4293
1973 SR1	4293	1973 SS1	4293	1973 ST1	4293	1973 SU1	4293
1973 SV1	4293	1973 SW1	4293	1973 SX1	4294	1973 SY1	4294
1973 SZ1	4294	1973 SA2	4294	1973 SB2	4294	1973 SC2	4574
1973 SM2	4574	1973 SN2	4574	1973 SO2	4574	1973 SP2	4574
1973 SQ2	4574	1973 SX2	4574	1973 SZ2	4574	1973 SD3	4574
1973 SJ4	4574	1973 SQ4	4574	1973 ST4	4230	1973 SU4	4780
1974 EC	4574	1974 ED	4575	1974 ER	4575	1974 HD	4575
1974 KB	4575	1974 MA	4659	1974 MC	4575	1974 ME	4575
1974 MG	4575	1974 MH	4575	1974 MJ	4575	1974 OE	4575
1974 OS	4575	1974 PF	4575	1974 QA	4934	1974 QL	4575
1974 QQ	4091	1974 QE1	4579	1974 QF1	4575	1974 QT1	4575
1974 QU1	4091	1974 QX1	4092	1974 QN2	4092	1974 QO2	4575
1974 RG1	4575	1974 RK1	4575	1974 RV1	4575	1974 RX1	4575
1974 RY1	4575	1974 SE	4092	1974 SK	4575	1974 SL	4575
1974 SP	4575	1974 SS	4575	1974 SV	4575	1974 SW	4092
1974 SX	4575	1974 SD1	4575	1974 SF1	4575	1974 SG1	4575
1974 SH1	4575	1974 SK1	4575	1974 SN1	4093	1974 SR1	4575
1974 ST1	4575	1974 SU1	4575	1974 SX1	4093	1974 SB3	4575
1974 SE3	4575	1974 SJ3	4575	1974 SB5	4575	1974 UB	4611
1974 VG	4093	1974 VK	4093	1974 VQ2	4575	1974 XS	4926
1974 XT	4926	1975 AA	4575	1975 AK	4580	1975 AM	4575
1975 BU	4231	1975 BA1	4230	1975 DA	4926	1975 DB	4926
1975 EC	4575	1975 ED	4575	1975 EG	4575	1975 ES	4575
1975 EC1	4575	1975 EM1	4575	1975 EU1	4575	1975 EV1	4575
1975 EA2	4575	1975 EA3	4575	1975 EE3	4644	1975 EG3	4575
1975 EA6	4575	1975 GA	4576	1975 LR	4926	1975 LS	4926
1975 LT	4926	1975 LU	4926	1975 NC	4576	1975 NF	4576
1975 NY	4926	1975 PA	4600	1975 QC	4576	1975 QD	4576
1975 QE	4576	1975 QK	4926	1975 QM	4926	1975 QO	4926
1975 QP	4926	1975 RA2	4926	1975 SA	4576	1975 SC	4576
1975 SE	4576	1975 SF	4926	1975 TC	4600	1975 TN	4231
1975 TO2	4576	1975 TT2	4231	1975 TU2	4576	1975 TX2	4231
1975 TZ2	4231	1975 TJ3	4232	1975 TQ3	4232	1975 TR3	4576
1975 TS3	4576	1975 TR4	4232	1975 TU4	4576	1975 TG6	4926
1975 TH6	4926	1975 TJ6	4926	1975 TK6	4926	1975 UA	4576
1975 UD	4504	1975 VB	4341	1975 VC	4576	1975 VD	4576
1975 VF	4341	1975 VU	4234	1975 VZ	4576	1975 VB1	4576
1975 VE1	4576	1975 VD3	4233	1975 VR3	4233	1975 VW3	4233
1975 VY8	4234	1975 VZ8	4234	1975 VA9	4234	1975 VB9	4234
1975 VC9	4576	1975 VD9	4234	1975 VG9	4234	1975 XB	4576
1975 XD	4576	1975 XE	4576	1975 XF	4576	1975 XG	4576
1975 XJ	4576	1975 XK	4576	1975 XQ	4576	1975 YD	4926
1975 YE	4926	1976 AF	4926	1976 AG	4926	1976 AH	4926
1976 DC	4081	1976 DD	4081	1976 EA	4661	1976 EB	4499
1976 EC	4499	1976 GA1	4926	1976 GJ1	4926	1976 GP1	4499
1976 GT1	4499	1976 GY1	4926	1976 GA2	4499	1976 GD2	4926
1976 GJ2	4926	1976 GK2	4499	1976 GM2	4499	1976 GQ2	4499
1976 GR2	4499	1976 GX2	4499	1976 GZ2	4499	1976 GA3	4499
1976 GB3	4499	1976 GC3	4499	1976 GE3	4499	1976 GG3	4499
1976 GJ3	4499	1976 GK3	4499	1976 GL3	4499	1976 GN3	4499

1976 GO3	4499	1976 GQ3	4499	1976 GR3	4742	1976 GS3	4499
1976 GU3	4926	1976 GV3	4926	1976 GX3	4499	1976 GY3	4499
1976 GD4	4926	1976 GM7	4499	1976 GB8	4926	1976 GC8	4926
1976 GO8	4926	1976 HS	4926	1976 JW	4499	1976 JN1	4926
1976 JA2	4926	1976 JF2	4926	1976 JG2	4926	1976 JQ2	4926
1976 KV	4926	1976 MK	4926	1976 ML	4926	1976 OQ	4499
1976 QA	4499	1976 QB	4743	1976 QC	4504	1976 QD	4499
1976 QE1	4499	1976 QF1	4499	1976 QG1	4499	1976 QK1	4499
1976 QL1	4499	1976 QM1	4499	1976 QN1	4499	1976 QU1	4926
1976 QZ1	4926	1976 SA	4500	1976 SB	4500	1976 SC	4500
1976 SF	4500	1976 SE1	4500	1976 SG1	4500	1976 SF2	4500
1976 SG2	4500	1976 SH2	4500	1976 SK2	4500	1976 SM2	4500
1976 SS2	4500	1976 SU2	4500	1976 SD3	4500	1976 SK3	4500
1976 SS3	4500	1976 SW3	4500	1976 SJ4	4500	1976 SP4	4500
1976 SQ7	4500	1976 SZ7	4500	1976 TA	4829	1976 UA	4659
1976 UB	4539	1976 UE	4500	1976 UG	4500	1976 UH	4743
1976 UJ	4500	1976 UU	4500	1976 UY	4500	1976 UB1	4500
1976 UF1	4500	1976 UH1	4500	1976 UL4	4500	1976 WA	4660
1976 WC	4343	1976 YJ	4500	1976 YM	4500	1976 YP	4500
1976 YQ	4500	1976 YR	4500	1976 YT	4500	1976 YV	4500
1976 YX	4500	1976 YY	4500	1976 YE1	4500	1976 YM1	4500
1976 YO1	4500	1976 YP1	4600	1976 YQ1	4500	1976 YR1	4600
1976 YS1	4600	1976 YU1	4600	1976 YX1	4600	1976 YZ1	4500
1976 YB2	4600	1976 YD2	4500	1976 YF2	4500	1976 YK2	4500
1976 YN2	4600	1976 YO2	4600	1976 YP2	4600	1976 YQ2	4600
1976 YS2	4600	1976 YF3	4600	1976 YJ3	4600	1976 YQ3	4600
1976 YU3	4600	1976 YR5	4600	1976 YW5	4637	1976 YZ5	4600
1976 YA6	4600	1976 YP7	4833	1976 YQ7	4781	1976 YS7	4717
1977 BY	4926	1977 CA	4195	1977 CB	4829	1977 CC	4926
1977 CD	4926	1977 EM	4600	1977 EV	4600	1977 EX	4600
1977 EZ	4600	1977 EB1	4600	1977 EC1	4600	1977 EF1	4600
1977 EG1	4600	1977 EJ1	4600	1977 EK1	4600	1977 EL1	4600
1977 EN1	4600	1977 EO1	4600	1977 EP1	4600	1977 EQ1	4600
1977 ET1	4600	1977 EU1	4600	1977 EV1	4600	1977 EY1	4600
1977 EA2	4600	1977 EB2	4600	1977 EC2	4600	1977 FA	4501
1977 FB	4501	1977 FN	4501	1977 FO	4501	1977 FS	4501
1977 FT	4501	1977 FY	4717	1977 FZ	4717	1977 FN1	4717
1977 GA	4931	1977 HC	4612	1977 HD	4638	1977 JA	4501
1977 JP	4717	1977 JV	4717	1977 JA1	4717	1977 KB	4501
1977 NG	4926	1977 NH	4926	1977 NK	4717	1977 NP	4717
1977 NR	4717	1977 NT	4926	1977 OH	4931	1977 PB	4926
1977 PA1	4927	1977 QS	4927	1977 QU	4927	1977 QV	4927
1977 QW	4927	1977 QX	4927	1977 QY	4927	1977 QB1	4927
1977 QC1	4927	1977 QD1	4927	1977 QF1	4927	1977 QH1	4927
1977 QJ1	4927	1977 QL1	4927	1977 QM1	4927	1977 QN1	4927
1977 QO1	4927	1977 QD2	4927	1977 QG2	4927	1977 QJ2	4927
1977 QK2	4927	1977 QL2	4927	1977 QN2	4927	1977 QP2	4927
1977 QQ2	4927	1977 QR2	4927	1977 QT2	4927	1977 QU2	4927
1977 QV2	4927	1977 QX2	4927	1977 QA3	4927	1977 QD3	4927
1977 QG3	4927	1977 QH3	4927	1977 QJ3	4927	1977 QK3	4931
1977 QL3	4927	1977 QO3	4927	1977 QY3	4927	1977 RA	4660
1977 RB	4781	1977 RC	4501	1977 RF	4501	1977 RG	4576
1977 RK	4309	1977 RL	4309	1977 RM	4309	1977 RO	4829
1977 RV	4927	1977 RD2	4927	1977 RE2	4927	1977 RF2	4927
1977 RD3	4927	1977 SA	4501	1977 SN	4927	1977 TC	4309
1977 TD	4309	1977 TE	4309	1977 TG	4927	1977 TZ	4501
1977 TA1	4501	1977 TB1	4501	1977 TC1	4501	1977 TD1	4501
1977 UA	4501	1977 UP	4501	1977 UQ	4501	1977 VA	4660
1977 VC	4932	1977 VD	4932	1977 VH	4576	1977 VP	4576

1977 VY	4501	1977 YA	4501	1978 BG	4501	1978 CA	4660
1978 DA	4660	1978 GA	4501	1978 GB	4717	1978 GC	4501
1978 GD	4580	1978 LA	4781	1978 LB	4501	1978 NC	4501
1978 ND	4501	1978 NE	4501	1978 NF	4501	1978 NG	4501
1978 NH	4501	1978 NJ	4501	1978 NN	4501	1978 NP	4501
1978 NQ	4501	1978 NS	4501	1978 NU	4576	1978 NV	4576
1978 NW	4576	1978 NX	4576	1978 ND1	4576	1978 PA	4576
1978 PC	4576	1978 PD	4576	1978 PF	4576	1978 RB	4830
1978 RC	4717	1978 SB	4661	1978 SG	4576	1978 SM	4576
1978 SP	4576	1978 SQ	4600	1978 SR	4576	1978 SS	4576
1978 TA	4717	1978 TB	4664	1978 UC	4637	1978 VA	4637
1978 VB	4637	1978 WB	4637	1978 WC	4600	1978 XC	4771
1978 YA	4823	1979 BA	4717	1979 DA	4717	1979 DC	4771
1979 DE	4771	1979 DF	4771	1979 DK	4771	1979 FE	4717
1979 FK	4781	1979 HA	4771	1979 KA	4927	1979 KB	4832
1979 KC	4823	1979 KD	4927	1979 KF	4772	1979 KG	4772
1979 KJ	4772	1979 KK	4772	1979 KL	4927	1979 KM	4823
1979 KN	4927	1979 KP	4823	1979 KR	4823	1979 KU	4823
1979 KW	4823	1979 MB	4927	1979 MC	4927	1979 MF	4823
1979 MH	4927	1979 MK	4823	1979 ML	4823	1979 OA	4927
1979 OB	4927	1979 OC	4927	2509 P-L	4830	2524 P-L	4539
2525 P-L	4932	2528 P-L	4415	2533 P-L	4644	6090 P-L	4664
6512 P-L	4645	6545 P-L	4344	6561 P-L	4415	6591 P-L	4831
7631 P-L	4932	9597 P-L	4581				

\* \* \* \* \*

## ORBITAL ELEMENTS OF ONE-OPPOSITION MINOR PLANETS.

The orbit computers and authors of double designations are B = C. M. Bardwell, F = E. Fogelin, M = B. G. Marsden, O = L. Oterma, W = J. G. Williams, Z = Purple Mountain Observatory. See also MPC 4499.

Planet	B(1,0)	Epoch	M	Peri.	Node	Incl.	e	a	Arc	O	N	C
1939 FY	13.4	390315	58.55	100.85	0.07	8.41	0.0799	2.2678	34	3	O	
1939 UJ	11.9	391021	327.43	30.86	35.64	13.16	0.0788	3.2550	24	3	O	
1940 GD	14.6	400405	8.33	8.76	176.16	5.90	0.1460	2.1022	9	3	O	
1940 GN	14.0	400413	338.61	162.31	79.48	9.57	0.1903	2.4387	23	5	O	
1940 GO	12.5	400413	66.51	37.47	90.86	12.95	0.1594	2.6395	23	4	O	
1942 RM	13.6	420916	32.82	129.41	172.80	14.01	0.2355	2.5846	26	5	O	
1943 EN	14.5	430310	332.23	182.47	14.51	6.65	0.0995	2.2279	22	4	O	
1951 SX	17.0	511001	345.61	211.71	194.04	39.12	0.2522	1.8740	28	8	W	
1964 TR2	14.0	641231	63.64	304.26	19.63	3.21	0.1529	2.2599	32	4	Z	
1964 TS2	14.9	641231	359.50	219.69	192.95	3.77	0.1856	2.2474	24	3	Z	
1964 TT2	13.6	641231	44.36	306.81	31.96	3.05	0.2090	2.6282	32	3	Z	
1964 TU2	14.8	641231	22.19	44.14	335.35	5.25	0.1671	2.2908	31	3	Z	
1964 VZ2	14.5	641231	0.82	0.69	72.26	2.49	0.2641	2.9135	22	3	Z	
1964 VA3	11.1	641231	164.28	86.42	166.79	1.09	0.3568	3.0298	22	3	Z	
1965 AK1	12.3	641231	334.71	34.86	123.07	18.37	0.0945	3.1917	52	3	Z	
1965 SN	13.4	641231	225.45	108.36	324.59	1.93	0.0593	2.1930	36	4	Z	
1965 SO	14.0	641231	327.18	275.46	41.55	3.10	0.1854	2.4521	31	4	Z	
1965 SP	12.4	641231	300.70	194.84	186.83	10.35	0.0980	3.0295	31	4	Z	
1965 SU	14.4	641231	210.62	320.82	124.33	0.62	0.1304	2.1925	32	5	Z	
1965 UZ		651027	333.27	96.92	319.25	2.38	0.1077	2.6272	8	3	B	
1965 UA1		651027	342.20	108.32	297.86	1.88	0.1132	2.4543	8	3	B	
1965 UB1		651027	357.25	19.22	11.45	6.75	0.2134	2.1519	8	3	B	
1965 UC1		651027	24.81	331.19	19.43	3.89	0.1697	2.1747	8	3	B	
1965 UO1	13.6	641231	269.13	296.76	99.40	4.69	0.1433	2.2352	43	5	Z	
1965 UP1	12.7	641231	271.89	273.98	145.18	6.49	0.0229	2.7566	38	3	Z	

1965	UU1	12.3	641231	285.03	359.40	50.83	14.32	0.1821	2.6282	42	6	Z
1965	UD2	14.5	641231	245.26	11.33	87.86	3.74	0.2368	2.3918	50	6	Z
1965	WJ	12.6	641231	291.09	6.09	79.75	11.83	0.2401	3.1502	17	4	Z
1965	WQ	14.2	641231	240.39	222.53	255.46	3.68	0.2239	2.4176	28	5	2 Z
1965	WR	13.3	641231	311.68	137.45	252.34	12.21	0.1743	2.6485	33	7	Z
1965	YG	14.3	641231	274.93	333.62	107.40	1.30	0.1543	2.3596	39	3	Z
1965	YN	10.8	641231	294.32	56.80	57.09	2.51	0.1419	3.1484	29	3	Z
1966	AA	13.6	641231	289.06	178.35	278.17	13.32	0.1272	2.6099	48	3	Z
1966	BL	12.0	641231	266.42	194.88	300.67	7.01	0.1634	2.7849	27	4	Z
1966	BO	14.2	641231	213.61	51.93	142.11	8.20	0.1976	2.5573	35	4	Z
1966	BW	12.0	641231	206.86	16.94	205.21	1.32	0.0744	3.1001	25	3	Z
1966	BZ	12.1	641231	33.49	226.67	138.40	4.34	0.1828	2.7440	25	3	Z
1966	BA1	9.3	641231	52.82	79.95	327.06	14.17	0.0902	5.2394	45	5	Z
1966	CF		660224	5.46	27.05	115.38	9.59	0.0692	2.3910	12	3	B
1966	CK		660224	309.15	91.95	136.24	6.83	0.2289	2.8469	12	3	B
1966	CL		660224	294.40	114.75	126.84	3.37	0.1961	2.4480	12	3	B
1966	CM		660224	354.77	11.15	149.80	15.67	0.0797	2.6846	12	3	B
1966	DH	12.7	641231	306.74	124.40	344.86	6.86	0.0397	2.7921	28	3	Z
1974	XX	12.8	770726	176.38	348.30	88.06	16.60	0.1495	3.2017	21	3	Z
1974	YP	14.0	770726	285.22	90.94	280.50	13.49	0.2572	2.5986	28	3	Z
1975	BV	14.5	750108	48.19	41.22	12.66	2.36	0.2485	2.3980	6	5	1 B
1975	BX	14.1	770726	200.21	71.41	126.77	24.29	0.2209	2.3921	50	5	Z
1975	BP1	13.0	770726	89.10	97.20	149.01	3.09	0.3561	3.2712	27	3	Z
1975	EA2	13.5	750309	359.03	172.59	343.43	7.87	0.1822	2.5880	8	4	B
1975	FW	12.2	770726	37.49	242.58	52.96	10.86	0.0910	2.9944	25	4	Z
1975	FX	12.8	770726	220.05	43.32	53.32	10.95	0.0727	3.0235	25	4	Z
1975	VP1	14.0	751104	36.63	172.69	192.83	2.24	0.1965	2.3709	31	3	B
1975	WK1	14.0	770726	166.96	204.67	243.46	2.49	0.0905	2.2381	28	5	Z
1975	WL1	12.3	770726	76.94	25.87	87.36	2.82	0.1363	3.2093	40	7	Z
1975	WO1	12.0	770726	119.77	342.34	73.92	12.92	0.2442	3.1450	36	5	Z
1975	XX1	16.0	751124	14.15	38.98	1.34	1.83	0.2759	2.3883	6	4	2 B
1975	XY1	14.5	770726	131.57	223.40	250.43	23.47	0.2149	2.3900	37	5	Z
1975	XA3	14.5	751214	54.83	309.06	46.95	6.91	0.2120	2.2560	36	6	B
1975	XF3	14.0	751124	29.78	46.77	329.45	1.69	0.2665	2.5205	6	3	B
1975	XP3	15.0	751124	20.13	32.95	8.57	3.06	0.1444	2.4093	6	3	B
1976	AD	12.0	760103	154.20	261.82	28.62	0.64	0.0588	3.0060	18	5	1 B
1976	YT3	13.5	761208	291.26	300.88	236.47	9.46	0.1783	2.5798	6	3	B
1977	TJ3	9.7	770726	115.11	45.57	211.13	32.49	0.0325	5.1264	35	5	Z
1977	TQ3	15.3	770726	357.52	304.90	48.36	6.59	0.2601	2.3099	33	4	Z
1977	VJ	12.5	771113	103.33	229.55	41.25	10.34	0.2174	2.8291	8	3	B
1977	VN	12.0	771024	340.39	54.37	9.57	0.67	0.2077	3.1567	33	6	B
1977	VK1		771113	358.60	348.39	41.08	14.21	0.1481	3.0932	8	4	B
1977	VL1		771113	3.95	335.52	50.43	5.65	0.2331	2.6095	8	4	B
1977	VM1		771113	351.51	347.32	59.56	7.27	0.1851	2.2436	8	4	B
1978	UA	16.5	781019	315.30	234.66	233.17	28.72	0.2202	2.2542	3	4	M
1978	VN	13.0	781019	241.30	299.44	253.90	4.63	0.3122	2.7745	2	3	M
1978	VO	14.5	781019	57.31	338.46	356.64	4.24	0.1418	2.8803	3	5	M
1978	VP	12.5	781019	266.13	231.26	280.08	3.11	0.0905	2.7367	3	5	M
1978	VT	11.0	781019	28.64	14.08	358.46	4.26	0.0844	2.6347	3	5	M
1978	VU	16.5	781019	21.18	21.80	334.72	1.69	0.3618	2.7841	2	3	M
1978	VX	17.0	781019	17.03	350.18	32.35	5.37	0.1138	2.3751	2	3	M
1978	VB1	13.0	781019	19.08	129.24	249.60	7.56	0.1825	3.0734	3	5	F
1978	VD1	15.0	781019	35.70	347.41	9.58	5.32	0.1547	2.4247	3	5	F
1978	VF1	14.0	781019	0.27	138.37	270.33	5.80	0.0547	3.2256	3	4	1 M
1978	VH1	16.0	781019	321.15	62.68	35.06	7.28	0.1588	2.6065	2	3	F
1978	VJ1	17.0	781019	25.87	91.82	275.63	3.64	0.1613	2.2595	3	5	F
1978	VK1	16.0	781019	306.27	171.96	307.69	1.71	0.1953	2.4866	2	3	1 F
1978	VN1	18.0	781019	16.70	324.44	32.51	4.92	0.4172	2.5496	2	3	F
1978	VO1	17.0	781019	49.62	307.05	26.70	4.37	0.2114	2.3912	2	3	1 F

1978	VQ1	15.0	781019	175.91	209.34	22.52	5.38	0.2317	2.2841	3	4	1	M
1978	VT1	16.0	781019	300.23	98.70	25.49	4.95	0.1738	2.3395	3	5		F
1978	VW1	15.5	781019	59.82	285.20	44.80	15.37	0.1591	2.5279	2	3		F
1978	VZ1	16.0	781019	283.37	107.14	39.77	10.36	0.2080	2.2857	2	3	1	F
1978	VB2	16.0	781019	292.08	179.71	338.99	2.30	0.3854	2.2293	2	3		F
1978	VF2	16.0	781019	66.38	11.49	324.36	3.43	0.0395	2.2667	3	5		F
1978	VH2	16.5	781019	40.64	46.99	300.93	2.32	0.1732	2.1920	2	3	1	F
1978	VP2	16.5	781019	13.71	94.48	292.05	1.51	0.1320	2.2883	2	3		F
1978	VQ2	19.0	781019	13.86	123.56	257.10	2.43	0.1957	2.1227	2	3	1	F
1978	VR2	16.5	781019	18.26	2.72	9.36	3.91	0.2521	2.3720	3	5		F
1978	VS2	15.5	781019	34.46	336.54	17.79	4.10	0.2084	2.4476	2	3		F
1978	VT2	17.0	781019	22.84	25.82	332.12	2.47	0.3100	2.2716	2	3		F
1979	BA	17.0	790328	72.03	290.36	142.96	46.65	0.2013	1.8414	120	6		M
1979	DE	12.0	790507	37.40	358.47	132.66	20.23	0.1666	2.8932	107	9		M
1979	KO	13.5	790527	199.62	321.05	106.35	18.09	0.1109	3.1775	5	3	1	M
1979	KQ	15.0	790527	182.55	204.30	176.95	5.42	0.1213	2.5052	4	5	1	M
1979	KS	13.5	790527	181.47	202.74	175.35	2.80	0.2162	2.9812	5	6	1	M
1979	KT	13.5	790527	171.50	235.28	150.53	2.32	0.2020	2.9339	5	6	1	M
1979	KV	14.0	790527	134.39	24.12	31.38	1.32	0.1201	3.1577	5	5	1	M
1979	KX	14.0	790527	285.52	264.74	17.15	2.89	0.0698	3.2177	4	3	1	M
1979	MA	16.5	790616	43.45	285.26	284.94	21.62	0.3183	2.4290	6	4		M
1979	MC	15.0	790726	354.94	161.00	147.88	12.15	0.2691	2.4284	56	8	2	M
1979	MF	17.0	790706	336.16	170.80	143.89	6.88	0.2662	2.2941	35	4		M
1979	MV1	15.5	790616	282.17	253.17	130.32	8.19	0.1684	2.3302	6	4	1	M
1979	MW1	15.5	790616	301.03	119.06	244.23	4.59	0.1549	2.6328	6	4		M
1979	MC2	14.5	790616	33.04	31.79	199.98	2.09	0.2748	3.2092	6	4	1	M
1979	MF2	17.0	790616	349.77	120.00	177.85	1.06	0.2176	2.3252	6	4		M
1979	MK2	12.5	790616	177.60	352.73	119.21	10.89	0.1768	2.5817	2	3	1	M
1979	ML2	14.0	790616	339.29	188.00	129.15	13.84	0.1739	2.9744	6	4		M
1979	MN2	14.5	790616	2.14	137.62	143.81	3.19	0.1612	2.4554	6	4	1	M
1979	MU2	15.0	790616	357.06	131.09	162.28	5.65	0.1663	3.1820	6	4		M
1979	MX2	13.0	790616	300.10	82.43	281.87	9.50	0.1337	3.0393	6	4		M
1979	MY2	15.5	790616	57.36	330.87	238.85	4.56	0.1931	2.5724	6	4		M
1979	MB3	15.5	790616	25.27	135.64	118.12	14.83	0.1331	2.6010	6	4		M
1979	MG3	14.5	790616	20.56	352.48	270.09	8.24	0.1451	3.1754	6	4		M
1979	ML3	14.0	790616	25.85	33.88	225.23	3.23	0.0624	2.5598	6	4		M
1979	MM3	14.5	790616	287.48	260.70	119.59	18.18	0.1561	2.8807	6	4		M
1979	MN3	15.5	790616	125.35	283.34	233.30	1.91	0.0641	2.2589	6	4		M
1979	MR3	14.5	790616	341.76	186.75	121.82	7.82	0.1331	2.2992	6	4		M
1979	MW3	17.0	790616	8.54	35.82	234.01	2.67	0.2101	2.3257	6	4		M
1979	MZ3	14.5	790616	39.65	27.88	207.09	1.11	0.1811	3.2066	6	4	1	M
1979	MA4	13.0	790616	335.22	137.82	189.08	4.10	0.1794	3.4518	6	4		M
1979	MD4	13.5	790616	303.03	151.07	218.46	1.76	0.2392	2.3294	6	4		M
1979	MF4	13.5	790616	331.40	197.88	126.52	5.70	0.1749	2.2572	2	3		M
1979	MG4	14.0	790616	32.81	90.17	161.15	1.71	0.0958	3.0750	6	4	1	M
1979	MJ4	15.5	790616	341.61	189.47	123.86	12.82	0.1871	2.6055	6	4		M
1979	MM4	17.0	790616	21.41	45.98	204.52	2.81	0.2140	2.2806	6	4		M
1979	MQ4	14.0	790616	70.11	313.30	259.69	8.85	0.0933	3.1954	6	4	1	M
1979	MR4	13.0	790616	201.32	246.40	207.19	4.52	0.1085	2.3823	6	4		M
1979	MT4	14.5	790616	184.29	192.55	275.64	11.98	0.0693	2.6124	6	4		M
1979	MX4	14.5	790616	342.17	46.29	268.79	11.05	0.2153	2.6406	2	3		M
1979	MZ4	15.5	790616	332.87	204.27	122.96	8.82	0.2042	2.5804	6	4		M
1979	MA5	14.0	790616	38.10	349.28	259.33	8.40	0.0795	3.1095	6	4		M
1979	MB5	15.5	790616	328.94	132.65	201.23	3.49	0.2053	2.6165	6	4		M
1979	MG5	16.0	790616	351.13	59.98	237.84	3.57	0.2054	2.3332	6	4		M
1979	MJ5	15.5	790616	220.45	269.96	168.31	4.37	0.1331	2.2187	6	4		M
1979	MM5	15.5	790616	293.95	132.80	252.99	1.62	0.2672	2.5063	6	4		M
1979	MR5	16.0	790616	303.06	95.02	267.18	1.97	0.1710	2.3164	6	4		M
1979	MX5	16.0	790616	50.83	48.27	167.96	2.31	0.2031	2.4208	6	4		M



1979	MY5	14.0	790616	24.86	340.67	277.28	11.62	0.1317	2.7233	6	4	M
1979	MA6	15.0	790616	243.51	290.71	134.58	6.63	0.1980	2.2982	6	4	1 M
1979	MB6	15.5	790616	302.82	230.29	147.05	3.85	0.2937	2.2858	6	4	1 M
1979	MC6	16.0	790616	334.05	47.91	281.13	18.07	0.2334	2.5836	6	4	M
1979	MG6	16.5	790616	354.96	38.57	254.44	5.85	0.1421	2.2787	6	4	M
1979	MO6	15.0	790616	268.73	277.67	120.27	11.83	0.1313	2.6669	6	4	M
1979	MS6	14.0	790616	100.40	296.60	244.14	5.59	0.0997	2.4802	6	4	M
1979	MV6	14.0	790616	357.18	67.09	225.92	3.53	0.0669	2.4410	6	4	M
1979	MX6	14.5	790616	33.68	344.88	254.70	6.59	0.1650	2.5181	2	3	M
1979	MZ6	16.0	790616	318.76	95.51	248.66	3.86	0.2039	2.3666	6	4	M
1979	ME7	14.5	790616	264.88	136.46	272.89	12.44	0.2245	2.5770	6	4	M
1979	MU7	17.0	790616	341.76	66.49	245.63	4.51	0.2360	2.2476	6	4	M
1979	MM8	16.0	790616	302.23	192.50	174.40	3.81	0.1896	2.4281	6	4	M
1979	MS8	13.0	790616	302.50	170.74	204.83	1.33	0.2395	2.9386	6	4	1 M
1979	MU8	14.5	790616	107.07	51.11	125.27	13.96	0.0709	2.4791	6	4	M
1979	OC	14.5	790904	7.78	64.23	255.25	7.45	0.0856	2.2907	57	8	M
1979	PA	15.5	790815	10.73	82.31	224.53	12.00	0.2269	2.4656	4	5	M
1979	PB	13.0	790904	53.35	14.00	237.70	7.52	0.2198	2.6833	36	0	M
1979	QB	15.0	790904	354.19	11.30	342.16	3.38	0.4430	2.3338	36	8	M
1979	QE	12.0	790904	244.92	196.37	277.41	12.96	0.0418	3.0415	20	0	M
1979	SA	11.5	790904	250.87	273.87	205.07	18.81	0.1925	3.2287	29	0	M
1979	SC	14.0	790924	180.83	153.53	25.02	6.49	0.1764	2.2133	2	3	1 M
1979	SD	14.0	790924	187.21	137.32	36.91	5.35	0.1591	2.6762	2	3	1 M
1979	SE	13.5	790924	112.75	122.80	90.68	3.38	0.1314	2.8012	11	5	M
1979	SF	13.5	790904	30.81	345.55	332.44	7.93	0.0735	2.6620	10	0	M
1979	SH	16.0	790904	342.31	51.46	331.41	5.12	0.2833	2.5940	10	0	M
1979	SJ	17.0	790904	6.54	340.69	359.43	4.03	0.2057	2.0645	8	8	M
1979	SK	16.0	790904	354.06	62.10	295.78	2.89	0.1999	2.2022	8	8	M
1979	SL	12.5	790904	356.49	155.00	202.35	9.40	0.1037	3.1346	7	6	M
1979	SM	14.0	790904	353.37	26.27	337.11	7.74	0.1606	2.9912	8	8	M
1979	SN	16.5	790904	352.42	30.20	331.49	4.63	0.1871	2.2135	2	6	1 M
1979	SO	15.0	790904	6.05	335.98	8.15	8.64	0.2346	2.8362	2	6	M
1979	SP	13.0	790904	318.15	275.98	140.08	1.93	0.2009	3.2164	2	6	M
1979	SQ	13.0	790904	13.64	43.77	290.12	3.41	0.1008	2.6096	2	6	M
1979	SR	13.0	790904	319.29	216.18	199.82	11.55	0.2490	3.1393	2	6	M
1979	SS	16.5	790904	346.78	37.53	330.46	4.60	0.1858	2.1192	2	6	M
1979	ST	15.0	790904	341.92	89.00	295.01	2.35	0.2978	2.8051	2	6	1 M

Note 1: e assumed. 2: double designations 1965 WQ = 1965 WW (B), 1975 XX1 = 1975 XE3 (B), 1979 MC = 1979 QC (M).

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

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

1935 SQ1 = 1974 XQ

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	21.44986	(1950.0)	P	Q
n	0.17958288	Peri. 323.05487	+0.97317250	-0.22899196
a	3.1114319	Node 50.19811	+0.21741867	+0.88356858
e	0.1808004	Incl. 1.66448	+0.07526229	+0.40849630
P	5.49	B(1,0) 12.5		

Residuals in seconds of arc

350928	078	0.9+	0.1+	351030	078	0.4+	0.9-	750116	330	0.4+	1.1+
351001	078	0.7-	0.1-	741214	330	1.6+	0.8+	750117	330	3.4-	1.8+
351015	078	0.3-	0.7+	741214	095	0.5+	0.6-	750118	330	1.9+	1.7+
351018	078	0.8-	0.7+	741218	330	2.4+	1.1+				
351027	078	2.3-	1.0-	750112	330	0.4+	1.4+				

1938 CG = 1975 EY1

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	215.75121		(1950.0)		P		Q
n	0.29359871	Peri.	287.11731	+0.37459676			-0.92549461
a	2.2419925	Node	140.73657	+0.88074169			+0.33630270
e	0.1266324	Incl.	5.07718	+0.28977807			+0.17424185
P	3.36	B(1,0)	14.5				

Residuals in seconds of arc

380206	024	0.0	2.0+	380304	024	2.0+	1.0-	750212	330	0.9+	8.3-
380219	024	1.0-	0.8-	750116	330	0.4-	1.7+	750308	095	2.5-	2.1+
380223	024	0.8+	0.2-	750122	330	0.6+	0.8+	750312	095	1.2+	2.6+

1939 QB = 1943 TD

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	77.69149		(1950.0)		P		Q
n	0.25113609	Peri.	126.15202	+0.99747066			-0.00428023
a	2.4880789	Node	234.19831	-0.02083381			+0.93673953
e	0.2376118	Incl.	5.01866	+0.06795767			+0.35000103
P	3.92	B(1,0)	14.3				

Residuals in seconds of arc

390818	062	2.0-	1.2+	391007	062	0.6+	0.7+	431005	062	0.2+	0.6+
390916	062	0.9+	1.8-	391018	062	0.0	0.4+	431005	062	0.2+	0.1+
390920	062	2.6+	0.1-								

1940 GH = 1951 JT = 1975 XZ1 = 1975 XM3

The identification 1950 DH = 1951 JT (MPC 2807) is invalid.

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	31.21179		(1950.0)		P		Q
n	0.18314935	Peri.	239.40909	+0.48524550			+0.84604096
a	3.0709070	Node	61.22655	-0.69085063			+0.52575703
e	0.0690798	Incl.	14.58994	-0.53596847			+0.08828502
P	5.38	B(1,0)	11.5				

Residuals in seconds of arc

400404	062	1.4-	2.4+	510503	711	2.7-	6.2-	Y	751202	095	2.5+	1.4-
400410	062	0.1-	1.1+	751123	330	0.5-	2.2+		751223	330	0.3+	1.6+
400411	062	1.5-	3.4+	751126	330	0.2+	2.0+		751229	330	0.5-	2.5+
400412	062	1.7-	3.6+	751129	330	0.1+	2.8+					
510503	711	3.6-	0.2-	Y	751201	095	1.6+	7.6+				

1955 RX = 1955 SA2 = 1965 SV = 1970 ET2

The double designation 1955 RX = 1955 SA2 was found independently by B. Potter (MPC 1410) and S. Kanda (MPC 1454).

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	33.80875		(1950.0)		P		Q
n	0.29474121	Peri.	253.24439	+0.31125102			-0.95032545
a	2.2361950	Node	178.61577	+0.90142842			+0.29454057
e	0.1744814	Incl.	4.94810	+0.30091460			+0.10063492
P	3.34	B(1,0)	15.0				

Residuals in seconds of arc

550913	760	1.0+	1.9+	550919	024	2.1+	4.4+	651024	330	1.2-	0.0
550913	760	1.7+	2.1+	550920	024	1.6-	1.3-	700306	805	0.6-	0.5+
550916	760	0.7-	0.7-	650922	330	3.9+	1.6-	700306	805	0.0	0.5+
550916	760	0.9-	0.1+	650923	330	0.7+	0.3-	700306	805	0.7+	0.2+
550918	760	1.0-	0.1+	651017	330	1.0-	1.0-				
550918	760	1.6-	0.1+	651020	330	1.1-	2.8-				

1975 WM1 = 1951 XK

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	152.72752		(1950.0)		P		Q
n	0.08328269	Peri.	321.40604	+0.64795406			-0.69817372
a	5.1931843	Node	85.93357	+0.75236682			+0.52434951
e	0.0428733	Incl.	17.77320	+0.11874220			+0.48745364
P	11.83	B(1,0)	9.5				

Residuals in seconds of arc

511205	711	1.1-	0.2+	751126	330	0.2+	0.6+	751222	330	0.7-	0.9+
511205	711	1.5-	0.8+	751129	330	3.2-	1.6+	751229	330	2.8-	0.5+
511223	711	1.9-	0.4+	751202	330	3.2-	0.4+				
511223	711	2.8-	0.6-	751211	330	0.4-	0.0				

1977 QH1 = 1959 EM = 1978 UU

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	335.38229		(1950.0)		P		Q
n	0.08429807	Peri.	294.95840	-0.06359220			-0.99703381
a	5.1513987	Node	158.55338	+0.95302500			-0.07356169
e	0.0181032	Incl.	6.80977	+0.29614079			+0.02263300
P	11.69	B(1,0)	10.0				

Residuals in seconds of arc

590311	690	0.0	0.5+	770824	095	2.2-	2.3-	770922	095	1.0+	0.2-
590312	690	1.7-	1.5+	770906	095	0.2-	0.5+	771007	095	1.0-	0.6+
770819	095	0.0	1.9-	770908	095	0.3+	0.3-	781028	688	0.1+	3.5+
770820	095	0.5-	1.0-	770910	095	0.5-	1.3-				
770822	095	0.2+	1.8-	770918	095	0.3-	2.0-				

1977 TL3

The 1978 recovery was made on the basis of calculations at the Purple Mountain Observatory (Chinese Astron. Circ. No. 3).

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	167.15157		(1950.0)		P		Q
n	0.08459736	Peri.	58.68050	+0.13742996			+0.97414116
a	5.1392418	Node	220.46931	-0.97646979			+0.10286437
e	0.0130960	Incl.	16.04022	-0.16619192			+0.20116641
P	11.65	B(1,0)	9.8				

Residuals in seconds of arc

771004	330	1.4-	1.4-	771101	330	0.4+	1.7+	781126	330	2.6+	0.2-
771010	330	1.1+	1.3+	771108	330	0.9-	0.3-	781130	330	2.7-	5.0+
771016	330	0.6+	1.0-	781028	330	0.2+	2.6-	781205	330	0.1-	2.4-

6521 P-L = 1970 QB = 1977 TR3

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	215.64087		(1950.0)		P		Q
n	0.29167313	Peri.	240.90535	+0.82997770			-0.55706344
a	2.2518492	Node	152.91747	+0.53109349			+0.77353774
e	0.1322386	Incl.	3.60028	+0.17051896			+0.30219146
P	3.38	B(1,0)	15.0				

Residuals in seconds of arc

600924	675	0.7+	1.1+	601022	675	0.5-	0.8+	771103	330	0.8-	1.5-
600926	675	1.0+	1.1+	601025	675	0.9-	1.0+	771104	330	0.1+	2.3-
600927	675	0.7+	0.3+	601026	675	0.1-	0.9+	771108	330	0.9+	1.2-
600928	675	1.1+	0.7+	700828	095	0.7+	2.4-	771111	330	1.0+	0.3-
601017	675	1.1-	1.1+	771012	330	3.0+	2.0+				

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

The identifications are by B. G. Marsden.

(646) Kastalia

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5

M	141.81235	(1950.0)	P	Q
n	0.27782191	Peri. 36.99451	+0.93368528	+0.34342679
a	2.3260822	Node 302.62068	-0.35056603	+0.81883367
e	0.2123158	Incl. 6.91731	-0.07304281	+0.45996680
P	3.55	B(1,0) 14.3		

Residuals in seconds of arc

070911	024	0.5-	3.2+	140824	045	0.3-	0.5-	530816	012	(2.0-	7.7+)
070916	024	(4.3-	2.5+)	140829	045	(11.3-	0.9+)	530829	078	1.2+	0.2+
070919	045	0.7-	2.0-	321130	012	(46.8-	27.0+)	530906	760	0.4+	0.9+
070930	045	(3.8+	0.3+)	370111	029	0.4+	1.5-	530906	760	0.4+	1.0+
071005	045	(7.2+	0.3+)	370112	029	1.4-	0.0	641104	760	1.6+	0.1-
071008	045	0.6+	0.6-	370113	754	0.4+	0.2-	641104	760	0.3-	0.2+
071012	045	0.1+	1.5+	391020	062	(5.3+	6.1+)	641207	760	0.2-	1.6+
071023	045	1.0+	2.2-	530804	078	1.5+	1.5-	710927	095	(12.5+	8.9+)
071029	045	(2.8+	1.1-)	530810	760	0.5+	0.4+	711014	095	0.0	0.4-
071104	045	0.9+	0.4-	530810	760	(22.3-	11.8+)	711020	095	1.0-	0.9-
140821	045	1.0-	1.2-	530813	012	3.7-	0.3+	711111	095	0.9-	1.4+
140823	045	1.1+	0.5-								

1936 TK = 1976 EG = 1979 PC

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	327.64770	(1950.0)	P	Q
n	0.18089622	Peri. 103.99184	+0.79296791	-0.57196495
a	3.0963539	Node 291.30104	+0.43476171	+0.77256551
e	0.2088874	Incl. 13.01998	+0.42683035	+0.27567848
P	5.45	B(1,0) 12.5		

Residuals in seconds of arc

361007	690	1.6+	1.8+	790829	046	0.8-	0.6+	790913	046	0.1+	1.0-
361009	690	0.2+	0.4+	790829	046	0.1-	0.5+	790916	046	0.2+	0.5-
361011	690	1.7-	2.3-	790830	046	0.2-	1.1+	790916	046	0.9-	0.6-
760307	808	0.7+	0.0	790830	046	0.1-	1.1+	790919	046	2.0+	0.1+
760307	808	0.5-	0.3+	790912	046	1.9-	0.1+	790919	046	2.2+	0.3-
790825	046	0.7+	0.5+	790912	046	0.8-	0.9-				
790825	046	0.7-	0.5-	790913	046	0.0	0.9-				

1965 QC = 1936 SF = 1969 MB = 1973 GH1 = 1979 MB

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M	286.26945	(1950.0)	P	Q
n	0.20355305	Peri. 257.00956	+0.58834190	-0.80159564
a	2.8621024	Node 155.97014	+0.80539549	+0.56920288
e	0.1574329	Incl. 15.13096	+0.07205492	+0.18290026
P	4.84	B(1,0) 12.0		

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

360917	078	(28.0+	43.1+)	X	650829	760	1.5+	4.1+	690619	095	0.4-	0.3-
360917	078	(58.1+	13.1+)	X	650829	760	1.5+	2.7+	730403	095	0.4+	3.3+
360926	078	(25.4+	15.2-)	X	650903	760	(16.1-	6.7+)	790628	688	0.4-	1.6+
361004	078	(0.07+	0.00+)	X	650903	760	7.1-	2.4-	790702	688	2.4-	0.4-
361010	078	(7.4+	11.7-)	X	650928	760	4.0+	0.7-	790723	688	0.8+	0.6-
361016	078	(12.8-	31.1+)	X	650928	760	0.2-	1.8+	790730	688	1.0+	1.9-

1975 TN = 1979 QF

Epoch 1979 Nov. 23.0 ET = JDE 2444200.5 (J-P)

M 338.29305

(1950.0)

P

Q

n 0.24050290 Peri. 196.34729 +0.75168360 -0.65064362

a 2.5608848 Node 205.25406 +0.62985259 +0.75670387

e 0.1318659 Incl. 14.64483 +0.19559520 +0.06373488

P 4.10 B(1,0) 14.0

Residuals in seconds of arc

751003	095	0.4+	1.1+	790912	046	0.1-	1.0-	790918	552	0.2+	0.6+
751101	095	0.9-	0.7+	790916	046	0.3-	0.9-	790919	046	2.1-	1.9-
751106	095	0.3-	2.5-	790916	046	1.6+	0.5+	790919	046	0.0	1.1-
751108	095	1.5+	1.3+	790916	552	0.9+	1.3+	790926	046	1.1+	1.3-
790829	552	0.4+	1.0+	790916	552	3.0+	0.5+	790926	046	0.3+	1.3-
790829	552	0.7+	1.3+	790917	046	1.4-	4.1-	790926	552	0.2-	0.0
790829	046	0.3-	0.6-	790917	552	2.5-	1.1+	790926	552	(9.2-	1.2-)
790829	046	0.8+	0.2+	790917	552	2.7-	1.3+	790927	552	0.3-	1.2+
790912	046	2.7+	0.2-	790918	552	(5.7-	1.4-)	790927	552	1.3-	0.3+

\* \* \* \* \*

## NEW NAMES OF MINOR PLANETS.

(1912) Anubis = 6534 P-L

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

Named for the Egyptian god who had the shape of a jackal and was the protector of the dead.

(1923) Osiris = 4011 P-L

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

Named for the Egyptian god of vegetation, of the waxing and waning moon and of the annual flooding of the Nile.

(1924) Horus = 4023 P-L

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

Named for the son of Osiris, an Egyptian god in the shape of a falcon, king of the sky and the stars.

(1958) Chandra = 1970 SB

Discovered 1970 Sept. 24 by C. U. Cesco at the Yale-Columbia Southern Station, El Leoncito.

Named for Subrahmanyan Chandrasekhar, the Indian-born distinguished service professor at the University of Chicago, generally regarded as the world's leading theoretical astrophysicist.

(2075) Martinez = 1974 VA

Discovered 1974 Nov. 9 at the El Leoncito Station of the Felix Aguilar Observatory.

Named in memory of Hugo Arturo Martinez (1890-1976), astronomer at the La Plata Observatory for many years.

(2124) Nissen = 1974 MK

Discovered 1974 June 20 at the El Leoncito Station of the Felix Aguilar Observatory.

Named in memory of Juan Jose Nissen (1901-1978), first director of the Felix Aguilar Observatory, previously director of the Cordoba Observatory and a department head at the La Plata Observatory.

(2135) Aristaeus = 1977 HA

Discovered 1977 Apr. 17 by E. F. Helin and S. J. Bus at Palomar.

This Apollo object is named for the son of Apollo and the nymph Cyrene.

(2153) Akiyama = 1978 XD

Discovered 1978 Dec. 1 at the Harvard College Observatory, Agassiz Station.

Named in memory of Kaoru Akiyama (1901-1970), professor at Hosei University, Tokyo, during 1930-1940 and 1949-1970, well known for his work on minor planets. Initially in collaboration with K. Hirayama, he made the first detailed study of the orbit of the 3/2 commensurability object (153) Hilda. Name proposed by K. Tomita.

(2159) Kukkamaki = 1941 UX

Discovered 1941 Oct. 16 by L. Oterma at Turku.

Named in honor of T. J. Kukkamaki on the occasion of his 70th birthday, 1979 Oct. 11. A distinguished disciple of Y. Vaisala, this leading geodesist was for many years Director of the Finnish Geodetic Institute. He is an active member of several international scientific organizations and has served as President of the International Association of Geodesy since 1975.

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#### EPHEMERIDES.

1935 SQ1				Elements MPC 5009					
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1979 09 24		02 50.81	+15 27.8	1.753	2.563	135.0	16.1	16.1	
1979 10 04		02 47.75	+15 18.4						
1979 10 14		02 42.27	+14 58.9	1.627	2.574	156.8	8.8	15.8	
1979 10 24		02 34.96	+14 31.2						
1979 11 03		02 26.75	+13 59.0	1.597	2.589	179.2	0.3	15.3	
1979 11 13		02 18.74	+13 26.9						
1979 11 23		02 11.95	+13 00.1	1.675	2.606	155.5	9.0	15.9	
1979 12 03		02 07.18	+12 42.8						
1979 12 13		02 04.87	+12 37.6	1.849	2.626	133.5	15.8	16.3	
1979 12 23		02 05.16	+12 45.4						
1980 01 02		02 07.98	+13 05.8	2.091	2.648	114.0	19.8	16.7	
1980 01 12		02 13.10	+13 37.2						
1980 01 22		02 20.28	+14 17.8	2.370	2.672	96.8	21.4	17.0	

1977 QH1				Elements MPC 5011					
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1979 09 24		04 53.26	+15 12.0	4.701	5.071	106.0	11.0	17.1	
1979 10 04		04 53.96	+14 58.6						
1979 10 14		04 53.31	+14 43.2	4.424	5.069	125.5	9.2	17.0	
1979 10 24		04 51.30	+14 26.6						
1979 11 03		04 48.03	+14 09.5	4.213	5.068	146.3	6.2	16.8	
1979 11 13		04 43.71	+13 52.8						
1979 11 23		04 38.62	+13 37.3	4.101	5.067	166.7	2.6	16.5	
1979 12 03		04 33.13	+13 24.3						
1979 12 13		04 27.66	+13 14.5	4.109	5.066	164.9	2.9	16.6	
1979 12 23		04 22.61	+13 08.9						
1980 01 02		04 18.36	+13 08.0	4.237	5.065	143.9	6.6	16.8	
1980 01 12		04 15.19	+13 12.0						
1980 01 22		04 13.28	+13 21.0	4.462	5.064	122.8	9.4	17.0	
1980 02 01		04 12.74	+13 34.4						
1980 02 11		04 13.57	+13 51.7	4.750	5.063	102.9	11.0	17.2	

1977 TL3		R. A. (1950)		Decl.	Delta	r	Elements MPC		5011
Date	ET						Elong.	Phase	Mag.
1979 09 24		06 07.48	+12	48.7	5.139	5.203	88.1	11.1	17.2
1979 10 04		06 10.30	+12	17.3					
1979 10 14		06 11.89	+11	44.7	4.835	5.204	106.3	10.6	17.0
1979 10 24		06 12.16	+11	11.7					
1979 11 03		06 11.10	+10	39.3	4.563	5.204	125.7	8.9	16.9
1979 11 13		06 08.74	+10	08.5					
1979 11 23		06 05.20	+09	40.4	4.359	5.205	145.8	6.1	16.7
1979 12 03		06 00.69	+09	16.0					
1979 12 13		05 55.52	+08	56.5	4.256	5.205	163.0	3.2	16.5
1979 12 23		05 50.03	+08	42.4					
1980 01 02		05 44.64	+08	34.4	4.273	5.206	159.6	3.8	16.5
1980 01 12		05 39.75	+08	32.3					
1980 01 22		05 35.67	+08	36.0	4.407	5.206	140.7	6.9	16.8
1980 02 01		05 32.68	+08	44.7					
1980 02 11		05 30.94	+08	57.4	4.635	5.206	120.5	9.4	16.9
1980 02 21		05 30.53	+09	13.2					
1980 03 02		05 31.46	+09	31.0	4.921	5.206	101.3	10.8	17.1

1977 NT		R. A. (1950)		Decl.	Delta	r	Elements MPC		4926
Date	ET						Variation		Mag.
1979 10 14		07 09.41	+23	19.8	3.473	3.675	-0.56	+0.9	18.9
1979 10 24		07 13.14	+23	16.2					
1979 11 03		07 14.99	+23	15.8	3.186	3.680	-0.62	+1.0	18.7
1979 11 13		07 14.80	+23	19.0					
1979 11 23		07 12.49	+23	25.8	2.938	3.684	-0.68	+1.1	18.4
1979 12 03		07 08.10	+23	35.6					
1979 12 13		07 01.87	+23	47.3	2.766	3.686	-0.73	+1.0	18.2
1979 12 23		06 54.20	+23	59.3					
1980 01 02		06 45.74	+24	10.0	2.704	3.687	-0.76	+0.7	17.7
1980 01 12		06 37.25	+24	18.2					
1980 01 22		06 29.50	+24	23.4	2.766	3.686	-0.74	+0.4	18.2
1980 02 01		06 23.15	+24	25.8					
1980 02 11		06 18.65	+24	26.0	2.938	3.684	-0.68	+0.2	18.4
1980 02 21		06 16.24	+24	24.6					
1980 03 02		06 16.00	+24	22.2	3.186	3.681	-0.62	+0.1	18.7
1980 03 12		06 17.83	+24	19.0					
1980 03 22		06 21.57	+24	14.9	3.473	3.676	-0.56	+0.2	18.9

1939 QB		R. A. (1950)		Decl.	Delta	r	Elements MPC		5010
Date	ET						Elong.	Phase	Mag.
1979 11 03		08 21.85	+15	12.7	2.148	2.449	95.4	23.8	18.5
1979 11 13		08 27.63	+14	25.5					
1979 11 23		08 30.77	+13	45.6	1.945	2.501	113.0	21.3	18.2
1979 12 03		08 31.01	+13	15.0					
1979 12 13		08 28.26	+12	55.6	1.773	2.552	133.5	16.3	18.0
1979 12 23		08 22.59	+12	48.3					
1980 01 02		08 14.40	+12	53.1	1.671	2.602	156.5	8.7	17.7
1980 01 12		08 04.51	+13	08.3					
1980 01 22		07 53.99	+13	31.3	1.671	2.650	172.3	2.9	17.5
1980 02 01		07 44.09	+13	58.4					
1980 02 11		07 35.88	+14	26.6	1.786	2.695	151.5	10.0	17.9
1980 02 21		07 30.08	+14	53.3					
1980 03 02		07 27.08	+15	16.5	1.998	2.739	129.6	16.2	18.4
1980 03 12		07 26.86	+15	35.1					
1980 03 22		07 29.25	+15	48.2	2.273	2.781	110.3	19.6	18.8
1980 04 01		07 33.97	+15	55.2					
1980 04 11		07 40.65	+15	55.6	2.577	2.820	93.4	20.8	19.1

1977 QL3						Elements MPC		4927
Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1979 11 03		09 00.19	+20 24.0	3.305	3.416	-0.65	+2.0	17.7
1979 11 13		09 06.32	+20 15.8					
1979 11 23		09 10.75	+20 15.6	3.021	3.422	-0.71	+2.4	17.4
1979 12 03		09 13.28	+20 24.4					
1979 12 13		09 13.78	+20 42.9	2.764	3.428	-0.78	+2.7	17.2
1979 12 23		09 12.13	+21 10.6					
1980 01 02		09 08.40	+21 46.2	2.569	3.434	-0.86	+2.9	16.9
1980 01 12		09 02.82	+22 27.0					
1980 01 22		08 55.84	+23 09.3	2.469	3.441	-0.92	+2.8	16.6
1980 02 01		08 48.12	+23 49.0					
1980 02 11		08 40.46	+24 22.6	2.488	3.448	-0.93	+2.4	16.7
1980 02 21		08 33.62	+24 47.3					
1980 03 02		08 28.27	+25 02.2	2.621	3.454	-0.88	+1.9	17.0
1980 03 12		08 24.83	+25 07.3					
1980 03 22		08 23.51	+25 03.3	2.842	3.461	-0.80	+1.7	17.3
1980 04 01		08 24.33	+24 51.3					
1980 04 11		08 27.16	+24 32.2	3.114	3.468	-0.71	+1.6	17.5

1977 RG						Elements MPC		4576
Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1979 11 23		10 00.12	+05 54.9	2.748	2.914	-0.79	+2.2	19.5
1979 12 03		10 06.61	+05 16.3					
1979 12 13		10 11.36	+04 47.6	2.452	2.894	-0.89	+2.6	19.2
1979 12 23		10 14.12	+04 31.3					
1980 01 02		10 14.68	+04 29.8	2.181	2.873	-1.02	+3.0	18.9
1980 01 12		10 12.94	+04 44.9					
1980 01 22		10 08.91	+05 17.7	1.969	2.852	-1.15	+3.4	18.5
1980 02 01		10 02.88	+06 07.3					
1980 02 11		09 55.42	+07 10.6	1.851	2.830	-1.23	+3.6	18.1
1980 02 21		09 47.30	+08 22.5					
1980 03 02		09 39.53	+09 36.6	1.847	2.807	-1.22	+3.3	18.2
1980 03 12		09 32.98	+10 46.5					
1980 03 22		09 28.37	+11 47.1	1.951	2.785	-1.13	+2.7	18.5
1980 04 01		09 26.13	+12 35.0					
1980 04 11		09 26.39	+13 09.0	2.135	2.762	-1.02	+2.2	18.8
1980 04 21		09 29.09	+13 28.7					
1980 05 01		09 34.02	+13 34.6	2.362	2.739	-0.91	+2.0	19.0

1978 VB						Elements MPC		4637
Date	ET	R. A. (1950)	Decl.	Delta	r	Variation		Mag.
1979 11 23		10 29.79	+18 05.2	2.783	2.908	-0.61	+6.7	18.5
1979 12 03		10 36.22	+17 27.8					
1979 12 13		10 40.68	+17 00.4	2.533	2.939	-0.66	+7.5	18.3
1979 12 23		10 42.92	+16 43.9					
1980 01 02		10 42.74	+16 38.6	2.304	2.969	-0.74	+8.4	18.0
1980 01 12		10 40.03	+16 43.7					
1980 01 22		10 34.81	+16 57.3	2.132	2.999	-0.84	+9.0	17.8
1980 02 01		10 27.39	+17 16.2					
1980 02 11		10 18.35	+17 35.8	2.053	3.027	-0.92	+9.1	17.5
1980 02 21		10 08.52	+17 51.6					
1980 03 02		09 58.92	+17 59.7	2.091	3.055	-0.92	+8.5	17.6
1980 03 12		09 50.47	+17 57.7					
1980 03 22		09 43.85	+17 45.0	2.242	3.081	-0.86	+7.6	18.0
1980 04 01		09 39.51	+17 21.9					
1980 04 11		09 37.55	+16 49.7	2.478	3.106	-0.76	+6.7	18.3
1980 04 21		09 37.89	+16 09.6					
1980 05 01		09 40.34	+15 22.4	2.763	3.130	-0.66	+6.0	18.6