

=====  
 The MINOR PLANET CIRCULARS/MINOR PLANETS AND COMETS are published, on behalf  
 of Commission 20 of the International Astronomical Union, usually in batches  
 on the date of each full moon, by:  
     Minor Planet Center  
     Smithsonian Astrophysical Observatory  
     Cambridge, MA 02138, U.S.A.  
 TWX 710-320-6842 ASTROGRAM CAM     \*\*                      Brian G. Marsden, Director  
 Telephone 617-864-5758              \*\*                      Conrad M. Bardwell, Associate Director  
 =====

EDITORIAL NOTICE.

It has been suggested that the MPCs might more appropriately be published according to the lunar month rather than by the calendar month. Beginning with this batch, the MPCs will therefore be dated for the UT date of full moon.

\* \* \* \* \*

ERRATA.

RI	Line	
2404	3	The designation 1942 EK2 (see also RI 2416) should be eliminated; the object is (1409) Isko
MPC	Line	
1556	- 3	For 1955 SY read 1955 SY1
3707	-23	For 1972 RK2 read 1972 RJ2
5033	- 2	For Y. Vaisala read H. Alikoski
5032	- 7	Add The identification 1973 FF1 = 1978 GL (NOC 1053) is invalid.
5978	- 7	Add The identifications 1937 LH = 1954 MM (MPC 2567) and 1957 YB = A906 BJ (MPC 2806) are invalid.
6047	- 7	Add The identification 1953 TX2 = 1952 KA (NAZ 9, 9) is invalid.
6099	-13	For n 0.00526004 read n 0.00526003
6099	-12	For a 32.7448920 read a 32.7449098
6100	14	For 8 oppositions read 7 oppositions
6101	9	Add The identifications 1953 TC1 = 1942 EU (MPC 2808), 1953 TC1 = 1952 HC3 (ibid.) and 1953 TC1 = 1955 EE (MPC 1740) are invalid.
6199	- 9	For Moutain read Mountain
6208	13	For contrubutions read contributions

\* \* \* \* \*

CORRECTED OBSERVATIONS.

The following observations correct those previously published.

Object	Date	UT	R. A. (1950)	Decl.	Reference	Mag.	N	Obs.
2	1975 09	03.92396	00 07 58.06	-01 08 17.3	MPC 4550			022
2	1975 09	03.92500	00 07 58.02	-01 08 18.4	MPC 4550			022
2	1975 09	03.92604	00 07 58.00	-01 08 18.9	MPC 4550			022
2	1975 09	07.84479	00 05 29.72	-02 02 28.2	MPC 4550			022
2	1975 09	07.84583	00 05 29.67	-02 02 29.4	MPC 4550			022
2	1975 09	07.86111	00 05 29.08	-02 02 42.4	MPC 4550			022

2		1975	09	17.92779	23	58	21.92	-04	28	21.5	MPC	4550		022	
2		1975	09	17.93852	23	58	21.41	-04	28	30.8	MPC	4550		022	
2		1975	09	17.94128	23	58	21.28	-04	28	33.8	MPC	4550		022	
2		1975	09	24.82678	23	53	08.69	-06	09	45.1	MPC	4550		022	
2		1975	09	24.84097	23	53	07.96	-06	09	57.0	MPC	4550		022	
2		1975	10	02.85799	23	47	05.99	-08	04	29.9	MPC	4550		022	
2		1975	10	02.85903	23	47	05.92	-08	04	31.5	MPC	4550		022	
2		1975	10	02.87083	23	47	05.39	-08	04	41.4	MPC	4550		022	
2		1975	10	03.89241	23	46	20.57	-08	18	46.5	MPC	4550		022	
2		1975	10	03.89933	23	46	20.29	-08	18	52.1	MPC	4550		022	
2		1975	10	03.90141	23	46	20.22	-08	18	53.8	MPC	4550		022	
2		1975	10	07.86354	23	43	31.82	-09	12	06.8	MPC	4550		022	
2		1975	10	07.86493	23	43	31.76	-09	12	07.9	MPC	4550		022	
2		1975	10	07.86632	23	43	31.70	-09	12	08.8	MPC	4550		022	
2		1975	10	14.99444	23	38	56.22	-10	40	55.1	MPC	4550		022	
2		1975	10	14.99653	23	38	56.14	-10	40	56.5	MPC	4550		022	
2		1975	10	14.99861	23	38	56.07	-10	40	57.6	MPC	4550		022	
2		1975	10	23.90382	23	34	20.35	-12	16	37.8	MPC	4550		022	
2		1975	10	23.90521	23	34	20.31	-12	16	38.5	MPC	4550		022	
2		1975	10	23.90660	23	34	20.26	-12	16	39.4	MPC	4550		022	
2		1975	10	27.84132	23	32	47.29	-12	52	57.5	MPC	4550		022	
2		1975	10	27.84340	23	32	47.27	-12	52	58.5	MPC	4550		022	
2		1975	10	27.84549	23	32	47.24	-12	52	59.6	MPC	4550		022	
2		1975	10	29.86806	23	32	06.92	-13	10	10.4	MPC	4550		022	
2		1975	10	29.86910	23	32	06.90	-13	10	10.6	MPC	4550		022	
2		1975	10	29.87014	23	32	06.90	-13	10	10.6	MPC	4550		022	
2		1975	10	31.89965	23	31	31.85	-13	26	23.3	MPC	4550		022	
2		1975	10	31.90104	23	31	31.84	-13	26	23.6	MPC	4550		022	
2		1975	10	31.90243	23	31	31.82	-13	26	24.2	MPC	4550		022	
2		1975	11	24.87369	23	31	42.70	-15	23	26.4	MPC	4550		022	
2		1975	11	24.87646	23	31	42.75	-15	23	26.9	MPC	4550		022	
2		1975	11	24.87923	23	31	42.79	-15	23	27.4	MPC	4550		022	
2		1975	11	29.78889	23	33	19.85	-15	32	03.6	MPC	4550		022	
2		1975	11	29.79097	23	33	19.90	-15	32	03.7	MPC	4550		022	
2		1975	11	29.79306	23	33	19.95	-15	32	03.8	MPC	4550		022	
2		1975	12	22.83333	23	47	12.20	-15	17	37.0	MPC	4550		022	
2		1975	12	22.83542	23	47	12.28	-15	17	36.5	MPC	4550		022	
2		1975	12	22.83750	23	47	12.39	-15	17	36.7	MPC	4550		022	
2		1975	12	29.82188	23	53	10.86	-14	58	42.5	MPC	4550		022	
2		1975	12	29.82396	23	53	10.98	-14	58	42.2	MPC	4550		022	
2		1975	12	29.82604	23	53	11.09	-14	58	41.7	MPC	4550		022	
2		1976	01	21.77917	00	17	23.43	-13	22	55.9	MPC	4550		022	
2		1976	01	21.78125	00	17	23.53	-13	22	55.8	MPC	4550		022	
2		1976	01	21.78403	00	17	23.72	-13	22	55.4	MPC	4551		022	
8		1967	06	29.21875	16	57	59.04	-18	12	14.2	MPC	2824		669	
259		1938	12	13.87027	03	14.	7	+10	30		RI	1935	12.7	1 078	
348		1938	12	13.87027	03	16.	0	+10	37		RI	1935	13	1 078	
409		1972	06	29.81202	16	38	36.81	-15	51	57.8	MPC	5164		073	
412		1973	12	28.94708	06	25	51.94	+19	33	20.9	MPC	4872		2 020	
412		1973	12	28.94997	06	25	51.72	+19	33	21.6	MPC	4872		2 020	
1937	EF	1937	03	10.89068	12	25	55.19	+12	03	49.4	MPC	3232		3 020	
1937	EF	1937	03	10.91788	12	25	54.25	+12	04	01.0	MPC	3232		3 020	
1937	EF	1937	03	12.89825	12	24	35.90	+12	16	38.2	MPC	3232		3 020	
1937	EF	1937	03	12.93149	12	24	34.45	+12	16	52.2	MPC	3232		3 020	
1937	EF	1937	03	30.82157	12	11	59.70	+13	54	16.0	MPC	3232		3 020	
1937	EF	1937	03	30.85205	12	11	58.46	+13	54	22.5	MPC	3232		3 020	
1958	GU	*	1958	04	08.13196	12	14	02.85	-03	40	12.4	MPC	2413	16.9	4 760
1958	GU		1958	04	08.17500	12	14	00.52	-03	40	08.0	MPC	2413		4 760
1964	VQ		1964	11	04.37586	04	25	56.40	+32	20	02.5	MPC	3709		5 760

1974 VA *	1974 11 09.21349	04 08 02.72	-24 32 28.7	MPC 3894	6 808
1974 VA	1974 11 19.20523	03 57 01.93	-24 13 44.4	MPC 3894	6 808
1981 EZ *	1981 03 04.25918	11 55 44.28	+01 40 12.9	MPC 6092	17.8 809
1981 EZ	1981 03 04.26610	11 55 43.92	+01 40 15.0	MPC 6092	809
1981 EZ	1981 03 04.27303	11 55 43.56	+01 40 17.2	MPC 6092	809
1981 EZ	1981 03 05.29384	11 54 50.48	+01 45 23.2	MPC 6092	809
1981 EZ	1981 03 05.30077	11 54 50.13	+01 45 25.2	MPC 6092	809
1981 EZ	1981 03 05.30769	11 54 49.77	+01 45 27.3	MPC 6092	809

Note 1: the observations of (259) and (348) were interchanged. 2: erroneously given as (409). 3: 1937 EF = (1558); originally erroneously given as 1937 EG. 4: the observations were interchanged. 5: 1964 VQ = (2455); originally erroneously given as (1476). 6: 1974 VA = (2075).

\* \* \* \* \*

### DELETED OBSERVATIONS.

The following observations are to be deleted.

Object	Date	UT	R. A. (1950)	Decl.	Reference	N Obs.
A919 UE *	1919 10 19.05556	00 21 05	-05 39.9	CM 087	006	
1929 NF *	1929 07 02.89443	18 07 57.59	-37 52 07	AN 236	078	
1929 NF	1929 07 02.91728	18 07 55.90	-37 52 22	AN 236	078	
1934 FH *	1934 03 16.21811	10 00 30.99	+13 48 27.4	RI 972	754	
1940 GX *	1940 04 08.03	14 30.6	-19 11	MPC 43	020	
1940 NF *	1940 07 04.99	20 33.4	-15 57	MPC 44	020	
1940 TB *	1940 10 07.38542	02 06 30	+29 36	AJ 50	690	
1940 TB	1940 10 08.32639	02 05 41	+29 36	AJ 50	690	
1949 OJ1 *	1949 07 18.00	21 09.6	-14 31	MPC 352	020	
1949 SD	1949 09 29.00622	01 47 54.76	+05 25 01.3	MPC 368	020	
1949 SD	1949 10 26.86177	01 25 42.96	+03 16 41.1	MPC 368	020	
1949 SP *	1949 09 17.90	22 01.6	+13 54	MPC 352	020	
1949 SR *	1949 09 28.10	01 38.0	+04 58	MPC 353	020	
1949 SR	1949 10 16.00	01 26.2	+03 52	MPC 353	020	
1949 SR	1949 10 23.00	01 19.2	+03 28	MPC 353	020	
1949 SS *	1949 09 28.10	01 47.5	+05 32	MPC 353	020	
1949 TK *	1949 10 15.90	01 26.0	+03 52	MPC 453	020	
1949 UF *	1949 10 16.00	01 35.1	+04 00	MPC 353	020	
1949 UF	1949 10 23.00	01 29.1	+03 30	MPC 353	020	
1949 UG *	1949 10 16.10	02 33.4	+14 09	MPC 353	1 020	
1949 UG	1949 10 23.10	02 27.8	+14 08	MPC 353	1 020	
1950 QK1 *	1950 08 18.33089	22 26 00.45	-11 14 19.4	MPC 705	711	
1950 QK1	1950 08 18.37639	22 25 59.18	-11 14 23.5	MPC 705	711	
1950 QK1	1950 08 19.34028	22 25 25.51	-11 17 01.4	MPC 705	711	
1950 QK1	1950 08 19.37431	22 25 24.28	-11 17 05.5	MPC 705	711	
1950 XK *	1950 12 07.06921	03 22 02.93	+10 33 04.4	MPC 784	839	
1950 XK	1950 12 07.12185	03 22 00.45	+10 33 19.2	MPC 784	839	
1950 XL *	1950 12 10.16834	03 30 26.62	+11 16 05.2	MPC 784	839	
1974 VF3 *	1974 11 09.21349	04 08 02.76	-24 32 28.7	MPC 5438	2 808	
1974 VF3	1974 11 09.24327	04 08 00.81	-24 32 30.4	MPC 5438	2 808	
1974 VF3	1974 11 12.18383	04 04 57.69	-24 32 44.7	MPC 5438	2 808	
1974 VF3	1974 11 12.21361	04 04 55.62	-24 32 43.7	MPC 5438	2 808	
1974 VF3	1974 11 14.19707	04 02 45.89	-24 30 12.4	MPC 5438	2 808	
1974 VF3	1974 11 14.22685	04 02 43.75	-24 30 08.9	MPC 5438	2 808	
1974 VF3	1974 11 16.19159	04 00 31.24	-24 25 24.0	MPC 5438	2 808	
1974 VF3	1974 11 16.21999	04 00 29.23	-24 25 19.3	MPC 5438	2 808	
1974 VF3	1974 11 19.20522	03 57 01.93	-24 13 44.5	MPC 5438	2 808	
1974 VF3	1974 11 19.23465	03 56 59.80	-24 13 36.1	MPC 5438	2 808	
1974 VF3	1974 11 20.21599	03 55 50.59	-24 08 36.5	MPC 5438	2 808	

1974 VF3	1974 11 21.20012	03 54 40.80	-24 03 00.7	MPC 5438	2 808
1974 VF3	1974 11 21.22989	03 54 38.59	-24 02 50.8	MPC 5438	2 808
1974 VF3	1974 12 12.17013	03 31 30.57	-19 47 29.9	MPC 5438	2 808
1974 VF3	1974 12 12.20199	03 31 28.74	-19 46 55.2	MPC 5438	2 808
1974 VF3	1974 12 13.05867	03 30 43.13	-19 31 20.3	MPC 5438	2 808
1974 VF3	1974 12 13.09052	03 30 41.42	-19 30 44.0	MPC 5438	2 808
1974 VF3	1974 12 14.15394	03 29 45.99	-19 10 56.9	MPC 5438	2 808
1974 VF3	1974 12 17.10349	03 27 24.19	-18 13 20.7	MPC 5438	2 808
1974 VF3	1974 12 17.13257	03 27 22.81	-18 12 46.5	MPC 5438	2 808
1978 VZ12*	1978 11 02.88776	01 44 28.88	-00 10 43.7	MPC 6026	095
1981 HA *	1981 04 30.40498	11 44 17.69	-01 31 46.1	MPC 6073	474
1981 HA	1981 04 30.49974	11 44 16.03	-01 31 38.1	MPC 6073	474

Note 1: identical with 1949 UU = (1072). 2: identical with 1974 VA = (2075).

\* \* \* \* \*

## IDENTIFICATION CHANGES.

Continuation to MPC 6221.

Object	Date	UT	R. A. (1950)	Decl.	Old desig.	Mag.	Obs.
1931 VN1 *	1931 11 04.85875	23 44 02.91	-07 41 53.1	1931 TZ		024	
1954 UF3 *	1954 10 16.82229	00 23 25.05	+09 11 51.3	1954 TS	14.8	020	
1954 UF3	1954 10 22.93165	00 18 05.09	+08 40 33.8	1954 TS	15.0	020	
1954 UF3	1954 10 26.80	00 14.6	+08 14	1954 TS		020	
1957 YV *	1957 12 27.23729	03 53 34.00	+20 04 08.2	1957 WG1	17.1	760	
1957 YV	1957 12 27.27973	03 53 32.48	+20 04 04.8	1957 WG1		760	
1967 JT *	1967 05 04.92359	13 55 43.67	-10 19 46.1	1967 GN		095	
1969 RL2 *	1969 09 13.90668	22 47 22.68	-06 40 12.3	1969 QU		095	
1972 XO2 *	1972 12 13.95148	06 56 28.04	+19 57 01.4	1972 XK2	16.5	095	
1974 GA *	1974 04 11.18966	12 25 55.47	+01 09 49.3	1974 FA		801	
1974 HQ3 *	1974 04 26.93898	12 17 35.53	+01 42 03.4	1974 FA		052	
1974 TP1 *	1974 10 10.84983	23 08 24.51	+01 55 12.0	1974 SH2	16.0	095	
1976 SV10*	1976 09 25.31590	02 27 07.91	+17 42 08.1	6545 P-L		801	

\* \* \* \* \*

## IDENTIFICATIONS.

The following list of identifications with numbered minor planets continues that on MPC 6222. The identifications are by L. D. Schmadel unless otherwise noted.

	Note		Note		Note
A902 UB = (2052)		A909 EA = (2188)		A909 HC = (2291)	
A910 TB = (1137)	1	A911 KD = (2019)		A911 QC = (2196)	
A913 QB = (2064)		A914 HA = (1528)	1	A914 TE = (309)	1
A915 CB = (2103)		A915 CF = (2118)		A915 HC = (2036)	
A916 JA = (2284)		A917 DA = (1341)	1	A917 SN = (2037)	
A920 EA = (2371)	1	A921 EK = (2007)		1926 AJ = (2140)	
1928 FL = (2258)		1928 RS = (2111)		1928 TC = (2051)	
1929 LB = (2271)		1929 PN = (2036)		1929 RM1 = (2116)	
1929 TL = (2159)		1929 TX = (2186)		1929 VB = (2144)	
1929 VK = (2046)		1929 WE = (2185)		1929 XP = (2269)	
1930 DF = (2016)		1930 DG = (2114)		1930 FA = (2245)	
1930 FT = (2284)		1930 QO = (2287)		1930 UH = (2232)	
1930 UP = (2184)		1930 WF = (2118)		1931 GA = (2132)	
1931 KJ = (2068)		1931 TZ = (2066)	2	1931 TF4 = (2188)	
1931 UM = (2086)		1932 JD = (2264)		1932 KB = (2264)	

1932 UC = (2151)		1933 OM = (2116)		1933 RE = (2085)
1933 SK1 = (2228)		1933 UL = (2235)		1934 GG = (2196)
1935 GN = (2282)		1935 PE = (2043)		1935 QF1 = (2216)
1935 SD1 = (2286)		1935 TH = (2179)		1935 WC = (2209)
1936 KJ = (2259)		1936 MB = (2089)		1936 WJ = (2263)
1937 KF = (2182)		1938 DV1 = (2169)		1938 EV = (2167)
1938 WE = (2244)		1938 WR = (2085)		1939 DJ = (2068)
1939 FN = (2089)		1940 SB = (2151)		1940 WB = (2140)
1941 KD = (2038)		1941 QC = (2254)		1941 QF = (2251)
1941 SG2 = (2236)		1941 SH2 = (2109)		1942 FN = (2182)
1942 GP = (2246)		1942 LD = (2114)		1942 LG = (2217)
1942 VN = (2197)		1943 AA = (2263)		1943 EL = (2007)
1943 EZ = (2293)		1944 BD = (2072)		1944 FA = (2248)
1947 FF = (2196)		1948 PR = (2271)		1948 PY = (2115)
1948 RY = (2286)		1948 TY = (2276)		1948 YA = (2010)
1949 FL = (2085)		1949 FX = (2293)		1949 FZ = (2283)
1949 KY = (2117)	3	1949 QR1 = (2158)		1949 SB1 = (2016)
1949 YC = (2112)		1950 BE1 = (2122)		1950 DX = (2122)
1950 HC1 = (2132)		1950 TJ1 = (2231)		1950 VQ = (2040)
1950 XO = (2215)		1951 LQ = (2043)		1951 LT = (2232)
1951 OC = (2132)		1951 WM1 = (2225)		1951 YA = (2283)
1952 BO1 = (2251)		1952 DU = (2032)	4	1952 FL = (2052)
1952 OE = (2083)		1952 OW = (2294)		1952 SZ = (2121)
1952 SB1 = (2007)	5	1952 UR1 = (2007)	5	1952 UU1 = (2112)
1953 DA = (2033)		1953 FF1 = (2196)		1953 VN1 = (2069)
1954 TS = (2052)		1955 SS1 = (2139)		1955 TA1 = (2068)
1956 EY = (2230)		1956 ND = (2294)		1956 XC = (2108)
1957 BB = (2140)		1957 UP = (2133)		1957 UA1 = (2263)
1957 YV = (2046)		1958 GB = (2007)		1958 GU = (2154)
1958 RB = (2118)		1958 XR = (2043)		1959 GX = (2158)
1960 WM = (2032)		1961 AL = (2122)		1961 TG = (2213)
1961 VV = (2158)		1962 WL2 = (2227)		1963 KA = (2085)
1965 US1 = (2155)		1966 CT = (2147)		1967 JT = (2197)
1969 EC2 = (2193)		1969 QU = (2252)		1969 TK3 = (2185)
1970 EL = (2206)		1970 JL = (2180)		1970 LK = (2156)
1970 WL = (2225)		1971 BE1 = (2207)		1971 BG1 = (2085)
1971 JB = (2209)		1971 QH2 = (2067)		1971 QP2 = (2016)
1971 TX2 = (2137)		1971 YH = (2051)		1972 LX = (2085)
1972 TM4 = (2182)		1972 XO2 = (2041)		1972 YH1 = (2222)
1973 AS2 = (2222)		1973 FY = (2140)		1973 SU3 = (2009)
1973 UN3 = (2165)		1973 UT3 = (2209)		1973 UC4 = (2154)
1974 CL = (2217)		1974 CZ = (2066)		1974 CN1 = (2093)
1974 FA = (2222)		1974 HM1 = (2222)		1974 HL2 = (2056)
1974 MM = (2013)		1974 MP = (2140)		1974 NA = (2013)
1974 TP1 = (2119)		1974 VJ2 = (2287)		1974 YD = (2252)
1975 CE = (2296)		1975 EP3 = (2177)		1975 GN1 = (2292)
1975 RM1 = (2140)		1975 TC = (2045)		1975 XD2 = (2258)
1975 XT5 = (2043)	6	1976 GP8 = (2126)		1976 JB = (2267)
1976 NN = (2217)		1976 QV1 = (2029)		1976 SQ = (2025)
1976 SG10 = (2179)		1976 YQ4 = (2196)		1977 DE = (2116)
1977 FJ = (2264)		1977 JB1 = (2123)		1977 SR = (2057)
1977 TS5 = (2254)		1978 UZ1 = (2168)		1978 WO12 = (2215)
1979 FG = (2169)				

Note 1: identification by C. M. Bardwell. 2: the double designation 1931 TZ = 1926 GH (JO 35, 159) is invalid. 3: the double designation 1949 KC = 1949 KY (MPC 1278) is invalid. 4: the double designation 1952 BQ = 1952 DU (MPC 1855) is invalid. 5: the double designation 1952 SB1 = 1952 UR1 was independently found by S. Kanda (MPC 1855). 6: the identification 1969 PD = 1975 XT5 (NOC 1067) is invalid.

## OBSERVATIONS OF COMETS.

Observations are published here for the following observatory codes:

372 Geisei. Observer T. Seki.  
 557 Ondrejov. Observer M. Antal.  
 801 Oak Ridge Observatory. Observers R. E. McCrosky, C.-Y. Shao and G. Schwartz (assisted by C. M. Bardwell, D. W. E. Green and B. G. Marsden).  
 811 Maria Mitchell Observatory, Nantucket. Observer E. Belserene. Long. and Parallax 289.90, -321, 280 (see MPC 4766).

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
Periodic Comet Schwassmann-Wachmann 1						
/1974 II	1978	04 13.04659	05 13 50.36	+29 09 35.8		801
Periodic Comet Smirnova-Chernykh						
/1975 VII	1981	09 26.29228	04 02 46.1	+17 13 22	19 N	372
/1975 VII	1981	09 27.74766	04 02 42.33	+17 13 12.5	19 N	372
Periodic Comet Brooks 2						
/1980f	1980	09 09.15631	22 10 47.17	-07 43 57.8		801
Comet Cernis-Petrauskas (1980k)						
/1980k	1980	08 10.075	12 40 35	+31 48.8		811
/1980k	1980	09 05.05945	14 31 50.54	+25 48 25.1	12 T	811
Periodic Comet Kearns-Kwee						
/1981h	1981	08 29.35741	05 09 58.49	+31 46 24.0		801
Periodic Comet Slaughter-Burnham						
/1981i	1981	08 26.28417	01 16 44.88	+12 14 27.2		801
/1981i	1981	10 02.09722	01 04 44.0	+14 01 43	19 T	557
Periodic Comet Swift-Gehrels						
/1981j	1981	08 26.19737	22 31 35.06	-00 43 42.8		801
Periodic Comet Howell						
/1981k	1981	09 26.72188	00 14 33.01	-09 35 11.4	15.5T	372
/1981k	1981	09 27.57500	00 13 48.4	-09 37 16	15.5T	372

\* \* \* \* \*

## OBSERVATIONS MADE AT NICE BY B. MILET.

Object	Date	UT	R. A. (1950)	Decl.	Obs.
1	1970 10	24.05911	02 10 56.63	-00 03 10.0	020
1	1970 10	24.06015	02 10 56.89	-00 03 09.4	020
1	1970 11	04.05056	02 01 07.17	-00 25 17.1	020
1	1970 11	04.05160	02 01 07.11	-00 25 16.7	020
1	1970 12	01.89962	01 42 20.41	+00 00 02.4	020
1	1970 12	01.90066	01 42 20.39	+00 00 02.0	020
1	1970 12	21.85991	01 39 12.31	+01 30 37.8	020
1	1970 12	21.86130	01 39 12.30	+01 30 38.2	020
1	1970 12	21.86268	01 39 12.32	+01 30 38.5	020
1	1971 01	05.80059	01 42 59.10	+03 08 21.1	020
1	1971 01	05.80163	01 42 59.11	+03 08 21.8	020
1	1971 01	05.80266	01 42 59.17	+03 08 22.8	020
1	1971 01	18.76477	01 50 00.82	+04 47 32.4	020
1	1971 01	18.76581	01 50 00.86	+04 47 32.5	020

1	1971	01	18.76685	01	50	00.87	+04	47	33.2	020
1	1971	01	20.76312	01	51	22.31	+05	03	43.4	020
1	1971	01	20.76416	01	51	22.32	+05	03	43.7	020
1	1971	01	20.76520	01	51	22.37	+05	03	44.9	020
1	1971	01	22.75939	01	52	47.72	+05	20	04.3	020
1	1971	01	22.76043	01	52	47.81	+05	20	04.9	020
1	1971	01	22.76145	01	52	47.81	+05	20	04.7	020
1	1971	01	27.76515	01	56	39.49	+06	01	53.9	020
1	1971	01	27.76619	01	56	39.67	+06	01	53.8	020
1	1971	01	27.76723	01	56	39.74	+06	01	54.3	020
1	1971	02	19.76260	02	19	03.85	+09	23	12.7	020
1	1971	02	19.76364	02	19	03.90	+09	23	13.6	020
1	1971	02	19.76468	02	19	03.99	+09	23	13.6	020
1	1971	02	23.76375	02	23	38.34	+09	58	58.2	020
1	1971	02	23.76479	02	23	38.39	+09	58	58.8	020
1	1971	02	23.76583	02	23	38.46	+09	58	59.2	020
1	1971	12	16.11314	09	51	56.10	+23	11	17.4	020
1	1971	12	16.11418	09	51	56.13	+23	11	18.3	020
1	1971	12	16.11522	09	51	56.15	+23	11	17.9	020
2	1970	05	14.11842	22	14	18.46	+09	37	04.1	020
2	1970	05	14.12084	22	14	18.57	+09	37	05.7	020
2	1970	07	22.91415	22	26	40.38	+11	22	03.0	020
2	1970	07	22.91554	22	26	40.33	+11	22	02.8	020
2	1970	07	22.91692	22	26	40.28	+11	22	02.6	020
2	1970	07	22.91832	22	26	40.30	+11	22	02.1	020
2	1970	07	22.91969	22	26	40.25	+11	22	01.7	020
2	1970	09	21.87744	21	46	30.50	+01	24	40.1	020
2	1970	09	21.87917	21	46	30.45	+01	24	39.0	020
2	1970	09	21.88090	21	46	30.41	+01	24	37.4	020
2	1970	09	25.82636	21	44	37.91	+00	35	05.6	020
2	1970	09	25.82891	21	44	37.90	+00	35	04.8	020
2	1970	09	25.82982	21	44	37.88	+00	35	04.0	020
2	1970	10	20.79443	21	39	56.22	-04	00	30.9	020
2	1970	10	20.79686	21	39	56.22	-04	00	31.5	020
2	1970	10	23.81775	21	40	15.10	-04	27	47.8	020
2	1970	10	23.81948	21	40	15.17	-04	27	48.8	020
2	1970	11	03.83518	21	42	58.45	-05	54	22.2	020
2	1970	11	03.83760	21	42	58.52	-05	54	23.5	020
2	1970	11	16.77887	21	49	06.09	-07	10	08.0	020
2	1970	11	16.78130	21	49	06.13	-07	10	08.9	020
2	1970	12	01.85185	21	59	39.83	-08	05	11.9	020
2	1970	12	01.85358	21	59	39.87	-08	05	12.3	020
2	1971	01	05.77739	22	34	39.22	-08	19	20.2	020
2	1971	01	05.77981	22	34	39.36	-08	19	20.2	020
2	1971	01	05.78223	22	34	39.45	-08	19	19.1	020
2	1971	01	18.74295	22	50	15.90	-07	53	34.7	020
2	1971	01	18.74469	22	50	16.01	-07	53	34.3	020
2	1971	01	18.74642	22	50	16.17	-07	53	34.3	020
2	1971	01	20.74027	22	52	45.70	-07	48	28.0	020
2	1971	01	20.74200	22	52	45.85	-07	48	27.4	020
2	1971	01	20.74373	22	52	45.94	-07	48	26.6	020
2	1971	01	22.74035	22	55	17.09	-07	43	02.0	020
2	1971	01	22.74208	22	55	17.20	-07	43	01.9	020
2	1971	01	22.74381	22	55	17.32	-07	43	01.5	020
2	1971	01	27.74611	23	01	41.55	-07	28	20.0	020
2	1971	01	27.74957	23	01	41.88	-07	28	19.6	020
2	1971	10	11.11018	04	38	45.15	-19	23	17.0	020
2	1971	10	11.11122	04	38	45.12	-19	23	18.8	020
2	1971	10	11.11226	04	38	45.16	-19	23	20.0	020

2	1971	10	12.09117	04	38	55.31	-19	42	18.6	020
2	1971	10	12.09221	04	38	55.29	-19	42	20.2	020
2	1971	10	12.09325	04	38	55.29	-19	42	20.9	020
2	1971	10	15.15327	04	39	16.50	-20	41	39.3	020
2	1971	10	15.15431	04	39	16.51	-20	41	39.6	020
2	1971	10	15.15535	04	39	16.56	-20	41	40.7	020
2	1971	12	06.93861	04	09	32.58	-32	00	00.5	020
2	1971	12	06.94034	04	09	32.49	-32	00	00.5	020
2	1971	12	06.94207	04	09	32.37	-32	00	01.2	020
2	1971	12	07.98435	04	08	39.32	-32	01	32.0	020
2	1971	12	07.98609	04	08	39.20	-32	01	32.8	020
2	1971	12	07.98782	04	08	39.11	-32	01	32.0	020
2	1971	12	23.82121	03	57	20.18	-31	19	33.2	020
2	1971	12	23.82225	03	57	20.15	-31	19	32.1	020
2	1971	12	23.82329	03	57	20.07	-31	19	32.3	020
3	1970	10	24.09547	03	49	05.48	+00	02	24.6	020
3	1970	10	24.09720	03	49	05.46	+00	02	23.7	020
3	1970	11	04.06718	03	43	48.08	-02	03	12.8	020
3	1970	11	04.06822	03	43	47.95	-02	03	15.2	020
3	1970	12	01.96265	03	24	23.25	-04	55	37.8	020
3	1970	12	21.90458	03	17	26.17	-04	03	21.9	020
3	1970	12	21.90562	03	17	26.15	-04	03	21.3	020
3	1970	12	21.90666	03	17	26.14	-04	03	20.6	020
3	1971	01	05.80820	03	20	01.59	-02	10	05.6	020
3	1971	01	05.80924	03	20	01.65	-02	10	05.2	020
3	1971	01	05.81028	03	20	01.69	-02	10	04.2	020
3	1971	01	18.79836	03	27	44.70	-00	01	29.0	020
3	1971	01	18.79940	03	27	44.71	-00	01	28.6	020
3	1971	01	18.80044	03	27	44.77	-00	01	28.3	020
3	1971	01	20.79460	03	29	20.31	+00	19	45.3	020
3	1971	01	20.79567	03	29	20.34	+00	19	45.6	020
3	1971	01	20.79671	03	29	20.39	+00	19	46.5	020
3	1971	01	22.78813	03	31	01.89	+00	41	13.6	020
3	1971	01	22.78901	03	31	01.97	+00	41	14.0	020
3	1971	01	22.79006	03	31	02.03	+00	41	14.7	020
3	1971	01	27.79493	03	35	42.76	+01	36	01.5	020
3	1971	01	27.79597	03	35	42.83	+01	36	02.0	020
3	1971	01	27.79701	03	35	42.90	+01	36	02.6	020
3	1971	02	18.76326	04	02	33.08	+05	38	34.2	020
3	1971	02	18.76568	04	02	33.24	+05	38	36.0	020
3	1971	02	18.76811	04	02	33.46	+05	38	36.9	020
3	1971	02	19.77160	04	03	59.49	+05	49	23.6	020
3	1971	02	19.77264	04	03	59.59	+05	49	24.8	020
3	1971	02	19.77368	04	03	59.70	+05	49	25.0	020
3	1971	02	23.76756	04	09	51.64	+06	31	43.8	020
3	1971	02	23.76860	04	09	51.75	+06	31	44.4	020
3	1971	02	23.76964	04	09	51.89	+06	31	45.2	020
4	1970	02	04.06188	09	37	55.24	+21	14	40.2	020
4	1970	02	04.06361	09	37	55.14	+21	14	40.7	020
4	1970	02	06.11840	09	35	53.03	+21	30	59.2	020
4	1970	02	06.11944	09	35	52.97	+21	30	59.9	020
4	1970	03	10.02951	09	07	24.65	+24	28	33.1	020
4	1970	03	10.03090	09	07	24.55	+24	28	32.7	020
4	1970	03	12.89818	09	05	51.93	+24	35	05.1	020
4	1970	03	12.90095	09	05	51.85	+24	35	05.3	020
4	1970	04	15.00888	09	06	41.51	+24	05	23.1	020
4	1970	04	15.01096	09	06	41.59	+24	05	21.8	020
4	1970	04	30.89354	09	18	00.43	+22	57	22.6	020
4	1970	04	30.89458	09	18	00.47	+22	57	21.8	020



4	1971	03	25.17182	19	16	06.99	-19	33	52.4	020
4	1971	03	25.17286	19	16	07.12	-19	33	51.7	020
4	1971	03	25.17390	19	16	07.22	-19	33	52.5	020
4	1971	03	26.18849	19	17	51.06	-19	32	03.0	020
4	1971	03	26.18953	19	17	51.16	-19	32	02.1	020
4	1971	03	26.19057	19	17	51.28	-19	32	02.2	020
4	1971	03	30.17375	19	24	31.70	-19	24	40.5	020
4	1971	03	30.17583	19	24	31.84	-19	24	39.7	020
4	1971	03	30.17790	19	24	32.08	-19	24	39.7	020
4	1971	06	03.08977	20	32	51.44	-18	49	26.9	020
4	1971	06	03.09081	20	32	51.55	-18	49	26.7	020
4	1971	06	03.09184	20	32	51.58	-18	49	27.6	020
4	1971	06	18.08656	20	32	59.73	-19	50	14.6	020
4	1971	06	18.08760	20	32	59.74	-19	50	15.4	020
4	1971	06	19.07828	20	32	44.67	-19	55	30.2	020
4	1971	06	19.07932	20	32	44.66	-19	55	30.7	020
4	1971	07	30.94561	20	00	43.65	-24	42	41.0	020
4	1971	07	30.95323	20	00	43.18	-24	42	44.6	020
4	1971	08	06.89152	19	54	31.86	-25	22	32.6	020
4	1971	08	06.89256	19	54	31.77	-25	22	32.5	020
4	1971	08	06.94104	19	54	29.24	-25	22	48.1	020
4	1971	08	06.94207	19	54	29.20	-25	22	48.5	020
4	1971	08	16.83997	19	47	24.21	-26	07	03.6	020
4	1971	08	16.84897	19	47	23.78	-26	07	07.5	020
4	1971	08	24.83648	19	43	42.70	-26	31	36.6	020
4	1971	08	24.85033	19	43	42.44	-26	31	38.7	020
4	1971	08	27.95814	19	42	50.10	-26	38	30.2	020
4	1971	08	27.95918	19	42	50.12	-26	38	30.8	020
4	1971	08	27.96022	19	42	50.10	-26	38	29.4	020
4	1971	09	26.81147	19	50	39.63	-26	40	14.8	020
4	1971	09	26.81286	19	50	39.75	-26	40	14.2	020
4	1971	09	26.81424	19	50	39.75	-26	40	14.1	020
4	1971	09	27.79905	19	51	22.70	-26	38	32.5	020
4	1971	09	27.80009	19	51	22.71	-26	38	31.8	020
4	1971	09	27.80112	19	51	22.71	-26	38	32.8	020
4	1971	10	07.80638	19	59	59.60	-26	15	57.7	020
4	1971	10	07.80742	19	59	59.62	-26	15	57.6	020
4	1971	10	07.80846	19	59	59.75	-26	15	56.8	020
4	1971	10	19.77084	20	13	06.05	-25	36	15.3	020
4	1971	10	19.77292	20	13	06.18	-25	36	14.5	020
4	1971	10	22.82567	20	16	51.75	-25	23	56.8	020
4	1971	10	22.82671	20	16	51.81	-25	23	55.1	020
4	1971	10	22.82775	20	16	51.88	-25	23	55.7	020
4	1971	10	25.82994	20	20	42.45	-25	10	59.9	020
4	1971	10	25.83098	20	20	42.50	-25	10	59.7	020
4	1971	10	25.83202	20	20	42.60	-25	10	59.4	020
5	1970	02	03.81186	03	26	06.74	+12	53	36.9	020
5	1970	02	03.81463	03	26	06.84	+12	53	38.9	020
5	1970	02	09.89038	03	31	35.20	+13	32	24.4	020
5	1970	02	09.89280	03	31	35.24	+13	32	23.4	020
5	1971	05	15.04383	14	50	39.99	-07	05	12.5	020
5	1971	05	15.04521	14	50	39.96	-07	05	12.2	020
6	1970	02	03.85757	07	02	46.91	+13	37	51.2	020
6	1970	02	03.87696	07	02	46.07	+13	38	03.2	020
6	1971	03	25.16178	14	06	06.36	+07	21	26.0	020
6	1971	03	25.16351	14	06	06.28	+07	21	27.8	020
6	1971	03	25.16524	14	06	06.25	+07	21	28.7	020
6	1971	03	26.17931	14	05	28.28	+07	30	39.0	020
6	1971	03	26.18070	14	05	28.23	+07	30	40.1	020

6	1971	03	26.18208	14	05	28.15	+07	30	40.8	020
6	1971	03	30.11073	14	02	50.65	+08	05	53.4	020
6	1971	03	30.11280	14	02	50.56	+08	05	54.1	020
6	1971	05	12.90650	13	27	46.30	+12	04	29.3	020
6	1971	05	12.90939	13	27	46.17	+12	04	29.2	020
6	1971	05	14.91864	13	26	31.90	+12	05	28.5	020
6	1971	05	14.92037	13	26	31.85	+12	05	28.4	020
6	1971	06	15.93343	13	18	13.31	+10	31	20.9	020
6	1971	06	15.93516	13	18	13.30	+10	31	19.9	020
6	1971	06	28.86260	13	21	05.24	+09	09	33.7	020
6	1971	06	28.86503	13	21	05.29	+09	09	32.3	020
6	1971	06	29.89174	13	21	27.30	+09	02	19.5	020
6	1971	06	29.89451	13	21	27.37	+09	02	18.6	020
7	1971	05	12.87459	11	47	47.69	-05	57	14.1	020
7	1971	05	12.87701	11	47	47.68	-05	57	13.9	020
7	1971	05	14.87570	11	47	39.28	-05	50	24.0	020
7	1971	05	14.87761	11	47	39.29	-05	50	23.6	020
7	1971	06	15.92974	11	57	02.90	-05	22	20.1	020
7	1971	06	15.93135	11	57	03.01	-05	22	23.3	020
7	1971	06	28.85706	12	05	56.22	-05	49	36.7	020
7	1971	06	28.85949	12	05	56.34	-05	49	36.8	020
7	1971	06	29.88550	12	06	44.95	-05	51	50.5	020
7	1971	06	29.88793	12	06	44.98	-05	51	50.0	020
8	1970	02	04.17061	15	20	19.61	-12	08	15.0	020
8	1970	02	04.17303	15	20	19.80	-12	08	14.5	020
8	1970	02	06.18558	15	22	25.59	-12	12	34.0	020
8	1970	02	06.18732	15	22	25.67	-12	12	34.8	020
8	1970	03	30.12738	15	47	53.36	-11	49	33.0	020
8	1970	03	30.12946	15	47	53.34	-11	49	34.1	020
8	1970	03	30.13154	15	47	53.38	-11	49	33.3	020
8	1970	03	30.13362	15	47	53.34	-11	49	32.1	020
8	1970	06	23.92544	14	43	53.60	-08	55	49.2	020
8	1970	06	23.92683	14	43	53.43	-08	55	51.7	020
8	1970	07	21.89126	14	47	06.95	-10	49	04.2	020
8	1971	10	12.13636	02	53	50.21	+04	09	24.9	020
8	1971	10	12.13775	02	53	50.13	+04	09	24.0	020
8	1971	10	23.02564	02	45	53.82	+03	17	31.2	020
8	1971	10	23.02702	02	45	53.71	+03	17	30.1	020
8	1971	12	06.75093	02	12	32.26	+03	34	48.3	020
8	1971	12	06.75266	02	12	32.22	+03	34	49.3	020
8	1971	12	07.73846	02	12	22.97	+03	40	37.7	020
8	1971	12	07.74023	02	12	22.91	+03	40	38.1	020
8	1971	12	11.73451	02	12	07.01	+04	06	10.1	020
8	1971	12	11.73658	02	12	07.04	+04	06	12.7	020
9	1970	05	14.06647	17	31	14.92	-23	48	58.3	020
9	1970	05	14.06890	17	31	14.82	-23	48	58.3	020
9	1970	06	23.94449	16	50	56.13	-24	22	45.0	020
9	1970	06	23.94691	16	50	55.92	-24	22	43.8	020
9	1970	07	22.87260	16	32	41.99	-24	25	52.0	020
9	1970	07	22.87641	16	32	41.91	-24	25	50.8	020
9	1970	07	27.88907	16	31	53.87	-24	28	21.9	020
9	1970	07	27.89288	16	31	53.80	-24	28	22.1	020
9	1971	10	19.94709	01	18	09.69	+00	09	34.7	020
9	1971	10	19.97341	01	18	08.12	+00	09	30.7	020
9	1971	10	25.94075	01	12	25.85	-00	05	42.6	020
9	1971	10	25.94179	01	12	25.85	-00	05	42.7	020
10	1970	02	03.82087	03	50	03.85	+22	08	24.8	020
10	1970	02	03.82364	03	50	03.83	+22	08	25.0	020
10	1970	02	09.89557	03	52	07.66	+22	07	44.2	020

10	1970	02	09.89800	03	52	07.70	+22	07	43.5	020
10	1970	11	04.12258	09	03	43.95	+15	50	57.3	020
10	1970	11	04.12501	09	03	44.04	+15	50	55.6	020
10	1970	12	02.12922	09	15	33.97	+14	29	08.7	020
10	1970	12	02.13684	09	15	34.07	+14	29	09.7	020
10	1971	01	07.15590	09	07	32.51	+14	19	24.4	020
10	1971	01	07.17807	09	07	31.85	+14	19	27.0	020
10	1971	02	19.82805	08	33	52.82	+15	55	22.7	020
10	1971	02	19.82978	08	33	52.76	+15	55	23.2	020
10	1971	02	23.79388	08	31	13.74	+16	03	31.6	020
10	1971	02	23.79561	08	31	13.67	+16	03	32.0	020
11	1970	10	23.94310	01	19	43.38	-00	02	08.0	020
11	1970	10	23.96734	01	19	42.07	-00	02	14.4	020
11	1970	11	03.89716	01	11	14.52	-00	41	23.3	020
11	1970	11	03.92486	01	11	13.37	-00	41	26.4	020
11	1970	11	16.81281	01	04	34.10	-00	55	54.9	020
11	1970	11	16.81454	01	04	34.07	-00	55	54.6	020
11	1970	12	01.89201	01	02	28.69	-00	29	23.4	020
11	1970	12	01.89375	01	02	28.68	-00	29	22.7	020
11	1970	12	21.84606	01	09	04.39	+01	05	24.1	020
11	1970	12	21.84849	01	09	04.46	+01	05	25.7	020
11	1971	01	05.79331	01	19	51.78	+02	48	04.4	020
11	1971	01	05.79574	01	19	51.89	+02	48	06.2	020
11	1971	01	05.79816	01	19	52.07	+02	48	07.5	020
11	1971	01	18.75784	01	32	24.98	+04	31	16.4	020
11	1971	01	18.76027	01	32	25.13	+04	31	17.0	020
11	1971	01	18.76269	01	32	25.28	+04	31	18.1	020
11	1971	01	20.75585	01	34	34.39	+04	48	01.0	020
11	1971	01	20.75827	01	34	34.51	+04	48	01.8	020
11	1971	01	20.76070	01	34	34.71	+04	48	03.2	020
11	1971	01	22.75385	01	36	47.06	+05	04	52.4	020
11	1971	01	22.75558	01	36	47.17	+05	04	52.8	020
11	1971	01	22.75731	01	36	47.29	+05	04	53.6	020
11	1971	01	27.75996	01	42	33.29	+05	47	52.2	020
11	1971	01	27.76169	01	42	33.36	+05	47	52.8	020
11	1971	01	27.76342	01	42	33.51	+05	47	52.3	020
12	1970	02	04.05565	09	28	32.07	+01	29	24.4	020
12	1970	02	04.05876	09	28	31.95	+01	29	25.0	020
12	1970	03	10.02190	08	58	31.29	+04	24	15.8	020
12	1970	03	10.02432	08	58	31.16	+04	24	17.1	020
12	1970	03	12.89160	08	56	50.64	+04	40	23.6	020
12	1970	03	12.89437	08	56	50.52	+04	40	23.8	020
12	1970	04	30.87865	09	00	31.26	+07	27	10.4	020
12	1970	04	30.88142	09	00	31.37	+07	27	11.7	020
12	1971	06	18.07064	19	18	50.83	-10	24	54.9	020
12	1971	06	18.07445	19	18	50.63	-10	24	52.5	020
12	1971	06	19.06166	19	18	17.50	-10	16	50.4	020
12	1971	06	19.06547	19	18	17.37	-10	16	48.5	020
12	1971	06	29.02224	19	11	21.08	-09	04	05.3	020
12	1971	06	29.02397	19	11	21.00	-09	04	05.5	020
13	1970	10	24.07158	02	47	35.80	+13	43	17.0	020
13	1970	10	24.07469	02	47	35.68	+13	43	17.1	020
13	1970	11	04.06285	02	35	14.59	+14	04	05.6	020
13	1970	11	04.06493	02	35	14.47	+14	04	06.2	020
13	1970	12	21.87792	01	58	34.30	+16	10	28.6	020
13	1970	12	21.88034	01	58	34.27	+16	10	29.3	020
13	1971	01	18.77447	02	06	56.15	+18	43	53.3	020
13	1971	01	18.77827	02	06	56.25	+18	43	55.2	020
13	1971	01	20.77282	02	08	18.67	+18	57	09.0	020

13	1971	01	20.77593	02	08	18.79	+18	57	10.1	020
13	1971	01	22.76805	02	09	47.90	+19	10	38.2	020
13	1971	01	22.77116	02	09	48.06	+19	10	39.6	020
13	1971	01	27.77346	02	13	53.84	+19	45	28.7	020
13	1971	01	27.77589	02	13	53.93	+19	45	30.2	020
14	1970	10	24.11625	07	59	13.65	+22	00	24.3	020
14	1970	10	24.11867	07	59	13.82	+22	00	24.6	020
14	1970	10	24.12109	07	59	13.97	+22	00	24.8	020
14	1970	12	02.10948	08	25	17.70	+23	17	42.8	020
14	1970	12	02.11883	08	25	17.79	+23	17	45.1	020
14	1971	01	07.04025	08	11	18.47	+27	15	41.6	020
14	1971	01	07.04752	08	11	18.02	+27	15	44.6	020
14	1971	01	22.96334	07	55	12.28	+29	11	56.7	020
14	1971	01	22.96957	07	55	11.87	+29	12	00.3	020
14	1971	01	27.96841	07	49	57.75	+29	42	19.9	020
14	1971	01	27.97603	07	49	57.25	+29	42	22.8	020
14	1971	02	19.79203	07	32	02.00	+31	04	11.4	020
14	1971	02	19.79376	07	32	02.00	+31	04	10.7	020
14	1971	02	23.78834	07	30	30.67	+31	09	07.0	020
14	1971	02	23.79007	07	30	30.59	+31	09	07.2	020
15	1970	04	15.01407	10	55	31.05	-09	30	06.1	020
15	1970	04	15.01649	10	55	30.93	-09	30	05.5	020
15	1970	04	30.89666	10	51	22.47	-08	16	25.8	020
15	1970	04	30.89804	10	51	22.48	-08	16	25.3	020
15	1971	06	15.95767	16	02	18.87	-32	37	16.7	020
15	1971	06	15.95940	16	02	18.69	-32	37	16.8	020
15	1971	06	28.89550	15	52	37.82	-31	14	54.8	020
15	1971	06	28.89740	15	52	37.85	-31	14	54.2	020
15	1971	06	29.95337	15	52	00.63	-31	08	06.2	020
15	1971	06	29.95511	15	52	00.60	-31	08	06.5	020
16	1970	10	24.11036	05	11	14.41	+18	34	27.5	020
16	1970	10	24.11278	05	11	14.42	+18	34	27.1	020
16	1970	11	04.08692	05	07	47.23	+18	17	00.0	020
16	1970	11	04.10561	05	07	46.67	+18	16	59.3	020
16	1970	12	02.08455	04	46	36.73	+17	30	20.7	020
16	1970	12	02.09355	04	46	36.20	+17	30	19.5	020
16	1970	12	21.92121	04	29	21.88	+17	09	44.1	020
16	1970	12	21.92294	04	29	21.82	+17	09	45.2	020
16	1971	02	19.78753	04	29	54.45	+18	44	16.3	020
16	1971	02	19.78926	04	29	54.57	+18	44	17.8	020
16	1971	02	23.78003	04	32	59.99	+18	56	35.9	020
16	1971	02	23.78176	04	33	00.04	+18	56	36.2	020
17	1970	10	24.08127	02	47	39.50	+06	57	22.0	020
17	1970	10	24.08369	02	47	39.36	+06	57	20.9	020
17	1970	11	04.01368	02	37	21.72	+06	07	39.1	020
17	1970	11	04.02268	02	37	21.14	+06	07	37.0	020
17	1970	12	01.94534	02	14	53.65	+05	01	31.1	020
17	1970	12	01.94776	02	14	53.59	+05	01	30.8	020
17	1970	12	21.88381	02	08	54.69	+05	27	28.8	020
17	1970	12	21.88692	02	08	54.68	+05	27	31.0	020
17	1971	01	18.78208	02	16	47.41	+07	28	34.4	020
17	1971	01	18.78520	02	16	47.51	+07	28	35.8	020
17	1971	01	20.77939	02	17	58.96	+07	39	54.4	020
17	1971	01	20.78182	02	17	59.07	+07	39	55.1	020
17	1971	01	22.77428	02	19	15.09	+07	51	28.4	020
17	1971	01	22.77666	02	19	15.18	+07	51	29.4	020
17	1971	01	27.77866	02	22	44.36	+08	21	36.7	020
17	1971	01	27.78073	02	22	44.44	+08	21	37.1	020
18	1970	06	23.93929	15	44	08.93	-04	02	47.6	020

18	1970	06	23.94137	15	44	08.83	-04	02	48.0	020
18	1970	07	22.86049	15	36	43.62	-06	09	40.2	020
18	1970	07	22.86360	15	36	43.62	-06	09	40.2	020
18	1970	07	27.87695	15	37	45.46	-06	41	18.0	020
18	1970	07	27.87938	15	37	45.50	-06	41	19.3	020
18	1971	10	11.11538	06	02	23.04	+09	13	22.8	020
18	1971	10	11.11642	06	02	23.07	+09	13	22.6	020
18	1971	10	11.11746	06	02	23.16	+09	13	21.5	020
18	1971	10	12.09498	06	03	18.91	+09	07	33.3	020
18	1971	10	12.09602	06	03	18.94	+09	07	32.2	020
18	1971	10	12.09706	06	03	19.02	+09	07	32.4	020
18	1971	10	15.15760	06	06	02.03	+08	49	14.5	020
18	1971	10	15.15899	06	06	02.09	+08	49	13.4	020
18	1971	10	15.16038	06	06	02.14	+08	49	13.2	020
18	1971	12	16.10691	05	49	26.06	+05	41	39.8	020
18	1971	12	16.10864	05	49	25.94	+05	41	40.5	020
18	1971	12	16.11037	05	49	25.81	+05	41	40.5	020
19	1970	05	14.08725	19	49	07.22	-19	11	40.8	020
19	1970	05	14.08967	19	49	07.39	-19	11	40.3	020
19	1970	07	27.92058	19	06	36.58	-19	57	13.3	020
19	1970	07	27.93166	19	06	35.92	-19	57	13.8	020
19	1970	09	07.84296	18	51	42.46	-20	45	41.6	020
19	1970	09	07.84538	18	51	42.52	-20	45	42.7	020
19	1970	09	18.83162	18	56	40.22	-20	48	13.5	020
19	1970	09	18.83338	18	56	40.16	-20	48	14.4	020
19	1970	09	21.82723	18	58	36.72	-20	47	57.8	020
19	1970	09	21.82965	18	58	36.76	-20	47	56.0	020
19	1971	12	17.11699	07	18	26.00	+19	43	22.4	020
19	1971	12	17.12877	07	18	25.40	+19	43	25.6	020
20	1970	02	04.14152	13	07	24.71	-07	41	50.2	020
20	1970	02	04.14395	13	07	24.75	-07	41	51.4	020
20	1970	02	06.15788	13	08	01.83	-07	45	29.1	020
20	1970	02	06.16030	13	08	01.89	-07	45	29.2	020
20	1970	04	15.02654	12	30	52.70	-03	35	11.8	020
20	1970	04	15.02896	12	30	52.55	-03	35	11.4	020
20	1970	04	30.90808	12	20	50.60	-02	24	18.1	020
20	1970	04	30.91051	12	20	50.48	-02	24	18.0	020
20	1971	06	18.08310	20	14	58.38	-18	46	46.0	020
20	1971	06	18.08483	20	14	58.39	-18	46	45.6	020
20	1971	06	19.07378	20	14	25.40	-18	48	14.5	020
20	1971	06	19.07551	20	14	25.36	-18	48	13.5	020
20	1971	07	30.91167	19	37	06.93	-20	27	27.7	020
20	1971	07	30.91860	19	37	06.62	-20	27	28.6	020
20	1971	08	09.89336	19	28	26.59	-20	48	30.3	020
20	1971	08	09.90514	19	28	25.99	-20	48	31.9	020
20	1971	08	12.90491	19	26	11.22	-20	53	56.9	020
20	1971	08	12.91945	19	26	10.60	-20	53	58.4	020
21	1970	10	24.09997	05	05	39.44	+21	10	51.1	020
21	1970	10	24.10239	05	05	39.40	+21	10	51.1	020
21	1970	11	04.08692	05	00	25.26	+21	12	14.0	020
21	1970	11	04.10561	05	00	24.51	+21	12	13.5	020
21	1970	12	02.01166	04	33	27.92	+20	57	31.4	020
21	1970	12	02.03070	04	33	26.52	+20	57	31.2	020
21	1970	12	21.91601	04	13	27.56	+20	39	50.7	020
21	1970	12	21.91843	04	13	27.53	+20	39	50.2	020
21	1971	01	05.85114	04	04	30.89	+20	36	12.9	020
21	1971	01	05.87019	04	04	30.44	+20	36	12.7	020
21	1971	01	18.80667	04	02	23.97	+20	45	21.2	020
21	1971	01	18.80909	04	02	23.98	+20	45	20.4	020

21	1971	01	20.80346	04	02	32.25	+20	47	49.1	020
21	1971	01	20.80554	04	02	32.26	+20	47	48.3	020
21	1971	01	22.79558	04	02	47.44	+20	50	32.8	020
21	1971	01	22.79765	04	02	47.49	+20	50	32.3	020
21	1971	01	27.80289	04	03	56.48	+20	58	32.2	020
21	1971	01	27.80497	04	03	56.51	+20	58	32.3	020
21	1971	02	18.77122	04	16	41.62	+21	49	06.9	020
21	1971	02	18.77365	04	16	41.86	+21	49	07.1	020
21	1971	02	19.77680	04	17	32.19	+21	51	49.0	020
21	1971	02	19.77922	04	17	32.29	+21	51	49.4	020
21	1971	02	23.77466	04	21	05.39	+22	02	53.4	020
21	1971	02	23.77743	04	21	05.50	+22	02	54.2	020
22	1971	10	23.08710	04	11	13.88	+15	34	46.3	020
22	1971	10	23.10095	04	11	13.41	+15	34	49.6	020
22	1971	12	06.83715	03	31	06.91	+17	21	35.3	020
22	1971	12	06.86001	03	31	05.64	+17	21	40.0	020
22	1971	12	07.89571	03	30	10.65	+17	24	29.8	020
22	1971	12	07.90956	03	30	09.88	+17	24	32.2	020
22	1971	12	23.76408	03	19	07.14	+18	13	46.9	020
22	1971	12	23.78970	03	19	06.32	+18	13	52.7	020
23	1971	10	19.94709	01	27	46.11	-03	14	45.7	020
23	1971	10	19.97341	01	27	44.47	-03	14	49.4	020
23	1971	10	22.93959	01	24	51.09	-03	22	20.3	020
23	1971	10	22.96522	01	24	49.53	-03	22	24.7	020
23	1971	10	25.94352	01	21	57.28	-03	28	38.9	020
23	1971	10	25.94525	01	21	57.22	-03	28	38.0	020
24	1971	06	18.05193	19	03	07.50	-23	37	10.4	020
24	1971	06	18.06267	19	03	07.12	-23	37	10.3	020
24	1971	06	19.03985	19	02	22.70	-23	38	27.0	020
24	1971	06	19.05300	19	02	22.21	-23	38	27.5	020
24	1971	06	28.99800	18	54	22.66	-23	50	57.7	020
24	1971	06	29.00043	18	54	22.44	-23	50	55.7	020
24	1971	07	30.87081	18	29	57.88	-24	14	53.3	020
24	1971	07	30.88535	18	29	57.46	-24	14	54.1	020
24	1971	08	09.84766	18	25	08.38	-24	16	35.0	020
24	1971	08	09.87051	18	25	07.64	-24	16	32.3	020
24	1971	08	12.85504	18	24	04.62	-24	16	41.1	020
26	1971	09	28.87076	23	37	43.99	-06	59	22.0	020
26	1971	10	07.91371	23	30	51.50	-07	29	06.9	020
26	1971	10	07.94419	23	30	50.19	-07	29	13.0	020
26	1971	10	25.86526	23	21	37.52	-07	54	00.9	020
26	1971	10	25.86699	23	21	37.46	-07	53	59.9	020
27	1971	08	16.89676	20	55	10.37	-19	09	08.7	020
27	1971	08	16.90438	20	55	09.89	-19	09	11.0	020
27	1971	08	24.91440	20	47	43.92	-19	40	34.1	020
27	1971	08	24.92825	20	47	43.17	-19	40	37.6	020
27	1971	08	27.98446	20	45	09.22	-19	50	53.7	020
27	1971	08	27.99069	20	45	08.87	-19	50	54.3	020
28	1971	06	29.02674	19	41	09.49	-13	24	40.3	020
28	1971	06	29.02917	19	41	09.44	-13	24	40.6	020
28	1971	06	29.03159	19	41	09.32	-13	24	40.8	020
28	1971	07	30.89955	19	15	05.00	-15	25	11.0	020
28	1971	07	30.90578	19	15	04.62	-15	25	12.0	020
28	1971	08	09.88679	19	08	23.22	-16	07	26.9	020
28	1971	08	09.89925	19	08	22.76	-16	07	31.2	020
28	1971	08	12.89729	19	06	41.89	-16	19	57.6	020
28	1971	08	12.91253	19	06	41.46	-16	19	59.1	020
29	1970	11	03.87154	00	43	40.63	+09	53	48.7	020
29	1970	11	03.87604	00	43	40.49	+09	53	47.5	020

29	1970	11	16.80900	00	37	26.71	+09	28	37.2	020
29	1970	11	16.81073	00	37	26.75	+09	28	37.7	020
29	1970	12	01.88509	00	36	20.90	+09	27	24.2	020
29	1970	12	01.88890	00	36	20.97	+09	27	25.2	020
29	1970	12	21.84087	00	44	43.18	+10	17	22.5	020
29	1970	12	21.84260	00	44	43.32	+10	17	22.4	020
29	1971	01	05.78535	00	57	04.66	+11	28	36.4	020
29	1971	01	05.78708	00	57	04.73	+11	28	36.8	020
29	1971	01	18.74919	01	11	08.67	+12	48	33.5	020
29	1971	01	18.75161	01	11	08.85	+12	48	34.8	020
29	1971	01	20.74650	01	13	32.95	+13	02	05.8	020
29	1971	01	20.74823	01	13	33.09	+13	02	06.8	020
29	1971	01	22.74623	01	16	00.83	+13	15	54.8	020
29	1971	01	22.74796	01	16	00.97	+13	15	56.0	020
29	1971	01	27.75234	01	22	25.74	+13	51	37.6	020
29	1971	01	27.75407	01	22	25.90	+13	51	38.5	020
30	1970	06	23.94449	16	43	33.64	-24	48	59.8	020
30	1970	06	23.94691	16	43	33.57	-24	48	58.7	020
30	1970	09	18.79180	17	03	47.58	-23	43	34.9	020
30	1970	09	18.79596	17	03	47.67	-23	43	34.7	020
30	1971	12	06.77171	03	10	34.10	+21	23	42.5	020
30	1971	12	06.77413	03	10	34.04	+21	23	42.1	020
30	1971	12	07.75893	03	09	52.66	+21	19	32.1	020
30	1971	12	07.76101	03	09	52.67	+21	19	32.0	020
30	1971	12	15.81604	03	05	23.75	+20	48	28.6	020
30	1971	12	15.81777	03	05	23.75	+20	48	28.3	020
32	1971	12	16.06258	05	41	05.11	+17	14	54.6	020
32	1971	12	16.07505	05	41	04.37	+17	14	54.3	020
34	1971	08	17.07198	23	20	57.85	-00	49	46.8	020
34	1971	08	17.08167	23	20	57.54	-00	49	46.9	020
34	1971	08	25.01689	23	15	50.92	-01	30	38.5	020
34	1971	08	25.03351	23	15	50.20	-01	30	45.3	020
34	1971	09	26.86237	22	51	10.82	-04	58	54.9	020
34	1971	09	26.88384	22	51	09.91	-04	59	03.4	020
35	1971	10	07.92792	00	17	43.33	+04	48	19.6	020
35	1971	10	07.95701	00	17	42.02	+04	48	15.1	020
35	1971	10	19.84529	00	09	11.93	+04	07	47.2	020
35	1971	10	19.86122	00	09	11.33	+04	07	45.2	020
35	1971	10	25.90127	00	05	28.39	+03	49	40.8	020
35	1971	10	25.90854	00	05	28.00	+03	49	38.2	020
37	1971	10	07.92792	00	23	49.07	+02	47	19.5	020
37	1971	10	07.95701	00	23	47.33	+02	47	13.1	020
37	1971	10	19.84529	00	13	57.36	+02	03	39.7	020
37	1971	10	19.86122	00	13	56.64	+02	03	37.1	020
37	1971	10	25.90127	00	09	51.73	+01	46	40.3	020
37	1971	10	25.90854	00	09	51.38	+01	46	39.8	020
38	1971	07	30.84380	18	08	39.35	-25	32	25.6	020
38	1971	07	30.85904	18	08	38.68	-25	32	24.0	020
39	1970	02	03.80563	03	26	16.53	+06	42	55.1	020
39	1970	02	03.80840	03	26	16.61	+06	42	55.5	020
39	1970	02	09.87964	03	31	01.25	+07	27	17.6	020
39	1970	02	09.88310	03	31	01.42	+07	27	19.2	020
39	1971	01	23.11882	10	29	27.56	+06	26	38.0	020
39	1971	01	23.13267	10	29	27.13	+06	26	43.3	020
39	1971	02	19.99668	10	10	14.88	+09	31	39.7	020
39	1971	02	19.99841	10	10	14.81	+09	31	41.0	020
39	1971	02	20.00015	10	10	14.71	+09	31	41.4	020
39	1971	02	23.95923	10	07	04.47	+10	01	28.6	020
39	1971	02	23.96823	10	07	03.94	+10	01	33.2	020

39	1971	03	30.78596	09	46	28.29	+13	35	36.9	020
39	1971	03	30.78769	09	46	28.26	+13	35	38.4	020
39	1971	04	26.82997	09	47	13.72	+14	34	29.8	020
39	1971	04	26.83170	09	47	13.81	+14	34	30.1	020
39	1971	05	12.85900	09	54	40.14	+14	24	45.5	020
39	1971	05	12.86489	09	54	40.36	+14	24	45.2	020
39	1971	05	14.86047	09	55	54.18	+14	21	34.9	020
39	1971	05	14.86636	09	55	54.37	+14	21	33.7	020
40	1970	10	24.08612	03	06	34.66	+11	01	15.8	020
40	1970	10	24.08785	03	06	34.55	+11	01	15.8	020
40	1970	11	04.03151	02	55	38.11	+10	25	08.4	020
40	1970	11	04.03913	02	55	37.54	+10	25	06.5	020
40	1970	12	01.95400	02	29	40.14	+09	36	44.6	020
40	1970	12	01.95573	02	29	40.03	+09	36	45.2	020
40	1970	12	21.89627	02	23	18.07	+10	13	38.5	020
40	1970	12	21.89870	02	23	18.07	+10	13	39.4	020
40	1970	12	21.90112	02	23	18.08	+10	13	41.5	020
40	1971	01	18.79213	02	35	12.16	+12	36	11.0	020
40	1971	01	18.79386	02	35	12.25	+12	36	11.3	020
40	1971	01	18.79559	02	35	12.35	+12	36	12.3	020
40	1971	01	20.78909	02	36	50.86	+12	49	10.2	020
40	1971	01	20.79082	02	36	50.96	+12	49	10.7	020
40	1971	01	20.79255	02	36	51.01	+12	49	11.4	020
40	1971	01	22.78294	02	38	34.82	+13	02	22.8	020
40	1971	01	22.78467	02	38	34.91	+13	02	23.5	020
40	1971	01	22.78640	02	38	35.00	+13	02	24.2	020
40	1971	01	27.78904	02	43	18.80	+13	36	34.2	020
40	1971	01	27.79251	02	43	19.01	+13	36	36.2	020
44	1970	02	04.15745	14	39	56.51	-11	33	56.8	020
44	1970	02	04.16126	14	39	56.66	-11	33	58.3	020
44	1970	02	06.18177	14	41	54.48	-11	39	00.5	020
44	1970	02	06.18350	14	41	54.50	-11	39	00.6	020
44	1970	07	21.88017	14	17	46.13	-09	29	01.3	020
44	1970	07	21.88433	14	17	46.18	-09	29	02.8	020
44	1971	08	16.89676	21	07	04.03	-17	12	20.2	020
44	1971	08	16.90438	21	07	03.57	-17	12	21.5	020
44	1971	08	24.91440	20	59	56.18	-17	52	12.7	020
44	1971	08	24.92825	20	59	55.51	-17	52	15.8	020
44	1971	08	27.98446	20	57	25.25	-18	06	04.8	020
44	1971	08	27.99069	20	57	24.94	-18	06	07.6	020
48	1970	03	12.94804	11	22	44.08	+01	41	56.9	020
48	1970	03	12.95704	11	22	43.63	+01	42	01.4	020
48	1971	05	19.05540	16	23	12.28	-13	21	38.5	020
48	1971	05	19.05748	16	23	12.20	-13	21	37.8	020
48	1971	06	28.88857	15	55	22.38	-12	03	50.9	020
48	1971	06	28.89238	15	55	22.21	-12	03	50.6	020
48	1971	06	29.94749	15	54	55.00	-12	03	38.2	020
48	1971	06	29.95060	15	54	54.90	-12	03	38.6	020
51	1970	02	03.80563	03	30	15.73	+07	08	27.2	020
51	1970	02	03.80840	03	30	15.88	+07	08	27.5	020
51	1970	02	09.87964	03	35	06.35	+07	49	22.3	020
51	1970	02	09.88310	03	35	06.47	+07	49	23.0	020
51	1971	05	12.92029	13	30	47.14	+01	50	08.7	020
51	1971	05	12.92826	13	30	46.88	+01	50	09.5	020
51	1971	05	14.93180	13	29	50.24	+01	58	33.0	020
51	1971	05	14.94046	13	29	50.00	+01	58	35.0	020
60	1971	08	17.03770	22	52	11.02	-03	31	33.7	020
60	1971	08	17.04497	22	52	10.65	-03	31	35.3	020
60	1971	08	25.00892	22	45	41.66	-04	16	47.9	020



60	1971	08	25.02624	22	45	40.76	-04	16	54.0	020
60	1971	09	26.85337	22	18	02.48	-07	49	31.0	020
60	1971	09	26.87415	22	18	01.73	-07	49	38.6	020
61	1971	01	23.08731	09	58	45.80	+19	33	03.2	020
61	1971	01	23.09631	09	58	45.45	+19	33	05.8	020
61	1971	02	23.90711	09	29	25.62	+19	59	55.8	020
61	1971	02	23.91473	09	29	25.36	+19	59	58.2	020
63	1970	10	24.06707	02	16	26.95	+22	08	25.2	020
63	1970	10	24.06950	02	16	26.78	+22	08	25.0	020
63	1970	11	04.13713	02	04	47.61	+21	23	16.9	020
63	1970	11	04.13955	02	04	47.51	+21	23	16.2	020
63	1970	12	01.90275	01	43	26.52	+19	11	07.8	020
63	1970	12	01.90517	01	43	26.50	+19	11	05.9	020
63	1970	12	21.86615	01	41	07.73	+18	17	35.9	020
63	1970	12	21.86926	01	41	07.78	+18	17	36.8	020
63	1971	01	18.77447	01	55	19.59	+18	34	03.3	020
63	1971	01	18.77827	01	55	19.77	+18	34	04.9	020
63	1971	01	20.77282	01	56	58.49	+18	38	46.5	020
63	1971	01	20.77593	01	56	58.55	+18	38	47.6	020
63	1971	01	27.77346	02	03	17.96	+18	58	27.6	020
63	1971	01	27.77589	02	03	18.01	+18	58	27.9	020
65	1971	09	29.98681	23	48	52.60	-03	22	34.2	020
65	1971	09	29.99789	23	48	52.13	-03	22	36.0	020
65	1971	10	25.88292	23	35	44.60	-04	58	31.5	020
65	1971	10	25.88534	23	35	44.57	-04	58	31.2	020
67	1971	10	19.96025	01	44	13.43	+09	55	02.0	020
67	1971	10	19.98657	01	44	11.93	+09	54	49.1	020
67	1971	10	22.97768	01	41	29.96	+09	29	03.0	020
67	1971	10	23.00019	01	41	28.67	+09	28	52.4	020
67	1971	10	25.95113	01	38	52.10	+09	03	54.7	020
67	1971	10	25.95356	01	38	51.98	+09	03	53.6	020
68	1971	01	22.98480	08	35	10.69	+30	27	58.3	020
68	1971	01	22.98859	08	35	11.17	+30	27	56.7	020
68	1971	01	27.98434	08	30	07.50	+30	45	34.9	020
68	1971	01	27.99196	08	30	07.04	+30	45	36.7	020
68	1971	02	19.88553	08	09	43.03	+31	20	06.8	020
78	1971	08	17.07198	23	25	27.44	-01	37	29.2	020
78	1971	08	17.08167	23	25	27.02	-01	37	28.3	020
78	1971	08	25.01689	23	19	32.91	-01	52	29.6	020
78	1971	08	25.03351	23	19	32.01	-01	52	31.7	020
78	1971	08	28.06444	23	17	01.95	-01	59	51.3	020
78	1971	08	28.07414	23	17	01.54	-01	59	52.2	020
78	1971	09	26.86237	22	50	30.15	-03	31	49.2	020
78	1971	09	26.88384	22	50	29.04	-03	31	54.8	020
78	1971	10	06.93619	22	43	12.33	-03	58	32.7	020
78	1971	10	06.95835	22	43	11.24	-03	58	36.0	020
82	1971	01	23.00282	08	32	18.66	+24	09	54.7	020
82	1971	01	23.01598	08	32	17.90	+24	09	57.7	020
82	1971	01	28.00858	08	27	33.47	+24	25	01.0	020
82	1971	01	28.02312	08	27	32.64	+24	25	04.3	020
82	1971	02	19.90007	08	09	31.44	+24	54	28.9	020
82	1971	02	19.91184	08	09	31.09	+24	54	29.0	020
86	1971	01	23.00282	08	49	32.89	+22	28	40.0	020
86	1971	01	23.01598	08	49	32.18	+22	28	44.0	020
86	1971	01	28.00858	08	45	07.27	+22	51	16.1	020
86	1971	01	28.02312	08	45	06.41	+22	51	19.7	020
87	1971	08	27.95606	20	05	00.92	-32	43	28.7	020
87	1971	08	27.96196	20	05	01.28	-32	43	31.0	020
88	1970	02	03.86761	07	34	19.70	+18	50	47.7	020

88	1970	02	03.88700	07	34	18.73	+18	50	49.6	020
88	1970	02	09.92534	07	29	49.31	+18	56	58.2	020
88	1970	02	09.94473	07	29	48.49	+18	56	59.4	020
89	1970	02	03.90259	08	02	37.76	+23	53	46.5	020
89	1970	02	03.92821	08	02	36.04	+23	53	42.9	020
89	1970	02	09.93538	07	56	32.75	+23	36	31.8	020
89	1970	02	09.95408	07	56	31.73	+23	36	28.8	020
90	1971	06	28.87680	15	35	31.93	-19	15	23.9	020
90	1971	06	28.87923	15	35	31.42	-19	15	21.8	020
90	1971	06	29.93779	15	35	09.97	-19	14	55.4	020
90	1971	06	29.94022	15	35	09.82	-19	14	59.5	020
91	1970	10	06.96877	00	10	51.16	+00	56	03.9	020
91	1970	10	06.98886	00	10	50.11	+00	55	57.9	020
92	1971	12	15.91057	03	34	39.54	+10	14	52.2	020
92	1971	12	15.92235	03	34	39.16	+10	14	54.3	020
100	1971	06	18.03773	17	39	26.88	-16	26	05.9	020
100	1971	06	18.04016	17	39	26.64	-16	26	07.3	020
101	1970	03	09.99348	09	16	40.46	+20	24	45.9	020
101	1970	03	10.00943	09	16	39.79	+20	24	46.0	020
102	1970	03	12.93004	09	32	34.02	+08	03	52.9	020
102	1970	03	12.93869	09	32	33.67	+08	03	54.7	020
103	1971	12	16.08613	06	08	42.25	+17	20	45.8	020
103	1971	12	16.09479	06	08	41.81	+17	20	47.1	020
104	1971	02	24.05687	10	41	19.98	+12	26	52.9	020
104	1971	02	24.06587	10	41	19.59	+12	26	55.8	020
105	1971	12	06.93203	04	03	22.45	-06	36	37.6	020
105	1971	12	06.93549	04	03	22.31	-06	36	38.1	020
105	1971	12	07.97933	04	02	25.80	-06	39	44.6	020
105	1971	12	07.98158	04	02	25.69	-06	39	45.4	020
105	1971	12	15.99541	03	55	41.03	-06	53	33.1	020
105	1971	12	15.99782	03	55	40.96	-06	53	31.3	020
105	1971	12	23.81567	03	50	11.08	-06	50	39.9	020
105	1971	12	23.81844	03	50	11.05	-06	50	39.5	020
107	1971	08	16.95216	21	28	55.68	-07	14	58.5	020
107	1971	08	16.96117	21	28	55.43	-07	14	59.6	020
107	1971	08	24.94833	21	23	48.72	-07	56	00.2	020
107	1971	08	24.95733	21	23	48.42	-07	56	03.7	020
107	1971	08	27.99901	21	21	56.45	-08	11	54.8	020
107	1971	08	28.00800	21	21	56.05	-08	11	57.8	020
109	1971	10	11.12507	03	18	44.51	+26	30	12.7	020
109	1971	10	11.14654	03	18	44.19	+26	30	22.9	020
109	1971	10	12.14415	03	18	29.93	+26	38	05.1	020
109	1971	10	12.14623	03	18	29.94	+26	38	05.4	020
109	1971	10	23.07533	03	13	27.56	+27	52	49.8	020
109	1971	12	06.75543	02	36	25.20	+28	53	21.2	020
109	1971	12	06.75786	02	36	25.12	+28	53	21.1	020
109	1971	12	07.74300	02	36	02.13	+28	51	32.4	020
109	1971	12	07.74542	02	36	02.09	+28	51	33.2	020
109	1971	12	11.74005	02	34	53.05	+28	44	11.8	020
109	1971	12	11.74247	02	34	53.03	+28	44	10.8	020
109	1971	12	15.79457	02	34	23.59	+28	36	55.9	020
109	1971	12	15.79700	02	34	23.54	+28	36	54.4	020
110	1971	08	25.07852	00	21	09.52	-07	07	30.1	020
110	1971	08	25.09099	00	21	09.38	-07	07	27.5	020
110	1971	10	25.89417	23	37	46.12	-09	58	21.7	020
110	1971	10	25.89625	23	37	46.08	-09	58	21.2	020
111	1971	10	12.10468	02	21	34.86	+22	24	27.5	020
111	1971	10	12.10641	02	21	34.87	+22	24	27.2	020
113	1971	10	06.91403	22	36	56.18	-14	40	05.9	020

113	1971	10	06.92303	22	36	56.04	-14	40	03.4	020
113	1971	10	07.83097	22	36	32.34	-14	42	05.4	020
113	1971	10	07.85659	22	36	31.55	-14	42	08.7	020
121	1970	10	24.01738	01	51	09.26	+02	37	48.0	020
121	1970	10	24.02639	01	51	08.88	+02	37	47.1	020
121	1970	11	03.97576	01	43	04.31	+02	17	21.3	020
121	1970	11	03.99100	01	43	03.34	+02	17	20.1	020
122	1971	10	19.96025	01	41	09.25	+09	20	01.1	020
122	1971	10	19.98657	01	41	07.98	+09	19	54.9	020
122	1971	10	22.97768	01	38	55.77	+09	06	14.0	020
122	1971	10	23.00019	01	38	54.70	+09	06	08.1	020
124	1971	12	06.83715	03	53	51.85	+16	27	32.6	020
124	1971	12	06.86001	03	53	50.55	+16	27	29.0	020
124	1971	12	07.89571	03	52	55.61	+16	24	35.2	020
124	1971	12	07.90956	03	52	54.81	+16	24	34.0	020
125	1970	02	04.00509	09	17	49.43	+11	48	29.8	020
125	1970	02	04.01617	09	17	48.86	+11	48	34.5	020
125	1970	02	06.06958	09	16	01.82	+11	59	13.9	020
125	1970	02	06.08066	09	16	01.25	+11	59	18.3	020
125	1970	03	05.87575	08	54	39.79	+14	18	38.6	020
125	1970	03	05.88475	08	54	39.35	+14	18	42.1	020
125	1970	03	09.97203	08	52	33.21	+14	35	18.5	020
125	1970	03	09.98311	08	52	32.90	+14	35	20.9	020
125	1971	05	15.06685	16	05	39.05	-13	33	48.4	020
125	1971	05	15.06893	16	05	39.06	-13	33	48.7	020
125	1971	06	29.93260	15	34	13.91	-12	10	54.3	020
125	1971	06	29.93502	15	34	13.74	-12	10	53.9	020
126	1971	10	19.96025	01	51	46.46	+11	59	06.9	020
126	1971	10	19.98657	01	51	44.84	+11	59	02.6	020
126	1971	10	22.97768	01	48	47.72	+11	48	07.2	020
126	1971	10	23.00019	01	48	46.34	+11	48	04.1	020
128	1971	06	03.03471	17	23	52.48	-23	30	48.4	020
128	1971	06	03.04580	17	23	51.78	-23	30	47.8	020
128	1971	06	28.92286	16	59	36.22	-23	53	14.7	020
128	1971	06	28.94502	16	59	35.10	-23	53	14.5	020
129	1970	02	03.86761	07	35	24.50	+16	22	33.9	020
129	1970	02	03.88700	07	35	23.51	+16	22	39.8	020
129	1970	02	09.92534	07	30	56.54	+16	55	19.4	020
129	1970	02	09.94473	07	30	55.70	+16	55	25.9	020
129	1971	05	15.05491	15	26	36.46	+03	33	27.7	020
129	1971	05	15.05629	15	26	36.42	+03	33	28.2	020
129	1971	06	15.96217	15	07	22.49	+02	23	08.6	020
129	1971	06	15.96390	15	07	22.56	+02	23	08.9	020
131	1971	02	24.07401	10	45	03.84	+17	08	53.3	020
131	1971	02	24.08371	10	45	03.25	+17	09	00.9	020
133	1971	12	16.02553	05	30	12.46	+31	42	10.4	020
133	1971	12	16.03731	05	30	11.69	+31	42	11.8	020
135	1970	10	23.99608	01	41	45.14	+13	48	55.3	020
135	1970	11	03.96469	01	31	42.13	+12	57	39.5	020
135	1970	11	03.98685	01	31	40.99	+12	57	33.7	020
136	1971	03	30.07541	14	03	43.71	-07	53	19.6	020
136	1971	03	30.08441	14	03	43.35	-07	53	14.0	020
138	1971	12	16.02553	05	43	54.85	+25	57	33.6	020
138	1971	12	16.03731	05	43	53.98	+25	57	37.0	020
140	1971	01	22.93009	07	56	27.05	+21	39	45.6	020
140	1971	01	22.93771	07	56	26.67	+21	39	46.8	020
140	1971	01	27.94625	07	51	50.66	+21	55	20.7	020
140	1971	01	27.95387	07	51	50.25	+21	55	22.3	020
142	1970	07	27.92058	19	04	29.37	-22	28	12.0	020

142	1970	07	27.93166	19	04	28.58	-22	28	11.2	020
144	1971	10	12.12269	02	47	21.57	+09	26	56.3	020
144	1971	10	12.12442	02	47	21.50	+09	26	55.7	020
144	1971	10	15.09025	02	45	22.34	+09	21	30.3	020
144	1971	10	15.12072	02	45	20.96	+09	21	27.5	020
144	1971	10	23.01958	02	39	05.96	+09	06	24.5	020
144	1971	10	23.04105	02	39	04.83	+09	06	23.0	020
146	1971	12	16.01653	05	18	31.06	+22	09	10.9	020
146	1971	12	16.04631	05	18	29.09	+22	09	16.7	020
147	1971	12	06.90952	04	26	19.40	+21	39	07.2	020
147	1971	12	06.92199	04	26	18.71	+21	39	05.7	020
147	1971	12	07.95873	04	25	25.23	+21	36	31.6	020
147	1971	12	07.97050	04	25	24.49	+21	36	30.7	020
147	1971	12	15.96113	04	18	50.34	+21	16	51.5	020
147	1971	12	15.98260	04	18	49.20	+21	16	48.4	020
149	1971	08	16.90438	20	53	29.38	-16	48	33.4	020
149	1971	08	24.91440	20	46	08.19	-17	23	06.3	020
149	1971	08	24.92825	20	46	07.45	-17	23	10.4	020
149	1971	08	27.98446	20	43	39.72	-17	34	32.9	020
149	1971	08	27.99069	20	43	39.40	-17	34	35.7	020
150	1970	02	04.00509	09	18	12.39	+12	38	29.0	020
150	1970	02	04.01617	09	18	11.84	+12	38	32.0	020
150	1970	02	06.06958	09	16	30.28	+12	46	41.7	020
150	1970	02	06.08066	09	16	29.69	+12	46	45.4	020
150	1970	03	05.87575	08	56	18.70	+14	29	39.4	020
150	1970	03	05.88475	08	56	18.32	+14	29	43.1	020
150	1970	03	09.97203	08	54	15.57	+14	41	22.2	020
150	1970	03	09.98311	08	54	15.29	+14	41	25.4	020
151	1971	10	12.16839	03	34	50.37	+19	57	27.4	020
151	1971	10	12.17220	03	34	50.31	+19	57	27.8	020
151	1971	10	15.10549	03	33	14.22	+19	59	16.0	020
151	1971	10	15.13734	03	33	13.09	+19	59	20.6	020
151	1971	10	23.07533	03	27	44.44	+20	00	51.4	020
151	1971	12	06.78694	02	46	01.53	+18	59	51.6	020
151	1971	12	06.80426	02	46	00.75	+18	59	50.6	020
151	1971	12	07.77174	02	45	20.37	+18	58	27.4	020
151	1971	12	07.78906	02	45	19.78	+18	58	28.4	020
151	1971	12	15.86140	02	40	41.21	+18	49	44.7	020
151	1971	12	15.87802	02	40	40.80	+18	49	46.8	020
153	1971	12	16.08613	06	18	24.50	+16	26	59.3	020
153	1971	12	16.09479	06	18	24.18	+16	26	59.6	020
159	1970	02	04.02829	10	16	10.86	+12	40	37.2	020
159	1970	02	04.04145	10	16	10.28	+12	40	42.3	020
159	1970	02	06.09174	10	14	46.46	+12	53	22.0	020
159	1970	02	06.10282	10	14	45.97	+12	53	26.1	020
159	1971	05	15.07655	15	31	18.87	-10	03	24.4	020
159	1971	05	19.03238	15	28	13.96	-09	53	29.3	020
159	1971	05	19.03826	15	28	13.66	-09	53	28.5	020
168	1970	11	04.08692	04	58	56.99	+18	46	55.2	020
168	1970	11	04.10561	04	58	56.51	+18	46	53.8	020
168	1970	12	02.08455	04	39	40.89	+17	36	29.6	020
168	1970	12	02.09355	04	39	40.43	+17	36	28.0	020
171	1971	01	06.85291	05	16	20.01	+22	15	15.6	020
171	1971	01	06.86399	05	16	19.50	+22	15	14.2	020
175	1971	12	17.11699	07	29	30.50	+26	15	13.5	020
175	1971	12	17.12877	07	29	30.00	+26	15	17.6	020
176	1971	03	30.07541	14	00	49.21	-09	37	50.6	020
176	1971	03	30.08441	14	00	48.73	-09	37	49.3	020
178	1971	01	06.87576	05	28	35.80	+25	11	36.2	020

178	1971	01	06.88684	05	28	35.36	+25	11	37.2	020
179	1971	01	07.14621	08	47	52.41	+08	54	01.1	020
179	1971	01	07.16491	08	47	51.54	+08	54	02.4	020
179	1971	01	23.05839	08	35	13.03	+09	09	58.4	020
179	1971	01	23.06706	08	35	12.53	+09	09	59.4	020
180	1971	12	16.01653	05	07	42.84	+24	06	09.6	020
180	1971	12	16.04631	05	07	40.91	+24	06	07.3	020
184	1971	08	17.02073	22	29	04.86	-09	31	47.1	020
184	1971	08	17.02835	22	29	04.55	-09	31	48.7	020
184	1971	08	28.03362	22	21	04.80	-10	14	57.1	020
184	1971	08	28.04124	22	21	04.51	-10	14	57.3	020
187	1970	10	23.99608	01	44	10.77	+12	51	09.1	020
187	1970	10	24.00717	01	44	10.18	+12	51	07.3	020
187	1970	11	03.96469	01	34	32.73	+12	20	21.4	020
187	1970	11	03.98685	01	34	31.55	+12	20	17.5	020
189	1970	10	06.96877	00	14	53.33	+04	09	12.3	020
189	1970	10	06.98886	00	14	52.33	+04	09	00.5	020
191	1971	08	16.82266	19	04	29.04	-11	40	03.9	020
191	1971	08	16.83097	19	04	28.77	-11	40	08.0	020
192	1970	09	25.84610	21	51	23.06	-12	41	14.8	020
192	1970	09	25.84991	21	51	22.96	-12	41	14.7	020
192	1970	10	20.80032	21	54	24.41	-10	13	13.5	020
192	1970	10	20.80344	21	54	24.47	-10	13	12.3	020
192	1970	10	23.82641	21	56	19.98	-09	50	14.7	020
192	1970	10	23.82883	21	56	20.08	-09	50	14.1	020
192	1970	11	03.84003	22	05	47.47	-08	18	13.4	020
192	1970	11	03.84245	22	05	47.61	-08	18	12.9	020
192	1970	11	16.78372	22	21	04.60	-06	14	03.2	020
192	1970	11	16.78615	22	21	04.79	-06	14	01.6	020
192	1970	12	01.85600	22	43	12.10	-03	29	54.2	020
192	1970	12	01.85843	22	43	12.30	-03	29	52.9	020
195	1971	01	22.97859	08	38	34.31	+28	27	54.7	020
195	1971	01	22.98480	08	38	33.85	+28	27	55.5	020
195	1971	01	27.98434	08	33	33.90	+28	39	27.4	020
195	1971	01	27.99196	08	33	33.42	+28	39	28.7	020
195	1971	02	19.87098	08	13	14.78	+28	48	19.3	020
195	1971	02	19.88553	08	13	14.17	+28	48	18.4	020
197	1971	10	23.08710	04	22	34.85	+15	12	33.4	020
197	1971	10	23.10095	04	22	34.39	+15	12	35.6	020
197	1971	12	06.83715	03	43	02.29	+15	15	22.6	020
197	1971	12	06.86001	03	43	01.05	+15	15	25.3	020
197	1971	12	07.89571	03	42	06.42	+15	16	14.1	020
197	1971	12	07.90956	03	42	05.66	+15	16	15.7	020
197	1971	12	15.91057	03	35	44.77	+15	24	59.0	020
197	1971	12	15.92235	03	35	44.25	+15	25	00.3	020
197	1971	12	23.76408	03	30	55.50	+15	37	54.6	020
197	1971	12	23.78970	03	30	54.66	+15	37	57.2	020
199	1971	12	15.90053	03	18	49.93	+07	16	23.6	020
199	1971	12	15.93239	03	18	48.71	+07	16	27.0	020
199	1971	12	23.75300	03	14	51.52	+07	34	51.0	020
199	1971	12	23.77862	03	14	51.12	+07	34	54.3	020
200	1970	10	07.00305	00	10	52.00	+10	07	23.3	020
200	1970	10	07.02417	00	10	50.90	+10	07	18.6	020
201	1971	07	30.98543	21	24	10.17	-10	58	46.4	020
201	1971	07	30.99305	21	24	09.77	-10	58	48.9	020
201	1971	08	16.93208	21	11	25.19	-12	54	29.7	020
201	1971	08	16.94108	21	11	24.76	-12	54	32.3	020
202	1971	10	25.95650	01	45	40.98	-01	59	10.5	020
202	1971	10	25.95927	01	45	40.87	-01	59	11.7	020

204	1970	07	27.96075	21	02	23.23	-02	29	51.1	020
204	1970	07	27.96490	21	02	22.95	-02	29	52.1	020
204	1971	12	06.82780	03	15	47.34	+11	35	19.6	020
204	1971	12	06.87074	03	15	45.40	+11	35	10.8	020
204	1971	12	07.88532	03	15	02.47	+11	31	39.5	020
204	1971	12	07.91995	03	15	00.99	+11	31	33.3	020
205	1971	08	16.98540	21	50	40.20	+03	04	12.0	020
205	1971	08	16.99302	21	50	39.80	+03	04	10.5	020
205	1971	08	17.99445	21	49	53.36	+02	58	55.2	020
205	1971	08	18.00207	21	49	52.87	+02	58	52.0	020
205	1971	08	28.01769	21	42	11.55	+01	58	06.0	020
205	1971	08	28.02531	21	42	11.17	+01	58	01.2	020
206	1970	11	04.03151	02	46	56.03	+09	57	52.1	020
206	1970	11	04.03913	02	46	55.65	+09	57	49.5	020
207	1971	05	14.95189	13	57	43.16	-13	36	49.4	020
207	1971	05	14.96366	13	57	42.46	-13	36	46.6	020
209	1971	01	23.08731	09	51	26.45	+20	25	59.2	020
209	1971	01	23.09631	09	51	26.05	+20	26	01.6	020
209	1971	02	23.90711	09	25	19.76	+21	52	27.9	020
209	1971	02	23.91473	09	25	19.47	+21	52	29.5	020
213	1971	01	07.15590	09	07	27.75	+17	09	19.7	020
213	1971	01	07.17807	09	07	26.96	+17	09	26.1	020
214	1971	12	06.90952	04	13	01.60	+26	50	30.4	020
214	1971	12	06.92199	04	13	00.76	+26	50	29.6	020
214	1971	12	07.95873	04	11	57.19	+26	47	30.8	020
214	1971	12	07.97050	04	11	56.36	+26	47	29.4	020
214	1971	12	15.96113	04	04	17.35	+26	22	48.3	020
214	1971	12	15.98260	04	04	16.16	+26	22	45.2	020
215	1971	01	07.02207	07	44	03.92	+23	55	17.3	020
215	1971	01	07.02761	07	44	03.52	+23	55	20.7	020
215	1971	01	22.91416	07	28	32.03	+24	29	54.5	020
215	1971	01	22.92178	07	28	31.67	+24	29	54.8	020
215	1971	01	27.93102	07	23	57.10	+24	37	40.4	020
215	1971	01	27.93864	07	23	56.75	+24	37	40.7	020
216	1971	12	06.88632	03	54	28.79	+08	02	28.4	020
216	1971	12	06.89740	03	54	28.35	+08	02	23.1	020
216	1971	12	07.93553	03	53	45.52	+07	54	54.4	020
216	1971	12	07.94661	03	53	45.06	+07	54	49.7	020
216	1971	12	15.95074	03	49	00.86	+07	06	45.3	020
216	1971	12	15.97187	03	49	00.19	+07	06	39.1	020
216	1971	12	23.80909	03	45	56.92	+06	36	26.9	020
216	1971	12	23.83056	03	45	56.52	+06	36	23.6	020
221	1971	01	23.12609	10	45	32.16	+09	47	43.2	020
221	1971	01	23.13925	10	45	31.90	+09	47	48.1	020
221	1971	02	24.00926	10	25	51.77	+13	14	43.6	020
221	1971	02	24.02034	10	25	51.24	+13	14	49.7	020
221	1971	03	30.80362	10	04	24.51	+16	22	34.5	020
221	1971	03	30.82301	10	04	24.09	+16	22	38.6	020
223	1971	08	16.87875	20	45	42.40	-20	49	31.4	020
223	1971	08	16.88775	20	45	41.95	-20	49	27.5	020
223	1971	08	24.89396	20	39	42.02	-21	12	15.6	020
223	1971	08	24.90505	20	39	41.42	-21	12	16.5	020
224	1970	12	01.97893	03	24	53.55	+27	19	37.3	020
224	1970	12	01.99001	03	24	52.86	+27	19	34.1	020
226	1970	03	09.99348	09	29	28.10	+20	09	59.0	020
226	1970	03	10.00943	09	29	27.67	+20	10	00.7	020
227	1970	03	12.94804	11	15	40.36	-01	28	02.8	020
227	1970	03	12.95704	11	15	39.89	-01	28	00.8	020
227	1971	07	30.94526	20	15	58.30	-25	59	49.7	020

227	1971	07	30.95288	20	15	57.56	-25	59	48.1	020
229	1971	10	15.09025	02	18	35.57	+14	03	06.1	020
229	1971	10	15.12072	02	18	34.27	+14	03	00.3	020
229	1971	10	23.01958	02	12	38.65	+13	38	10.8	020
229	1971	10	23.04105	02	12	37.57	+13	38	08.9	020
230	1970	05	14.09764	20	30	17.88	-10	34	54.0	020
230	1970	05	14.10006	20	30	17.88	-10	34	50.5	020
230	1970	06	23.97842	20	34	31.87	-06	00	05.4	020
230	1970	06	23.98084	20	34	31.59	-06	00	05.2	020
230	1970	07	22.90134	20	12	06.34	-04	54	39.1	020
230	1970	07	22.90342	20	12	06.27	-04	54	39.9	020
230	1970	07	22.90550	20	12	06.05	-04	54	39.6	020
230	1970	07	22.90758	20	12	05.97	-04	54	39.7	020
230	1970	07	22.90966	20	12	05.83	-04	54	39.8	020
230	1970	09	18.83820	19	43	21.77	-07	55	50.8	020
230	1970	09	18.84063	19	43	21.79	-07	55	51.7	020
230	1970	09	21.83277	19	44	23.52	-08	05	55.3	020
230	1970	09	21.83519	19	44	23.62	-08	05	56.3	020
230	1970	10	20.80482	20	06	20.34	-09	03	34.4	020
230	1970	10	20.80759	20	06	20.44	-09	03	33.5	020
230	1970	10	23.81256	20	09	43.16	-09	04	39.9	020
230	1970	10	23.81498	20	09	43.27	-09	04	40.2	020
231	1970	03	09.99348	09	27	56.46	+17	58	36.4	020
231	1970	03	10.00943	09	27	55.87	+17	58	41.9	020
232	1971	12	06.82780	03	23	46.44	+09	17	30.5	020
232	1971	12	06.87074	03	23	44.23	+09	17	25.2	020
232	1971	12	07.88532	03	22	55.00	+09	15	39.2	020
232	1971	12	07.91995	03	22	53.29	+09	15	37.6	020
232	1971	12	15.90053	03	17	05.24	+09	06	32.6	020
232	1971	12	15.93239	03	17	03.95	+09	06	30.6	020
234	1971	05	15.05058	15	20	35.03	+08	16	56.5	020
234	1971	05	15.05300	15	20	34.88	+08	16	56.6	020
234	1971	06	15.94797	14	55	02.14	+08	03	33.0	020
234	1971	06	15.95143	14	55	02.03	+08	03	33.1	020
235	1971	10	23.06563	03	24	46.31	+13	40	21.9	020
235	1971	10	23.09403	03	24	45.11	+13	40	19.7	020
235	1971	12	06.79525	02	47	09.51	+13	01	40.5	020
235	1971	12	06.81326	02	47	08.85	+13	01	40.8	020
235	1971	12	07.78074	02	46	32.13	+13	01	57.1	020
235	1971	12	07.79806	02	46	31.54	+13	01	57.4	020
235	1971	12	15.86971	02	42	11.90	+13	07	35.6	020
235	1971	12	15.88634	02	42	11.46	+13	07	38.7	020
236	1970	10	23.95591	01	30	45.75	+04	33	34.1	020
236	1970	10	23.97946	01	30	44.64	+04	33	22.0	020
239	1971	08	16.93208	21	11	06.80	-09	18	37.9	020
239	1971	08	16.94108	21	11	06.38	-09	18	38.4	020
240	1971	08	18.05470	22	40	14.44	-10	42	21.5	020
240	1971	08	18.06232	22	40	14.09	-10	42	24.7	020
240	1971	08	28.03362	22	32	06.40	-11	40	39.3	020
240	1971	08	28.04124	22	32	05.95	-11	40	40.6	020
240	1971	10	07.81157	22	05	19.71	-14	23	52.7	020
240	1971	10	07.81469	22	05	19.64	-14	23	50.6	020
242	1971	10	22.87345	00	36	17.62	+07	15	04.7	020
242	1971	10	22.89562	00	36	16.69	+07	14	53.8	020
243	1971	10	19.88961	00	55	38.60	+07	30	45.0	020
243	1971	10	19.91524	00	55	37.47	+07	30	39.5	020
243	1971	10	22.92713	00	53	18.45	+07	16	29.4	020
243	1971	10	22.95275	00	53	17.16	+07	16	22.8	020
248	1971	08	16.95216	21	30	06.23	-07	41	15.0	020

248	1971	08	16.96117	21	30	05.66	-07	41	17.7	020
248	1971	08	24.94833	21	23	01.05	-08	16	25.3	020
248	1971	08	24.95733	21	23	00.50	-08	16	27.7	020
248	1971	08	27.99901	21	20	29.42	-08	30	09.6	020
248	1971	08	28.00800	21	20	28.92	-08	30	10.6	020
249	1971	01	27.96841	07	38	49.50	+31	25	14.9	020
249	1971	01	27.97603	07	38	49.00	+31	25	14.1	020
252	1971	01	22.83798	05	35	53.40	+10	14	24.1	020
252	1971	01	22.85530	05	35	52.89	+10	14	26.3	020
252	1971	01	27.84445	05	34	01.41	+10	25	20.7	020
252	1971	01	27.86107	05	34	01.03	+10	25	26.1	020
254	1971	08	24.92132	20	48	31.32	-26	11	37.7	020
254	1971	08	24.93517	20	48	30.49	-26	11	37.3	020
257	1971	10	11.07867	02	19	01.94	+13	23	13.4	020
257	1971	10	11.09114	02	19	01.38	+13	23	11.8	020
257	1971	10	15.09025	02	16	07.55	+13	13	49.3	020
257	1971	10	15.12072	02	16	06.20	+13	13	44.8	020
257	1971	10	23.01958	02	09	50.62	+12	52	20.9	020
257	1971	10	23.04105	02	09	49.47	+12	52	19.2	020
258	1971	05	19.06146	17	09	57.13	-07	51	15.8	020
258	1971	05	19.06597	17	09	57.08	-07	51	14.6	020
258	1971	06	28.96233	16	35	27.95	-04	29	25.7	020
258	1971	06	28.96475	16	35	27.85	-04	29	26.5	020
259	1971	10	11.10326	02	38	13.85	+02	30	27.8	020
259	1971	10	11.13512	02	38	12.55	+02	30	19.8	020
263	1971	01	07.00770	06	43	28.37	+21	15	38.9	020
263	1971	01	07.01497	06	43	27.87	+21	15	38.3	020
263	1971	01	22.88161	06	29	58.39	+21	28	33.3	020
263	1971	01	22.89339	06	29	57.86	+21	28	33.4	020
263	1971	01	27.89085	06	26	37.38	+21	31	54.5	020
263	1971	01	27.90331	06	26	36.88	+21	31	57.6	020
268	1970	10	06.93345	23	11	15.52	-08	03	08.0	020
268	1970	10	06.94245	23	11	15.14	-08	03	09.4	020
268	1971	10	23.06563	03	34	53.09	+15	57	45.7	020
268	1971	10	23.09403	03	34	52.08	+15	57	43.5	020
268	1971	12	06.79525	03	01	02.33	+13	54	47.8	020
268	1971	12	06.81326	03	01	01.64	+13	54	46.4	020
268	1971	12	07.78074	03	00	24.63	+13	52	52.9	020
268	1971	12	07.79806	03	00	24.03	+13	52	52.2	020
268	1971	12	15.86971	02	55	53.57	+13	40	08.1	020
268	1971	12	15.88634	02	55	53.04	+13	40	06.9	020
269	1971	05	15.07655	15	32	31.83	-08	50	25.7	020
269	1971	05	19.03238	15	29	12.04	-08	33	41.8	020
269	1971	05	19.03826	15	29	11.86	-08	33	38.8	020
270	1971	05	12.93588	14	13	07.94	-15	42	21.2	020
270	1971	05	12.94211	14	13	07.54	-15	42	17.9	020
270	1971	05	14.98086	14	11	11.53	-15	29	36.3	020
270	1971	05	14.98813	14	11	11.07	-15	29	33.5	020
271	1971	12	16.02553	05	37	59.68	+28	32	35.9	020
271	1971	12	16.03731	05	37	58.92	+28	32	37.2	020
274	1970	10	24.04180	02	16	45.96	+08	57	28.9	020
274	1970	10	24.05253	02	16	45.56	+08	57	26.4	020
274	1971	12	17.11699	07	07	49.18	+23	04	21.5	020
274	1971	12	17.12877	07	07	48.85	+23	04	24.8	020
278	1971	08	17.00272	21	44	53.12	-26	03	13.7	020
278	1971	08	17.01173	21	44	52.77	-26	03	15.5	020
279	1971	01	23.00282	08	41	22.60	+20	44	10.2	020
279	1971	01	23.01598	08	41	22.04	+20	44	12.5	020
279	1971	01	28.00858	08	38	07.73	+20	57	25.9	020



279	1971	01	28.02312	08	38	07.19	+20	57	29.3	020
286	1970	12	01.95885	03	21	37.77	-07	45	15.7	020
286	1970	12	01.96265	03	21	37.58	-07	45	13.9	020
288	1970	11	03.89716	01	18	49.67	+01	49	45.2	020
288	1970	11	03.92486	01	18	48.37	+01	49	38.8	020
291	1971	12	06.83715	03	53	19.56	+16	47	21.2	020
291	1971	12	06.86001	03	53	18.06	+16	47	17.7	020
291	1971	12	07.89571	03	52	14.43	+16	44	25.4	020
291	1971	12	07.90956	03	52	13.44	+16	44	24.0	020
291	1971	12	15.91057	03	44	49.45	+16	25	36.8	020
296	1970	10	06.95873	00	17	32.79	-01	50	19.0	020
296	1970	10	06.97881	00	17	31.75	-01	50	26.2	020
299	1970	12	02.01166	04	30	21.79	+21	27	30.0	020
299	1970	12	02.03070	04	30	20.50	+21	27	26.8	020
303	1971	08	17.07198	23	29	34.38	-03	34	39.8	020
303	1971	08	17.08167	23	29	34.07	-03	34	38.0	020
303	1971	08	25.01689	23	24	34.88	-03	50	16.0	020
303	1971	08	25.03351	23	24	34.13	-03	50	17.7	020
303	1971	08	28.06444	23	22	25.98	-03	57	30.7	020
303	1971	08	28.07414	23	22	25.64	-03	57	31.9	020
303	1971	09	26.86237	22	59	31.40	-05	18	40.0	020
303	1971	09	26.88384	22	59	30.42	-05	18	43.8	020
308	1971	12	16.06258	05	51	14.11	+16	48	29.8	020
308	1971	12	16.07505	05	51	13.32	+16	48	32.1	020
309	1971	10	15.10549	03	26	33.20	+22	56	08.6	020
309	1971	10	15.13734	03	26	32.17	+22	56	08.4	020
309	1971	10	23.07533	03	20	45.65	+22	49	40.2	020
309	1971	12	06.78694	02	40	59.77	+20	35	40.2	020
309	1971	12	06.80426	02	40	59.09	+20	35	37.3	020
309	1971	12	07.77174	02	40	24.17	+20	32	31.0	020
309	1971	12	07.78906	02	40	23.66	+20	32	27.3	020
310	1971	12	06.83715	03	22	31.75	+17	41	58.3	020
310	1971	12	06.86001	03	22	30.64	+17	41	53.3	020
310	1971	12	07.89571	03	21	42.84	+17	38	05.0	020
310	1971	12	07.90956	03	21	42.26	+17	38	03.3	020
310	1971	12	15.91057	03	16	12.82	+17	11	13.9	020
310	1971	12	15.92235	03	16	12.43	+17	11	11.8	020
310	1971	12	23.76408	03	12	09.55	+16	50	12.0	020
310	1971	12	23.78970	03	12	08.84	+16	50	08.5	020
311	1971	09	29.98681	23	55	31.49	-05	45	53.5	020
311	1971	09	29.99789	23	55	31.12	-05	45	53.8	020
312	1970	10	23.90986	00	36	22.25	+06	42	21.8	020
312	1970	10	23.92509	00	36	21.49	+06	42	18.9	020
316	1971	10	23.06563	03	28	44.88	+15	19	59.8	020
316	1971	10	23.09403	03	28	43.79	+15	19	56.5	020
316	1971	12	06.79525	02	55	21.63	+13	18	39.0	020
316	1971	12	06.81326	02	55	21.02	+13	18	37.8	020
316	1971	12	07.78074	02	54	48.28	+13	17	14.0	020
316	1971	12	07.79806	02	54	47.62	+13	17	13.3	020
316	1971	12	15.86971	02	51	02.12	+13	09	45.7	020
316	1971	12	15.88634	02	51	01.68	+13	09	44.4	020
317	1971	12	06.79525	03	00	17.57	+13	57	10.8	020
317	1971	12	06.81326	03	00	16.82	+13	57	08.6	020
317	1971	12	07.78074	02	59	37.26	+13	55	08.1	020
317	1971	12	07.79806	02	59	36.55	+13	55	06.8	020
317	1971	12	15.86971	02	55	12.45	+13	43	29.7	020
317	1971	12	15.88634	02	55	11.90	+13	43	50.9	020
322	1970	12	02.04888	04	58	05.54	+22	36	50.7	020
322	1970	12	02.06481	04	58	04.63	+22	36	45.5	020

322	1971	01	05.86222	04	30	17.24	+19	44	20.8	020
323	1971	06	17.98749	17	07	16.07	-10	54	05.2	020
323	1971	06	17.99649	17	07	15.40	-10	54	08.7	020
324	1971	01	18.91678	10	26	53.58	+11	06	12.9	020
324	1971	01	18.92025	10	26	53.46	+11	06	12.8	020
329	1971	08	16.98540	21	55	43.11	+01	47	05.9	020
329	1971	08	16.99302	21	55	42.88	+01	47	03.4	020
329	1971	08	17.99445	21	54	55.32	+01	37	04.8	020
329	1971	08	18.00207	21	54	55.11	+01	36	59.7	020
329	1971	08	28.01769	21	47	00.89	-00	10	40.4	020
329	1971	08	28.02531	21	47	00.62	-00	10	44.3	020
331	1971	05	12.93588	14	13	17.69	-16	25	09.8	020
331	1971	05	12.94211	14	13	17.33	-16	25	06.7	020
331	1971	05	14.98086	14	11	28.16	-16	18	47.7	020
331	1971	05	14.98813	14	11	27.84	-16	18	47.7	020
333	1970	11	04.07791	03	56	18.77	+25	39	05.3	020
333	1970	11	04.09592	03	56	17.87	+25	39	04.7	020
333	1970	12	01.97893	03	31	40.50	+24	43	06.9	020
333	1970	12	01.99001	03	31	39.88	+24	43	05.5	020
335	1970	10	24.01738	01	54	54.49	+03	52	52.3	020
335	1970	10	24.02639	01	54	54.05	+03	52	50.8	020
335	1970	11	03.97576	01	45	09.86	+02	55	48.0	020
335	1970	11	03.99100	01	45	08.72	+02	55	41.7	020
337	1971	01	23.07727	10	36	04.56	+17	19	12.3	020
337	1971	01	23.10497	10	36	03.53	+17	19	16.1	020
337	1971	01	28.06190	10	32	36.08	+17	29	30.7	020
337	1971	01	28.07437	10	32	35.42	+17	29	33.2	020
337	1971	02	19.99287	10	09	17.08	+18	16	01.0	020
337	1971	02	20.00395	10	09	16.23	+18	16	02.6	020
337	1971	02	23.94451	10	04	51.31	+18	19	45.5	020
337	1971	02	23.95074	10	04	50.87	+18	19	46.1	020
337	1971	03	30.79358	09	40	21.81	+17	10	36.9	020
337	1971	03	30.81366	09	40	21.59	+17	10	31.5	020
337	1971	05	12.85900	09	59	41.22	+12	33	18.1	020
337	1971	05	12.86489	09	59	41.58	+12	33	15.1	020
337	1971	05	14.86047	10	01	34.57	+12	17	06.7	020
337	1971	05	14.86636	10	01	34.86	+12	17	03.8	020
338	1971	08	16.95216	21	30	38.44	-09	09	10.7	020
338	1971	08	16.96117	21	30	38.07	-09	09	13.4	020
338	1971	08	24.94833	21	24	04.85	-09	30	18.9	020
338	1971	08	24.95733	21	24	04.43	-09	30	20.5	020
338	1971	08	27.99901	21	21	41.78	-09	38	32.0	020
338	1971	08	28.00800	21	21	41.42	-09	38	31.7	020
339	1971	12	06.88632	04	07	20.42	+06	45	04.7	020
339	1971	12	06.89740	04	07	19.87	+06	45	04.8	020
339	1971	12	07.93553	04	06	31.05	+06	43	19.0	020
339	1971	12	07.94661	04	06	30.63	+06	43	18.0	020
339	1971	12	15.95074	04	00	39.44	+06	34	42.4	020
339	1971	12	15.97187	04	00	38.46	+06	34	41.9	020
339	1971	12	23.80909	03	55	52.64	+06	35	08.5	020
339	1971	12	23.83056	03	55	51.93	+06	35	10.4	020
344	1971	10	25.87807	23	24	17.21	-26	39	05.1	020
344	1971	10	25.87980	23	24	17.06	-26	39	03.7	020
345	1970	11	04.03151	02	56	29.04	+13	14	43.2	020
345	1970	11	04.03913	02	56	28.70	+13	14	41.1	020
346	1971	08	25.05394	00	09	37.02	-13	33	42.0	020
346	1971	08	25.06640	00	09	36.60	-13	33	45.4	020
346	1971	10	07.84411	23	38	05.73	-17	25	47.6	020
346	1971	10	07.86835	23	38	04.79	-17	25	49.0	020

346	1971	10	25.86941	23	29	27.08	-17	13	06.6	020
346	1971	10	25.87184	23	29	27.06	-17	13	05.0	020
349	1971	08	17.00272	21	53	47.68	-25	46	57.4	020
349	1971	08	17.01173	21	53	47.30	-25	46	59.1	020
349	1971	08	24.96738	21	46	40.63	-26	08	40.5	020
349	1971	08	24.97707	21	46	40.14	-26	08	42.1	020
352	1971	01	07.05687	08	22	04.46	+14	41	14.9	020
352	1971	01	07.06553	08	22	03.80	+14	41	15.0	020
354	1970	09	25.85615	22	12	44.98	-19	52	23.7	020
354	1970	09	25.86065	22	12	44.90	-19	52	25.0	020
354	1970	10	20.81244	22	06	34.22	-21	09	46.6	020
354	1970	10	20.81625	22	06	34.25	-21	09	46.5	020
354	1970	10	23.83229	22	06	44.47	-21	11	55.0	020
354	1970	10	23.83541	22	06	44.48	-21	11	55.9	020
354	1970	11	03.85007	22	09	02.25	-21	08	11.2	020
354	1970	11	03.85319	22	09	02.26	-21	08	10.3	020
354	1970	11	16.79273	22	14	51.30	-20	43	07.5	020
354	1970	11	16.79515	22	14	51.36	-20	43	05.6	020
354	1970	12	01.86570	22	25	14.96	-19	50	29.2	020
354	1970	12	01.86812	22	25	14.77	-19	50	31.2	020
354	1971	12	06.93203	03	58	28.46	-07	25	36.0	020
354	1971	12	06.93549	03	58	28.34	-07	25	35.8	020
354	1971	12	07.97933	03	57	36.21	-07	23	27.1	020
354	1971	12	07.98158	03	57	36.06	-07	23	26.5	020
354	1971	12	15.99541	03	51	24.25	-06	57	44.4	020
354	1971	12	15.99782	03	51	24.15	-06	57	43.2	020
354	1971	12	23.81567	03	46	26.00	-06	17	21.0	020
354	1971	12	23.81844	03	46	25.87	-06	17	19.4	020
356	1971	02	24.05687	10	49	02.81	+12	02	45.4	020
356	1971	02	24.06587	10	49	02.23	+12	02	48.3	020
358	1971	01	23.11882	10	37	58.86	+06	13	17.6	020
358	1971	01	23.13267	10	37	58.53	+06	13	21.6	020
358	1971	02	23.95923	10	15	37.32	+08	52	41.5	020
358	1971	02	23.96823	10	15	36.97	+08	52	45.9	020
364	1971	12	17.11699	07	22	53.85	+20	23	11.4	020
364	1971	12	17.12877	07	22	53.31	+20	23	18.4	020
367	1970	10	06.95873	00	09	28.70	-04	22	13.1	020
367	1970	10	06.97881	00	09	27.54	-04	22	19.0	020
370	1971	08	16.85936	20	34	45.71	-12	32	15.6	020
370	1971	08	16.86975	20	34	45.23	-12	32	14.0	020
370	1971	08	24.86211	20	27	53.73	-12	31	36.6	020
370	1971	08	24.87596	20	27	53.15	-12	31	36.4	020
371	1971	12	16.02553	05	28	03.03	+27	13	09.3	020
371	1971	12	16.03731	05	28	02.34	+27	13	08.9	020
373	1970	10	06.93345	23	20	39.38	-07	18	51.1	020
373	1970	10	06.94245	23	20	39.05	-07	18	49.6	020
374	1971	06	18.07064	19	08	57.12	-09	57	14.1	020
374	1971	06	18.07445	19	08	56.95	-09	57	13.7	020
374	1971	06	19.06166	19	08	13.93	-09	54	37.0	020
374	1971	06	19.06547	19	08	13.64	-09	54	36.5	020
374	1971	06	29.00701	19	00	14.11	-09	36	07.4	020
374	1971	06	29.01151	19	00	14.00	-09	36	06.8	020
376	1971	01	06.96718	06	08	33.99	+27	02	18.2	020
376	1971	01	06.97826	06	08	33.23	+27	02	16.7	020
376	1971	01	18.87489	05	56	23.35	+26	36	15.4	020
376	1971	01	18.89497	05	56	22.16	+26	36	13.3	020
379	1970	10	24.04180	02	25	41.99	+12	30	45.6	020
379	1970	10	24.05253	02	25	41.47	+12	30	44.2	020
380	1971	10	19.87645	00	56	12.29	-04	51	37.4	020

380	1971	10	19.90277	00	56	10.88	-04	51	41.1	020
380	1971	10	22.88453	00	53	51.46	-04	59	09.8	020
380	1971	10	22.90670	00	53	50.36	-04	59	12.4	020
380	1971	10	25.92101	00	51	37.26	-05	05	02.3	020
380	1971	10	25.93244	00	51	36.86	-05	05	03.7	020
382	1971	01	22.91416	07	26	01.28	+25	39	49.5	020
382	1971	01	22.92178	07	26	00.93	+25	39	48.3	020
382	1971	01	27.93102	07	21	35.77	+25	38	23.4	020
382	1971	01	27.93864	07	21	35.39	+25	38	23.9	020
383	1970	11	04.03151	02	57	37.50	+13	28	08.0	020
383	1970	11	04.03913	02	57	37.10	+13	28	08.1	020
387	1971	02	23.90711	09	19	05.85	+21	59	04.3	020
387	1971	02	23.91473	09	19	05.51	+21	59	08.6	020
389	1971	07	30.91167	19	34	54.62	-18	02	57.6	020
389	1971	07	30.91860	19	34	54.34	-18	02	57.8	020
389	1971	08	09.89336	19	26	51.65	-17	58	17.3	020
389	1971	08	09.90514	19	26	51.08	-17	58	16.3	020
389	1971	08	12.90491	19	24	49.70	-17	56	44.6	020
389	1971	08	12.91945	19	24	49.07	-17	56	44.6	020
395	1970	02	03.86761	07	26	20.40	+18	54	29.2	020
395	1970	02	09.92534	07	22	01.53	+19	02	22.7	020
395	1970	02	09.94473	07	22	00.79	+19	02	24.0	020
396	1971	12	06.83715	03	39	32.61	+20	02	25.2	020
396	1971	12	06.86001	03	39	31.56	+20	02	21.7	020
396	1971	12	07.89571	03	38	40.23	+19	58	45.7	020
396	1971	12	07.90956	03	38	39.55	+19	58	44.5	020
396	1971	12	23.76408	03	28	10.25	+19	14	50.8	020
396	1971	12	23.78970	03	28	09.34	+19	14	48.3	020
401	1971	10	11.07867	02	19	45.00	+13	06	08.3	020
401	1971	10	15.09025	02	16	54.74	+12	57	31.4	020
401	1971	10	15.12072	02	16	53.44	+12	57	27.4	020
401	1971	10	23.01958	02	10	55.22	+12	38	19.8	020
401	1971	10	23.04105	02	10	54.15	+12	38	17.5	020
403	1971	08	16.82266	19	06	12.11	-12	14	45.5	020
403	1971	08	16.83097	19	06	11.91	-12	14	51.9	020
406	1970	11	03.87154	00	40	54.69	+11	15	12.4	020
406	1970	11	03.87604	00	40	54.38	+11	15	11.8	020
407	1971	07	30.98543	21	24	58.43	-10	36	55.5	020
407	1971	07	30.99305	21	24	58.04	-10	36	55.2	020
407	1971	08	16.93208	21	09	10.79	-10	54	19.7	020
407	1971	08	16.94108	21	09	10.36	-10	54	20.4	020
408	1970	02	03.95210	08	39	17.14	+15	44	20.2	020
408	1970	02	03.98050	08	39	16.07	+15	44	19.9	020
413	1971	01	27.98434	08	43	29.86	+29	18	58.7	020
413	1971	01	27.99196	08	43	29.33	+29	19	03.0	020
413	1971	02	19.93643	08	21	05.64	+31	38	14.0	020
413	1971	02	23.85171	08	18	12.01	+31	51	52.4	020
413	1971	02	23.86348	08	18	11.44	+31	51	53.5	020
419	1971	08	24.86211	20	19	18.95	-12	02	31.7	020
419	1971	08	24.87596	20	19	18.68	-12	02	35.4	020
422	1971	02	23.92321	09	40	10.97	+19	38	09.2	020
422	1971	02	23.93222	09	40	10.38	+19	38	11.1	020
423	1971	10	11.10326	02	28	05.66	+03	36	21.9	020
423	1971	10	11.13512	02	28	04.18	+03	36	15.9	020
423	1971	10	12.11784	02	27	21.56	+03	33	47.4	020
423	1971	10	12.12026	02	27	21.38	+03	33	47.7	020
424	1971	01	23.00282	08	38	45.14	+24	19	44.8	020
424	1971	01	23.01598	08	38	44.39	+24	19	51.2	020
424	1971	01	28.00858	08	34	02.81	+24	52	10.4	020

424	1971	01	28.02312	08	34	02.02	+24	52	16.1	020
424	1971	02	19.90007	08	15	10.93	+26	40	04.3	020
424	1971	02	19.91184	08	15	10.41	+26	40	08.0	020
425	1971	01	23.07727	10	28	52.18	+15	53	58.5	020
425	1971	01	23.10497	10	28	51.40	+15	54	06.9	020
425	1971	01	28.06190	10	26	08.88	+16	17	24.9	020
425	1971	01	28.07437	10	26	08.53	+16	17	28.3	020
425	1971	02	19.99287	10	08	26.17	+18	13	23.2	020
425	1971	02	20.00395	10	08	25.53	+18	13	26.7	020
425	1971	02	23.94451	10	05	00.80	+18	31	09.4	020
425	1971	02	23.95074	10	05	00.50	+18	31	12.5	020
425	1971	03	30.79358	09	43	39.95	+19	37	24.7	020
425	1971	03	30.81366	09	43	39.58	+19	37	22.0	020
425	1971	05	12.84307	09	58	32.11	+16	33	40.8	020
425	1971	05	12.85035	09	58	32.61	+16	33	39.1	020
425	1971	05	14.84385	10	00	05.41	+16	16	54.1	020
425	1971	05	14.85285	10	00	06.12	+16	16	54.2	020
427	1971	01	06.87576	05	27	09.18	+26	36	52.2	020
427	1971	01	06.88684	05	27	08.68	+26	36	51.9	020
432	1971	01	06.85291	05	06	05.22	+22	29	41.9	020
432	1971	01	06.86399	05	06	04.59	+22	29	44.1	020
433	1970	07	27.89842	18	10	36.79	-29	04	34.6	020
433	1970	07	27.90361	18	10	36.38	-29	04	28.5	020
435	1971	10	22.97768	01	30	25.75	+09	41	48.3	020
435	1971	10	23.00019	01	30	24.41	+09	41	43.7	020
438	1971	08	25.07852	00	10	14.11	-10	04	56.3	020
438	1971	08	25.09099	00	10	13.69	-10	04	58.8	020
439	1970	10	23.90986	00	40	38.30	+06	37	09.7	020
439	1970	10	23.92509	00	40	37.67	+06	37	00.1	020
443	1970	12	02.00231	03	58	56.30	+13	20	36.4	020
443	1970	12	02.02101	03	58	55.01	+13	20	33.8	020
449	1971	06	03.03471	17	22	55.08	-22	30	45.5	020
449	1971	06	03.04580	17	22	54.54	-22	30	47.6	020
453	1971	01	23.07727	10	25	10.46	+18	07	26.6	020
453	1971	01	23.10497	10	25	09.35	+18	07	34.3	020
453	1971	01	28.06190	10	21	38.81	+18	28	49.0	020
453	1971	01	28.07437	10	21	38.29	+18	28	53.7	020
453	1971	02	23.92321	09	53	07.52	+20	18	55.8	020
453	1971	02	23.93222	09	53	06.93	+20	18	58.7	020
455	1970	11	03.87985	00	57	57.97	-13	00	23.2	020
455	1970	11	03.88227	00	57	57.92	-13	00	21.0	020
456	1970	07	27.94170	19	25	20.02	+00	23	12.6	020
456	1970	07	27.94933	19	25	19.56	+00	23	12.1	020
461	1971	08	28.06444	23	27	49.60	-03	48	48.5	020
461	1971	08	28.07414	23	27	49.17	-03	48	49.7	020
468	1971	09	30.02663	00	04	24.24	+00	13	11.7	020
468	1971	09	30.03564	00	04	23.80	+00	13	10.0	020
469	1971	08	17.07198	23	25	41.69	-00	43	28.3	020
469	1971	08	17.08167	23	25	41.35	-00	43	28.6	020
469	1971	08	25.01689	23	20	29.69	-00	56	06.9	020
469	1971	08	25.03351	23	20	29.01	-00	56	08.9	020
469	1971	09	26.86237	22	56	10.05	-02	18	25.7	020
469	1971	09	26.88384	22	56	09.07	-02	18	29.1	020
470	1971	01	22.83798	05	22	47.57	+12	38	50.2	020
470	1971	01	22.85530	05	22	47.12	+12	38	55.7	020
470	1971	01	27.84445	05	20	49.95	+12	56	01.0	020
470	1971	01	27.86107	05	20	49.64	+12	56	06.9	020
471	1970	07	27.89842	18	14	00.47	-30	34	00.3	020
471	1970	07	27.90361	18	14	00.20	-30	34	01.0	020

471	1970	09	07.82374	18	06	02.59	-31	28	28.4	020
471	1970	09	07.82703	18	06	02.61	-31	28	27.7	020
471	1971	12	06.76547	03	05	15.64	+05	29	50.0	020
471	1971	12	06.76859	03	05	15.53	+05	29	52.2	020
471	1971	12	07.75270	03	04	35.09	+05	37	50.6	020
471	1971	12	07.75581	03	04	35.00	+05	37	53.0	020
471	1971	12	15.80877	03	00	04.00	+06	47	48.9	020
471	1971	12	15.81154	03	00	03.95	+06	47	51.1	020
476	1971	12	16.02553	05	28	59.19	+29	54	48.6	020
476	1971	12	16.03731	05	28	58.36	+29	54	46.3	020
477	1971	02	24.05687	10	50	42.24	+12	05	55.5	020
477	1971	02	24.06587	10	50	41.72	+12	05	59.2	020
479	1970	02	04.02829	10	11	30.41	+13	14	13.5	020
479	1970	02	04.04145	10	11	29.76	+13	14	20.4	020
479	1970	02	06.09174	10	09	50.19	+13	30	31.0	020
479	1970	02	06.10282	10	09	49.63	+13	30	37.0	020
482	1971	08	16.98540	21	48	57.23	-00	15	01.2	020
482	1971	08	16.99302	21	48	56.89	-00	15	03.7	020
482	1971	08	28.01769	21	41	17.27	-01	47	31.5	020
482	1971	08	28.02531	21	41	17.03	-01	47	35.1	020
484	1971	02	19.99287	10	00	34.28	+19	18	35.5	020
484	1971	02	20.00395	10	00	33.61	+19	18	41.4	020
484	1971	02	23.92321	09	57	13.02	+19	50	28.0	020
484	1971	02	23.93222	09	57	12.50	+19	50	33.6	020
484	1971	02	23.94451	09	57	11.80	+19	50	37.1	020
484	1971	02	23.95074	09	57	11.49	+19	50	40.2	020
486	1971	08	17.00272	21	51	55.92	-28	17	02.3	020
486	1971	08	17.01173	21	51	55.37	-28	17	01.0	020
487	1971	05	15.03915	14	56	27.76	-01	39	46.6	020
487	1971	05	15.04158	14	56	27.62	-01	39	46.9	020
495	1971	03	30.07541	13	49	56.40	-10	20	47.5	020
495	1971	03	30.08441	13	49	55.91	-10	20	39.6	020
497	1971	01	23.00282	08	44	50.16	+24	38	58.6	020
497	1971	01	23.01598	08	44	49.38	+24	39	00.9	020
497	1971	01	28.00858	08	39	46.09	+24	53	51.5	020
497	1971	01	28.02312	08	39	45.20	+24	53	54.3	020
497	1971	02	19.90007	08	19	11.07	+25	29	54.9	020
497	1971	02	19.91184	08	19	10.50	+25	29	56.6	020
498	1971	12	06.76547	03	03	47.61	+06	54	34.1	020
498	1971	12	06.76859	03	03	47.49	+06	54	35.4	020
498	1971	12	07.75270	03	03	08.39	+06	57	54.0	020
498	1971	12	15.80877	02	58	45.67	+07	30	00.9	020
498	1971	12	15.81154	02	58	45.61	+07	30	02.5	020
507	1970	02	03.95210	08	51	58.19	+13	09	41.7	020
507	1970	02	03.98050	08	51	56.95	+13	09	43.4	020
510	1971	08	17.05328	23	05	25.42	+06	55	35.2	020
510	1971	08	17.06298	23	05	25.08	+06	55	33.9	020
510	1971	08	18.03046	23	04	51.62	+06	50	22.4	020
510	1971	08	18.04085	23	04	51.34	+06	50	21.5	020
510	1971	08	28.04886	22	58	14.92	+05	42	56.5	020
510	1971	08	28.05509	22	58	14.54	+05	42	56.3	020
511	1970	02	04.15087	13	38	55.08	+09	29	59.2	020
511	1970	02	04.15330	13	38	55.06	+09	30	02.2	020
511	1970	02	06.16723	13	39	24.70	+09	40	25.0	020
511	1970	02	06.16965	13	39	24.76	+09	40	26.2	020
511	1970	04	15.03201	13	11	47.64	+16	31	41.3	020
511	1970	04	15.03460	13	11	47.73	+16	31	42.9	020
511	1971	05	19.06146	17	06	04.38	-09	49	15.8	020
511	1971	05	19.06597	17	06	04.14	-09	49	15.3	020

511	1971 06	28.95627	16 35	49.49	-10 39	55.9	020
511	1971 06	28.95904	16 35	49.42	-10 39	56.4	020
512	1971 06	18.03046	17 21	01.85	-16 12	24.8	020
512	1971 06	18.03427	17 21	01.70	-16 12	27.1	020
513	1971 08	17.03770	22 52	01.71	+00 04	58.1	020
513	1971 08	17.04497	22 52	01.44	+00 04	54.6	020
513	1971 08	25.00892	22 46	59.07	-00 42	54.5	020
513	1971 08	25.02624	22 46	58.38	-00 42	58.5	020
514	1970 03	12.94804	11 14	29.44	-01 10	26.3	020
514	1970 03	12.95704	11 14	29.14	-01 10	22.7	020
514	1971 06	28.91177	15 57	39.12	-22 07	44.2	020
514	1971 06	28.93394	15 57	38.59	-22 07	43.3	020
515	1971 01	06.85291	05 19	22.06	+21 27	05.9	020
515	1971 01	06.86399	05 19	21.16	+21 27	05.7	020
521	1971 12	06.82780	03 22	57.44	+08 48	21.4	020
521	1971 12	06.87074	03 22	55.48	+08 48	42.8	020
521	1971 12	07.88532	03 22	13.74	+08 56	17.6	020
521	1971 12	07.91995	03 22	12.25	+08 56	33.8	020
521	1971 12	15.90053	03 17	47.58	+10 01	01.7	020
521	1971 12	15.91057	03 17	47.43	+10 01	02.9	020
521	1971 12	15.92235	03 17	47.07	+10 01	08.4	020
521	1971 12	15.93239	03 17	46.55	+10 01	17.7	020
528	1970 11	04.07791	03 54	37.73	+21 57	28.2	020
528	1970 11	04.09592	03 54	36.91	+21 57	31.1	020
532	1970 10	20.82075	22 53	42.22	-26 52	49.2	020
532	1970 10	20.82456	22 53	42.06	-26 52	49.4	020
532	1970 10	23.84447	22 52	57.11	-26 45	56.5	020
532	1970 10	23.84822	22 52	57.14	-26 45	54.6	020
532	1970 11	03.86184	22 51	54.30	-26 08	26.6	020
532	1970 11	16.79861	22 53	57.34	-25 03	60.0	020
532	1970 11	16.80242	22 53	57.33	-25 03	58.0	020
532	1970 12	01.87216	23 00	19.46	-23 28	05.0	020
532	1970 12	01.87574	23 00	19.60	-23 28	05.0	020
535	1971 08	25.04736	23 59	25.59	-11 29	25.1	020
535	1971 08	25.06017	23 59	25.12	-11 29	30.2	020
535	1971 10	19.83836	23 18	12.12	-15 13	11.2	020
535	1971 10	19.85325	23 18	11.55	-15 13	02.0	020
537	1971 01	06.91229	05 21	13.47	+15 46	27.1	020
537	1971 01	06.92130	05 21	12.89	+15 46	29.1	020
541	1971 10	15.10549	03 17	49.69	+24 32	50.5	020
541	1971 10	15.13734	03 17	48.55	+24 32	46.2	020
541	1971 10	23.07533	03 12	22.01	+24 11	20.9	020
541	1971 12	06.78694	02 36	25.67	+20 28	30.2	020
541	1971 12	06.80426	02 36	25.16	+20 28	25.2	020
541	1971 12	07.77174	02 35	54.22	+20 23	31.1	020
541	1971 12	07.78906	02 35	53.74	+20 23	26.7	020
541	1971 12	15.86140	02 32	26.58	+19 45	45.6	020
541	1971 12	15.87802	02 32	26.42	+19 45	41.3	020
542	1971 02	24.00926	10 30	05.27	+10 05	34.8	020
542	1971 02	24.02034	10 30	04.75	+10 05	40.6	020
546	1971 10	19.88961	00 52	20.74	+03 56	28.4	020
546	1971 10	19.91524	00 52	19.94	+03 56	34.7	020
548	1971 03	30.80362	10 01	02.43	+17 33	52.6	020
548	1971 03	30.82301	10 01	02.05	+17 33	53.8	020
550	1971 12	17.11699	07 02	32.49	+20 43	56.4	020
550	1971 12	17.12877	07 02	31.94	+20 43	57.3	020
551	1970 11	03.91101	01 18	03.79	+08 29	55.4	020
551	1970 11	03.93872	01 18	02.56	+08 29	49.1	020
552	1971 12	06.90952	04 01	26.01	+24 41	56.3	020

552	1971	12	06.92199	04	01	25.37	+24	41	53.9	020
552	1971	12	07.95873	04	00	34.97	+24	37	35.9	020
552	1971	12	07.97050	04	00	34.26	+24	37	33.3	020
552	1971	12	15.96113	03	54	30.86	+24	04	09.2	020
552	1971	12	15.98260	03	54	29.94	+24	04	08.0	020
555	1971	12	06.83715	03	44	31.07	+15	59	30.2	020
555	1971	12	06.86001	03	44	29.92	+15	59	30.0	020
555	1971	12	07.89571	03	43	41.16	+15	57	39.9	020
555	1971	12	07.90956	03	43	40.39	+15	57	38.9	020
555	1971	12	23.76408	03	33	36.71	+15	39	50.9	020
555	1971	12	23.78970	03	33	35.77	+15	39	50.9	020
559	1971	01	06.94000	05	44	18.16	+18	47	25.4	020
559	1971	01	06.94900	05	44	17.73	+18	47	25.9	020
559	1971	01	22.84699	05	32	58.38	+19	37	14.3	020
559	1971	01	22.86361	05	32	57.88	+19	37	19.5	020
559	1971	01	27.85276	05	30	39.18	+19	53	26.5	020
559	1971	01	27.86938	05	30	38.61	+19	53	31.3	020
562	1970	11	04.01368	02	39	55.44	+06	23	38.6	020
562	1970	11	04.02268	02	39	54.91	+06	23	38.8	020
563	1971	02	19.87098	07	59	17.87	+32	14	41.3	020
563	1971	02	19.88553	07	59	17.32	+32	14	45.4	020
566	1971	01	06.96718	06	20	09.92	+25	27	27.1	020
566	1971	01	06.97826	06	20	09.21	+25	27	26.3	020
566	1971	01	18.87489	06	11	10.88	+25	41	09.5	020
566	1971	01	18.89497	06	11	10.10	+25	41	13.7	020
570	1971	01	06.94000	05	42	59.12	+21	37	37.6	020
570	1971	01	06.94900	05	42	58.69	+21	37	37.1	020
570	1971	01	22.84699	05	33	46.75	+21	33	19.3	020
570	1971	01	22.86361	05	33	46.33	+21	33	19.5	020
570	1971	01	27.85276	05	31	55.33	+21	32	52.9	020
570	1971	01	27.86938	05	31	54.97	+21	32	53.1	020
572	1971	05	19.03238	15	30	02.78	-07	45	51.5	020
572	1971	05	19.03826	15	30	02.29	-07	45	53.5	020
578	1971	01	23.02879	09	09	14.86	+25	26	38.9	020
578	1971	01	23.03987	09	09	14.39	+25	26	41.3	020
578	1971	02	23.87560	08	40	11.94	+26	55	21.4	020
578	1971	02	23.88668	08	40	11.61	+26	55	22.6	020
580	1970	02	03.95210	08	53	50.92	+20	25	01.2	020
580	1970	02	03.98050	08	53	49.58	+20	25	06.4	020
583	1971	06	28.92286	17	11	27.59	-21	38	54.1	020
583	1971	06	28.94502	17	11	26.61	-21	38	51.0	020
586	1971	06	03.03471	17	15	13.11	-21	59	04.7	020
586	1971	06	03.04580	17	15	12.50	-21	59	01.0	020
592	1971	07	30.92933	19	54	42.94	-09	46	32.5	020
592	1971	08	09.91518	19	47	17.40	-10	35	07.5	020
595	1971	10	19.88961	01	06	36.73	+04	34	02.3	020
595	1971	10	19.91524	01	06	35.37	+04	34	03.0	020
595	1971	10	22.92713	01	03	59.30	+04	33	05.3	020
595	1971	10	22.95275	01	03	58.02	+04	33	06.6	020
604	1971	09	30.02663	00	06	03.70	-00	34	00.3	020
604	1971	09	30.03564	00	06	03.26	-00	34	01.3	020
607	1971	01	07.05687	08	25	37.62	+15	38	18.7	020
607	1971	01	07.06553	08	25	37.10	+15	38	20.8	020
608	1971	01	06.98830	06	41	38.43	+26	00	20.9	020
608	1971	01	06.99557	06	41	38.12	+26	00	26.1	020
609	1971	09	30.02663	00	04	52.39	-01	23	48.5	020
609	1971	09	30.03564	00	04	52.08	-01	23	42.7	020
615	1970	10	23.99608	01	40	46.49	+11	38	22.3	020
615	1970	10	24.00717	01	40	45.75	+11	38	18.4	020



615	1970	11	03.96469	01	31	13.79	+10	52	38.9	020
615	1970	11	03.98685	01	31	12.72	+10	52	31.5	020
615	1971	12	17.15370	08	12	27.70	+24	00	06.5	020
615	1971	12	17.17101	08	12	27.20	+24	00	08.3	020
618	1971	01	23.00282	08	47	58.44	+24	33	39.6	020
618	1971	01	23.01598	08	47	57.88	+24	33	44.5	020
618	1971	01	28.00858	08	43	53.17	+25	08	24.9	020
618	1971	01	28.02312	08	43	52.44	+25	08	29.8	020
618	1971	02	19.90007	08	26	13.84	+27	17	57.6	020
618	1971	02	19.91184	08	26	13.50	+27	18	01.9	020
618	1971	02	23.87560	08	23	46.67	+27	34	06.5	020
618	1971	02	23.88668	08	23	46.23	+27	34	08.0	020
627	1971	01	07.05687	08	29	12.71	+15	16	35.2	020
627	1971	01	07.06553	08	29	12.25	+15	16	37.3	020
628	1971	08	25.05394	00	16	08.38	-14	48	44.9	020
628	1971	08	25.06640	00	16	08.19	-14	48	49.4	020
634	1971	05	19.06146	17	13	47.91	-07	07	10.6	020
634	1971	05	19.06597	17	13	47.59	-07	07	10.6	020
639	1971	12	06.90952	04	12	03.73	+27	58	33.7	020
639	1971	12	06.92199	04	12	03.09	+27	58	31.0	020
639	1971	12	07.95873	04	11	07.35	+27	53	17.2	020
639	1971	12	07.97050	04	11	06.68	+27	53	14.7	020
639	1971	12	15.96113	04	04	26.36	+27	11	44.3	020
639	1971	12	15.98260	04	04	25.40	+27	11	39.7	020
641	1970	11	03.91101	01	12	42.69	+07	01	51.1	020
641	1970	11	03.93872	01	12	41.33	+07	01	46.4	020
645	1970	11	03.96469	01	25	15.13	+14	48	26.7	020
645	1970	11	03.98685	01	25	14.18	+14	48	23.2	020
648	1971	01	06.98830	06	42	19.25	+26	09	49.1	020
648	1971	01	06.99557	06	42	18.77	+26	09	47.0	020
651	1970	10	24.04180	02	16	28.37	+12	16	08.6	020
651	1970	10	24.05253	02	16	27.87	+12	16	08.9	020
656	1970	02	03.95210	08	41	40.25	+17	37	23.3	020
656	1970	02	03.98050	08	41	39.12	+17	37	27.1	020
659	1971	08	16.87875	20	37	45.31	-22	20	08.6	020
659	1971	08	16.88775	20	37	44.61	-22	20	02.6	020
660	1970	07	27.96075	21	05	54.19	-04	40	53.4	020
660	1970	07	27.96490	21	05	53.85	-04	40	55.3	020
662	1970	10	06.95873	00	19	45.08	-04	19	05.3	020
662	1970	10	06.97881	00	19	44.15	-04	19	11.1	020
662	1971	12	17.11699	07	17	27.71	+19	01	31.3	020
662	1971	12	17.12877	07	17	26.97	+19	01	34.6	020
667	1971	08	16.95216	21	22	00.81	-07	28	28.4	020
667	1971	08	16.96117	21	22	00.29	-07	28	30.9	020
667	1971	08	24.94833	21	16	33.48	-08	35	49.9	020
667	1971	08	24.95733	21	16	33.09	-08	35	54.2	020
674	1971	06	28.91177	15	54	09.92	-24	34	55.2	020
674	1971	06	28.93394	15	54	09.02	-24	34	45.7	020
677	1970	02	03.86761	07	32	17.65	+16	03	33.0	020
677	1970	02	03.88700	07	32	16.69	+16	03	32.7	020
677	1970	02	09.92534	07	27	58.47	+16	05	10.5	020
677	1970	02	09.94473	07	27	57.85	+16	05	13.0	020
679	1971	01	22.88161	06	33	01.69	+19	42	14.4	020
679	1971	01	22.89339	06	33	01.06	+19	42	22.5	020
679	1971	01	27.89085	06	29	05.82	+20	46	13.4	020
679	1971	01	27.90331	06	29	05.26	+20	46	23.7	020
684	1971	12	17.15370	08	26	40.66	+25	29	06.6	020
684	1971	12	17.17101	08	26	40.10	+25	29	08.9	020
688	1971	08	17.03770	22	51	06.78	-02	01	29.7	020

688	1971	08	17.04497	22	51	06.66	-02	01	32.0	020
688	1971	08	25.00892	22	45	58.99	-03	12	04.9	020
688	1971	08	25.02624	22	45	58.28	-03	12	14.1	020
690	1970	07	27.96075	20	56	23.71	-01	42	42.4	020
690	1970	07	27.96490	20	56	23.42	-01	42	41.5	020
695	1971	01	07.00770	06	43	45.74	+20	25	43.8	020
695	1971	01	07.01497	06	43	45.22	+20	25	43.2	020
695	1971	01	22.88161	06	27	58.07	+19	26	55.0	020
695	1971	01	22.89339	06	27	57.44	+19	26	52.3	020
696	1971	08	17.05328	23	07	40.62	+08	55	44.4	020
696	1971	08	17.06298	23	07	40.32	+08	55	47.1	020
696	1971	08	18.03046	23	07	02.58	+08	58	31.8	020
696	1971	08	18.04085	23	07	02.12	+08	58	35.7	020
698	1971	10	23.01958	02	31	45.43	+13	20	00.0	020
698	1971	10	23.04105	02	31	44.38	+13	20	00.4	020
701	1971	01	07.14621	09	00	01.72	+07	42	58.6	020
701	1971	01	07.16491	09	00	01.00	+07	42	57.3	020
701	1971	01	23.05839	08	48	20.14	+07	55	57.9	020
701	1971	01	23.06706	08	48	19.68	+07	55	58.4	020
703	1971	10	19.96025	01	37	38.82	+10	53	15.6	020
703	1971	10	19.98657	01	37	37.22	+10	53	05.7	020
703	1971	10	22.97768	01	34	54.85	+10	30	17.7	020
703	1971	10	23.00019	01	34	53.54	+10	30	09.7	020
704	1971	01	07.14621	08	55	16.90	+06	24	44.4	020
704	1971	01	07.16491	08	55	16.03	+06	24	41.0	020
704	1971	01	23.05839	08	41	54.35	+05	57	37.8	020
704	1971	01	23.06706	08	41	53.85	+05	57	36.0	020
707	1971	12	23.76408	03	17	45.15	+22	13	42.2	020
707	1971	12	23.78970	03	17	44.38	+22	13	43.4	020
709	1971	01	23.11882	10	37	50.61	+07	08	43.2	020
709	1971	02	23.95923	10	11	40.23	+07	24	42.4	020
709	1971	02	23.96823	10	11	39.86	+07	24	44.4	020
711	1971	01	23.08731	09	57	29.76	+18	58	52.3	020
711	1971	01	23.09631	09	57	29.13	+18	58	58.2	020
711	1971	02	23.90711	09	23	48.76	+21	00	27.1	020
711	1971	02	23.91473	09	23	48.49	+21	00	27.5	020
720	1970	10	23.95591	01	22	14.83	+07	54	57.0	020
720	1970	10	23.97946	01	22	13.67	+07	54	52.8	020
720	1970	11	03.91101	01	13	55.39	+07	14	18.4	020
720	1970	11	03.93872	01	13	54.21	+07	14	13.1	020
720	1971	12	17.15370	08	21	02.78	+22	49	41.2	020
720	1971	12	17.17101	08	21	02.16	+22	49	46.0	020
721	1971	08	25.04736	23	53	58.55	-10	58	05.6	020
721	1971	08	25.06017	23	53	58.07	-10	58	07.8	020
721	1971	10	22.83363	23	17	14.07	-12	43	08.2	020
721	1971	10	22.85095	23	17	13.56	-12	43	04.8	020
721	1971	10	25.83652	23	16	19.61	-12	37	28.7	020
721	1971	10	25.84275	23	16	19.40	-12	37	28.0	020
723	1970	02	04.00509	09	13	52.78	+12	27	19.7	020
723	1970	02	04.01617	09	13	52.23	+12	27	25.7	020
723	1970	02	06.06958	09	12	11.37	+12	37	47.7	020
723	1970	02	06.08066	09	12	10.93	+12	37	54.2	020
723	1970	03	09.97203	08	50	55.24	+15	05	17.4	020
723	1970	03	09.98311	08	50	54.92	+15	05	20.8	020
731	1971	12	06.78694	02	35	01.08	+16	49	38.5	020
731	1971	12	06.80426	02	35	00.47	+16	49	39.8	020
731	1971	12	07.77174	02	34	27.10	+16	49	59.4	020
731	1971	12	07.78906	02	34	26.43	+16	50	02.1	020
731	1971	12	15.86140	02	30	41.36	+16	55	29.7	020

731	1971	12	15.87802	02	30	41.03	+16	55	31.6	020
732	1971	10	19.87645	00	46	18.43	-02	37	37.6	020
732	1971	10	19.90277	00	46	17.41	-02	37	48.9	020
732	1971	10	22.88453	00	44	07.72	-03	01	05.3	020
732	1971	10	22.90670	00	44	06.64	-03	01	12.2	020
732	1971	10	25.92101	00	42	03.88	-03	22	56.5	020
732	1971	10	25.93244	00	42	03.37	-03	22	59.6	020
736	1971	12	16.06258	05	43	41.76	+17	24	25.0	020
736	1971	12	16.07505	05	43	40.78	+17	24	26.2	020
738	1971	01	06.94000	05	40	15.56	+20	02	42.1	020
738	1971	01	06.94900	05	40	15.16	+20	02	40.4	020
738	1971	01	22.84699	05	30	14.12	+20	18	39.1	020
738	1971	01	22.86361	05	30	13.66	+20	18	42.0	020
738	1971	01	27.85276	05	28	15.33	+20	24	47.0	020
738	1971	01	27.86938	05	28	14.98	+20	24	48.7	020
740	1971	01	06.91229	05	23	47.05	+15	53	38.8	020
740	1971	01	06.92130	05	23	46.60	+15	53	43.8	020
741	1971	01	07.02207	07	36	40.05	+23	44	09.4	020
741	1971	01	07.02761	07	36	39.70	+23	44	12.4	020
741	1971	01	22.91416	07	21	06.26	+25	09	08.1	020
741	1971	01	22.92178	07	21	05.88	+25	09	10.7	020
741	1971	01	27.93102	07	16	33.54	+25	32	03.7	020
741	1971	01	27.93864	07	16	33.15	+25	32	07.9	020
745	1971	01	07.05687	08	34	52.38	+16	28	49.9	020
745	1971	01	07.06553	08	34	52.03	+16	28	55.1	020
745	1971	01	23.00282	08	22	46.46	+18	14	23.1	020
745	1971	01	23.01598	08	22	45.78	+18	14	26.6	020
745	1971	01	28.00858	08	18	45.83	+18	48	10.0	020
745	1971	01	28.02312	08	18	45.03	+18	48	09.2	020
745	1971	02	19.83740	08	02	58.16	+21	06	56.6	020
745	1971	02	19.85471	08	02	57.63	+21	07	03.5	020
746	1970	10	06.96877	00	10	02.66	+03	55	38.3	020
746	1970	10	06.98886	00	10	01.40	+03	55	38.3	020
753	1971	12	06.83715	03	26	05.49	+18	38	48.2	020
753	1971	12	06.86001	03	26	04.13	+18	38	47.8	020
753	1971	12	07.89571	03	25	03.81	+18	38	22.1	020
753	1971	12	07.90956	03	25	03.01	+18	38	22.0	020
758	1971	08	25.04736	23	53	18.92	-08	30	33.7	020
758	1971	08	25.06017	23	53	18.48	-08	30	37.9	020
758	1971	10	22.83363	23	17	24.14	-12	32	55.4	020
758	1971	10	22.85095	23	17	23.85	-12	32	57.0	020
758	1971	10	25.84275	23	16	33.46	-12	33	23.7	020
767	1971	02	24.00926	10	25	45.44	+13	15	13.3	020
767	1971	02	24.02034	10	25	44.50	+13	15	15.5	020
769	1970	10	23.95591	01	22	54.70	+05	37	27.6	020
769	1970	10	23.97946	01	22	53.62	+05	37	24.4	020
769	1970	11	03.91101	01	14	51.11	+05	14	50.8	020
769	1970	11	03.93872	01	14	50.00	+05	14	46.9	020
769	1971	12	16.02553	05	44	43.75	+30	47	36.0	020
769	1971	12	16.03731	05	44	43.11	+30	47	38.1	020
782	1970	11	03.97576	01	51	16.41	+04	07	53.9	020
782	1970	11	03.99100	01	51	15.73	+04	07	57.6	020
783	1971	03	30.79358	09	35	55.67	+17	48	21.7	020
783	1971	03	30.81366	09	35	54.96	+17	48	30.7	020
784	1971	10	15.10549	03	19	59.99	+26	46	58.2	020
784	1971	10	15.13734	03	19	58.45	+26	47	00.3	020
785	1970	12	02.01166	04	23	26.33	+20	06	56.7	020
785	1970	12	02.03070	04	23	25.10	+20	06	58.8	020
798	1971	10	19.96025	01	38	00.74	+12	13	30.5	020

798	1971	10	19.98657	01	37	59.45	+12	13	21.8	020
798	1971	10	22.97768	01	35	45.98	+11	52	23.8	020
798	1971	10	23.00019	01	35	44.96	+11	52	16.1	020
800	1971	09	26.85337	22	14	01.97	-07	05	54.2	020
800	1971	09	26.87415	22	14	01.54	-07	05	55.3	020
803	1970	11	04.07791	04	08	09.10	+24	01	04.0	020
803	1970	11	04.09592	04	08	08.35	+24	01	00.6	020
808	1971	01	22.87677	06	30	15.34	+15	52	04.8	020
808	1971	01	22.88785	06	30	14.90	+15	52	08.9	020
808	1971	01	27.88392	06	27	09.53	+16	06	09.1	020
808	1971	01	27.89708	06	27	09.08	+16	06	11.5	020
810	1970	12	02.00231	04	07	12.24	+15	47	28.1	020
810	1970	12	02.02101	04	07	10.85	+15	47	25.8	020
814	1971	10	12.10901	02	41	07.01	-20	46	07.9	020
814	1971	10	12.11109	02	41	06.99	-20	46	05.6	020
814	1971	10	22.98703	02	31	53.48	-20	44	57.9	020
814	1971	10	22.98980	02	31	53.32	-20	44	56.7	020
818	1971	12	16.02553	05	27	40.77	+28	13	32.3	020
818	1971	12	16.03731	05	27	40.09	+28	13	36.6	020
822	1971	06	19.03985	18	58	37.90	-21	48	21.5	020
822	1971	06	19.05300	18	58	37.03	-21	48	21.0	020
828	1970	02	03.95210	08	35	14.47	+20	01	46.8	020
828	1970	02	03.98050	08	35	13.39	+20	01	48.0	020
828	1971	05	14.88402	12	42	39.72	-05	12	51.3	020
828	1971	05	14.89129	12	42	39.58	-05	12	51.3	020
834	1970	02	03.95210	08	28	31.32	+14	30	45.3	020
834	1970	02	03.98050	08	28	30.29	+14	30	50.5	020
837	1970	02	03.85757	06	54	19.07	+11	54	58.8	020
837	1970	02	03.87696	06	54	18.50	+11	55	03.6	020
838	1971	12	16.08613	06	23	08.77	+15	09	04.9	020
838	1971	12	16.09479	06	23	08.28	+15	09	04.3	020
845	1971	10	19.87645	00	54	19.86	-03	54	09.3	020
845	1971	10	22.88453	00	51	47.79	-03	53	40.9	020
845	1971	10	22.90670	00	51	46.67	-03	53	39.8	020
845	1971	10	25.92101	00	49	20.32	-03	52	23.9	020
845	1971	10	25.93244	00	49	19.90	-03	52	23.0	020
846	1971	09	30.02663	00	05	11.46	+01	01	00.6	020
846	1971	09	30.03564	00	05	11.01	+01	00	53.6	020
847	1971	10	19.84529	00	05	49.68	+04	51	37.5	020
847	1971	10	19.86122	00	05	49.06	+04	51	32.3	020
849	1971	10	12.16043	02	57	00.54	+21	50	55.3	020
849	1971	10	12.17793	02	57	00.44	+21	50	54.0	020
851	1971	12	17.09449	06	41	29.08	+19	47	49.6	020
851	1971	12	17.10557	06	41	28.42	+19	47	49.2	020
852	1971	10	25.85626	23	03	51.88	-23	45	48.3	020
852	1971	10	25.85937	23	03	51.70	-23	45	45.8	020
853	1970	11	04.01368	02	45	18.49	+06	10	01.1	020
853	1970	11	04.02268	02	45	16.99	+06	09	56.2	020
862	1971	08	16.95216	21	30	29.19	-05	37	02.5	020
862	1971	08	16.96117	21	30	28.76	-05	37	03.0	020
862	1971	08	24.94833	21	23	04.23	-05	40	29.5	020
862	1971	08	24.95733	21	23	03.74	-05	40	28.3	020
866	1970	11	04.01368	02	37	15.18	+04	34	26.2	020
866	1970	11	04.02268	02	37	14.77	+04	34	22.1	020
872	1971	03	30.07541	14	03	07.65	-10	42	35.8	020
872	1971	03	30.08441	14	03	06.55	-10	42	28.8	020
875	1971	10	19.88961	01	10	28.76	+04	56	19.7	020
875	1971	10	19.91524	01	10	27.51	+04	55	59.5	020
875	1971	10	22.92713	01	08	16.61	+04	20	31.4	020

875	1971	10	22.95275	01	08	15.48	+04	20	13.7	020
885	1971	08	27.98446	20	55	27.96	-16	30	07.1	020
885	1971	08	27.99069	20	55	27.60	-16	30	09.5	020
891	1971	06	15.94070	14	19	02.71	+02	17	53.3	020
891	1971	06	15.94451	14	19	02.57	+02	17	58.0	020
895	1970	07	27.94170	19	35	26.68	-00	16	22.0	020
895	1970	07	27.94933	19	35	26.36	-00	16	20.6	020
901	1971	07	30.98543	21	23	48.19	-09	02	02.4	020
901	1971	07	30.99305	21	23	47.76	-09	02	00.9	020
901	1971	08	16.93208	21	09	58.18	-09	15	26.1	020
901	1971	08	16.94108	21	09	57.73	-09	15	25.8	020
903	1971	10	22.93959	01	29	44.84	-02	59	35.5	020
903	1971	10	22.96522	01	29	43.75	-02	59	45.5	020
904	1970	12	01.97304	03	53	54.37	+03	44	37.0	020
904	1970	12	01.98447	03	53	53.75	+03	44	37.1	020
905	1971	12	16.02553	05	52	07.82	+31	10	09.7	020
905	1971	12	16.03731	05	52	06.93	+31	10	13.5	020
910	1971	08	25.05394	00	11	04.46	-11	59	12.8	020
910	1971	08	25.06640	00	11	03.81	-11	59	06.2	020
913	1971	05	14.93180	13	27	06.06	+00	39	11.5	020
913	1971	05	14.94046	13	27	05.61	+00	39	10.0	020
914	1971	01	06.91229	05	31	43.61	+12	53	32.0	020
914	1971	01	06.92130	05	31	43.17	+12	53	30.6	020
914	1971	01	18.86346	05	22	22.27	+11	57	21.6	020
914	1971	01	18.88493	05	22	21.48	+11	57	16.4	020
915	1971	10	15.10549	03	03	57.37	+22	16	50.4	020
915	1971	10	15.13734	03	03	56.12	+22	16	57.2	020
915	1971	10	23.07533	02	57	29.62	+22	34	52.2	020
924	1971	01	22.83798	05	28	27.93	+12	45	29.4	020
924	1971	01	22.85530	05	28	27.57	+12	45	35.1	020
924	1971	01	27.84445	05	26	51.87	+13	06	42.1	020
924	1971	01	27.86107	05	26	51.58	+13	06	45.5	020
925	1971	10	06.88806	22	01	10.27	+12	50	26.4	020
925	1971	10	06.89983	22	01	09.93	+12	50	25.2	020
928	1970	02	03.95210	08	33	43.19	+18	28	05.6	020
928	1970	02	03.98050	08	33	42.17	+18	28	17.8	020
931	1970	02	03.90259	07	52	25.22	+23	48	38.3	020
931	1970	02	03.92821	07	52	24.16	+23	48	44.9	020
931	1970	02	09.93538	07	48	18.23	+24	20	30.2	020
931	1970	02	09.95408	07	48	17.43	+24	20	35.2	020
936	1970	10	06.93345	23	08	49.69	-09	06	09.9	020
936	1970	10	06.94245	23	08	49.58	-09	06	09.4	020
938	1971	10	19.98657	01	43	09.48	+06	18	11.9	020
938	1971	10	22.97768	01	40	52.09	+05	59	45.5	020
938	1971	10	23.00019	01	40	51.04	+05	59	38.1	020
940	1971	12	17.11699	07	29	01.52	+26	30	50.0	020
940	1971	12	17.12877	07	29	00.99	+26	31	02.4	020
947	1971	01	23.02879	09	03	43.07	+27	29	00.5	020
947	1971	01	23.03987	09	03	42.42	+27	29	05.4	020
947	1971	02	23.87560	08	33	43.85	+28	53	22.5	020
947	1971	02	23.88668	08	33	43.58	+28	53	22.7	020
954	1971	08	17.02073	22	27	34.56	-09	12	59.9	020
954	1971	08	17.02835	22	27	34.23	-09	13	01.7	020
954	1971	08	28.03362	22	19	32.60	-10	04	27.4	020
954	1971	08	28.04124	22	19	32.22	-10	04	28.4	020
970	1970	10	07.00305	00	07	52.14	+10	22	20.3	020
970	1970	10	07.02417	00	07	51.13	+10	22	16.4	020
976	1970	10	07.00305	00	04	58.46	+10	15	07.0	020
976	1970	10	07.02417	00	04	57.63	+10	14	59.3	020

976	1971	12	15.96113	04	13	54.34	+20	17	08.0	020
976	1971	12	15.98260	04	13	53.22	+20	17	05.8	020
980	1971	10	04.88988	22	34	36.69	+19	42	42.9	020
980	1971	10	04.90165	22	34	36.35	+19	42	39.6	020
980	1971	10	06.90918	22	33	40.72	+19	29	58.5	020
980	1971	10	06.91853	22	33	40.43	+19	29	55.6	020
981	1971	07	30.94526	20	01	27.22	-23	59	17.0	020
981	1971	07	30.95288	20	01	26.45	-23	59	14.2	020
982	1971	07	30.98543	21	17	53.64	-09	40	05.4	020
982	1971	07	30.99305	21	17	53.15	-09	40	05.0	020
984	1971	01	23.00282	08	27	17.21	+21	57	01.9	020
984	1971	01	23.01598	08	27	16.42	+21	57	03.9	020
984	1971	01	28.00858	08	22	09.69	+22	00	22.2	020
984	1971	01	28.02312	08	22	08.80	+22	00	23.6	020
984	1971	02	19.83740	08	02	18.16	+21	56	04.1	020
984	1971	02	19.85471	08	02	17.63	+21	56	05.1	020
991	1971	06	19.03985	18	55	40.51	-24	37	24.6	020
991	1971	06	19.05300	18	55	39.93	-24	37	20.4	020
993	1970	12	02.01166	04	20	10.68	+18	57	52.9	020
993	1970	12	02.03070	04	20	09.45	+18	57	50.0	020
996	1971	01	06.85291	05	03	37.03	+23	49	01.4	020
996	1971	01	06.86399	05	03	36.31	+23	49	02.9	020
1001	1971	01	07.14621	08	49	28.17	+08	00	33.6	020
1001	1971	01	07.16491	08	49	27.31	+08	00	33.5	020
1001	1971	01	23.05839	08	37	01.73	+08	04	14.4	020
1001	1971	01	23.06706	08	37	01.21	+08	04	16.1	020
1010	1970	02	03.90259	08	03	15.39	+22	52	20.4	020
1010	1970	02	03.92821	08	03	14.22	+22	52	25.6	020
1010	1970	02	09.93538	07	58	32.09	+23	09	37.7	020
1010	1970	02	09.95408	07	58	31.27	+23	09	41.9	020
1012	1971	01	23.00282	08	42	21.02	+24	07	21.1	020
1012	1971	01	23.01598	08	42	19.97	+24	07	20.3	020
1012	1971	02	19.90007	08	17	00.35	+25	54	38.9	020
1012	1971	02	19.91184	08	16	59.66	+25	54	39.4	020
1013	1971	10	15.10549	03	09	40.07	+21	49	15.2	020
1013	1971	10	15.13734	03	09	38.54	+21	49	21.9	020
1013	1971	10	23.07533	03	03	06.42	+22	11	11.1	020
1014	1971	01	07.05687	08	39	09.23	+15	27	58.9	020
1014	1971	01	07.06553	08	39	08.70	+15	28	01.2	020
1023	1970	10	06.96877	00	14	59.10	+03	36	09.9	020
1023	1970	10	06.98886	00	14	58.31	+03	36	00.0	020
1027	1970	02	03.98050	08	44	08.62	+20	04	47.6	020
1029	1971	12	17.15370	08	14	50.29	+23	20	42.9	020
1029	1971	12	17.17101	08	14	49.70	+23	20	45.8	020
1032	1970	11	04.01368	02	30	41.15	+06	12	49.2	020
1032	1970	11	04.02268	02	30	40.70	+06	12	45.9	020
1039	1971	08	12.89729	19	05	42.03	-15	58	34.6	020
1039	1971	08	12.91253	19	05	41.52	-15	58	37.6	020
1043	1971	12	06.88632	04	05	40.12	+07	43	46.6	020
1043	1971	12	06.89740	04	05	39.61	+07	43	46.5	020
1043	1971	12	07.93553	04	04	51.41	+07	42	33.4	020
1043	1971	12	07.94661	04	04	50.89	+07	42	33.8	020
1043	1971	12	15.95074	03	59	03.03	+07	37	29.9	020
1043	1971	12	15.97187	03	59	02.17	+07	37	30.5	020
1043	1971	12	23.80909	03	54	16.34	+07	40	24.7	020
1043	1971	12	23.83056	03	54	15.36	+07	40	24.3	020
1047	1971	12	06.79525	02	58	26.61	+13	21	10.4	020
1047	1971	12	06.81326	02	58	25.94	+13	21	14.7	020
1047	1971	12	07.78074	02	57	51.94	+13	24	32.2	020

1047	1971	12	07.79806	02	57	51.26	+13	24	35.7	020
1047	1971	12	15.86971	02	54	27.03	+13	56	21.3	020
1047	1971	12	15.88634	02	54	26.78	+13	56	27.1	020
1054	1970	12	02.00231	03	58	46.95	+13	43	52.6	020
1054	1970	12	02.02101	03	58	45.84	+13	43	58.0	020
1057	1971	01	06.85291	05	11	19.80	+22	07	58.4	020
1057	1971	01	06.86399	05	11	19.58	+22	07	57.3	020
1061	1971	01	27.94625	08	03	47.04	+22	18	40.5	020
1061	1971	01	27.95387	08	03	46.58	+22	18	43.7	020
1069	1971	01	22.83798	05	31	23.64	+09	22	07.9	020
1069	1971	01	22.85530	05	31	23.18	+09	22	14.0	020
1069	1971	01	27.84445	05	29	26.41	+09	49	22.8	020
1069	1971	01	27.86107	05	29	26.01	+09	49	31.3	020
1079	1971	01	07.15590	09	17	44.49	+16	26	02.0	020
1079	1971	01	07.17807	09	17	44.94	+16	26	03.9	020
1084	1970	02	03.95210	08	34	24.98	+13	43	23.2	020
1084	1970	02	03.98050	08	34	23.87	+13	43	28.5	020
1100	1970	02	04.02829	10	04	46.14	+11	16	12.9	020
1100	1970	02	04.04145	10	04	45.60	+11	16	18.1	020
1100	1970	02	06.09174	10	03	09.02	+11	24	18.9	020
1100	1970	02	06.10282	10	03	08.72	+11	24	22.2	020
1102	1971	12	06.88632	04	09	05.34	+09	15	55.2	020
1102	1971	12	06.89740	04	09	04.78	+09	15	51.0	020
1102	1971	12	07.93553	04	08	16.41	+09	10	44.2	020
1102	1971	12	07.94661	04	08	15.82	+09	10	42.1	020
1102	1971	12	15.95074	04	02	26.93	+08	35	56.0	020
1102	1971	12	15.97187	04	02	26.05	+08	35	52.2	020
1102	1971	12	23.80909	03	57	41.88	+08	10	43.7	020
1102	1971	12	23.83056	03	57	41.09	+08	10	43.2	020
1110	1971	08	17.05328	23	07	13.23	+08	54	08.8	020
1110	1971	08	17.06298	23	07	12.94	+08	54	09.6	020
1110	1971	08	18.03046	23	06	47.11	+08	54	34.9	020
1110	1971	08	18.04085	23	06	46.84	+08	54	37.2	020
1110	1971	08	28.04886	23	00	59.94	+08	37	34.7	020
1110	1971	08	28.05509	23	00	59.58	+08	37	36.2	020
1111	1971	10	23.01958	02	34	48.04	+08	50	23.1	020
1111	1971	10	23.04105	02	34	46.98	+08	50	17.5	020
1114	1971	10	22.87345	00	33	20.48	+03	37	03.0	020
1114	1971	10	22.89562	00	33	19.69	+03	36	51.4	020
1120	1971	10	15.09025	02	24	59.37	+07	33	18.4	020
1120	1971	10	15.12072	02	24	57.86	+07	33	03.3	020
1120	1971	10	23.01958	02	18	25.76	+06	35	11.2	020
1120	1971	10	23.04105	02	18	24.58	+06	35	04.6	020
1127	1971	02	24.07401	10	52	11.39	+19	15	25.7	020
1127	1971	02	24.08371	10	52	10.89	+19	15	32.0	020
1137	1971	12	17.11699	07	12	48.71	+24	45	15.8	020
1137	1971	12	17.12877	07	12	48.39	+24	45	19.4	020
1148	1971	08	16.85936	20	27	05.19	-14	59	46.7	020
1148	1971	08	16.86975	20	27	04.95	-14	59	49.9	020
1149	1971	01	23.05839	08	30	16.17	+06	15	28.0	020
1149	1971	01	23.06706	08	30	15.63	+06	15	27.6	020
1162	1971	05	14.95189	14	03	05.43	-12	30	53.9	020
1162	1971	05	14.96366	14	03	04.85	-12	30	52.1	020
1171	1971	01	22.93009	08	05	59.30	+20	05	33.4	020
1171	1971	01	22.93771	08	05	58.90	+20	05	36.4	020
1171	1971	01	27.94625	08	01	38.30	+20	23	42.5	020
1171	1971	01	27.95387	08	01	38.42	+20	23	45.8	020
1182	1971	01	27.96841	08	05	06.97	+30	11	17.2	020
1182	1971	01	27.97603	08	05	06.34	+30	11	16.0	020

1201	1971	10	22.92713	00	58	47.16	+06	50	29.0	020
1201	1971	10	22.95275	00	58	46.08	+06	50	15.0	020
1210	1971	01	07.00770	06	52	41.28	+21	50	26.0	020
1210	1971	01	07.01497	06	52	40.95	+21	50	28.6	020
1210	1971	01	22.88161	06	38	48.45	+22	52	41.2	020
1210	1971	01	22.89339	06	38	48.02	+22	52	44.0	020
1210	1971	01	27.89085	06	35	12.82	+23	09	53.0	020
1210	1971	01	27.90331	06	35	12.24	+23	09	56.2	020
1213	1971	01	06.85291	05	12	39.48	+24	13	55.7	020
1213	1971	01	06.86399	05	12	39.14	+24	13	55.7	020
1223	1970	10	23.90155	00	34	40.29	+01	57	32.9	020
1223	1970	10	23.91748	00	34	39.60	+01	57	30.5	020
1227	1971	10	07.92792	00	21	22.75	+05	33	12.7	020
1227	1971	10	07.95701	00	21	20.91	+05	33	12.4	020
1233	1970	03	12.93004	09	22	58.13	+09	24	32.4	020
1233	1970	03	12.93869	09	22	57.71	+09	24	25.7	020
1239	1971	01	23.00282	08	27	08.83	+21	41	03.8	020
1239	1971	01	23.01598	08	27	08.09	+21	41	08.8	020
1239	1971	01	28.00858	08	22	30.47	+22	00	21.6	020
1239	1971	01	28.02312	08	22	29.54	+22	00	24.7	020
1239	1971	02	19.83740	08	06	05.27	+22	55	21.1	020
1239	1971	02	19.85471	08	06	04.67	+22	55	21.9	020
1247	1971	09	30.02663	00	07	21.89	-00	13	00.2	020
1247	1971	09	30.03564	00	07	20.75	-00	13	08.1	020
1249	1971	08	16.85936	20	25	47.20	-12	19	07.9	020
1249	1971	08	16.86975	20	25	46.60	-12	19	09.3	020
1254	1970	02	04.00509	09	28	06.05	+09	17	54.1	020
1254	1970	02	04.01617	09	28	05.40	+09	17	55.4	020
1254	1970	02	06.06958	09	26	21.78	+09	22	29.4	020
1254	1970	02	06.08066	09	26	20.97	+09	22	35.8	020
1257	1971	08	16.85936	20	32	20.59	-12	03	18.6	020
1257	1971	08	16.86975	20	32	19.77	-12	03	16.9	020
1258	1971	06	03.06483	18	55	25.66	-27	55	24.6	020
1258	1971	06	03.07661	18	55	25.20	-27	55	25.0	020
1261	1971	01	06.85291	05	09	50.32	+24	02	50.1	020
1261	1971	01	06.86399	05	09	48.90	+24	02	50.2	020
1266	1971	02	24.03107	10	48	01.22	-01	24	39.7	020
1266	1971	02	24.04008	10	48	00.73	-01	24	36.2	020
1269	1970	10	24.04180	02	21	25.30	+10	18	36.8	020
1269	1970	10	24.05253	02	21	24.65	+10	18	31.7	020
1271	1970	11	04.01368	02	42	53.80	+04	24	49.8	020
1271	1970	11	04.02268	02	42	52.88	+04	24	45.0	020
1274	1970	02	09.93538	07	58	25.05	+23	19	06.7	020
1277	1970	12	02.04888	04	50	02.58	+21	33	58.2	020
1277	1970	12	02.06481	04	50	01.75	+21	33	53.9	020
1281	1970	10	23.90986	00	34	42.76	+06	22	01.0	020
1281	1970	10	23.92509	00	34	42.02	+06	21	52.5	020
1283	1971	08	28.03362	22	23	36.80	-09	08	33.1	020
1283	1971	08	28.04124	22	23	36.40	-09	08	39.8	020
1286	1970	10	23.90986	00	32	32.20	+04	47	40.7	020
1286	1970	10	23.92509	00	32	31.66	+04	47	38.6	020
1289	1971	06	03.03471	17	29	03.85	-20	57	55.2	020
1289	1971	06	03.04580	17	29	03.50	-20	57	59.5	020
1292	1970	11	04.07791	04	01	33.70	+22	49	29.0	020
1292	1970	11	04.09592	04	01	33.27	+22	49	32.2	020
1299	1970	10	24.01738	01	44	28.25	+01	16	02.1	020
1299	1970	10	24.02639	01	44	27.37	+01	15	59.8	020
1300	1971	01	23.02879	08	58	10.43	+27	48	56.7	020
1300	1971	01	23.03987	08	58	09.73	+27	49	02.0	020



1302	1970	02	03.90259	07	59	30.60	+22	51	18.2	020
1302	1970	02	03.92821	07	59	29.24	+22	51	23.3	020
1302	1970	02	09.93538	07	55	08.37	+23	05	51.5	020
1302	1970	02	09.95408	07	55	07.40	+23	05	56.4	020
1314	1971	08	16.85936	20	25	13.31	-12	00	16.4	020
1314	1971	08	16.86975	20	25	12.79	-12	00	17.7	020
1315	1971	02	24.03107	10	39	50.34	-02	07	46.4	020
1315	1971	02	24.04008	10	39	50.14	-02	07	39.5	020
1319	1970	03	12.94804	11	18	49.15	-00	37	10.3	020
1319	1970	03	12.95704	11	18	48.72	-00	37	07.3	020
1328	1971	12	06.83715	03	23	15.41	+16	22	35.5	020
1328	1971	12	06.86001	03	23	14.59	+16	22	31.2	020
1328	1971	12	07.89571	03	22	36.66	+16	18	45.0	020
1328	1971	12	07.90956	03	22	36.06	+16	18	43.7	020
1331	1971	07	30.96742	20	44	36.16	-18	35	00.3	020
1331	1971	07	30.97660	20	44	35.73	-18	34	59.5	020
1332	1971	01	06.87576	05	31	19.12	+26	41	43.2	020
1332	1971	01	06.88684	05	31	17.60	+26	41	46.2	020
1339	1971	12	17.11699	07	24	14.24	+24	25	48.6	020
1339	1971	12	17.12877	07	24	13.32	+24	25	52.6	020
1350	1970	02	04.02829	10	13	36.54	+11	29	26.9	020
1350	1970	02	04.04145	10	13	35.81	+11	29	33.8	020
1350	1970	02	06.09174	10	12	02.94	+11	40	03.3	020
1350	1970	02	06.10282	10	12	02.25	+11	40	06.8	020
1375	1971	01	23.02879	09	04	31.13	+26	51	53.0	020
1375	1971	01	23.03987	09	04	30.55	+26	51	57.2	020
1382	1971	01	06.87576	05	29	29.78	+25	49	18.4	020
1382	1971	01	06.88684	05	29	29.10	+25	49	16.4	020
1384	1971	02	24.00926	10	22	52.04	+10	28	36.8	020
1384	1971	02	24.02034	10	22	51.38	+10	28	43.1	020
1394	1971	10	22.92713	00	57	01.38	+04	17	15.2	020
1394	1971	10	22.95275	00	57	00.06	+04	17	06.1	020
1409	1970	10	23.94310	01	14	26.45	+02	48	04.2	020
1409	1970	10	23.96734	01	14	25.47	+02	47	55.4	020
1409	1970	11	03.89716	01	06	57.58	+01	41	15.6	020
1409	1970	11	03.92486	01	06	56.59	+01	41	05.7	020
1420	1971	06	28.91177	15	56	23.96	-21	09	43.5	020
1420	1971	06	28.93394	15	56	23.41	-21	09	39.0	020
1423	1970	10	23.95591	01	24	42.90	+06	07	10.3	020
1423	1970	10	23.97946	01	24	41.65	+06	07	05.0	020
1423	1970	11	03.91101	01	16	42.00	+05	35	49.3	020
1423	1970	11	03.93872	01	16	40.80	+05	35	51.1	020
1424	1971	01	27.96841	07	45	28.53	+33	52	28.8	020
1424	1971	01	27.97603	07	45	28.12	+33	52	29.6	020
1434	1970	12	01.97304	04	01	04.31	+04	37	52.6	020
1434	1970	12	01.98447	04	01	03.47	+04	37	56.1	020
1437	1971	08	16.87875	20	43	56.30	-20	08	39.8	020
1437	1971	08	16.88775	20	43	55.83	-20	08	37.7	020
1447	1971	05	14.95189	13	52	01.12	-12	01	39.3	020
1447	1971	05	14.96366	13	52	00.79	-12	01	34.1	020
1448	1971	02	24.07401	10	49	22.41	+19	08	00.9	020
1448	1971	02	24.08371	10	49	21.94	+19	08	02.8	020
1463	1971	01	27.96841	07	53	34.82	+26	52	29.3	020
1463	1971	01	27.97603	07	53	34.29	+26	52	27.8	020
1482	1970	12	02.04888	04	45	04.88	+22	22	05.5	020
1482	1970	12	02.06481	04	45	04.01	+22	22	05.5	020
1488	1971	02	19.99287	10	00	26.54	+20	26	39.1	020
1488	1971	02	20.00395	10	00	25.70	+20	26	40.0	020
1488	1971	02	23.92321	09	56	44.13	+20	29	40.6	020

1488	1971	02	23.93222	09	56	43.56	+20	29	42.0	020
1502	1971	01	07.05687	08	27	47.95	+12	22	31.2	020
1502	1971	01	07.06553	08	27	47.60	+12	22	35.0	020
1504	1971	12	17.09449	06	41	04.53	+22	21	15.8	020
1504	1971	12	17.10557	06	41	04.06	+22	21	20.9	020
1514	1970	11	04.01368	02	45	29.85	+07	02	22.6	020
1514	1970	11	04.02268	02	45	28.65	+07	02	19.3	020
1518	1971	08	25.04736	23	59	27.11	-09	07	36.4	020
1518	1971	08	25.06017	23	59	26.53	-09	07	38.1	020
1520	1971	12	07.95873	04	26	43.81	+22	48	56.0	020
1520	1971	12	07.97050	04	26	43.33	+22	48	51.1	020
1520	1971	12	15.96113	04	20	03.93	+21	53	55.7	020
1520	1971	12	15.98260	04	20	02.66	+21	53	47.1	020
1528	1970	02	03.95210	08	50	48.39	+15	45	42.2	020
1528	1970	02	03.98050	08	50	47.11	+15	45	53.6	020
1533	1970	02	03.85757	07	01	27.17	+12	09	46.0	020
1533	1970	02	03.87696	07	01	25.86	+12	09	43.4	020
1542	1971	02	23.95923	10	08	42.53	+07	52	10.3	020
1542	1971	02	23.96823	10	08	42.01	+07	52	14.3	020
1551	1971	01	23.00282	08	35	41.89	+20	33	36.4	020
1551	1971	01	23.01598	08	35	40.98	+20	33	40.2	020
1551	1971	01	28.02312	08	30	25.96	+21	00	01.3	020
1561	1971	07	30.98543	21	20	48.32	-08	20	56.0	020
1561	1971	07	30.99305	21	20	48.08	-08	20	55.4	020
1572	1971	10	07.91371	23	30	02.65	-05	52	04.6	020
1572	1971	10	07.94419	23	30	01.12	-05	52	02.5	020
1577	1971	10	22.93959	01	21	41.63	-01	14	29.9	020
1577	1971	10	22.96522	01	21	40.37	-01	14	36.1	020
1581	1971	01	22.93009	07	55	58.44	+21	40	38.0	020
1581	1971	01	22.93771	07	55	58.09	+21	40	40.4	020
1581	1971	01	27.94625	07	51	41.96	+21	55	28.0	020
1581	1971	01	27.95387	07	51	41.70	+21	55	28.9	020
1603	1971	08	24.89396	20	27	18.82	-20	11	07.2	020
1603	1971	08	24.90505	20	27	18.37	-20	11	06.2	020
1611	1970	11	03.96469	01	26	25.87	+12	14	30.1	020
1611	1970	11	03.98685	01	26	25.01	+12	14	24.7	020
1615	1970	10	23.90155	00	36	32.70	+01	56	14.1	020
1615	1970	10	23.91748	00	36	32.20	+01	56	12.0	020
1623	1971	10	23.01958	02	32	15.11	+10	52	54.4	020
1623	1971	10	23.04105	02	32	14.09	+10	52	49.9	020
1635	1970	12	02.04888	04	49	27.45	+19	55	07.8	020
1635	1970	12	02.06481	04	49	26.67	+19	55	06.8	020
1636	1970	02	04.00509	09	29	15.33	+10	38	48.5	020
1636	1970	02	04.01617	09	29	14.65	+10	38	54.9	020
1636	1970	02	06.06958	09	27	08.21	+10	53	37.6	020
1636	1970	02	06.08066	09	27	07.59	+10	53	37.9	020
1643	1971	12	07.95873	04	10	26.20	+25	12	50.3	020
1643	1971	12	07.97050	04	10	25.39	+25	12	46.0	020
1643	1971	12	15.96113	04	03	23.04	+24	34	22.9	020
1643	1971	12	15.98260	04	03	21.74	+24	34	15.2	020
1645	1971	10	19.88961	01	11	47.66	+09	10	27.1	020
1645	1971	10	22.92713	01	09	30.76	+08	55	42.4	020
1645	1971	10	22.95275	01	09	29.59	+08	55	34.2	020
1653	1971	12	06.90952	04	13	26.06	+28	18	01.5	020
1653	1971	12	06.92199	04	13	25.30	+28	17	57.9	020
1653	1971	12	07.95873	04	12	33.58	+28	12	06.8	020
1653	1971	12	07.97050	04	12	32.90	+28	12	03.4	020
1653	1971	12	15.96113	04	06	48.99	+27	25	36.7	020
1653	1971	12	15.98260	04	06	48.05	+27	25	30.2	020

1663	1970	12	02.01166	04	22	27.60	+18	50	18.7	020
1663	1970	12	02.03070	04	22	26.20	+18	50	19.7	020
1665	1971	01	07.04025	08	15	57.78	+27	58	36.4	020
1665	1971	01	07.04752	08	15	57.42	+27	58	43.2	020
1665	1971	01	22.96334	08	00	43.56	+30	57	34.6	020
1665	1971	01	22.96957	08	00	43.13	+30	57	38.1	020
1665	1971	01	27.96841	07	55	49.83	+31	42	50.6	020
1665	1971	01	27.97603	07	55	49.30	+31	42	53.7	020
1673	1970	12	02.00231	04	05	37.08	+17	18	29.7	020
1673	1970	12	02.02101	04	05	35.96	+17	18	24.7	020
1674	1970	12	02.04888	04	45	00.53	+20	32	43.6	020
1674	1970	12	02.06481	04	44	59.73	+20	32	43.1	020
1675	1971	01	27.96841	08	01	19.15	+33	54	50.9	020
1675	1971	01	27.97603	08	01	18.70	+33	54	50.1	020
1687	1971	10	15.09025	02	31	35.63	+11	02	56.7	020
1687	1971	10	15.12072	02	31	34.25	+11	02	48.2	020
1687	1971	10	23.01958	02	25	51.44	+10	35	52.5	020
1687	1971	10	23.04105	02	25	50.42	+10	35	49.0	020
1689	1970	02	03.90259	07	58	48.07	+20	48	57.9	020
1689	1970	02	03.92821	07	58	46.56	+20	49	08.5	020
1689	1970	02	09.93538	07	53	43.87	+21	19	48.2	020
1689	1970	02	09.95408	07	53	42.97	+21	19	52.0	020
1712	1971	12	23.76408	03	40	25.17	+16	09	47.6	020
1712	1971	12	23.78970	03	40	24.31	+16	09	46.5	020
1740	1970	10	23.99608	01	39	52.42	+14	43	32.4	020
1740	1970	10	24.00717	01	39	51.82	+14	43	28.0	020
1743	1970	03	12.93004	09	27	57.54	+08	16	53.7	020
1743	1970	03	12.93869	09	27	57.31	+08	16	57.5	020
1866	1973	02	05.76722	02	44	31.15	+57	55	37.0	020
1866	1973	02	05.77622	02	44	32.53	+57	55	37.8	020

OBSERVATIONS MADE AT TURKU BY Y. VAISALA, H. ALIKOSKI AND L. OTERMA.

MEASURED BY H. ALIKOSKI, J. LEHTINEN, M.-A. SNARE AND S. SUOMALAINEN.

Object	Date	UT	R. A. (1950)			Decl.	N	Obs.		
1591	1943	02	23.77911	09	52	39.66	+46	44	10.3	062
1591	1943	02	23.80422	09	52	37.88	+46	44	21.9	062
1591	1943	02	23.82066	09	52	36.66	+46	44	27.6	062
1939 SG	1939	09	19.85108	00	37	14.88	+25	32	06.6	062
1939 SG	1939	09	20.85722	00	36	29.81	+25	27	31.6	062
1939 SG	1939	10	07.76060	00	22	46.57	+23	23	51.6	062
1939 SG	1939	10	17.76773	00	15	09.73	+21	37	53.2	062
1939 SG	1939	10	20.84712	00	13	08.16	+21	02	26.0	062
1939 TG	1939	10	07.91413	01	18	08.08	+11	05	04.9	062
1939 TG	1939	10	17.76102	01	10	11.62	+09	39	06.8	062
1939 TG	1939	10	18.85641	01	09	18.82	+09	29	18.9	062
1939 TG	1939	11	11.75866	00	53	38.50	+06	14	11.4	062
1939 VH	1939	11	11.79720	02	18	29.97	+14	44	21.5	062
1939 VH	1939	11	11.87564	02	18	25.55	+14	43	45.2	062
1939 VH	1939	11	20.82852	02	10	48.09	+13	39	52.0	062
1939 VH	1939	11	20.90676	02	10	44.63	+13	39	21.2	062
1942 TB	1942	10	03.93791	01	24	34.25	-05	50	12.2	062
1942 TB	1942	10	11.94406	01	19	50.69	-07	14	59.0	1 062
1942 TB	1942	11	05.83714	01	07	27.66	-09	27	36.0	062
1943 DF	1943	02	23.77911	10	05	23.96	+44	45	45.3	062
1943 DF	1943	02	23.80422	10	05	20.96	+44	45	05.4	062
1943 DF	1943	02	23.82066	10	05	19.10	+44	44	37.2	062
1943 DF	1943	02	26.80531	09	59	43.54	+43	20	15.7	062
1943 DF	1943	02	26.83934	09	59	39.69	+43	19	15.0	062
1943 DF	1943	03	01.81464	09	54	35.05	+41	49	50.1	062

1943 DF	1943 03 09.88635	09 43 38.87	+37 28 27.0		062
1943 DF	1943 03 11.84345	09 41 39.46	+36 22 29.1	2	062
1943 DF	1943 03 13.04517	09 40 33.21	+35 41 45.7		062

Note 1: very near plate edge. 2: partly on star; difficult to measure.

OBSERVATIONS MADE AT THE CRIMEAN ASTROPHYSICAL OBSERVATORY BY N. S. CHERNYKH,  
L. I. CHERNYKH, L. G. KARACHKINA, T. M. SMIRNOVA AND L. V. ZHURAVLEVA  
(REMAINDER OF 44TH REPORT; 45TH REPORT).

Object	Date	UT	R. A. (1950)	Decl.	O - C	Mag.	N Obs.
1890	1979 01	24.84092	06 51 55.10	+32 19 27.1	0.2- 0		1 095
1979 BP *	1979 01	24.84092	06 52 40.14	+33 01 18.8		17.0	1 095
1979 BQ *	1979 01	24.84092	06 52 51.21	+27 59 43.2		17.0	1 095
2070	1979 01	24.84092	06 54 30.76	+27 09 32.4	0.3- 1+		1 095
1979 BR *	1979 01	24.84092	06 57 22.40	+28 28 42.4		17.5	1 095
1979 BS *	1979 01	24.84092	06 59 25.15	+28 24 32.1		17.2	1 095
2267	1979 01	24.84092	07 01 32.81	+24 35 20.8	0.3- 0		1 095
1979 BT *	1979 01	24.84092	07 01 54.77	+28 33 52.6		16.5	095
1979 BU *	1979 01	24.84092	07 02 11.51	+31 16 56.0		17.2	095
1979 BV *	1979 01	24.84092	07 02 16.86	+29 35 59.9		17.0	095
141	1979 01	24.84092	07 03 34.95	+31 22 25.6	0.2- 0		095
1133	1979 01	24.84092	07 03 45.74	+30 16 31.5	0.2- 2+		095
1979 BW *	1979 01	24.84092	07 03 46.71	+26 49 17.6		17.3	095
1979 BX *	1979 01	24.84092	07 05 43.30	+30 12 23.2		17.2	095
1979 BY *	1979 01	24.84092	07 05 57.69	+28 35 30.1		17.0	095
1248	1979 01	24.84092	07 10 23.83	+30 12 06.8	0.2- 4+		095
1998	1979 01	24.84092	07 10 56.41	+33 06 51.4	0.2- 2+		095
1979 BZ *	1979 01	24.84092	07 12 09.38	+30 38 27.5		17.2	095
1979 BA1 *	1979 01	24.84092	07 12 56.16	+32 27 57.3		16.5	095
1908	1979 01	24.84092	07 13 26.29	+29 26 22.9	0.2- 1+		095
1979 BB1 *	1979 01	24.84092	07 14 08.95	+27 44 35.4		17.1	095
1979 BC1 *	1979 01	24.84092	07 14 22.46	+29 49 29.5		17.0	095
1979 BD1 *	1979 01	24.84092	07 14 50.41	+29 48 26.1		16.8	095
1047	1979 01	24.84092	07 15 12.79	+28 17 48.7	0.2- 2+		095
55	1979 01	24.84092	07 16 16.86	+33 05 18.0	0.2- 1+		095
1979 BE1 *	1979 01	24.84092	07 17 36.43	+26 16 38.0		17.1	1 095
1979 BF1 *	1979 01	24.84092	07 17 50.42	+31 52 57.1		17.3	095
1979 BG1 *	1979 01	24.84092	07 18 45.16	+30 24 35.8		17.7	095
1979 BH1 *	1979 01	24.84092	07 18 52.48	+31 11 48.0		17.1	095
630	1979 01	24.84092	07 19 58.88	+26 02 09.6	0.2- 1+		095
1979 BL	1979 01	24.84092	07 20 06.21	+28 05 06.1		15.3	095
1979 BJ1 *	1979 01	24.84092	07 23 43.69	+27 56 46.0		16.7	1 095
21	1979 01	24.84092	07 24 17.09	+24 42 12.6	0.2- 1+		1 095
237	1979 01	24.84092	07 24 45.02	+29 14 14.9	0.1- 3-		095
1979 BK1 *	1979 01	24.84092	07 25 29.92	+28 09 57.9		16.8	1 095
1979 BL1 *	1979 01	24.84092	07 26 18.70	+30 26 49.4		17.0	1 095
1979 BM1 *	1979 01	24.84092	07 26 19.47	+28 21 52.4		17.0	1 095
1979 BN1 *	1979 01	24.84092	07 26 58.21	+26 45 18.2		17.0	095
481	1979 01	24.84092	07 31 12.10	+33 58 53.4	0.2- 2+		1 095
1544	1979 01	24.84092	07 31 14.99	+26 46 11.4	0.3- 1+		1 095
577	1979 01	24.84092	07 31 36.06	+25 59 55.4	0.0 1+		1 095
332	1979 01	24.84092	07 34 05.24	+25 56 13.0	0.1- 0		1 095
1979 BO1 *	1979 01	24.90974	07 59 56.31	+21 26 09.5		17.5	1 095
1979 BP1 *	1979 01	24.90974	08 00 31.82	+22 31 10.8		17.5	1 095
178	1979 01	24.90974	08 00 45.58	+23 30 07.4	0.1- 0		1 095
1979 BQ1 *	1979 01	24.90974	08 01 59.87	+18 11 42.4		17.8	1 095
170	1979 01	24.90974	08 03 03.69	+20 30 57.7	0.0 0		1 095
1979 BR1 *	1979 01	24.90974	08 03 22.26	+25 28 09.0		18.0	1 095
1979 BS1 *	1979 01	24.90974	08 04 57.63	+18 11 30.4		17.7	1 095
1979 BT1 *	1979 01	24.90974	08 06 25.09	+21 07 58.1		17.5	1 095

1979	BU1	*	1979	01	24.90974	08	07	44.33	+22	09	54.7			17.3		095
122			1979	01	24.90974	08	08	39.88	+18	05	52.8	0.0	0		1	095
1979	BV1	*	1979	01	24.90974	08	08	56.54	+21	34	39.7			17.5		095
1979	BW1	*	1979	01	24.90974	08	09	01.67	+23	12	09.3			17.6		095
2280			1979	01	24.90974	08	09	10.63	+21	51	34.6	0.1-	1+	17.3		095
1979	BX1	*	1979	01	24.90974	08	11	26.93	+23	15	47.2			17.2		095
1979	BY1	*	1979	01	24.90974	08	13	28.47	+21	07	36.5			17.6		095
1979	BZ1	*	1979	01	24.90974	08	14	13.60	+20	20	05.9			17.5		095
1699			1979	01	24.90974	08	14	46.92	+18	13	48.9	0.0	0		1	095
1979	BA2	*	1979	01	24.90974	08	16	05.70	+17	22	54.0			17.5	1	095
1979	BB2	*	1979	01	24.90974	08	19	51.01	+19	00	27.2			17.0	1	095
303			1979	01	24.90974	08	19	59.38	+26	35	36.7	0.0	1+			095
1979	BC2	*	1979	01	24.90974	08	20	10.74	+21	39	03.9			17.8		095
1949	PK		1979	01	24.90974	08	20	28.96	+18	34	04.6			17.6	1	095
1979	BD2	*	1979	01	24.90974	08	20	32.76	+18	35	07.6			17.7	1	095
1082			1979	01	24.90974	08	21	19.15	+18	24	50.9	0.1-	0		1	095
1979	BE2	*	1979	01	24.90974	08	21	44.43	+26	32	43.3			17.6	1	095
1979	BF2	*	1979	01	24.90974	08	22	06.54	+23	28	33.9			17.9		095
939			1979	01	24.90974	08	22	17.79	+21	09	13.8	0.1-	0			095
1979	BG2	*	1979	01	24.90974	08	25	23.82	+19	23	47.5			17.7	1	095
1979	BJ		1979	01	24.90974	08	25	29.87	+25	09	02.3			17.4		095
758			1979	01	24.90974	08	25	40.85	+21	54	27.2	0.0	0			095
1979	BK		1979	01	24.90974	08	25	51.88	+25	32	12.6			17.3	1	095
1979	BH2	*	1979	01	24.90974	08	25	59.06	+23	00	27.0			18.0		095
1979	BJ2	*	1979	01	24.90974	08	26	34.94	+23	51	09.6			17.4		095
1062			1979	01	24.90974	08	27	21.02	+24	36	29.8	0.1-	0			095
2287			1979	01	24.90974	08	28	34.90	+23	33	08.7	0.4-	2+			095
1979	BK2	*	1979	01	24.90974	08	34	20.45	+26	38	40.2			18.0	1	095
1979	BL2	*	1979	01	24.90974	08	38	34.00	+20	49	36.0			17.8	1	095
2286			1979	01	24.90974	08	40	02.47	+20	34	12.9	0.0	0	17.5	1	095
1979	FB1	*	1979	03	23.75845	09	20	25.40	+13	44	37.6			16.8	1	095
2251			1979	03	23.75845	09	20	39.50	+08	36	57.8	0.3-	3-	16.8	1	095
1756			1979	03	23.75845	09	21	01.96	+10	18	10.5	0.1-	0		1	095
191			1979	03	23.75845	09	21	12.84	+13	18	26.2	0.1+	0		1	095
1420			1979	03	23.75845	09	23	04.77	+10	32	04.2	0.2-	3-			095
1878			1979	03	23.75845	09	26	15.32	+13	36	50.2	0.2-	0			095
461			1979	03	23.75845	09	26	56.18	+14	54	05.0	0.2-	0		1	095
707			1979	03	23.75845	09	29	42.70	+08	59	16.6	0.4-	0			095
900			1979	03	23.75845	09	30	11.50	+06	54	12.2	0.4-	1+		3	095
260			1979	03	23.75845	09	32	27.18	+12	26	23.8	0.2+	0			095
1979	FC1	*	1979	03	23.75845	09	33	20.50	+10	56	53.9			17.0		095
1979	FD1	*	1979	03	23.75845	09	33	43.26	+08	46	47.6			16.7		095
1979	FE1	*	1979	03	23.75845	09	34	50.94	+11	02	56.0			17.0		095
1979	FF1	*	1979	03	23.75845	09	36	26.86	+09	48	48.7			16.5		095
1979	FG1	*	1979	03	23.75845	09	40	34.70	+14	45	27.4			16.6	1	095
338			1979	03	23.75845	09	41	53.26	+06	54	28.2	0.2-	0		1	095
1570			1979	03	23.75845	09	42	07.32	+12	24	29.4	0.3-	1+			095
1979	FH1	*	1979	03	23.75845	09	42	32.58	+07	51	40.8			16.6		095
1979	FJ1	*	1979	03	23.75845	09	45	19.74	+11	06	29.2			16.6		095
513			1979	03	23.75845	09	50	27.74	+06	38	21.7	0.1-	0		1	095
1942	CB		1979	03	23.75845	09	51	07.15	+10	25	14.6			16.5	1	095
513			1979	03	23.82095	09	50	26.42	+06	38	44.4	0.2-	1+		1	095
1942	CB		1979	03	23.82095	09	51	06.07	+10	25	15.0			17.0	1	095
377			1979	03	23.82095	09	53	41.44	+04	49	52.2	0.3-	1+		1	095
1114			1979	03	23.82095	09	57	55.49	+03	08	13.4	0.2-	1+		1	095
1979	FK1	*	1979	03	23.82095	09	57	59.76	+06	55	28.0			17.0		095
1560			1979	03	23.82095	09	59	20.44	+04	55	58.5	0.3-	1+			095
853			1979	03	23.82095	09	59	41.81	+06	50	19.6	0.3-	2+			095
1979	FL1	*	1979	03	23.82095	10	00	44.55	+02	46	58.4			17.0	1	095

922		1979	03	23.82095	10	00	48.93	+04	32	01.6	0.1-	1+		095
1979	FM1 *	1979	03	23.82095	10	01	55.32	+05	39	50.5			16.7	095
1979	FN1 *	1979	03	23.82095	10	01	59.22	+07	22	03.3			17.0	095
846		1979	03	23.82095	10	03	55.81	+11	30	39.1	0.3-	2+		1 095
1979	FO1 *	1979	03	23.82095	10	04	16.05	+09	48	11.2			17.0	1 095
1979	FP1 *	1979	03	23.82095	10	07	38.52	+10	23	32.1			17.0	1 095
1979	FQ1 *	1979	03	23.82095	10	08	16.06	+04	39	45.3			17.0	095
1613		1979	03	23.82095	10	08	49.84	+06	00	26.8	0.4-	1+		095
375		1979	03	23.82095	10	08	50.99	+10	13	16.8	0.3-	1+		1 095
49		1979	03	23.82095	10	09	07.01	+07	37	17.0	0.3-	1+		095
937		1979	03	23.82095	10	11	58.59	+05	10	31.6	0.2-	3+		095
470		1979	03	23.82095	10	17	04.81	+08	55	23.8	0.5-	1+		095
114		1979	03	23.82095	10	18	24.30	+10	39	59.8	0.2-	2+		1 095
1307		1979	03	23.82095	10	23	06.60	+03	23	20.5	0.4-	1+		1 095
1590		1979	03	23.82095	10	26	37.57	+03	00	53.3	0.6-	1+		1 095
1687		1979	03	23.88142	11	45	44.09	+05	35	14.9	0.2-	1+		1 095
1979	FR1 *	1979	03	23.88142	11	47	45.76	+00	55	23.0			17.5	1 095
1898		1979	03	23.88142	11	48	27.60	+01	39	27.5	0.0	0		1 095
1979	FS1 *	1979	03	23.88142	11	49	00.34	+03	26	11.3			16.5	1 095
1979	FT1 *	1979	03	23.88142	11	51	11.85	+04	47	40.1			17.5	095
1979	FU1 *	1979	03	23.88142	11	52	22.52	+03	29	20.1			16.5	095
2160		1979	03	23.88142	11	52	26.18	+03	59	20.0	0.3+	1-		095
421		1979	03	23.88142	11	52	59.70	-00	51	51.7	0.6-	3+		095
1979	FV1 *	1979	03	23.88142	11	53	05.79	-01	25	42.1			17.8	095
1979	FW1 *	1979	03	23.88142	11	53	13.37	+05	03	17.4			17.5	095
958		1979	03	23.88142	11	55	58.25	-01	59	52.4	0.0	0		1 095
1979	FX1 *	1979	03	23.88142	11	56	47.63	+01	56	48.5			16.5	095
1979	FY1 *	1979	03	23.88142	11	58	20.43	+01	16	25.7			17.8	095
1979	FZ1 *	1979	03	23.88142	11	58	43.42	+04	02	17.6			17.0	095
257		1979	03	23.88142	11	58	54.50	+03	24	30.4	0.0	0		095
1979	FA2 *	1979	03	23.88142	11	59	23.88	+03	36	55.6			17.5	095
147		1979	03	23.88142	12	00	50.51	-02	53	12.8	0.1-	0		1 095
1979	FB2 *	1979	03	23.88142	12	01	41.98	+00	13	16.9			17.0	095
1121		1979	03	23.88142	12	03	45.40	-01	06	39.7	0.0	1-		095
1979	FC2 *	1979	03	23.88142	12	05	34.23	+00	55	01.8			17.0	095
1043		1979	03	23.88142	12	06	09.44	+04	28	41.2	0.1-	1+		095
1976	QG1	1979	03	23.88142	12	06	39.88	+00	19	44.6			17.0	095
841		1979	03	23.88142	12	07	17.22	-01	50	13.0	0.0	0		1 095
1979	FD2 *	1979	03	23.88142	12	10	56.33	+02	29	17.4			17.0	095
1979	FE2 *	1979	03	23.88142	12	11	52.53	+03	11	47.6			16.2	095
6545	P-L	1979	03	23.88142	12	11	57.94	+02	48	38.6			17.0	095
1979	FF2 *	1979	03	23.88142	12	14	01.59	+00	23	18.4			16.8	095
1979	FG2 *	1979	03	23.88142	12	14	23.32	+00	29	31.2			16.8	095
1979	FH2 *	1979	03	23.88142	12	17	29.61	+04	14	13.6			17.5	1 095
1091		1979	03	23.88142	12	17	43.05	-00	10	38.2	0.0	0		1 095
1979	FJ2 *	1979	03	23.88142	12	19	21.60	+02	28	50.5			16.8	1 095
490		1979	03	23.88142	12	19	21.70	-00	37	31.3	0.0	1-		1 095
864		1979	03	23.88142	12	19	25.88	+01	15	46.6	0.0	0		1 095
513		1979	03	29.84877	09	48	27.35	+07	12	28.7	0.0	1-		1 095
377		1979	03	29.84877	09	51	27.04	+05	22	52.9	0.1-	0		1 095
1114		1979	03	29.84877	09	55	43.29	+03	45	32.4	0.1+	1+		095
1560		1979	03	29.84877	09	56	23.64	+05	16	09.9	0.1+	0		095
853		1979	03	29.84877	09	57	19.42	+07	40	58.5	0.1+	0		095
922		1979	03	29.84877	09	57	54.54	+05	04	41.2	0.1+	0		095
1979	FL1	1979	03	29.84877	09	57	57.26	+03	22	38.3			17.0	1 095
1979	FM1	1979	03	29.84877	10	01	19.21	+06	31	35.0			16.5	095
1979	FQ1	1979	03	29.84877	10	04	57.85	+04	40	54.5			17.2	095
375		1979	03	29.84877	10	05	21.86	+10	13	07.7	0.1-	0		1 095
1613		1979	03	29.84877	10	06	04.02	+06	05	05.5	0.1+	0		095

49		1979	03	29.84877	10	06	16.76	+07	55	16.2	0.0	0			095
937		1979	03	29.84877	10	08	01.08	+05	42	37.4	0.2-	2+			095
470		1979	03	29.84877	10	14	17.81	+09	37	53.6	0.3-	1+			095
114		1979	03	29.84877	10	16	04.49	+11	08	56.0	0.1-	1+		1	095
2358		1979	03	29.84877	10	17	17.15	+11	05	55.1			17.0	1	095
1928	QB	1979	03	29.84877	10	17	38.83	+04	16	46.9			17.0		095
1307		1979	03	29.84877	10	19	52.32	+03	59	01.9	0.3-	1+		1	095
1979	FK2 *	1979	03	29.84877	10	20	41.52	+05	34	36.6			16.8	1	095
1590		1979	03	29.84877	10	22	27.20	+03	41	24.0	0.5-	2+		1	095
1687		1979	03	29.91312	11	41	26.69	+06	01	33.1	0.2-	2+		1	095
1979	FS1	1979	03	29.91312	11	44	09.67	+04	10	29.3			16.5	1	095
1979	FT1	1979	03	29.91312	11	46	47.64	+05	13	53.5			17.2		095
2160		1979	03	29.91312	11	47	53.54	+04	31	09.4	0.3+	1-			095
421		1979	03	29.91312	11	48	03.16	-00	06	14.7	0.6-	3+			095
1979	FV1	1979	03	29.91312	11	48	40.99	-01	07	54.6			17.5	1	095
958		1979	03	29.91312	11	52	07.98	-01	40	25.4	0.1-	1+		1	095
1979	FX1	1979	03	29.91312	11	52	18.43	+02	24	21.0			16.5		095
1979	FZ1	1979	03	29.91312	11	52	22.74	+04	30	05.8			16.5		095
1979	FL2 *	1979	03	29.91312	11	53	49.09	+07	13	37.6			16.0		095
257		1979	03	29.91312	11	54	21.14	+03	48	15.2	0.1-	0			095
1979	FB2	1979	03	29.91312	11	55	52.86	+00	50	26.0			17.0		095
147		1979	03	29.91312	11	56	27.85	-02	23	06.5	0.0	1+		1	095
1979	FM2 *	1979	03	29.91312	11	58	05.94	+06	24	43.8			17.5	1	095
1121		1979	03	29.91312	11	58	08.05	-00	42	55.1	0.1-	2-			095
841		1979	03	29.91312	12	01	08.00	-01	24	31.4	0.2-	0		1	095
1043		1979	03	29.91312	12	01	57.65	+05	08	49.5	0.0	1+			095
1976	QG1	1979	03	29.91312	12	02	01.66	+00	53	59.2			16.8		095
1979	FN2 *	1979	03	29.91312	12	03	48.22	-02	19	20.9			17.5	1	095
1979	FD2	1979	03	29.91312	12	05	57.14	+03	10	27.6			16.8		095
6545	P-L	1979	03	29.91312	12	06	48.23	+03	03	47.6			16.8		095
1979	FE2	1979	03	29.91312	12	07	27.98	+04	21	17.6			16.0		095
1979	FO2 *	1979	03	29.91312	12	08	15.56	+01	06	23.0			17.0		095
1979	FG2	1979	03	29.91312	12	08	22.19	+01	05	02.7			17.0		095
1979	FH2	1979	03	29.91312	12	12	20.36	+04	40	59.8			17.5	1	095
1091		1979	03	29.91312	12	13	32.38	+00	15	56.8	0.1-	1+		1	095
1979	FJ2	1979	03	29.91312	12	14	50.72	+02	58	57.7			17.0	1	095
490		1979	03	29.91312	12	15	16.30	+00	01	52.0	0.0	0		1	095
245		1979	03	29.97908	13	52	27.85	-06	57	46.8	0.0	0		1	095
1447		1979	03	29.97908	13	54	40.47	-09	48	42.1	0.1+	1-		1	095
1979	FP2 *	1979	03	29.97908	13	54	59.20	-08	18	25.4			16.5	1	095
1975	VD2	1979	03	29.97908	13	55	33.29	-08	39	41.3			16.6	1	095
1979	FQ2 *	1979	03	29.97908	14	01	14.69	-02	15	35.9			16.8		095
974		1979	03	29.97908	14	03	04.14	-04	38	14.7	0.1+	0			095
296		1979	03	29.97908	14	03	44.05	-09	39	40.7	0.3+	2-		1	095
1979	FR2 *	1979	03	29.97908	14	05	37.59	-08	22	32.2			16.5		095
1979	FS2 *	1979	03	29.97908	14	06	45.48	-05	01	26.2			16.7		095
1979	FT2 *	1979	03	29.97908	14	10	19.30	-07	38	48.8			16.7		095
1041		1979	03	29.97908	14	13	47.13	-01	45	29.0	0.2+	1+			095
40		1979	03	29.97908	14	14	40.11	-06	27	20.5	0.2+	1-			095
1979	FU2 *	1979	03	29.97908	14	15	37.10	-04	52	26.3			16.7		095
2271		1979	03	29.97908	14	16	24.41	-08	38	54.9	0.1-	1+			095
1589		1979	03	29.97908	14	22	44.66	-06	28	27.6	0.0	0		1	095
1159		1979	03	31.77777	09	58	24.76	+14	07	16.0	0.2-	3+			095
846		1979	03	31.77777	10	00	36.00	+11	49	20.5	0.1+	0		1	095
1557		1979	03	31.77777	10	12	08.44	+14	45	41.6	0.2-	2+			095
394		1979	03	31.77777	10	13	22.35	+19	44	12.5	0.2-	1+			095
604		1979	03	31.77777	10	14	07.13	+14	08	11.8	0.1-	1+			095
1979	FV2 *	1979	03	31.77777	10	15	16.46	+15	21	48.9			16.8		095
114		1979	03	31.77777	10	15	32.39	+11	16	52.6	0.3-	1+		1	095

1979	FW2	*	1979	03	31.77777	10	17	15.28	+18	07	49.5			16.7	095
1397			1979	03	31.77777	10	17	31.19	+15	56	13.8	0.3-	2+		095
1979	FX2	*	1979	03	31.77777	10	17	56.78	+15	38	03.0			16.5	095
2179			1979	03	31.77777	10	18	48.14	+18	59	25.5	0.3-	1+		095
769			1979	03	31.77777	10	20	29.35	+19	06	15.6	0.1-	1+		095
1012			1979	03	31.77777	10	21	24.14	+17	06	40.6	0.3-	3+		095
936			1979	03	31.77777	10	23	43.52	+13	17	46.3	0.1-	1+		095
1094			1979	03	31.77777	10	25	45.02	+17	16	14.2	0.3-	2+		095
1979	FY2	*	1979	03	31.77777	10	30	53.69	+15	29	18.6			16.0	1 095
228			1979	03	31.84374	10	23	54.44	+07	44	29.2	0.3-	2+		1 095
1698			1979	03	31.84374	10	28	37.79	+11	06	30.2	0.3-	1+		095
212			1979	03	31.84374	10	28	42.70	+06	04	11.8	0.2-	1+		1 095
1645			1979	03	31.84374	10	34	11.96	+07	33	04.6	0.2-	1+		095
975			1979	03	31.84374	10	34	24.39	+12	07	38.1	0.0	0		1 095
1425			1979	03	31.84374	10	42	31.72	+03	00	36.5	0.3-	1+		1 095
851			1979	03	31.84374	10	44	28.25	+10	31	08.5	0.4-	2+		095
102			1979	03	31.84374	10	46	57.04	+02	44	58.7	0.3-	1+		1 095
1305			1979	03	31.84374	10	50	49.91	+10	51	38.0	0.3-	2+		095
1784			1979	03	31.84374	10	51	22.78	+09	46	06.8	0.4-	2+		095
1443			1979	03	31.84374	10	52	22.04	+06	58	16.3	0.3-	1+		095
2032			1979	03	31.84374	10	59	47.46	+07	50	43.9	0.2-	1+		1 095
1354			1979	03	31.84374	11	02	23.52	+11	41	29.0	0.4-	3+		3 095
2003			1979	03	31.91664	12	19	21.36	+00	36	04.6	0.1-	1+		1 095
848			1979	03	31.91664	12	19	47.18	-02	42	13.8	0.0	0		1 095
373			1979	03	31.91664	12	20	48.66	-03	51	08.1	0.0	0		1 095
1007			1979	03	31.91664	12	21	10.13	-05	55	38.7	0.0	1-		1 095
570			1979	03	31.91664	12	22	25.53	-04	01	19.1	0.1-	0		1 095
1494			1979	03	31.91664	12	23	46.30	-03	04	52.8	0.1-	1+		1 095
1977	RX7		1979	03	31.91664	12	24	52.35	-02	13	36.8			17.5	1 095
1979	FZ2	*	1979	03	31.91664	12	25	44.92	-00	07	39.3			17.5	1 095
1979	FA3	*	1979	03	31.91664	12	26	39.95	+00	32	59.1			16.5	1 095
1979	FB3	*	1979	03	31.91664	12	26	40.81	-05	23	06.3			17.3	1 095
1739			1979	03	31.91664	12	27	03.13	-04	32	11.3	0.1-	0		1 095
1111			1979	03	31.91664	12	27	33.56	+01	58	12.3	0.3-	0		1 095
2072			1979	03	31.91664	12	27	42.04	-00	23	10.7	0.1-	1+		095
168			1979	03	31.91664	12	28	03.41	-05	12	35.1	0.1+	1-		1 095
1979	FC3	*	1979	03	31.91664	12	29	01.93	-03	56	43.3			17.0	095
316			1979	03	31.91664	12	32	40.23	-00	11	26.0	0.0	1+		095
1979	FD3	*	1979	03	31.91664	12	32	55.81	+02	05	48.5			17.0	095
1979	FE3	*	1979	03	31.91664	12	33	31.76	-03	09	59.0			17.5	095
1979	FF3	*	1979	03	31.91664	12	34	00.54	-02	52	21.4			17.5	095
1979	FG3	*	1979	03	31.91664	12	34	02.06	+01	19	09.1			17.4	095
1081			1979	03	31.91664	12	35	25.69	-01	28	18.2	0.1-	1+		095
311			1979	03	31.91664	12	35	32.26	+01	16	35.1	0.1-	1+		095
1979	FH3	*	1979	03	31.91664	12	35	37.80	+00	06	51.4			17.2	095
1979	FJ3	*	1979	03	31.91664	12	35	39.16	+01	18	30.2			17.3	095
1979	GF		1979	03	31.91664	12	36	16.48	-01	42	53.0			17.1	095
1979	KX		1979	03	31.91664	12	36	28.72	-03	19	07.8			17.2	095
1979	GE		1979	03	31.91664	12	36	38.98	-01	52	30.7			17.4	095
1979	FK3	*	1979	03	31.91664	12	37	12.57	-04	16	42.2			17.3	095
1979	FL3	*	1979	03	31.91664	12	38	04.49	-05	41	58.8			16.4	1 095
1979	FM3	*	1979	03	31.91664	12	38	28.91	+00	22	23.5			16.6	095
1623			1979	03	31.91664	12	39	26.44	-00	30	09.0	0.0	0		095
1979	FN3	*	1979	03	31.91664	12	41	01.54	-02	35	33.6			17.5	095
1979	FO3	*	1979	03	31.91664	12	42	08.81	+02	34	40.3			17.5	095
1748			1979	03	31.91664	12	43	01.06	-00	27	46.2	0.0	0		095
1979	FP3	*	1979	03	31.91664	12	43	32.17	-00	57	14.6			17.8	095
1979	FQ3	*	1979	03	31.91664	12	44	23.66	+00	29	54.1			17.5	095
1979	FR3	*	1979	03	31.91664	12	45	14.04	-02	55	59.2			17.1	095



1979	FS3	*	1979	03	31.91664	12	46	55.21	+02	11	16.8			17.0	095
339			1979	03	31.91664	12	47	03.71	-00	23	12.2	0.3+	0		095
1959	RJ		1979	03	31.91664	12	48	07.35	-00	51	36.4			17.0	095
1979	FT3	*	1979	03	31.91664	12	48	14.29	-03	56	45.5			17.5	095
1939	BF		1979	03	31.91664	12	49	50.41	-05	27	07.1			17.5	1 095
1551			1979	03	31.91664	12	51	32.49	+01	10	40.2	0.1-	1+		095
1217			1979	03	31.91664	12	52	00.08	+01	42	00.6	0.0	1+		095
1979	FU3	*	1979	03	31.91664	12	52	11.07	+00	46	42.2			17.9	095
268			1979	03	31.91664	12	54	46.82	-01	54	12.7	0.1+	1-		1 095
1043			1979	04	20.79174	11	49	13.36	+07	03	20.0	0.2-	2-		1 095
1979	FG2		1979	04	20.79174	11	50	09.01	+02	43	30.5			17.0	1 095
6545	P-L		1979	04	20.79174	11	50	30.09	+03	36	04.7			17.0	1 095
1980	GC		1979	04	20.79174	11	51	42.89	+07	02	09.6			17.8	1 095
1979	FD2		1979	04	20.79174	11	52	19.34	+04	52	14.2			17.0	1 095
1979	HP1	*	1979	04	20.79174	11	53	39.91	+06	44	12.3			17.8	1 095
1514			1979	04	20.79174	11	54	11.81	+05	57	19.9	0.3-	2+		1 095
1979	FE2		1979	04	20.79174	11	54	30.74	+07	48	02.2			16.5	1 095
864			1979	04	20.79174	11	55	38.67	+04	30	52.1	0.3-	2+		1 095
1979	HQ1	*	1979	04	20.79174	11	56	05.58	+07	02	29.7			17.0	1 095
1979	FH2		1979	04	20.79174	11	56	23.95	+05	43	17.7			17.5	095
1979	HR1	*	1979	04	20.79174	11	57	32.18	+03	48	49.8			17.8	095
1979	FJ2		1979	04	20.79174	12	00	10.03	+04	26	10.7			17.0	095
1091			1979	04	20.79174	12	00	16.57	+01	36	36.4	0.2-	2+		095
1033			1979	04	20.79174	12	01	16.29	-00	08	09.3	0.1-	1+		1 095
1979	HS1	*	1979	04	20.79174	12	02	00.23	+05	02	00.3			17.2	095
490			1979	04	20.79174	12	02	10.48	+02	08	18.1	0.0	1+		095
1979	HT1	*	1979	04	20.79174	12	02	24.66	+05	56	56.9			17.6	095
1895			1979	04	20.79174	12	04	20.38	+01	10	58.1	0.2-	1+		1 095
868			1979	04	20.79174	12	04	25.38	+08	09	13.0	0.2-	2+		095
1979	HU1	*	1979	04	20.79174	12	05	37.22	+01	10	52.6			17.8	1 095
1979	HV1	*	1979	04	20.79174	12	05	59.20	+03	44	46.6			16.0	095
2003			1979	04	20.79174	12	06	06.30	+01	47	35.8	0.2-	2+		095
1979	HW1	*	1979	04	20.79174	12	06	14.95	+06	27	01.8			16.8	095
1979	HX1	*	1979	04	20.79174	12	06	35.58	+01	03	32.6			18.0	1 095
1979	HY1	*	1979	04	20.79174	12	07	25.08	+05	41	35.8			16.5	095
5			1979	04	20.79174	12	07	42.24	+06	51	50.4	0.3-	3+		095
1977	RX7		1979	04	20.79174	12	08	48.54	+00	15	56.1			17.0	1 095
1979	HZ1	*	1979	04	20.79174	12	09	03.15	+06	28	38.6			17.0	095
1979	HA2	*	1979	04	20.79174	12	09	14.24	+02	48	04.6			16.8	095
2072			1979	04	20.79174	12	10	42.70	+00	45	20.1	0.3-	1+	17.5	1 095
1979	HB2	*	1979	04	20.79174	12	11	18.42	+03	39	21.0			17.6	095
1979	HC2	*	1979	04	20.79174	12	11	20.34	+02	14	23.8			17.8	095
1979	HD2	*	1979	04	20.79174	12	12	05.31	+01	56	06.5			17.6	095
2194			1979	04	20.79174	12	12	09.90	+07	34	28.5	0.3-	2-	16.5	095
1111			1979	04	20.79174	12	14	05.72	+03	26	50.7	0.3-	2+		095
1979	FA3		1979	04	20.79174	12	15	20.93	+04	16	27.5			16.5	095
1979	HE2	*	1979	04	20.79174	12	16	49.78	+03	55	04.3			17.0	095
1979	HF2	*	1979	04	20.79174	12	17	33.89	+06	46	43.4			16.5	095
316			1979	04	20.79174	12	19	21.02	+01	13	18.0	0.2-	1+		1 095
311			1979	04	20.79174	12	20	55.68	+02	34	07.2	0.2-	1+		095
1081			1979	04	20.79174	12	21	25.83	-00	18	34.3	0.2-	1+		1 095
1623			1979	04	20.79174	12	25	44.67	+00	54	53.3	0.2-	1+		1 095
1623			1979	04	24.79465	12	23	28.50	+01	07	40.6	0.1-	1+		1 095
1979	HG2	*	1979	04	24.79465	12	28	47.88	-01	31	45.1			17.3	095
1748			1979	04	24.79465	12	29	38.27	+00	57	29.8	0.1-	0		095
1959	RJ		1979	04	24.79465	12	29	57.63	+01	25	09.2			17.3	095
1551			1979	04	24.79465	12	31	11.38	+03	08	03.0	0.3-	2+		095
339			1979	04	24.79465	12	31	17.84	+02	07	21.0	0.1+	0		095
1217			1979	04	24.79465	12	33	29.44	+04	26	26.3	0.2-	2+		1 095

1979	HH2	*	1979	04	24.79465	12	36	18.00	+01	23	48.2			17.5	095	
268			1979	04	24.79465	12	38	12.28	-00	09	30.5	0.1-	0		095	
1185			1979	04	24.79465	12	40	30.07	+03	54	44.7	0.2-	2+		095	
1513			1979	04	24.79465	12	41	16.01	+02	59	22.2	0.2-	2+		095	
1979	HJ2	*	1979	04	24.79465	12	42	59.46	-00	43	05.7			17.2	095	
1979	HK2	*	1979	04	24.79465	12	45	15.05	-03	11	45.7			17.6	095	
1736			1979	04	24.79465	12	46	25.31	+00	06	47.7	0.2-	2+		095	
1979	HN1		1979	04	24.79465	12	46	57.37	-02	36	24.6			17.0	095	
1979	HM1		1979	04	24.79465	12	47	18.84	-03	28	13.8			17.1	1 095	
59			1979	04	24.79465	12	47	36.55	+01	20	50.6	0.1-	3+		095	
62			1979	04	24.79465	12	49	36.08	-02	11	18.3	0.1-	1+		095	
1295			1979	04	24.79465	12	50	44.84	-04	21	40.2	0.1-	0		095	
553			1979	04	24.79465	12	53	09.91	+01	57	20.5	0.2-	1+		095	
1979	HL2	*	1979	04	24.79465	12	57	14.85	+01	04	35.7			17.3	1 095	
1979	HM2	*	1979	04	24.86168	12	22	31.52	-02	17	42.0			17.5	1 095	
1623			1979	04	24.86168	12	23	26.38	+01	07	51.7	0.1-	1+		1 095	
1979	HG2		1979	04	24.86168	12	28	45.52	-01	31	33.6			17.3	095	
268			1979	04	24.86168	12	38	09.87	-00	09	18.4	0.2-	0		095	
158			1979	04	24.86168	12	40	29.98	-05	56	33.3	0.2-	0		095	
1979	HN2	*	1979	04	24.86168	12	40	53.22	-03	21	41.1			17.2	095	
1979	HJ2		1979	04	24.86168	12	42	56.72	-00	42	51.1			17.1	095	
1979	HK2		1979	04	24.86168	12	45	12.28	-03	11	30.8			17.2	095	
1736			1979	04	24.86168	12	46	21.89	+00	07	11.2	0.3-	1+		095	
1979	HN1		1979	04	24.86168	12	46	54.86	-02	35	58.4			16.8	095	
1979	HM1		1979	04	24.86168	12	47	15.35	-03	28	03.9			16.5	095	
59			1979	04	24.86168	12	47	33.70	+01	21	11.2	0.1-	3+		1 095	
359			1979	04	24.86168	12	48	17.14	-07	54	03.3	0.1-	0		1 095	
62			1979	04	24.86168	12	49	33.40	-02	11	02.2	0.1-	0		095	
1295			1979	04	24.86168	12	50	42.39	-04	21	23.7	0.1-	0		095	
1979	HO2	*	1979	04	24.86168	12	52	39.30	-06	37	06.0			17.5	095	
1979	HO1		1979	04	24.86168	12	58	40.50	-03	19	17.6			16.5	1 095	
1979	HP2	*	1979	04	24.86168	13	00	06.39	-02	07	23.0			17.5	1 095	
1979	HQ2	*	1979	04	24.86168	13	00	11.17	-01	08	38.7			17.2	1 095	
1976	QG1		1979	04	25.78079	11	46	05.59	+02	50	16.3			17.0	1 095	
1043			1979	04	25.78079	11	47	15.36	+07	20	13.4	0.2-	1+		1 095	
1979	FG2		1979	04	25.78079	11	47	31.55	+02	54	56.5			17.0	1 095	
1979	HR2	*	1979	04	25.78079	11	50	20.40	+01	05	07.2			17.4	095	
1979	FD2		1979	04	25.78079	11	50	52.37	+05	01	03.8			16.7	095	
1514			1979	04	25.78079	11	51	12.48	+06	16	29.4	0.1-	2+		095	
1979	FE2		1979	04	25.78079	11	52	47.00	+08	20	39.6			16.5	1 095	
1979	FH2		1979	04	25.78079	11	53	56.05	+05	47	22.9			16.9	095	
1979	HS2	*	1979	04	25.78079	11	57	39.14	+04	38	33.8			17.0	095	
1091			1979	04	25.78079	11	58	03.47	+01	49	04.6	0.1-	1+		095	
1033			1979	04	25.78079	11	59	02.75	+00	19	17.2	0.1-	2-		1 095	
490			1979	04	25.78079	11	59	57.33	+02	30	37.3	0.0	0		095	
868			1979	04	25.78079	12	01	47.63	+08	19	13.8	0.0	0		1 095	
1895			1979	04	25.78079	12	01	58.53	+01	22	24.0	0.2-	0		095	
1494			1979	04	25.78079	12	03	29.85	-00	25	46.4	0.0	0		1 095	
1979	HW1		1979	04	25.78079	12	03	41.16	+06	54	03.1			16.5	095	
2003			1979	04	25.78079	12	03	44.12	+01	58	19.6	0.1-	1+		095	
848			1979	04	25.78079	12	04	02.24	-00	53	36.3	0.0	1-		1 095	
1979	HT2	*	1979	04	25.78079	12	04	15.25	+04	25	25.1			16.6	095	
1979	HU2	*	1979	04	25.78079	12	04	25.92	+08	34	49.1			17.5	1 095	
1979	HV2	*	1979	04	25.78079	12	04	59.70	+01	59	38.7			17.1	095	
1979	HW2	*	1979	04	25.78079	12	05	20.68	+05	42	29.6			16.9	095	
5			1979	04	25.78079	12	05	47.88	+07	02	11.2	0.2-	1+		095	
1979	HZ1		1979	04	25.78079	12	05	48.88	+06	45	20.4			17.0	095	
2072			1979	04	25.78079	12	07	31.27	+00	55	14.7	0.1-	0		17.5	095
1979	HC2		1979	04	25.78079	12	08	25.45	+02	31	28.2			17.3	095	

2194		1979	04	25.78079	12	08	50.17	+07	24	03.8	0.2-	1+	16.6	2	095
1111		1979	04	25.78079	12	11	24.60	+03	42	24.0	0.2-	1+			095
1979	FA3	1979	04	25.78079	12	13	21.53	+05	01	51.6			16.8		095
1979	HX2 *	1979	04	25.78079	12	14	18.01	+06	37	18.0			16.7	1	095
	316	1979	04	25.78079	12	16	42.83	+01	28	33.4	0.0	1+			095
	311	1979	04	25.78079	12	18	01.63	+02	46	18.9	0.1-	0			095
	245	1979	04	25.90231	13	33	05.14	-05	23	38.1	0.0	0			095
	205	1979	04	25.90231	13	33	45.02	-10	42	04.5	0.1+	1-			095
1979	HY2 *	1979	04	25.90231	13	34	41.13	-08	07	28.1			16.5	1	095
1979	HZ2 *	1979	04	25.90231	13	34	55.31	-07	20	07.2			17.0	1	095
1975	VD2	1979	04	25.90231	13	35	58.90	-06	52	57.2			16.9	1	095
1979	HA3 *	1979	04	25.90231	13	36	24.55	-04	28	33.6			17.3	1	095
1979	HB3 *	1979	04	25.90231	13	38	08.85	-05	11	41.7			17.8	1	095
	296	1979	04	25.90231	13	38	27.55	-07	10	31.8	0.3+	2-			095
1979	HC3 *	1979	04	25.90231	13	38	59.70	-01	04	49.8			17.4	1	095
1979	FQ2	1979	04	25.90231	13	39	25.16	-01	21	00.8			17.0	1	095
1979	HD3 *	1979	04	25.90231	13	39	47.65	-05	55	30.8			17.5		095
1979	HE3 *	1979	04	25.90231	13	39	52.70	-07	18	57.0			17.6		095
	974	1979	04	25.90231	13	40	04.28	-02	40	34.6	0.1+	0			095
1979	FR2	1979	04	25.90231	13	40	57.23	-07	01	18.7			16.5		095
1979	HF3 *	1979	04	25.90231	13	41	34.22	-06	56	45.6			17.5		095
1979	HG3 *	1979	04	25.90231	13	41	40.08	-07	20	25.7			17.4		095
1979	FT2	1979	04	25.90231	13	43	50.44	-06	45	12.9			16.6		095
1979	HH3 *	1979	04	25.90231	13	43	55.78	-07	35	27.6			16.7		095
1979	HJ3 *	1979	04	25.90231	13	44	33.03	-01	02	16.0			17.6	1	095
1979	HK3 *	1979	04	25.90231	13	45	30.90	-08	30	46.8			17.5		095
1979	HL3 *	1979	04	25.90231	13	46	02.97	-05	06	12.2			16.8		095
1979	HM3 *	1979	04	25.90231	13	47	01.39	-02	07	49.4			17.7	1	095
1979	HN3 *	1979	04	25.90231	13	47	17.08	-08	43	57.5			17.4		095
1979	HO3 *	1979	04	25.90231	13	47	18.68	-09	39	50.0			18.0	1	095
1979	FS2	1979	04	25.90231	13	47	53.59	-03	01	57.7			17.0		095
2073		1979	04	25.90231	13	49	37.68	-07	19	56.1	0.0	1+			095
1979	HP3 *	1979	04	25.90231	13	49	44.39	-09	31	29.2			17.0	1	095
1979	HQ3 *	1979	04	25.90231	13	50	00.52	-08	17	12.6			17.5		095
	40	1979	04	25.90231	13	50	15.74	-04	17	03.6	0.0	0			095
1979	HR3 *	1979	04	25.90231	13	51	17.84	-06	23	46.8			18.0		095
1979	HS3 *	1979	04	25.90231	13	51	40.25	-06	15	33.8			18.0		095
1979	FU2	1979	04	25.90231	13	53	46.07	-04	30	51.6			16.7		095
1965		1979	04	25.90231	13	54	30.64	-08	38	27.0	0.1-	1+			095
1097		1979	04	25.90231	13	56	00.47	-09	12	53.3	0.0	0			095
2271		1979	04	25.90231	13	56	16.60	-06	27	12.5	0.0	2+			095
1979	HT3 *	1979	04	25.90231	13	58	40.89	-08	39	51.9			17.0		095
1979	HU3 *	1979	04	25.90231	13	59	01.70	-01	43	28.9			17.3	1	095
1589		1979	04	25.90231	13	59	45.16	-04	29	57.0	0.2-	1+			095
1976	UW15	1979	04	25.90231	14	02	12.69	-08	43	23.4			16.7		095
1979	HV3 *	1979	04	25.90231	14	02	29.39	-06	11	00.6			17.4		095
1979	HW3 *	1979	04	25.90231	14	02	34.58	-05	41	31.3			17.2		095
1668		1979	04	25.90231	14	03	06.20	-06	45	43.0	0.0	0			095
1979	HX3 *	1979	04	25.90231	14	03	33.00	-04	41	00.5			16.5		095
	555	1979	04	25.90231	14	06	51.55	-08	42	23.8	0.1-	1+			095
	258	1979	04	25.90231	14	09	20.38	-10	25	05.0	0.0	0			095
	727	1979	04	29.00339	16	30	46.46	-00	03	23.3	0.3+	1+			095
	6	1979	04	29.00339	16	33	46.45	+00	06	54.3	0.2+	1+			095
1979	HY3 *	1979	04	29.00339	16	34	44.57	-01	53	14.4			17.5		095
1979	HZ3 *	1979	04	29.00339	16	37	09.19	+03	09	21.2			17.5		095
	386	1979	04	29.00339	16	39	31.38	+04	32	36.2	0.1+	1+			095
1628		1979	04	29.00339	16	42	22.80	+00	59	25.6	0.6+	0			095
1447		1979	04	30.86134	13	26	02.55	-08	08	31.1	0.3-	0			095
245		1979	04	30.86134	13	29	34.55	-05	08	28.5	0.1-	2+			095

1979 HA3	1979 04 30.86134	13 30 58.50	-04 30 35.5			17.3	1	095
1979 HY2	1979 04 30.86134	13 30 58.86	-07 49 46.0			16.6	1	095
1979 HZ2	1979 04 30.86134	13 31 07.77	-07 02 35.5			17.3	1	095
1975 VD2	1979 04 30.86134	13 32 19.01	-06 34 26.8			17.0	1	095
296	1979 04 30.86134	13 33 43.22	-06 44 16.5	0.0	0		1	095
1979 HC3	1979 04 30.86134	13 35 02.73	-00 28 01.4			17.3	1	095
1979 FQ2	1979 04 30.86134	13 35 21.14	-01 17 00.1			16.8		095
1979 HE3	1979 04 30.86134	13 35 33.26	-07 06 18.9			16.9		095
974	1979 04 30.86134	13 35 47.86	-02 23 59.7	0.1-	2+			095
1979 HD3	1979 04 30.86134	13 36 04.65	-05 34 24.9			17.5		095
1979 HF3	1979 04 30.86134	13 36 10.02	-06 42 15.5			17.5		095
1979 HA4 *	1979 04 30.86134	13 36 22.44	-08 58 42.1			17.2	1	095
1979 FR2	1979 04 30.86134	13 36 23.40	-06 48 50.3			16.5		095
1979 FT2	1979 04 30.86134	13 38 42.79	-06 38 32.6			16.7		095
1979 HH3	1979 04 30.86134	13 38 59.65	-07 29 06.0			16.9		095
1979 HB4 *	1979 04 30.86134	13 42 32.84	-03 40 13.3			17.0		095
1979 FS2	1979 04 30.86134	13 44 17.69	-02 43 45.8			17.0		095
1979 HC4 *	1979 04 30.86134	13 44 34.46	-03 31 34.3			16.8		095
1979 HD4 *	1979 04 30.86134	13 44 38.27	-05 37 37.2			17.5		095
40	1979 04 30.86134	13 45 27.86	-03 57 31.5	0.1-	1-			095
2073	1979 04 30.86134	13 45 30.55	-07 00 57.7	0.1-	1+			095
1979 HQ3	1979 04 30.86134	13 46 25.89	-07 59 45.3			17.6	1	095
1979 HE4 *	1979 04 30.86134	13 48 37.44	-04 54 42.2			16.0	4	095
1041	1979 04 30.86134	13 49 24.24	-00 36 02.7	0.1-	1+		1	095
1979 FU2	1979 04 30.86134	13 49 26.99	-04 30 30.9			16.8		095
1965	1979 04 30.86134	13 50 09.97	-08 17 22.4	0.2-	1+		1	095
1097	1979 04 30.86134	13 51 21.78	-08 46 33.0	0.1-	0		1	095
2271	1979 04 30.86134	13 52 14.36	-06 04 26.8	0.1-	3+	17.0		095
1979 HF4 *	1979 04 30.86134	13 54 34.38	-01 15 52.7			17.0		095
1979 HT3	1979 04 30.86134	13 55 02.23	-08 19 56.4			16.9	1	095
1589	1979 04 30.86134	13 55 06.34	-04 11 37.7	0.3-	2+			095
1976 UW15	1979 04 30.86134	13 58 09.91	-08 25 46.0				1	095
1979 HG4 *	1979 04 30.86134	13 58 54.75	-02 12 46.6			17.5		095
1668	1979 04 30.86134	13 59 06.93	-06 20 48.9	0.1-	0			095
1979 HX3	1979 04 30.86134	14 00 14.23	-03 37 25.8			16.6	3	095
555	1979 04 30.86134	14 03 05.43	-08 22 31.9	0.1-	0		1	095
1043	1979 05 01.83897	11 45 28.92	+07 35 24.8	0.4-	0		1	095
278	1979 05 01.83897	11 51 55.15	+10 45 05.4	0.2-	3-		1	095
1979 JC *	1979 05 01.83897	11 52 59.46	+08 28 18.5			16.5		095
490	1979 05 01.83897	11 57 47.32	+02 53 29.5	0.1-	0			095
868	1979 05 01.83897	11 59 15.24	+08 25 44.9	0.0	2-			095
1979 JD *	1979 05 01.83897	12 01 13.33	+07 20 30.8			16.7		095
1979 JE *	1979 05 01.83897	12 03 48.71	+05 12 30.2			16.8		095
5	1979 05 01.83897	12 04 22.06	+07 06 49.7	0.5-	3+			095
1979 JF *	1979 05 01.83897	12 04 27.33	+09 18 48.8			17.5		095
202	1979 05 01.83897	12 05 23.38	+10 18 58.2	0.2-	2+		1	095
2194	1979 05 01.83897	12 05 44.23	+07 04 55.4	0.5-	2+	16.5		095
1111	1979 05 01.83897	12 08 41.60	+03 56 54.1	0.4-	2+			095
1979 JG *	1979 05 01.83897	12 13 53.45	+07 04 12.5			16.7		095
316	1979 05 01.83897	12 14 03.20	+01 43 02.3	0.3-	2+		1	095
311	1979 05 01.83897	12 15 07.21	+02 56 22.2	0.3-	2+			095
1979 JH *	1979 05 01.83897	12 19 55.19	+09 23 33.1			16.8	1	095
1975 VD2	1979 05 01.92057	13 31 33.48	-06 30 39.5			16.5	1	095
974	1979 05 01.92057	13 34 55.11	-02 20 50.2	0.1-	1+		1	095
1979 FT2	1979 05 01.92057	13 37 39.52	-06 37 27.7			16.7		095
40	1979 05 01.92057	13 44 28.35	-03 53 46.4	0.1-	2+			095
1979 HE4	1979 05 01.92057	13 47 56.04	-04 33 11.8			16.8		095
1965	1979 05 01.92057	13 49 15.73	-08 13 08.5	0.1-	1+			095
1097	1979 05 01.92057	13 50 23.10	-08 41 07.2	0.0	1+			095

2271		1979	05	01.92057	13	51	23.81	-05	59	51.5	0.0	3+		095
1589		1979	05	01.92057	13	54	08.29	-04	08	00.2	0.3-	3+		095
1979	HT3	1979	05	01.92057	13	54	16.63	-08	15	52.8			16.7	095
1976	UW15	1979	05	01.92057	13	57	19.21	-08	22	12.2			16.7	095
1979	HX3	1979	05	01.92057	13	59	32.90	-03	24	29.3			16.5	095
555		1979	05	01.92057	14	02	18.48	-08	18	32.1	0.0	0		095
258		1979	05	01.92057	14	04	24.26	-09	35	06.0	0.0	0		1 095
216		1979	05	26.91102	16	43	42.11	-11	35	02.6	0.1+	0		1 095
253		1979	05	26.91102	16	55	25.02	-11	45	01.2	0.0	0		1 095
1783		1979	05	26.91102	16	56	53.15	-06	43	27.3	0.1+	0		095
1979	KB1 *	1979	05	26.91102	16	57	53.47	-09	41	02.3			17.5	095
252		1979	05	26.91102	17	01	07.73	-11	31	50.5	0.0	1-		1 095
537		1979	05	26.91102	17	01	21.04	-10	16	18.7	0.0	0		1 095
850		1979	05	26.91102	17	04	34.15	-03	29	21.3	0.0	1+		095
1723		1979	05	26.91102	17	08	46.78	-07	05	45.3	0.1+	0		095
1275		1979	05	26.91102	17	09	37.48	-05	22	10.5	0.0	0		095
456		1979	06	26.84733	16	03	37.17	-09	58	48.8	0.6-	1+		095
242		1979	06	26.84733	16	04	59.27	-09	19	27.2	0.1-	0		095
689		1979	06	26.84733	16	17	10.72	-11	24	36.8	0.2-	1+		095
216		1979	06	26.84733	16	18	57.54	-09	46	08.0	0.0	1+		095
1874		1979	06	26.84733	16	20	57.45	-14	18	48.0	0.0	0		095
253		1979	06	26.84733	16	28	00.04	-10	31	28.9	0.1-	1+		095
537		1979	06	26.84733	16	36	24.63	-11	18	51.0	0.1-	1+		1 095
826		1979	06	26.84733	16	36	49.70	-15	22	18.4	0.6-	1+		1 095
252		1979	06	26.84733	16	38	16.59	-10	14	57.4	0.0	0		1 095
537		1979	06	27.85037	16	35	44.59	-11	22	48.5	0.2-	1+		1 095
252		1979	06	27.85037	16	37	39.00	-10	13	58.0	0.1-	1+		1 095
850		1979	06	27.85037	16	39	09.29	-05	33	20.7	0.2-	2+		095
1275		1979	06	27.85037	16	43	03.53	-04	07	01.8	0.0	1+		095
1723		1979	06	27.85037	16	44	23.63	-07	12	32.4	0.1-	1+		095
1979	MG9 *	1979	06	27.85037	16	48	42.45	-06	43	36.1			16.5	095
1979	MH9 *	1979	06	27.85037	16	51	50.20	-11	56	39.7			16.5	1 095
1428		1979	06	27.85037	16	56	51.59	-07	34	40.4	0.1-	0		095
1979	MJ9 *	1979	06	27.85037	16	56	52.02	-09	54	23.8			16.0	095
1979	MK9 *	1979	06	27.85037	17	00	39.06	-06	16	38.9			15.5	095
1979	ML9 *	1979	06	27.85037	17	02	28.25	-05	43	25.3			16.5	095
1215		1979	06	27.85037	17	02	45.35	-06	28	11.6	0.1-	1+		095
2020		1979	06	27.85037	17	09	38.55	-08	15	37.5	0.1-	0		1 095
510		1979	06	27.85037	17	11	53.59	-07	11	21.3	0.1-	1+		1 095
22		1979	06	28.84054	15	37	08.29	-20	12	45.0				1 095
449		1979	06	28.84054	15	37	44.82	-18	12	26.2				1 095
1594		1979	06	28.84054	15	38	44.25	-22	02	31.6				1 095
355		1979	06	28.84054	15	40	43.59	-25	55	01.4				1 095
389		1979	06	28.84054	15	44	25.95	-25	58	45.8				1 095
367		1979	06	28.84054	15	46	43.77	-19	10	15.4	0.1-	0		095
838		1979	06	28.84054	15	48	25.96	-17	09	58.5	0.3-	1+		1 095
562		1979	06	28.84054	15	50	02.69	-20	22	34.8	0.4-	0		095
1686		1979	06	28.84054	16	04	00.93	-21	39	15.8	0.3-	1+		095
752		1979	06	28.84054	16	05	08.10	-19	17	39.2	0.6-	2+		095
1484		1979	06	28.84054	16	12	15.85	-23	54	15.4	0.3-	1-		095
294		1979	06	28.91339	18	22	29.69	-16	29	54.4	0.0	1+		1 095
418		1979	06	28.91339	18	25	44.06	-18	06	33.4	0.0	0		095
144		1979	06	28.91339	18	36	39.19	-26	06	19.4	0.0	1-		095
1442		1979	06	28.91339	18	39	26.63	-21	28	46.6	0.1-	0		095
437		1979	06	28.91339	18	46	55.13	-18	49	32.3	0.6-	2-		095
1445		1979	06	28.91339	18	47	48.38	-23	36	47.7	0.4+	0		095
551		1979	06	28.91339	18	53	44.81	-23	27	50.1	0.1+	0		1 095
294		1979	07	17.84456	18	07	51.26	-17	28	55.7	0.1-	0		095
418		1979	07	17.84456	18	08	17.59	-17	36	54.4	0.2-	0		095

1979	OU13*	1979	07	17.84456	18	12	25.15	-17	04	41.8			15.5	095
1442		1979	07	17.84456	18	23	01.72	-21	38	31.2	0.2-	0		095
437		1979	07	17.84456	18	29	09.35	-17	03	55.1	0.9-	2-		095
551		1979	07	17.84456	18	37	29.84	-23	45	03.0	0.0	0		095
294		1979	07	19.83932	18	06	34.44	-17	36	02.3	0.2-	0	1	095
418		1979	07	19.83932	18	06	43.98	-17	34	35.8	0.2-	0	1	095
437		1979	07	19.83932	18	27	33.50	-16	54	07.3	1.0-	1-	1	095
1445		1979	07	19.83932	18	29	56.25	-24	08	24.6	0.2+	1+		095
551		1979	07	19.83932	18	35	54.38	-23	46	16.4	0.0	0		095
2404		1979	07	19.83932	18	46	12.66	-22	42	51.3			15.5	1 095
1979	OV13*	1979	07	19.90704	20	23	52.47	-16	48	36.5			15.8	1 095
996		1979	07	19.90704	20	25	27.25	-19	57	07.4	0.1+	0		095
1223		1979	07	19.90704	20	26	28.75	-23	09	45.1	0.1+	0	1	095
1959		1979	07	19.90704	20	27	21.78	-15	37	00.7	0.3+	1+		095
1979	OW13*	1979	07	19.90704	20	28	58.50	-19	34	41.1			16.0	095
1945		1979	07	19.90704	20	29	28.28	-16	03	49.1	0.2+	0		095
1979	OX13*	1979	07	19.90704	20	30	52.66	-18	17	54.0			15.8	095
104		1979	07	19.90704	20	31	00.38	-23	02	52.0	0.0	1-	1	095
1804		1979	07	19.90704	20	31	49.72	-21	34	52.7	0.0	1-		095
442		1979	07	19.90704	20	32	29.56	-16	24	07.4	0.1+	1+		095
1979	OY13*	1979	07	19.90704	20	34	13.10	-15	49	46.1			15.8	095
1057		1979	07	19.90704	20	36	24.72	-14	21	40.6	0.2+	1+	1	095
1979	OZ13*	1979	07	19.90704	20	37	35.91	-16	35	20.9			16.0	095
1979	OA14*	1979	07	19.90704	20	38	31.97	-17	52	05.1			16.0	095
1261		1979	07	19.90704	20	39	16.82	-21	22	42.2	0.1+	0		095
1067		1979	07	19.90704	20	39	35.32	-14	13	18.6	0.1+	1+	1	095
1105		1979	07	19.90704	20	40	47.94	-20	18	10.5	0.4+	1+		095
1979	OB14*	1979	07	19.90704	20	44	35.57	-13	47	51.5			16.5	1 095
1779		1979	07	19.90704	20	45	42.34	-16	32	08.8	0.1+	0		095
710		1979	07	19.90704	20	46	56.06	-17	13	17.5	0.2+	1+		095
2004		1979	07	19.90704	20	48	48.35	-21	55	24.9	0.2+	0	1	095
1979	OC14*	1979	07	19.90704	20	49	28.62	-18	27	33.4			16.8	2 095
163		1979	07	19.90704	20	51	21.16	-13	16	10.4	0.3+	1+	1	095
775		1979	07	19.90704	20	51	26.41	-15	32	40.6	0.0	0		095
301		1979	07	19.90704	20	51	26.47	-15	13	19.7	0.1+	1+		095
1979	OD14*	1979	07	19.90704	20	53	35.63	-19	25	28.1			16.0	095
1725		1979	07	19.90704	20	55	40.81	-17	57	26.5	0.2+	1+	1	095
1423		1979	07	19.90704	20	58	24.00	-21	32	02.2	0.1+	0	1	095
748		1979	07	19.90704	21	01	01.44	-14	52	23.7	0.1+	1+	1	095
310		1979	07	19.97646	21	59	08.04	-07	25	48.7	0.2+	1+	1	095
2141		1979	07	19.97646	21	59	23.88	-05	08	36.8	0.4+	1+	1	095
1979	OE14*	1979	07	19.97646	22	02	43.85	-11	38	41.0			17.0	1 095
1979	OF14*	1979	07	19.97646	22	04	09.06	-12	32	32.2			16.5	1 095
1979	OG14*	1979	07	19.97646	22	09	34.35	-11	11	35.2			17.0	095
465		1979	07	19.97646	22	10	05.91	-08	54	58.4	0.3+	2+		095
433		1979	07	19.97646	22	14	28.94	-07	02	06.7	0.0	0		095
653		1979	07	19.97646	22	16	25.53	-12	58	37.7	0.3+	1+	1	095
1334		1979	07	19.97646	22	17	01.94	-12	36	57.3	0.2+	2+	1	095
1621		1979	07	19.97646	22	17	57.78	-06	42	11.3	0.3+	2+		095
190		1979	07	19.97646	22	19	14.57	-06	20	06.9	0.1+	1+		095
1979	OH14*	1979	07	19.97646	22	20	34.82	-07	46	54.2			16.5	095
1581		1979	07	19.97646	22	21	02.25	-12	32	38.2	0.1+	0	1	095
1257		1979	07	19.97646	22	21	11.00	-04	05	27.6	0.5+	2+	1	095
1979	QL1	1979	07	19.97646	22	21	44.88	-07	37	06.6			17.0	095
738		1979	07	19.97646	22	21	44.91	-11	08	04.0	0.1+	2+		095
1979	QK2	1979	07	19.97646	22	23	40.40	-07	14	49.0			16.5	095
1764		1979	07	19.97646	22	25	17.32	-09	20	12.0	0.2+	1+		095
1979	OJ14*	1979	07	19.97646	22	29	45.16	-07	28	16.5			17.0	095
1241		1979	07	19.97646	22	29	51.50	-08	48	08.4	0.2+	1+		095

1979	QX3	1979	07	19.97646	22	30	12.47	-10	41	43.7			16.5	095
1979	OK14*	1979	07	19.97646	22	30	25.82	-07	21	26.0			16.5	095
	427	1979	07	19.97646	22	31	39.38	-05	47	54.8	0.1+	0		095
	811	1979	07	19.97646	22	38	25.41	-09	39	25.2				1 095
	801	1979	07	20.84582	18	37	07.91	-01	33	01.3	0.2-	2+		095
1546		1979	07	20.84582	18	44	25.81	-00	58	41.5	0.2-	1+		095
1979	OL14*	1979	07	20.84582	18	58	08.00	-03	05	27.6			16.5	095
1400		1979	07	20.84582	19	00	17.69	+03	23	52.7	0.1-	3+		095
	509	1979	07	20.84582	19	03	00.91	-00	28	49.8	0.0	2+		095
1979	OM14*	1979	07	20.91596	19	21	39.38	-02	14	15.8			15.8	1 095
1979	ON14*	1979	07	20.91596	19	28	50.44	-02	22	48.1			16.2	095
1614		1979	07	20.91596	19	29	56.63	-06	15	03.2	0.1-	1+		1 095
1979	OO14*	1979	07	20.91596	19	34	08.56	-04	00	50.4			16.8	095
2173		1979	07	20.91596	19	39	28.16	-02	01	47.3	0.5-	1+		095
1979	OP14*	1979	07	20.91596	19	40	17.32	-02	07	15.8			17.2	095
	365	1979	07	20.91596	19	44	14.91	-02	35	17.0	0.1-	2+		095
	572	1979	07	20.91596	19	46	29.78	-02	51	18.2	0.0	3+		095
	894	1979	07	20.91596	19	48	48.00	-01	36	05.9	0.1-	2+		095
2326		1979	07	20.91596	19	49	15.90	-06	31	58.8			16.2	1 095
	309	1979	07	20.98714	21	59	29.84	-16	43	33.7	0.3+	0		1 095
	740	1979	07	20.98714	22	17	43.94	-17	17	33.6	0.1+	1-		1 095
2015		1979	07	20.98714	22	18	09.56	-21	43	32.8	0.4+	0		095
1087		1979	07	20.98714	22	18	30.60	-25	23	02.6	0.2+	0		095
	535	1979	07	20.98714	22	23	10.56	-19	04	10.2	0.3+	1+		095
1979	OQ14*	1979	07	20.98714	22	25	47.69	-21	41	24.0			15.5	095
1351		1979	07	20.98714	22	26	24.28	-20	54	28.2	0.2+	1+		095
	964	1979	07	20.98714	22	28	12.60	-22	57	00.4	0.3+	0		095
	532	1979	07	20.98714	22	31	12.06	-22	58	27.3	0.3+	1+		095
1287		1979	07	21.83062	18	03	55.29	-09	55	57.1	0.2-	1+		095
1979	OR14*	1979	07	21.83062	18	09	25.69	-09	17	10.2			17.8	2 095
	34	1979	07	21.83062	18	09	36.35	-15	15	51.3	0.2-	0		1 095
	643	1979	07	21.83062	18	10	02.77	-14	59	49.2	0.3-	0		095
	233	1979	07	21.83062	18	13	04.25	-12	33	50.3	0.2-	1+		095
1881		1979	07	21.83062	18	14	20.81	-09	57	03.9	0.3-	1+		095
1979	OS14*	1979	07	21.83062	18	15	30.38	-08	16	11.8			17.5	095
2052		1979	07	21.83062	18	16	40.38	-10	48	19.6	0.2-	1+		095
	783	1979	07	21.83062	18	20	09.06	-11	57	09.5	0.6-	1+		095
1979	OT14*	1979	07	21.83062	18	21	50.88	-09	33	29.5			17.5	095
1979	OU14*	1979	07	21.83062	18	26	00.44	-09	55	46.1			16.0	095
1201		1979	07	21.83062	18	27	02.84	-12	26	59.6	0.3-	1+		095
	320	1979	07	21.83062	18	30	15.06	-10	35	00.8	0.3-	0		095
1979	OV14*	1979	07	21.83062	18	35	52.35	-10	41	12.6			16.5	1 095
1979	OW14*	1979	07	21.90006	19	38	31.84	-18	23	58.8			17.0	1 095
1888		1979	07	21.90006	19	39	37.16	-14	25	44.4	0.1+	1+		1 095
1979	OX14*	1979	07	21.90006	19	44	50.25	-20	28	47.7			17.0	095
1979	MK1	1979	07	21.90006	19	44	54.38	-17	30	50.1			17.5	095
1979	MK2	1979	07	21.90006	19	48	45.22	-20	14	54.5			17.0	095
1979	OM1	1979	07	21.90006	19	48	48.34	-18	36	41.8			17.0	095
1979	OR7	1979	07	21.90006	19	50	21.97	-20	02	53.6			17.0	095
	287	1979	07	21.90006	19	50	55.63	-13	24	25.2	0.0	1-		1 095
1244		1979	07	21.90006	19	51	51.03	-15	36	07.6	0.0	0		095
2343		1979	07	21.90006	19	58	15.91	-17	09	25.5	0.1+	1+		095
	171	1979	07	21.90006	19	59	10.53	-21	43	53.8	0.0	0		1 095
1979	MA4	1979	07	21.90006	20	02	15.07	-14	24	12.3			17.5	095
1979	MF4	1979	07	21.90006	20	02	22.22	-18	40	59.0			17.0	095
	933	1979	07	21.90006	20	03	27.16	-16	57	47.8	0.0	0		095
2345		1979	07	21.90006	20	05	17.25	-21	36	21.8	0.2-	0	16.1	1 095
1939		1979	07	21.90006	20	05	25.00	-21	43	27.3	0.0	0		1 095
1655		1979	07	21.90006	20	07	10.81	-22	10	36.7	0.0	1-		1 095

608		1979	07	21.90006	20	07	26.91	-18	50	59.6	0.0	1-		095
1979	OY14*	1979	07	21.90006	20	08	50.50	-22	25	23.0			15.5	1 095
1979	OZ14*	1979	07	21.90006	20	09	23.94	-22	01	48.9			17.0	1 095
1789		1979	07	21.90006	20	15	23.91	-21	13	55.3	0.1+	0		1 095
1979	OA15*	1979	07	21.90006	20	18	17.25	-17	24	02.7			17.5	1 095
398		1979	07	21.96950	20	58	57.00	-09	56	30.6	0.1+	1+		1 095
748		1979	07	21.96950	20	59	49.25	-14	56	43.5	0.1+	0		1 095
16		1979	07	21.96950	21	01	32.69	-15	01	03.1	0.1+	1+		1 095
2330		1979	07	21.96950	21	02	28.40	-14	07	37.8	0.3+	0		095
1653		1979	07	21.96950	21	03	18.35	-16	34	10.2	0.2+	0		095
1911		1979	07	21.96950	21	03	37.04	-15	51	55.3	0.0	0		095
396		1979	07	21.96950	21	04	48.50	-12	50	14.0	0.2+	2+		095
1979	OB15*	1979	07	21.96950	21	06	11.66	-14	37	26.9			16.5	095
1979	OC15*	1979	07	21.96950	21	07	55.97	-14	55	45.8			16.0	095
352		1979	07	21.96950	21	08	31.81	-10	38	26.2	0.2+	2+		095
1979	OD15*	1979	07	21.96950	21	09	16.63	-10	16	16.9			17.5	095
1979	OE15*	1979	07	21.96950	21	16	24.66	-17	24	50.0			17.5	095
924		1979	07	21.96950	21	16	54.69	-10	43	53.2	0.2+	2+		095
1979	OF15*	1979	07	21.96950	21	17	33.75	-13	26	59.5			17.5	095
1973	UX5	1979	07	21.96950	21	20	30.53	-15	34	37.6			17.0	095
1979	OG15*	1979	07	21.96950	21	20	39.78	-16	23	07.8			17.0	095
2043		1979	07	21.96950	21	21	01.38	-16	27	01.4	0.1+	0		095
1979	OH15*	1979	07	21.96950	21	25	13.66	-15	19	28.7			16.5	095
1979	OJ15*	1979	07	21.96950	21	26	08.03	-13	43	49.2			16.5	095
1979	OK15*	1979	07	21.96950	21	28	12.40	-10	25	35.8			17.0	095
1979	OL15*	1979	07	21.96950	21	30	45.19	-12	49	07.6			17.0	095
1979	OM15*	1979	07	21.96950	21	32	55.38	-13	45	57.4			17.0	1 095
557		1979	07	21.96950	21	35	58.63	-12	53	01.3	0.3+	1+		1 095
431		1979	07	21.96950	21	36	33.78	-15	04	56.5	0.2+	1+		1 095
1979	OX14	1979	07	30.84422	19	34	47.19	-20	51	46.0			17.5	2 095
2422		1979	07	30.84422	19	39	24.22	-13	55	14.6	0.1-	0	17.4	1 095
1979	OM1	1979	07	30.84422	19	41	25.40	-18	47	11.5			17.5	095
1244		1979	07	30.84422	19	42	31.97	-15	32	06.5	0.2-	1+		095
287		1979	07	30.84422	19	42	41.72	-14	34	34.6	0.2-	0		095
2441		1979	07	30.84422	19	42	54.57	-18	53	45.4			17.0	095
2343		1979	07	30.84422	19	49	00.44	-17	32	43.7	0.2-	1-		095
171		1979	07	30.84422	19	52	04.81	-22	07	40.4	0.1-	1-		1 095
933		1979	07	30.84422	19	54	40.97	-17	41	13.8	0.1-	0		095
1979	MA4	1979	07	30.84422	19	55	37.44	-14	49	28.4			17.5	095
2345		1979	07	30.84422	19	57	23.13	-21	37	13.0	0.3-	0	16.1	1 095
1939		1979	07	30.84422	19	58	02.72	-22	04	30.4	0.2-	1-		1 095
1979	OY14	1979	07	30.84422	19	59	15.03	-22	04	28.1			15.5	1 095
608		1979	07	30.84422	19	59	22.88	-18	45	20.2	0.1-	0		095
1789		1979	07	30.84422	20	07	29.63	-21	56	07.2	0.1-	1-		3 095
748		1979	07	30.91505	20	54	21.60	-15	16	40.0	0.1+	0		1 095
16		1979	07	30.91505	20	54	39.53	-15	38	28.5	0.0	1+		1 095
1653		1979	07	30.91505	20	54	59.50	-16	47	01.7	0.1+	0		1 095
1979	ON15*	1979	07	30.91505	20	56	11.35	-14	56	00.6			17.0	1 095
396		1979	07	30.91505	20	57	26.22	-13	12	57.3	0.0	1+		1 095
1911		1979	07	30.91505	20	58	18.10	-16	12	21.6	0.0	0		1 095
1979	OB15	1979	07	30.91505	20	58	47.10	-14	47	17.9			16.5	095
1979	OO15*	1979	07	30.91505	20	58	58.34	-11	39	30.2			17.5	095
352		1979	07	30.91505	21	00	11.34	-10	56	28.9	0.1+	2+		1 095
1979	OC15	1979	07	30.91505	21	01	35.00	-15	26	36.9			16.0	095
1979	OD15	1979	07	30.91505	21	01	52.25	-11	04	29.8			17.0	1 095
1979	OP15*	1979	07	30.91505	21	04	59.54	-13	22	38.8			17.5	095
1029		1979	07	30.91505	21	07	13.91	-20	20	43.5	0.1-	1-		1 095
1979	OE15	1979	07	30.91505	21	10	27.19	-17	52	02.4			17.5	095
924		1979	07	30.91505	21	10	54.13	-11	37	42.5	0.1+	1+		095



1973 UX5	1979 07 30.91505	21 13 45.38	-16 12 53.7			17.0	095
1979 OQ15*	1979 07 30.91505	21 14 06.10	-13 31 01.0			17.5	095
2043	1979 07 30.91505	21 14 25.57	-16 48 41.6	0.0	1+		095
1979 OG15	1979 07 30.91505	21 14 43.31	-17 32 19.7			17.0	095
1979 OH15	1979 07 30.91505	21 17 43.13	-15 22 32.6			16.5	095
1979 OR15*	1979 07 30.91505	21 19 01.60	-12 57 49.9			17.5	095
1979 OS15*	1979 07 30.91505	21 19 10.00	-18 21 35.0			17.5	095
1979 OJ15	1979 07 30.91505	21 19 55.59	-14 46 57.2			16.0	095
1979 OK15	1979 07 30.91505	21 22 03.44	-11 26 01.5			17.0	1 095
1979 OL15	1979 07 30.91505	21 24 32.10	-13 18 28.8			17.0	095
1979 OT15*	1979 07 30.91505	21 24 32.37	-20 10 10.5			17.0	3 095
1979 OU15*	1979 07 30.91505	21 25 52.54	-15 01 48.7			17.5	095
1979 OM15	1979 07 30.91505	21 27 13.38	-14 13 34.6			17.0	095
557	1979 07 30.91505	21 28 33.60	-13 19 43.7	0.2+	0		1 095
2142	1979 07 30.91505	21 29 13.63	-14 31 54.3	0.1+	0		1 095
431	1979 07 30.91505	21 31 03.38	-15 40 21.5	0.1+	1+		1 095
310	1979 07 30.99005	21 52 04.57	-07 54 30.6	0.2+	1+		1 095
2026	1979 07 30.99005	21 52 39.60	-12 20 30.1	0.2+	0		1 095
2141	1979 07 30.99005	21 52 57.97	-05 02 56.3	0.3+	2+		1 095
1979 OF14	1979 07 30.99005	21 55 21.44	-11 58 11.0			16.5	095
1941 UV	1979 07 30.99005	21 59 04.12	-12 22 29.9			17.0	095
1979 OV15*	1979 07 30.99005	21 59 48.72	-12 06 04.8			17.0	095
433	1979 07 30.99005	22 01 00.34	-06 12 00.1	0.0	0		095
1979 OG14	1979 07 30.99005	22 01 18.63	-10 29 29.8			17.0	095
1979 OW15*	1979 07 30.99005	22 01 46.91	-04 34 51.2			16.5	095
465	1979 07 30.99005	22 03 20.56	-09 13 11.0	0.2+	1+		095
1981 CS	1979 07 30.99005	22 03 34.75	-13 04 31.8			17.0	095
1979 OX15*	1979 07 30.99005	22 05 26.63	-06 56 41.2			17.0	095
1268	1979 07 30.99005	22 08 51.34	-14 15 38.7	0.2+	0		1 095
653	1979 07 30.99005	22 11 08.13	-14 07 53.4	0.3+	1+		1 095
1334	1979 07 30.99005	22 11 58.67	-13 56 44.7	0.2+	1+		1 095
1621	1979 07 30.99005	22 12 25.13	-07 15 17.7	0.3+	2+		095
1979 OH14	1979 07 30.99005	22 12 35.41	-06 42 35.8			16.5	095
190	1979 07 30.99005	22 14 48.16	-06 47 49.3	0.1+	1+		095
1257	1979 07 30.99005	22 15 16.75	-04 28 41.6	0.5+	1+		1 095
1581	1979 07 30.99005	22 15 28.97	-13 13 33.0	0.1+	1-		095
738	1979 07 30.99005	22 16 22.10	-11 50 51.4	0.2+	0		095
1979 QU2	1979 07 30.99005	22 16 59.22	-10 13 57.8			17.0	095
1764	1979 07 30.99005	22 20 01.41	-09 56 43.8	0.1+	0		095
1241	1979 07 30.99005	22 22 09.50	-08 03 53.8	0.2+	1+		095
1979 OK14	1979 07 30.99005	22 24 15.06	-06 13 28.7			16.5	1 095
1979 QB4	1979 07 30.99005	22 24 26.35	-10 00 42.0			16.5	1 095
1979 QX3	1979 07 30.99005	22 24 49.53	-10 26 51.7			16.5	1 095
427	1979 07 30.99005	22 26 49.65	-05 45 17.6	0.1-	0		1 095
1614	1979 07 31.85750	19 21 57.22	-07 12 12.7	0.2-	1+		1 095
2145	1979 07 31.85750	19 22 19.81	-10 48 43.1	0.1-	0	16.2	1 095
443	1979 07 31.85750	19 23 02.13	-15 43 41.0	0.3-	0		1 095
2166	1979 07 31.85750	19 23 30.09	-14 14 59.8	0.3-	0		1 095
474	1979 07 31.85750	19 25 32.72	-09 54 00.3	0.3-	1+		1 095
1888	1979 07 31.85750	19 30 37.91	-14 42 14.9	0.1-	1+		095
1979 OY15*	1979 07 31.85750	19 33 43.82	-12 13 32.8			17.0	095
2422	1979 07 31.85750	19 38 32.09	-14 01 36.5	0.2-	0	17.4	095
1979 OH1	1979 07 31.85750	19 40 27.13	-15 33 45.3			17.5	095
1244	1979 07 31.85750	19 41 32.22	-15 31 48.8	0.3-	0		095
287	1979 07 31.85750	19 41 48.69	-14 42 39.4	0.2-	0		095
1979 MC	1979 07 31.85750	19 46 22.66	-09 08 23.2			16.0	095
585	1979 07 31.85750	19 50 11.82	-10 35 42.5	0.1-	0		095
1979 MA4	1979 07 31.85750	19 54 53.78	-14 52 30.4			17.5	095
1979 OZ15*	1979 07 31.91653	20 35 17.18	-08 11 20.5			17.5	1 095

2115		1979	07	31.91653	20	35	21.75	-05	43	53.4	0.0	1+		1	095
1979	OA16*	1979	07	31.91653	20	36	02.62	-08	52	13.1			17.8		095
51		1979	07	31.91653	20	37	44.66	-05	49	13.7	0.1-	1+			095
1979	OB16*	1979	07	31.91653	20	38	37.53	-13	25	45.4			17.5	1	095
354		1979	07	31.91653	20	39	14.44	-12	30	18.9	0.1-	1+			095
1979	OC16*	1979	07	31.91653	20	39	18.72	-13	12	14.9			17.0	1	095
1979	OD16*	1979	07	31.91653	20	39	38.50	-08	07	55.2			17.8		095
163		1979	07	31.91653	20	40	09.09	-14	13	29.8	0.1+	1+		1	095
1979	OE16*	1979	07	31.91653	20	45	40.41	-08	57	23.0			17.5		095
97		1979	07	31.91653	20	48	57.19	-08	25	38.3	0.1+	1+			095
1979	OF16*	1979	07	31.91653	20	49	25.25	-06	08	08.7			17.0		095
1979	OG16*	1979	07	31.91653	20	49	44.28	-09	15	48.7			17.5		095
398		1979	07	31.91653	20	50	12.41	-10	04	02.6	0.0	1+			095
1979	OH16*	1979	07	31.91653	20	50	13.91	-12	44	56.0			17.0	1	095
1649		1979	07	31.91653	20	50	44.94	-13	16	30.8	0.0	0		1	095
1597		1979	07	31.91653	20	54	31.81	-08	41	41.0	0.6+	1+			095
1979	OJ16*	1979	07	31.91653	20	55	47.84	-05	07	31.5			17.5	1	095
396		1979	07	31.91653	20	56	34.50	-13	15	50.5	0.1+	1+		1	095
1979	OK16*	1979	07	31.91653	20	56	44.00	-09	22	38.3			17.5		095
1979	OL16*	1979	07	31.91653	20	58	13.29	-07	58	07.8			17.5		095
352		1979	07	31.91653	20	59	10.97	-10	59	08.6	0.1+	1+			095
1979	OM16*	1979	07	31.91653	21	00	22.37	-08	56	09.0			17.0		095
1979	ON16*	1979	07	31.91653	21	03	06.75	-05	53	47.1			17.0		095
1979	OO16*	1979	07	31.91653	21	05	24.53	-13	08	48.6			17.8	1	095
1979	OP16*	1979	07	31.91653	21	05	49.69	-08	05	19.8			17.0	1	095
1979	OQ16*	1979	07	31.91653	21	06	18.38	-06	17	32.1			17.8	1	095
924		1979	07	31.91653	21	10	10.44	-11	44	15.5	0.2+	1+		1	095
2406		1979	07	31.98597	23	04	43.91	-09	30	32.2			16.5	1	095
1979	OM14	1979	08	01.91155	19	12	21.03	-02	38	47.4			16.0	1	095
1979	ON14	1979	08	01.91155	19	19	10.50	-03	20	19.4			16.5		095
1979	OO14	1979	08	01.91155	19	23	16.25	-05	05	50.0			16.5		095
1979	PK *	1979	08	01.91155	19	28	51.75	-03	16	55.4			17.0		095
2173		1979	08	01.91155	19	30	54.84	-03	08	57.8	0.8-	1+			095
365		1979	08	01.91155	19	34	34.62	-03	28	51.6	0.1-	1+			095
1441		1979	08	01.91155	19	35	04.94	-03	11	59.3	0.1-	2+			095
572		1979	08	01.91155	19	35	31.81	-03	44	12.8	0.2-	2+			095
2326		1979	08	01.91155	19	39	41.56	-07	45	16.4			16.2	1	095
894		1979	08	01.91155	19	40	09.38	-02	28	43.5	0.1-	1+			095
1979	PL *	1979	08	01.91155	19	42	19.84	-06	00	07.0			17.0		095
309		1979	08	01.98376	21	51	22.53	-17	17	12.1	0.2+	0		1	095
1190		1979	08	01.98376	22	05	17.94	-16	52	14.9	0.2+	1+		1	095
2015		1979	08	01.98376	22	07	38.25	-21	48	38.3	0.1+	1-			095
1087		1979	08	01.98376	22	11	07.84	-26	19	20.8	0.1+	0		1	095
740		1979	08	01.98376	22	11	21.63	-18	32	52.0	0.1+	0			095
535		1979	08	01.98376	22	16	20.60	-20	22	39.8	0.1+	0			095
1979	OQ14	1979	08	01.98376	22	18	09.75	-22	33	19.2			15.5		095
1351		1979	08	01.98376	22	19	39.16	-21	33	10.6	0.2+	0			095
2312		1979	08	01.98376	22	21	22.47	-17	37	07.8	0.1+	1+		1	095
964		1979	08	01.98376	22	21	44.47	-23	50	34.2	0.1+	1-			095
532		1979	08	01.98376	22	24	41.19	-24	45	31.8	0.2+	1-		1	095
443		1979	08	19.83053	19	10	56.31	-16	59	36.4	0.4-	1-			095
2166		1979	08	19.83053	19	17	40.85	-16	17	41.7					095
474		1979	08	19.83053	19	17	56.16	-12	50	10.6	0.5-	0			095
1979	QV6 *	1979	08	19.83053	19	24	57.31	-15	42	37.9			16.5		095
1244		1979	08	19.83053	19	26	53.53	-15	28	33.8	0.3-	0			095
287		1979	08	19.83053	19	29	04.44	-17	08	08.5	0.4-	1-			095
1979	QW6 *	1979	08	19.83053	19	35	55.88	-11	58	45.7			16.0	2	095
585		1979	08	19.83053	19	36	11.91	-12	11	48.1	0.3-	0			095
2115		1979	08	19.89407	20	21	13.85	-06	36	52.2	0.3-	0		1	095

51		1979	08	19.89407	20	21	46.50	-08	10	36.8	0.2-	1-	1	095
163		1979	08	19.89407	20	22	35.56	-15	50	06.3	0.1-	1-	1	095
354		1979	08	19.89407	20	24	44.69	-15	02	29.2	0.2-	0	1	095
775		1979	08	19.89407	20	25	57.88	-15	58	06.7	0.2-	1-	1	095
1979	QX6 *	1979	08	19.89407	20	27	30.22	-13	35	40.0			17.0	095
246		1979	08	19.89407	20	27	59.34	-06	49	57.7	0.4-	0	1	095
97		1979	08	19.89407	20	32	54.25	-10	39	47.6	0.2-	0		095
398		1979	08	19.89407	20	33	12.38	-10	33	02.3	0.2-	0		095
1979	OG16	1979	08	19.89407	20	34	32.82	-09	50	24.2			17.0	095
352		1979	08	19.89407	20	40	00.72	-12	02	39.2	0.3-	0		095
1597		1979	08	19.89407	20	40	14.63	-10	55	43.5	0.4+	0		095
396		1979	08	19.89407	20	41	00.13	-14	13	47.5	0.2-	1-		095
1979	OB15	1979	08	19.89407	20	41	17.03	-15	19	20.2			16.0	1 095
748		1979	08	19.89407	20	41	57.00	-16	03	05.2	0.1-	0	1	095
1979	OM16	1979	08	19.89407	20	42	52.13	-10	04	09.2			17.0	095
1979	OD15	1979	08	19.89407	20	43	50.84	-13	19	48.0			17.0	095
924		1979	08	19.89407	20	55	54.53	-13	57	39.4	0.1-	1-	1	095
1979	OY14	1979	08	20.82286	19	42	51.19	-20	54	21.2			1	095
608		1979	08	20.82286	19	43	39.69	-18	26	44.0	0.3-	0		095
1979	QY6 *	1979	08	20.82286	19	49	05.47	-13	29	53.1			17.0	1 095
1959		1979	08	20.82286	19	58	40.78	-15	03	47.5	0.3-	0		095
1069		1979	08	20.82286	20	01	26.41	-15	30	11.7	0.3-	0		095
1804		1979	08	20.82286	20	01	57.44	-22	09	07.4	0.3-	2-	1	095
442		1979	08	20.82286	20	04	45.13	-19	39	34.3	0.3-	2-		095
1945		1979	08	20.82286	20	04	52.85	-18	55	58.1	0.3-	2-		095
1979	QZ6 *	1979	08	20.82286	20	06	38.91	-15	52	00.5			15.5	095
1979	QA7 *	1979	08	20.82286	20	08	30.03	-18	40	03.4			15.8	095
357		1979	08	20.82286	20	08	58.81	-16	37	49.1	0.2-	1-		095
1057		1979	08	20.82286	20	10	02.22	-15	20	41.2	0.3-	1-		095
1067		1979	08	20.82286	20	11	09.41	-14	09	32.6	0.3-	1-		095
1979	OJ15	1979	08	20.89229	21	01	48.72	-17	36	43.5			16.0	1 095
1979	OK15	1979	08	20.89229	21	05	05.54	-14	15	41.5			17.0	1 095
1979	QB7 *	1979	08	20.89229	21	07	22.82	-14	56	00.2			17.5	095
1979	QC7 *	1979	08	20.89229	21	07	33.22	-14	55	41.3			17.5	095
557		1979	08	20.89229	21	08	48.41	-14	33	24.0	0.1-	0		095
1979	QD7 *	1979	08	20.89229	21	09	53.72	-18	04	03.1			17.5	095
1979	OM15	1979	08	20.89229	21	11	23.63	-15	29	31.7			17.0	095
2142		1979	08	20.89229	21	13	35.66	-15	47	58.3	0.1-	1-		095
431		1979	08	20.89229	21	15	30.66	-17	10	13.6	0.1-	1-		095
1979	QE7 *	1979	08	20.89229	21	23	57.88	-13	37	13.5			17.5	095
1979	QF7 *	1979	08	20.89229	21	27	22.72	-17	20	02.8			17.0	095
1979	QG7 *	1979	08	20.89229	21	30	19.13	-15	09	17.8			17.0	095
1979	QH7 *	1979	08	20.89229	21	31	01.63	-16	44	09.1			17.0	095
1979	QJ7 *	1979	08	20.89229	21	33	51.22	-11	11	36.1			17.0	1 095
1979	QK7 *	1979	08	20.89229	21	34	35.84	-15	35	06.6			17.0	1 095
309		1979	08	20.89229	21	34	41.56	-18	11	16.6	0.1-	1-	2	095
1977		1979	08	20.96172	22	58	35.62	-05	19	47.1	0.2+	0	1	095
2310		1979	08	20.96172	23	02	08.38	-08	28	07.6	0.3-	2-	1	095
1542		1979	08	20.96172	23	05	11.53	-02	13	31.9	0.2+	1+		095
1979	QL7 *	1979	08	20.96172	23	06	19.78	-09	37	46.0			16.5	1 095
1979	QM7 *	1979	08	20.96172	23	06	25.50	-03	48	31.6			16.5	095
1979	QN7 *	1979	08	20.96172	23	08	28.78	-02	46	30.0			16.5	095
2058		1979	08	20.96172	23	09	31.87	-09	11	45.9	0.1+	1-	1	095
1979	QO7 *	1979	08	20.96172	23	13	31.62	-02	23	07.6			16.5	095
2066		1979	08	20.96172	23	13	55.50	-09	24	32.7	0.2+	0	1	095
1979	QP7 *	1979	08	20.96172	23	14	28.12	-08	35	09.1			16.5	095
45		1979	08	20.96172	23	17	03.78	-07	00	55.6	0.2+	1+		095
1979	QQ7 *	1979	08	20.96172	23	18	45.88	-08	57	02.9			17.0	095
1259		1979	08	20.96172	23	27	43.44	-07	10	43.4	0.1+	0		095

946		1979	08	20.96172	23	27	53.41	-05	39	35.9	0.1+	0		095
580		1979	08	20.96172	23	28	24.40	-08	30	57.6	0.2+	0		095
1488		1979	08	20.96172	23	29	13.62	-06	34	49.0	0.2+	0		095
94		1979	08	20.96172	23	30	24.44	-07	40	21.1	0.2+	1+		095
209		1979	08	20.96172	23	31	54.32	-06	23	24.8	0.1+	1+		095
1797		1979	08	20.96172	23	33	21.12	-07	29	54.5	0.2+	1+	1	095
312		1979	08	20.96172	23	36	45.06	-09	02	43.7	0.2+	0	1	095
1064		1979	08	21.01444	23	38	09.72	+13	34	14.1	0.4+	4+	1	095
875		1979	08	21.01444	23	47	33.44	+11	57	39.2	0.3+	4+		095
1315		1979	08	21.01444	23	49	53.35	+08	41	58.0	0.1-	0		095
1979	QR7 *	1979	08	21.01444	23	52	53.72	+12	22	34.4			16.5	095
408		1979	08	21.01444	23	55	07.63	+10	50	01.0	0.1+	2+		095
1979	QS7 *	1979	08	21.01444	00	04	18.01	+12	51	58.1			16.5	095
2107		1979	08	21.01444	00	05	02.01	+11	56	45.0	0.2+	3+		095
1408		1979	08	21.01444	00	08	20.77	+07	20	34.8	0.1+	2+		095
1353		1979	08	21.01444	00	09	27.01	+10	09	18.7	0.1+	2+		095
1297		1979	08	21.01444	00	10	10.50	+12	49	42.5	0.2+	2+		095
200		1979	08	21.01444	00	15	12.42	+06	51	02.9	0.3+	2+	1	095
443		1979	08	21.79496	19	10	17.82	-17	06	47.7	0.4-	1-		095
474		1979	08	21.79496	19	17	48.41	-13	08	08.8	0.4-	1-		095
1244		1979	08	21.79496	19	25	54.69	-15	28	20.7	0.4-	0		095
287		1979	08	21.79496	19	28	17.19	-17	21	52.0	0.4-	1-		095
585		1979	08	21.79496	19	35	10.03	-12	21	42.7	0.2-	0		095
51		1979	08	21.85538	20	20	25.00	-08	26	04.0	0.3-	0	1	095
163		1979	08	21.85538	20	21	01.10	-15	59	28.6	0.1-	0	1	095
354		1979	08	21.85538	20	23	26.91	-15	17	34.8	0.2-	1-	1	095
1979	QX6	1979	08	21.85538	20	26	20.25	-13	52	19.0			17.0	095
246		1979	08	21.85538	20	26	49.06	-07	10	44.1	0.4-	0	1	095
97		1979	08	21.85538	20	31	23.94	-10	54	23.9	0.2-	0		095
398		1979	08	21.85538	20	31	36.69	-10	36	35.3	0.2-	1-		095
352		1979	08	21.85538	20	38	15.16	-12	09	51.0	0.2-	0		095
396		1979	08	21.85538	20	39	38.56	-14	19	30.7	0.2-	0		095
924		1979	08	21.85538	20	54	32.10	-14	11	31.9	0.1-	1-	1	095
608		1979	08	26.80547	19	40	44.59	-18	19	31.7			1	095
1979	QT7 *	1979	08	26.80547	19	54	01.81	-18	09	52.4			16.0	095
1959		1979	08	26.80547	19	55	52.32	-14	58	39.8	0.2-	0		095
1069		1979	08	26.80547	19	58	31.69	-16	02	13.0	0.2-	0		095
442		1979	08	26.80547	20	01	33.59	-20	07	25.1	0.2-	1-		095
1945		1979	08	26.80547	20	02	17.13	-19	21	59.0	0.3-	1-		095
1979	QZ6	1979	08	26.80547	20	03	44.47	-16	05	35.9			15.5	095
1979	QA7	1979	08	26.80547	20	04	26.97	-19	14	24.2			15.8	095
357		1979	08	26.80547	20	05	53.31	-17	16	28.8	0.2-	0		095
1057		1979	08	26.80547	20	06	32.19	-15	31	25.9	0.2-	0		095
1067		1979	08	26.80547	20	07	03.03	-14	09	20.9	0.2-	0		095
163		1979	08	26.80547	20	17	22.16	-16	22	13.2	0.0	0	1	095
1979	QU7 *	1979	08	26.80547	20	18	26.85	-17	18	10.5			17.0	1 095
1979	QV7 *	1979	08	26.80547	20	19	29.88	-17	24	16.9			16.5	1 095
1979	QW7 *	1979	08	26.80547	20	19	37.47	-19	29	05.5			16.8	1 095
710		1979	08	26.80547	20	19	40.68	-19	14	58.7	0.0	0	1	095
354		1979	08	26.80547	20	20	26.63	-15	54	35.0	0.2-	1-	1	095
775		1979	08	26.80547	20	21	19.57	-16	02	02.2	0.2-	1-	1	095
1621		1979	08	26.86971	21	49	01.94	-09	52	32.0	0.1-	1-	1	095
1979	QL1	1979	08	26.86971	21	50	55.25	-10	06	15.8			17.0	095
1268		1979	08	26.86971	21	52	43.35	-15	28	21.1	0.0	0	1	095
2395		1979	08	26.86971	21	52	53.34	-13	14	08.9			17.0	095
1257		1979	08	26.86971	21	53	14.37	-06	37	12.3	0.1+	0	1	095
1979	QB2	1979	08	26.86971	21	54	01.66	-09	51	45.2			17.0	095
1241		1979	08	26.86971	21	56	25.38	-06	47	21.5	0.1-	0	1	095
1581		1979	08	26.86971	21	56	39.50	-15	11	21.5	0.1-	1-	1	095

738		1979	08	26.86971	21	57	25.66	-14	01	36.2	0.1-	1-		095
1979	QU2	1979	08	26.86971	21	57	44.38	-12	28	44.2			17.0	095
1979	QT2	1979	08	26.86971	21	57	48.78	-12	21	47.6			17.5	095
1979	QW2	1979	08	26.86971	21	57	51.19	-11	38	31.3			17.0	095
1979	QX7 *	1979	08	26.86971	21	59	44.84	-05	31	47.7			17.0	095
190		1979	08	26.86971	21	59	59.34	-08	27	04.4	0.0	0		095
1764		1979	08	26.86971	22	01	05.50	-11	59	41.7	0.0	0		095
1979	QY7 *	1979	08	26.86971	22	01	19.03	-12	01	52.5			17.8	095
1979	QZ7 *	1979	08	26.86971	22	01	54.04	-06	10	56.8			17.0	1 095
1979	QX3	1979	08	26.86971	22	03	34.91	-10	22	23.4			16.5	095
1979	QA8 *	1979	08	26.86971	22	03	41.32	-07	48	10.0			17.5	095
427		1979	08	26.86971	22	06	58.78	-06	36	13.4	0.3-	2-		1 095
1979	QB8 *	1979	08	26.86971	22	10	12.79	-10	11	28.1			17.5	095
1979	QC8 *	1979	08	26.86971	22	10	18.41	-09	40	39.3			17.8	095
594		1979	08	26.86971	22	10	33.97	-08	10	57.3	0.0	1-		095
1979	QD8 *	1979	08	26.86971	22	10	35.09	-11	00	05.9			17.5	095
811		1979	08	26.86971	22	16	15.91	-12	40	46.7	0.0	1-		095
1979	QE8 *	1979	08	26.86971	22	19	34.56	-09	34	44.9			17.5	095
2086		1979	08	26.86971	22	20	07.75	-13	57	25.9	0.1-	0		1 095
1979	QF8 *	1979	08	26.86971	22	21	50.84	-12	43	07.8			17.5	1 095
1972	RV3	1979	08	26.86971	22	21	52.32	-15	04	01.2			16.0	1 095
2416		1979	08	26.86971	22	21	53.84	-11	31	44.0			17.0	1 095
830		1979	08	26.86971	22	24	01.50	-10	53	56.1	0.1-	1-		1 095
47		1979	08	26.86971	22	24	19.31	-14	32	20.7	0.0	0		1 095
1004		1979	08	26.86971	22	25	49.78	-09	51	18.9	0.2-	1-		1 095
534		1979	08	26.93741	22	46	17.00	-12	37	25.4	0.0	0		3 095
1979	QK6	1979	08	26.93741	22	49	57.19	-13	21	53.2			16.5	1 095
493		1979	08	26.93741	22	55	58.94	-16	14	26.5	0.0	0		095
2058		1979	08	26.93741	23	05	24.13	-09	41	50.6	0.0	0		1 095
616		1979	08	26.93741	23	05	45.75	-13	49	02.6	0.1+	0		095
1005		1979	08	26.93741	23	06	42.69	-11	15	22.2	0.1-	2-		095
1979	QG8 *	1979	08	26.93741	23	11	13.41	-10	55	30.1			16.0	095
1979	QH8 *	1979	08	26.93741	23	14	31.81	-13	16	00.3			16.0	095
1979	QJ8 *	1979	08	26.93741	23	14	37.38	-19	07	11.0			16.5	1 095
1979	QK8 *	1979	08	26.93741	23	15	31.00	-12	52	24.0			15.5	095
2187		1979	08	26.93741	23	16	49.57	-14	28	47.8	0.1+	0		095
443		1979	08	27.77767	19	09	07.00	-17	27	24.3				095
474		1979	08	27.77767	19	18	15.97	-14	00	59.7				095
287		1979	08	27.77767	19	26	37.10	-18	01	23.1				095
585		1979	08	27.77767	19	32	36.82	-12	51	10.0				095
51		1979	08	27.85753	20	16	47.09	-09	12	55.8	0.3-	1-		1 095
354		1979	08	27.85753	20	19	51.41	-16	02	13.7	0.2-	1-		1 095
246		1979	08	27.85753	20	23	42.09	-08	13	44.0	0.5-	1-		095
398		1979	08	27.85753	20	27	04.75	-10	47	36.4	0.2-	1-		095
97		1979	08	27.85753	20	27	09.13	-11	38	51.1	0.3-	0		095
352		1979	08	27.85753	20	33	25.34	-12	31	25.0	0.3-	0		095
396		1979	08	27.85753	20	35	57.94	-14	35	55.6	0.2-	1-		095
924		1979	08	27.85753	20	50	38.25	-14	52	47.0	0.2-	1-		1 095
1979	RA *	1979	09	01.95136	23	21	03.60	-11	50	01.2			17.0	1 095
1968		1979	09	01.95136	23	31	06.21	-10	51	12.5	0.0	0		1 095
1979	RB *	1979	09	01.95136	23	33	20.19	-16	22	43.1			16.5	095
1979	RC *	1979	09	01.95136	23	37	30.04	-13	01	11.8			16.0	095
1979	RD *	1979	09	01.95136	23	40	28.22	-13	30	06.6			17.0	095
1979	RE *	1979	09	01.95136	23	43	02.47	-17	29	32.9			16.5	095
1979	RF *	1979	09	01.95136	23	43	51.28	-17	26	42.9			16.5	095
1979	RG *	1979	09	01.95136	23	47	24.66	-19	27	21.2			16.5	1 095
1210		1979	09	01.95136	23	50	37.32	-17	01	51.0	0.1-	1-		095
1979	RH *	1979	09	01.95136	23	51	37.88	-18	53	48.4			16.5	1 095
2027		1979	09	01.95136	23	54	37.03	-17	37	42.3	0.1+	1-		095

1979	RJ	*	1979	09	01.95136	23	57	51.82	-14	21	22.0			16.5	1	095
557			1979	09	14.76721	20	51	22.59	-15	37	54.2					095
1979	RK	*	1979	09	14.76721	20	52	22.38	-15	38	13.5			17.0		095
431			1979	09	14.76721	21	02	24.50	-18	19	26.2					095
309			1979	09	14.76721	21	17	11.91	-18	34	55.1	0.2-	0			095
310			1979	09	14.76721	21	18	14.28	-11	01	10.8	0.4-	1-		1	095
1979	RL	*	1979	09	14.76721	21	24	44.09	-13	00	19.9			17.0	1	095
493			1979	09	14.89562	22	38	10.22	-16	12	55.7	0.0	1-		1	095
1979	RM	*	1979	09	14.89562	22	44	14.72	-11	57	39.6			16.5		095
616			1979	09	14.89562	22	45	39.28	-13	56	43.5	0.0	1-			095
1005			1979	09	14.89562	22	48	40.53	-11	05	01.9	0.1-	2-			095
2058			1979	09	14.89562	22	51	17.99	-11	13	40.9	0.0	1-			095
1979	QH8		1979	09	14.89562	22	57	16.07	-13	44	42.2			16.0		095
45			1979	09	14.89562	22	58	22.94	-09	58	08.0	0.1-	0		1	095
1979	QK8		1979	09	14.89562	23	01	37.97	-15	17	26.4			15.5		095
580			1979	09	14.89562	23	11	43.35	-10	35	06.0	0.1-	0		1	095
312			1979	09	14.89562	23	14	41.28	-09	59	35.9	0.0	1-		1	095
465			1979	09	22.80056	21	26	13.60	-11	34	36.4	0.1-	0		1	095
1621			1979	09	22.80056	21	29	37.35	-12	30	47.0	0.2-	1-		1	095
653			1979	09	22.80056	21	36	48.07	-19	35	05.0	0.1-	1-		1	095
1268			1979	09	22.80056	21	38	24.10	-16	18	15.8	0.0	0			095
738			1979	09	22.80056	21	40	50.94	-15	44	11.8	0.0	0			095
1979	SO1	*	1979	09	22.80056	21	41	10.53	-12	34	23.8			17.0		095
1979	SP1	*	1979	09	22.80056	21	44	35.62	-18	06	00.0			17.0		095
1764			1979	09	22.80056	21	44	36.72	-13	43	34.8	0.2-	1-			095
1979	SQ1	*	1979	09	22.80056	21	45	00.41	-11	24	38.2			17.0		095
190			1979	09	22.80056	21	46	07.06	-10	12	20.6	0.0	0		1	095
1979	SR1	*	1979	09	22.80056	21	48	58.60	-16	06	52.4			17.0		095
811			1979	09	22.80056	21	58	26.72	-14	40	34.6	0.1-	1-			095
2086			1979	09	22.80056	21	59	13.63	-16	56	37.8	0.1-	1-			095
1979	SS1	*	1979	09	22.80056	22	01	06.69	-16	02	01.1			17.0	1	095
47			1979	09	22.80056	22	04	17.19	-15	10	33.2	0.1-	1-		1	095
830			1979	09	22.80056	22	05	20.43	-12	07	05.9	0.2-	0		1	095
1979	ST1	*	1979	09	22.86097	22	14	40.63	-21	59	04.7			16.5		095
842			1979	09	22.86097	22	17	45.59	-21	16	01.3	0.1-	1-			095
438			1979	09	22.86097	22	19	59.63	-21	59	16.3	0.1-	1-			095
1979	SU1	*	1979	09	22.86097	22	21	05.22	-23	03	13.6			16.5		095
1979	SV1	*	1979	09	22.86097	22	25	02.00	-25	59	32.5			17.0	2	095
1979	SW1	*	1979	09	22.86097	22	25	05.34	-21	06	31.2			17.0		095
1979	SX1	*	1979	09	22.86097	22	29	05.22	-25	47	55.7			16.2		095
1013			1979	09	22.86097	22	29	25.94	-23	00	25.0	0.0	1-			095
23			1979	09	22.86097	22	36	25.38	-24	21	40.9	0.0	1-			095
1979	SY1	*	1979	09	22.92348	00	12	57.77	+09	37	11.2			17.0	1	095
1979	SZ1	*	1979	09	22.92348	00	13	13.12	+10	26	12.6			17.0	1	095
1979	SA2	*	1979	09	22.92348	00	13	27.39	+07	15	45.4			17.0	1	095
1979	SB2	*	1979	09	22.92348	00	14	31.36	+11	33	16.2			16.5		095
804			1979	09	22.92348	00	15	17.35	+09	41	41.7	0.0	1+			095
1979	SC2	*	1979	09	22.92348	00	16	10.07	+09	37	30.0			16.5		095
1979	SD2	*	1979	09	22.92348	00	17	07.84	+13	35	44.2			17.5		095
1979	SE2	*	1979	09	22.92348	00	17	15.16	+12	48	35.7			17.0		095
1979	SF2	*	1979	09	22.92348	00	23	12.76	+07	14	12.5			17.0		095
1939	TM		1979	09	22.92348	00	24	21.54	+09	24	30.2			16.5		095
1979	SG2	*	1979	09	22.92348	00	24	31.81	+15	07	04.5			17.0	1	095
1979	SH2	*	1979	09	22.92348	00	24	35.86	+08	44	25.6			16.0		095
1979	SJ2	*	1979	09	22.92348	00	24	39.38	+10	00	35.1			17.5		095
1979	SK2	*	1979	09	22.92348	00	27	04.67	+10	10	33.8			17.5		095
1979	SL2	*	1979	09	22.92348	00	28	41.20	+11	45	27.2			17.5		095
1979	SM2	*	1979	09	22.92348	00	29	34.83	+13	20	03.9			17.0		095
1979	SN2	*	1979	09	22.92348	00	29	45.86	+11	03	27.9			17.5		095

1979	SO2	*	1979	09	22.92348	00	30	47.76	+12	06	36.6			16.5	095
1979	SP2	*	1979	09	22.92348	00	30	52.92	+07	20	04.2			17.5	095
1979	SQ2	*	1979	09	22.92348	00	31	34.01	+08	13	10.0			17.0	095
1979	SR2	*	1979	09	22.92348	00	32	50.31	+07	39	42.3			17.0	095
179			1979	09	22.92348	00	35	17.81	+15	52	21.9	0.1+	1+		1 095
819			1979	09	22.92348	00	35	40.40	+09	14	27.4	0.0	0		095
1979	SS2	*	1979	09	22.92348	00	37	10.93	+14	28	33.2			17.5	095
1979	ST2	*	1979	09	22.92348	00	37	34.24	+09	52	20.8			16.0	095
1979	SU2	*	1979	09	22.92348	00	38	07.19	+12	45	57.0			16.5	095
701			1979	09	22.92348	00	42	18.38	+13	39	22.1	0.0	1+		095
1979	SV2	*	1979	09	22.92348	00	43	01.19	+07	52	17.3			17.0	095
1979	SW2	*	1979	09	22.92348	00	45	46.62	+07	15	37.4			17.0	1 095
1979	SX2	*	1979	09	22.92348	00	46	15.04	+12	13	43.0			16.0	1 095
1241			1979	09	23.77948	21	33	35.97	-05	49	42.2	0.0	1-		095
1979	SY2	*	1979	09	23.77948	21	33	36.75	-03	21	28.9			16.5	095
1257			1979	09	23.77948	21	35	01.34	-09	06	20.9	0.2+	0		095
992			1979	09	23.77948	21	35	11.50	-01	11	19.5	0.0	1+		1 095
1979	SZ2	*	1979	09	23.77948	21	36	31.50	-05	39	36.2			16.5	095
1979	SA3	*	1979	09	23.77948	21	37	09.28	-05	49	30.6			16.5	095
1780			1979	09	23.77948	21	39	38.50	-04	15	33.4	0.1-	1-		095
1979	SB3	*	1979	09	23.77948	21	47	37.41	-04	44	06.0			17.0	095
427			1979	09	23.77948	21	48	30.75	-07	51	07.7	0.3-	1-		095
1979	SC3	*	1979	09	23.77948	21	55	15.56	-01	30	33.8			16.0	095
1579			1979	09	23.77948	21	56	23.16	-06	34	06.2	0.0	0		095
1979	SD3	*	1979	09	23.77948	21	58	06.60	-02	30	11.9			17.0	1 095
1979	SE3	*	1979	09	24.84039	22	40	25.53	-07	31	12.2			17.8	1 095
1542			1979	09	24.84039	22	41	15.22	-05	06	57.0	0.1-	0		1 095
1979	SF3	*	1979	09	24.84039	22	42	02.75	-06	40	58.1			17.5	1 095
1979	SG3	*	1979	09	24.84039	22	43	07.63	-01	26	26.3			17.5	1 095
1979	SH3	*	1979	09	24.84039	22	44	45.44	-03	36	58.0			17.5	095
1979	SJ3	*	1979	09	24.84039	22	45	34.22	-09	28	00.0			17.0	095
1979	SK3	*	1979	09	24.84039	22	46	18.44	-07	38	27.7			17.0	095
1979	SL3	*	1979	09	24.84039	22	47	48.94	-07	37	53.4			17.0	095
1979	SM3	*	1979	09	24.84039	22	49	27.13	-07	17	17.1			16.5	095
2112			1979	09	24.84039	22	54	22.88	-00	17	09.8	0.1-	1-		1 095
1979	SN3	*	1979	09	24.84039	22	58	57.35	-05	44	28.5			17.0	095
1979	SO3	*	1979	09	24.84039	22	59	12.84	-01	09	50.7			17.0	095
1488			1979	09	24.84039	23	01	33.00	-07	53	06.0	0.1-	1-		095
1259			1979	09	24.84039	23	02	58.19	-09	46	27.2	0.0	0		1 095
946			1979	09	24.84039	23	03	37.72	-08	13	03.9	0.1-	0		095
94			1979	09	24.84039	23	03	48.72	-09	06	08.5	0.0	0		1 095
209			1979	09	24.84039	23	05	39.63	-07	59	07.8	0.0	1-		095
1979	SP3	*	1979	09	24.84039	23	08	08.97	-07	21	10.8			17.5	095
1979	SQ3	*	1979	09	24.84039	23	08	49.97	-07	36	31.5			17.0	095
20			1979	09	24.84039	23	09	22.59	-04	43	16.9	0.0	0		095
1200			1979	09	24.84039	23	09	44.69	-01	22	20.0	0.1-	0		095
1656			1979	09	24.84039	23	10	56.97	-04	17	52.5	0.2-	1-		095
1979	SR3	*	1979	09	24.84039	23	12	26.00	-01	04	53.7			17.0	095
1979	SS3	*	1979	09	24.84039	23	12	37.47	-07	37	56.9			17.8	095
1002			1979	09	24.84039	23	13	14.66	-01	31	20.5	0.1-	0		095
1979	ST3	*	1979	09	24.84039	23	13	42.68	-05	33	48.0			17.8	095
1979	SU3	*	1979	09	24.84039	23	14	04.84	-07	37	55.4			17.8	095
501			1979	09	24.84039	23	16	37.41	-08	07	40.1	0.1-	1-		1 095
865			1979	09	24.84039	23	17	38.41	-03	12	26.4	0.1-	0		1 095
2116			1979	09	24.84039	23	19	04.03	-05	16	20.5	0.0	1-		1 095
1979	SV3	*	1979	09	24.84039	23	19	16.10	-03	56	57.4			17.5	1 095
1800			1979	09	24.90290	00	00	06.20	-10	00	49.8	0.1-	1-		1 095
1979	SW3	*	1979	09	24.90290	00	03	00.54	-08	03	46.5			16.5	1 095
2325			1979	09	24.90290	00	03	13.35	-01	46	42.0			16.5	1 095

1302		1979	09	24.90290	00	03	17.63	-03	53	10.9	0.0	0		1	095
1399		1979	09	24.90290	00	03	31.10	-04	32	07.2	0.1-	1-		1	095
1979	SX3 *	1979	09	24.90290	00	05	17.71	-03	50	49.5			17.8	1	095
1979	SY3 *	1979	09	24.90290	00	08	58.15	-09	58	54.4			16.5	1	095
1979	SZ3 *	1979	09	24.90290	00	09	03.15	-06	38	52.1			17.8	2	095
1979	SO	1979	09	24.90290	00	09	14.65	-01	05	03.7			16.5	1	095
770		1979	09	24.90290	00	09	42.39	-05	31	35.0	0.0	2-			095
1979	SA4 *	1979	09	24.90290	00	12	28.27	-04	48	49.8			17.8		095
1979	SB4 *	1979	09	24.90290	00	12	44.17	-09	28	09.9			17.0	1	095
1979	SC4 *	1979	09	24.90290	00	13	57.14	-04	21	53.9			17.5		095
1979	SD4 *	1979	09	24.90290	00	14	04.03	-01	11	14.4			17.0	1	095
1979	SE4 *	1979	09	24.90290	00	14	47.20	-04	35	00.1			16.0		095
1979	SF4 *	1979	09	24.90290	00	16	50.82	-02	41	06.9			17.8		095
1938	GC	1979	09	24.90290	00	17	37.21	-07	25	30.3			17.0		095
1979	SG4 *	1979	09	24.90290	00	20	05.03	-03	56	07.3			17.5		095
2344		1979	09	24.90290	00	20	37.80	-05	18	56.2	0.0	1-			095
1979	SH4 *	1979	09	24.90290	00	20	49.88	-06	38	48.8			17.8		095
44		1979	09	24.90290	00	21	21.34	-02	57	44.6	0.0	1-			095
1979	SJ4 *	1979	09	24.90290	00	22	38.97	-04	28	57.4			17.8		095
1979	SK4 *	1979	09	24.90290	00	22	40.29	-01	04	24.8			17.8	1	095
1979	SL4 *	1979	09	24.90290	00	24	09.03	-05	22	32.6			17.8		095
1755		1979	09	24.90290	00	25	13.22	-04	46	05.9	0.1-	1-			095
1979	SM4 *	1979	09	24.90290	00	26	55.52	-04	53	35.5			17.0		095
859		1979	09	24.90290	00	27	44.60	-09	50	35.7	0.1-	2-		1	095
655		1979	09	24.90290	00	28	39.75	-05	42	13.8	0.1-	1-			095
1979	SN4 *	1979	09	24.90290	00	29	29.78	-00	20	29.5			16.5	1	095
1979	SO4 *	1979	09	24.90290	00	30	33.87	-02	26	51.8			17.0		095
1979	SP4 *	1979	09	24.90290	00	31	55.17	-04	23	36.9			17.5		095
1466		1979	09	24.90290	00	32	40.92	-07	39	49.2	0.1+	0			095
1482		1979	09	24.90290	00	33	10.06	-00	58	26.6	0.0	0		1	095
1979	SQ4 *	1979	09	24.90290	00	33	31.17	-03	04	03.2			17.0		095
1979	TH	1979	09	24.90290	00	37	08.50	-07	43	14.7			15.5	1	095
820		1979	09	24.90290	00	37	21.12	-04	49	02.6	0.0	1-		1	095
1746		1979	09	28.89674	00	02	50.19	+09	15	55.0	0.1-	1+		3	095
1979	SY1	1979	09	28.89674	00	06	46.56	+08	35	48.2			17.0		095
1979	SZ1	1979	09	28.89674	00	07	29.81	+09	12	42.9			17.0		095
804		1979	09	28.89674	00	09	05.54	+09	45	47.1	0.1-	1+			095
1979	SB2	1979	09	28.89674	00	10	57.68	+10	12	04.8			16.5		095
1979	SE2	1979	09	28.89674	00	11	35.08	+12	49	45.6			17.0		095
1979	SC2	1979	09	28.89674	00	11	36.20	+08	33	00.0			16.5		095
1979	SF2	1979	09	28.89674	00	17	38.51	+06	53	36.9			17.0	1	095
1979	SH2	1979	09	28.89674	00	19	04.36	+08	21	01.9			16.0		095
1979	SG2	1979	09	28.89674	00	19	14.52	+14	56	00.8			17.0		095
1979	SJ2	1979	09	28.89674	00	19	30.06	+09	07	17.8			17.5		095
1939	TM	1979	09	28.89674	00	19	30.25	+08	34	29.8			16.5		095
1979	SK2	1979	09	28.89674	00	22	10.75	+09	59	22.7			17.5		095
1979	SM2	1979	09	28.89674	00	23	36.80	+12	54	32.2			17.0		095
1979	SN2	1979	09	28.89674	00	24	11.92	+10	52	48.8			17.5		095
1979	SL2	1979	09	28.89674	00	24	24.50	+11	16	21.9			17.5		095
1979	SO2	1979	09	28.89674	00	26	19.19	+10	55	25.2			16.5		095
1979	SQ2	1979	09	28.89674	00	26	23.90	+07	24	43.8			17.0	1	095
1979	SR2	1979	09	28.89674	00	28	26.44	+07	21	53.1			17.0	1	095
819		1979	09	28.89674	00	29	17.03	+08	51	18.6	0.0	1+			095
1979	SR4 *	1979	09	28.89674	00	29	43.40	+08	57	46.0			17.5		095
179		1979	09	28.89674	00	30	52.25	+15	21	01.3	0.1+	2+			095
1979	SS4 *	1979	09	28.89674	00	30	55.07	+06	40	44.8			17.0	1	095
1979	SS2	1979	09	28.89674	00	31	40.16	+14	12	22.7			17.5		095
1979	SU2	1979	09	28.89674	00	33	19.13	+12	06	03.3			16.5		095
1979	ST2	1979	09	28.89674	00	33	57.16	+08	54	49.7			16.0		095



1979 SV2	1979 09 28.89674	00 36 29.35	+07 52 18.6			17.0	1	095
701	1979 09 28.89674	00 37 59.22	+13 09 03.3	0.0	1+			1 095
1979 SX2	1979 09 28.89674	00 41 34.36	+11 34 15.8			16.0	1	095
2204	1979 10 17.87133	23 35 02.40	-19 13 50.2	0.7-	5+			3 095
410	1979 10 17.87133	23 50 12.00	-19 02 56.3	0.2-	3-			095
146	1979 10 17.87133	23 51 05.63	-21 26 12.3	0.3-	3-			095
2245	1979 10 17.87133	23 53 50.78	-21 14 25.8	0.2-	3-			095

Note 1: near edge of plate. 2: measurement uncertain. 3 = 1 + 2. 4: fast-moving object.

## OBSERVATIONS MADE AT GEISEI BY T. SEKI.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
2447	1981 08 05.72170		21 58 11.42	-10 17 22.0	15.8	372
2447	1981 08 05.73368		21 58 11.04	-10 17 30.1		372
1981 SA *	1981 09 26.79228		04 05 34.28	+17 04 02.7	17	372
1981 SA	1981 09 27.69479		04 05 29.86	+17 06 28.4		372
1981 SA	1981 10 02.74375		04 04 43.14	+17 19 33.6		372
1981 SA	1981 10 03.73681		04 04 29.69	+17 22 06.1		372

## OBSERVATIONS MADE AT MT. JOHN UNIVERSITY OBSERVATORY BY A. C. GILMORE AND P. M. KILMARTIN (ASSISTED BY R. MC INTOSH).

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1981 QB	1981 09 21.53089		21 13 48.06	-46 57 15.8	18	474
1981 QB	1981 09 21.55299		21 13 47.08	-46 59 05.0		474
1981 QB	1981 09 23.51100		21 12 34.20	-49 39 35.9	17	474
1981 QB	1981 09 23.52882		21 12 33.41	-49 41 05.2		474
1981 QJ1 *	1981 08 30.55485		20 56 07.37	-28 15 13.3	18.4	474
1981 QJ1	1981 08 30.57661		20 56 06.24	-28 15 09.7		474
1981 QJ1	1981 08 31.38019		20 55 26.96	-28 12 07.6		474
1981 QJ1	1981 08 31.40484		20 55 25.63	-28 12 03.4		474
1981 QJ1	1981 09 01.35124		20 54 40.22	-28 08 24.8		474
1981 QJ1	1981 09 01.37265		20 54 39.25	-28 08 18.4		474
1981 QJ1	1981 09 06.47499		20 50 52.99	-27 46 47.1		474
1981 QJ1	1981 09 06.50010		20 50 52.11	-27 46 41.1		474

## OBSERVATIONS MADE AT HEMINGFORD ABBOTS BY A. YOUNG. MEASURED BY B. MANNING. PHOTOMETRY ADDED AND RESULTS COMMUNICATED BY G. M. HURST.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1981 QA	1981 09 02.88009		20 54 30.54	-03 07 49.8	14.3	489
1981 QA	1981 09 02.89306		20 54 32.97	-03 08 15.1		489
1981 QA	1981 09 05.94965		21 05 52.59	-04 56 40.7	14.3	489
1981 QA	1981 09 05.95660		21 05 54.08	-04 56 53.3		489

## OBSERVATIONS MADE AT MESCHEDÉ BY R. HEMPEL.

Object	Date	UT	R. A. (1950)	Decl.	Obs.
2100	1981 09 03.85095		20 43 34.31	+05 16 39.8	519
2100	1981 09 03.86506		20 43 31.88	+05 15 19.0	519
2100	1981 09 03.88487		20 43 28.42	+05 13 24.5	519
2100	1981 09 03.89575		20 43 26.42	+05 12 22.1	519
2100	1981 09 04.85905		20 40 54.60	+03 41 21.6	519
2100	1981 09 04.86250		20 40 53.93	+03 41 02.6	519
2100	1981 09 04.87013		20 40 52.67	+03 40 20.4	519
2100	1981 09 04.87706		20 40 51.52	+03 39 41.4	519
2100	1981 09 05.84944		20 38 27.78	+02 10 45.2	519
2100	1981 09 05.85975		20 38 26.15	+02 09 47.7	519
2100	1981 09 05.87295		20 38 24.13	+02 08 36.7	519
2100	1981 09 05.87777		20 38 23.40	+02 08 10.8	519
2100	1981 09 05.88747		20 38 21.94	+02 07 18.7	519
2100	1981 09 05.89235		20 38 21.10	+02 06 51.4	519

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

Object	Date	UT	R. A. (1950)	Decl.	N	Obs.
1981 QA	1981 09	21.31914	22 02 22.53	-12 15 52.4		1 675
2221 P-L *	1960 09	24.42500	00 59 20.94	+11 46 31.5		2 675
2221 P-L	1960 09	24.45000	00 59 19.64	+11 46 23.0		2 675
2221 P-L	1960 09	26.34653	00 57 38.73	+11 33 37.6		2 675
2221 P-L	1960 09	26.37010	00 57 37.28	+11 33 28.2		2 675
2221 P-L	1960 09	28.42778	00 55 44.21	+11 18 55.5		2 675
2221 P-L	1960 09	29.42083	00 54 48.87	+11 11 42.0		2 675
2221 P-L	1960 09	29.44510	00 54 47.32	+11 11 29.1		2 675
2221 P-L	1960 10	26.36840	00 31 38.17	+07 36 35.0		2 675

Note 1: observer J. Gibson. 2: observer T. Gehrels; measurements by C. J. van Houten and I. van Houten-Groeneveld; reductions by P. Herget.

## OBSERVATIONS MADE AT THE LOWELL OBSERVATORY'S ANDERSON MESA STATION BY E. BOWELL, B. A. SKIFF AND N. G. THOMAS. MEASURED BY BOWELL.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
343	1981 06	24.23889	17 55 32.76	-27 31 47.7		688
1565	1981 08	27.20417	19 38 22.06	+16 58 11.5		688
1565	1981 08	27.22778	19 38 21.14	+16 58 11.4		688
2443	1981 08	27.27361	21 36 30.90	-21 48 58.2	15.5	688
2443	1981 08	27.30833	21 36 29.31	-21 49 10.2		688
2447	1981 08	26.30764	21 45 36.34	-14 10 34.8	15.2	688
2447	1981 08	26.34653	21 45 34.73	-14 11 00.8		688
2447	1981 08	30.28542	21 43 10.44	-14 55 52.8	15.8	688
2447	1981 08	30.32014	21 43 09.16	-14 56 16.6		688
2448	1981 09	03.14861	19 46 30.68	-20 25 56.9		688

## OBSERVATIONS MADE AT THE OAK RIDGE OBSERVATORY BY R. E. MC CROSKY, C.-Y. SHAO AND G. SCHWARTZ (ASSISTED BY C. M. BARDWELL, D. W. E. GREEN AND B. G. MARSDEN).

Object	Date	UT	R. A. (1950)	Decl.	Mag.	N	Obs.
1162	1981 08	27.30468	00 01 47.87	-01 46 24.9	16.0		801
2221	1980 09	12.10090	21 31 41.64	+10 45 27.6			801
2304	1980 09	09.26564	02 00 55.65	+11 50 54.1			801
2306	1980 09	09.29123	02 07 16.61	+16 51 13.0			801
2307	1979 06	01.16385	17 30 03.03	-21 51 49.5			801
2307	1980 09	04.23553	23 10 31.22	+06 57 54.5			801
2311	1980 09	09.12833	22 01 17.14	-11 21 13.0			801
2331	1980 12	04.15142	02 50 57.50	+18 31 30.3			801
2332	1980 12	04.07169	02 32 49.86	+10 23 01.7			801
2352	1980 09	04.31247	00 21 53.20	+20 59 57.6			801
2353	1980 12	04.18804	03 27 23.64	+23 17 01.0			801
2374	1981 01	31.08265	03 48 22.84	+38 56 50.2			801
2385	1981 04	08.17744	10 30 37.74	+11 17 31.1			801
2409	1981 03	02.23061	10 37 19.68	+10 34 01.7			801
2409	1981 04	08.12005	10 11 01.76	+13 29 58.6			801
2441	1981 01	31.18801	07 50 31.63	+19 07 32.0			801
2444	1981 07	09.17797	19 24 30.67	-20 56 42.5			801
2444	1981 08	03.13738	19 01 02.97	-19 53 55.4			801
2447	1981 08	27.22229	21 45 01.57	-14 21 06.5			801
2449	1981 08	22.11256	18 48 02.68	+17 02 48.1			801
2459	1981 08	27.24649	21 56 13.86	+01 16 08.2			801
1932 BH	1981 08	29.29600	01 07 48.96	+02 59 00.1			801
1940 GN	1981 01	03.16927	04 37 43.10	+22 39 35.4		1	801
1964 TA1	1981 08	26.24687	22 56 50.12	-08 14 09.7			801
1968 SB	1980 12	05.33538	06 23 46.94	+24 23 50.2			801
1968 SB	1981 03	02.08132	05 43 52.82	+24 59 51.7			801
1969 TO1	1980 12	04.24339	05 05 46.39	+16 52 36.2			801

1975 EE3	1981 08 26.09399	20 20 58.71	+09 21 39.9		801
1975 NY	1981 08 27.32809	00 05 30.30	-02 03 17.6		801
1976 QG1	1981 09 29.19502	23 51 05.14	-01 55 19.3		801
1976 QG1	1981 09 30.24638	23 50 18.16	-02 01 01.5		801
1976 QG1	1981 10 01.12479	23 49 39.59	-02 05 48.4		801
1976 QG1	1981 10 06.08873	23 46 08.22	-02 31 41.6		801
1976 UP20	1981 08 26.13872	20 19 39.26	-13 02 35.7		801
1977 NT	1981 02 28.22559	10 37 58.66	+09 31 05.2		801
1977 PY1	1981 09 05.15692	21 13 33.94	-06 27 50.7		801
1977 PZ1	1981 09 05.17968	21 36 53.45	-08 59 50.6		801
1977 QL2	1981 08 29.20304	23 08 14.20	+00 20 18.1		801
1977 UQ	1981 08 27.30468	00 03 07.28	-01 55 49.8		801
1978 RO1	1981 08 26.16584	22 18 56.46	-09 24 41.1		801
1978 SP	1981 08 27.19841	21 10 28.03	-16 57 43.8		801
1979 DE	1981 08 27.27635	22 11 19.19	-20 24 59.3		801
1979 DK	1981 08 29.22829	00 06 30.76	+12 20 43.0		801
1979 MR4	1981 03 02.04743	04 50 18.33	+17 27 38.6		801
1980 EC	1981 09 05.08128	19 27 01.24	-12 00 26.3	1	801
1981 PA	1981 08 22.13855	22 20 48.73	-02 06 43.7		801
1981 PA	1981 08 29.17697	22 10 22.61	-01 23 24.1		801
1981 QA	1981 09 07.16667	21 10 25.60	-05 38 34.6		801
1981 QK1 *	1981 08 26.24687	22 57 26.10	-08 24 55.2	17.5	801
1981 QL1 *	1981 08 27.24649	21 56 01.20	+01 31 42.0	18.0	801
1981 SB *	1981 09 29.19502	23 51 31.77	-01 38 52.6	16.0	801
1981 SB	1981 09 30.24638	23 50 49.19	-01 48 31.4		801
1981 SB	1981 10 01.12479	23 50 14.78	-01 56 29.0		801
1981 SB	1981 10 06.08873	23 47 14.59	-02 38 56.4		801
1981 SC *	1981 09 29.19502	23 52 32.77	-01 47 01.7	17.5	801
1981 SC	1981 09 30.24638	23 51 26.89	-01 47 28.6		801
1981 SC	1981 10 01.12479	23 50 31.99	-01 47 46.1		801
1981 SD *	1981 09 30.24638	23 50 47.94	-01 46 16.4	18.0	801
1981 SD	1981 10 01.12479	23 50 08.91	-01 52 41.5		801
1981 SD	1981 10 06.08873	23 46 41.86	-02 27 02.2	17.5	801
1981 SE	1981 09 29.19502	23 52 12.12	-01 46 01.6	2	801
1981 SE *	1981 09 30.24638	23 51 17.58	-01 52 36.7	18.5 3	801
1981 SE	1981 10 01.12479	23 50 32.84	-01 57 52.9		801
1981 SE	1981 10 06.08873	23 46 28.64	-02 26 58.2	18.5	801
1981 TA *	1981 10 01.12479	23 50 19.67	-02 08 52.4	18.0	801
1981 TB	1981 09 30.24638	23 51 49.41	-01 55 38.0	18.5 3	801
1981 TB *	1981 10 01.12479	23 51 08.60	-01 59 22.0		801
2605 P-L	1981 06 01.15447	13 28 44.24	-12 16 11.6		801
7071 P-L	1981 08 27.06976	18 42 33.96	+13 26 46.1		801

Note 1: weak image. 2: doubtful image. 3: inkdot measured.

OBSERVATION MADE AT CERRO TOLOLO INTERAMERICAN OBSERVATORY BY W. LILLER.  
MEASURED BY C.-Y. SHAO.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1979 BB *	1979 01 21.11319		05 39 36.39	-02 41 40.8	18	807

OBSERVATIONS MADE WITH THE 0.4-M ASTROGRAPH AT THE EUROPEAN SOUTHERN OBSERVATORY BY H. DEBEHOGNE AND G. DE SANCTIS. MEASURED BY DEBEHOGNE.

Object	Date	UT	R. A. (1950)	Decl.	Mag.	Obs.
1981 EZ	1981 03 01.20504		11 58 17.49	+01 25 23.6	17.8	809
1981 EZ	1981 03 01.21197		11 58 17.13	+01 25 25.8		809
1981 EZ	1981 03 01.21889		11 58 16.79	+01 25 28.1		809
1981 EZ	1981 03 02.15106		11 57 31.19	+01 29 51.6		809
1981 EZ	1981 03 02.15798		11 57 30.86	+01 29 53.6		809
1981 EZ	1981 03 02.16491		11 57 30.53	+01 29 55.6		809

1981 EZ	1981 03	03.22625	11 56	37.30	+01 35	05.4	809
1981 EZ	1981 03	03.23317	11 56	36.95	+01 35	07.3	809
1981 EZ	1981 03	03.24010	11 56	36.60	+01 35	09.2	809
1981 EZ	1981 03	06.32784	11 53	55.71	+01 50	39.4	809
1981 EZ	1981 03	06.33475	11 53	55.35	+01 50	41.5	809
1981 EZ	1981 03	06.34167	11 53	54.98	+01 50	43.5	809
1981 EZ	1981 03	07.27315	11 53	04.90	+01 55	34.3	809
1981 EZ	1981 03	07.28007	11 53	04.52	+01 55	36.4	809
1981 EZ	1981 03	07.28700	11 53	04.14	+01 55	38.6	809
1981 EZ	1981 03	08.31821	11 52	07.83	+02 01	01.7	809
1981 EZ	1981 03	08.32513	11 52	07.50	+02 01	03.9	809
1981 EZ	1981 03	08.33206	11 52	07.12	+02 01	06.1	809
1981 EZ	1981 03	09.33555	11 51	11.63	+02 06	23.9	809
1981 EZ	1981 03	09.34248	11 51	11.23	+02 06	25.9	809
1981 EZ	1981 03	09.34941	11 51	10.86	+02 06	28.0	809
1981 EZ	1981 03	10.36884	11 50	14.37	+02 11	51.8	809
1981 EZ	1981 03	10.37577	11 50	13.98	+02 11	54.0	809
1981 EZ	1981 03	10.38270	11 50	13.58	+02 11	56.2	809
1981 EZ	1981 03	11.34880	11 49	19.43	+02 17	06.6	809
1981 EZ	1981 03	11.35572	11 49	19.05	+02 17	08.9	809
1981 EZ	1981 03	11.36265	11 49	18.66	+02 17	11.0	809
1981 EZ	1981 03	12.34538	11 48	23.32	+02 22	27.1	809
1981 EZ	1981 03	12.35230	11 48	22.94	+02 22	29.1	809
1981 EZ	1981 03	12.35923	11 48	22.55	+02 22	31.2	809
1981 EZ	1981 03	15.27970	11 45	37.09	+02 38	10.3	809
1981 EZ	1981 03	15.28663	11 45	36.70	+02 38	12.5	809
1981 EZ	1981 03	15.29355	11 45	36.29	+02 38	14.8	809

17.8

\* \* \* \* \*

## OBSERVATIONS USED IN ORBIT IMPROVEMENTS.

The following observations have been used in orbit improvements and are now included in the cumulative observation index on magnetic tape. This is a continuation from MPC 5970-5971 but is less comprehensive than the earlier lists because of a recent effort to include on the tape observations of then-unnumbered minor planets prior to the nominal starting date of 1939.

Object	Date	UT	R. A. (1950)		Decl.	Obs.	
1019	1924 03	08.91681	09 39	48.07	+23 40	40.3	024
1019	1924 03	09.92722	09 39	00.90	+24 00	45.7	024
1019	1924 03	12.06735	09 37	27.16	+24 41	40.0	024
1019	1924 03	13.02257	09 36	48.27	+24 59	14.7	024
1019	1924 03	14.01353	09 36	10.79	+25 16	57.1	536
1019	1924 03	14.03935	09 36	09.48	+25 17	27.4	024
1019	1924 03	14.04936	09 36	09.29	+25 17	35.2	536
1019	1924 03	15.04061	09 35	33.15	+25 34	48.8	536
1019	1924 03	15.04950	09 35	32.81	+25 35	01.3	536
1019	1924 03	27.92281	09 31	11.42	+28 35	21.0	024
1019	1924 04	11.21373	09 34	06.94	+30 28	57.8	754
1019	1924 04	23.15317	09 42	19.99	+31 07	00.5	754
1019	1924 04	23.17117	09 42	21.10	+31 07	02.0	754
1019	1924 04	29.17699	09 48	09.14	+31 10	16.2	754
1019	1924 04	29.19369	09 48	10.08	+31 10	15.2	754
1019	1927 05	26.93958	15 52	55.66	+34 39	43.0	024
1019	1927 06	03.01801	15 46	01.93	+33 54	04.8	024
1019	1927 06	22.198	15 33	35	+29 21.3		754
1019	1927 06	27.148	15 32	21	+27 43.0		754



1979	FJ2	12.7	790328	262.40	195.55	102.33	2.95	0.1510	3.1007	28	3	K
1979	FQ2	13.3	790417	317.07	194.31	57.74	10.81	0.0488	3.0017	32	3	K
1979	FR2	13.9	790417	66.92	80.38	51.26	5.08	0.0785	2.4489	32	3	K
1979	FS2	12.7	790417	203.38	246.42	120.06	5.25	0.0594	3.0837	32	3	K
1979	FT2	14.8	790417	348.26	171.52	48.95	6.09	0.0549	2.1978	33	4	K
1979	FU2	12.5	790417	311.53	215.69	48.19	14.18	0.0806	3.1198	32	3	B
1979	FA3	13.2	790417	337.53	40.36	181.79	19.02	0.1503	3.0506	25	3	K
1979	HT3	13.6	790427	5.48	72.70	132.11	2.07	0.1568	3.1942	6	3	K
1979	HX3	16.6	790427	338.28	60.66	187.98	6.69	0.2304	2.0440	6	3	K
1979	KX	13.5	790507	93.92	63.29	16.63	3.30	0.1986	3.1321	52	4	B
1979	OH1	14.5	790726	18.66	138.19	137.66	11.79	0.0687	3.1891	8	6	B
1979	OM1	13.0	790726	239.73	155.63	275.55	4.75	0.1543	3.0420	9	6	B
1979	OR7	13.0	790726	180.30	183.80	293.31	11.11	0.0200	2.9703	5	3	2 M
1979	OB15	15.0	790726	341.19	50.71	285.07	2.58	0.1941	2.3596	29	3	B
1979	OD15	15.5	790726	310.28	203.72	167.12	4.90	0.1247	2.2609	29	3	B
1979	OJ15	14.2	790726	312.78	245.11	136.36	5.94	0.2308	2.4163	30	3	K
1979	OK15	15.5	790726	17.14	131.42	154.68	4.65	0.1698	2.2159	30	3	B
1979	OM15	14.0	790726	341.87	146.67	193.50	0.53	0.1914	3.1121	30	3	K
1979	QL1	14.0	790815	82.25	342.09	249.76	1.59	0.1022	2.3080	41	0	B
1979	QK2	15.0	790815	51.91	77.55	177.31	2.34	0.1860	2.3670	41	0	B
1979	QU2	14.0	790815	340.26	201.19	148.77	2.57	0.0873	2.8757	30	0	B
1979	QX3	14.0	790815	3.17	357.39	325.61	10.17	0.1815	3.1980	41	0	B
1979	QB4	16.5	790815	19.75	156.05	139.03	1.73	0.2171	2.3434	26	9	B
1981	EZ	15.5	810317	47.23	92.51	19.74	1.28	0.1662	2.4077	14	0	M
1981	PA	14.5	810824	304.83	107.89	322.27	21.65	0.3577	2.3616	29	6	M
1981	QJ1	14.0	810824	247.53	97.45	338.72	19.62	0.0850	2.9864	7	8	M
1981	SA	12.5	811003	175.42	175.78	56.13	18.39	0.0391	3.0971	7	4	2 M
1981	SB	15.0	811003	15.20	162.84	178.01	4.31	0.1950	2.1956	7	4	2 M
1981	SC	14.0	811003	180.50	178.38	2.45	16.36	0.0581	2.5439	2	3	2 M
1981	SD	17.0	811003	7.21	178.57	174.72	2.44	0.1663	2.1830	2	3	2 M
1981	SE	15.0	811003	123.73	64.77	162.68	1.69	0.1174	2.4194	7	4	2 B

Note 1: double designations 1955 RY = 1955 SY1 (P, MPC 1556; see also erratum MPC 6345), 1955 RY = 1955 TD (B), 1955 RE1 = 1955 TF (B); the double designation 1955 SY1 = 1955 TF (MPC 1453) is invalid. 2: e assumed.

\* \* \* \* \*

ORBITAL ELEMENTS BY L. K. KRISTENSEN, INSTITUTE OF PHYSICS, AARHUS.

(843) Nicolaia

Epoch 1981 July 15.0 ET = JDE 2444800.5

M 325.61467

(1950.0)

P

Q

n 0.28645045 Peri. 316.30918 +0.76726831 +0.64125865

a 2.2791332 Node 3.84019 -0.54353199 +0.65790700

e 0.2087646 Incl. 7.99150 -0.34040023 +0.39489964

P 3.44 B(1,0) 14.8

Residuals in seconds of arc

160920 024(18.7-) 0.9- 161022 029 0.2+ 0.8- 781008 095 1.4- 0.3-

160930 029 1.6+ 0.4+ 161027 029 0.5- 0.4- 781101 095 0.1+ 1.4-

160930 029 0.8- 1.0+ 161031 029 0.9- 0.7- 810528 809 0.3- 0.1-

161003 029 0.9- 0.5+ 161129 029 2.1+ 2.9+ 810528 809 0.0 0.4-

161003 029 0.6+ 0.1- 161129 029 2.2- 0.0 810603 809 0.1+ 0.2-

161016 029 1.2+ 0.8- 161214 029 0.2- 0.2+ 810604 809 0.1+ 0.1-

161016 029 2.1- 2.2- 780906 095 0.9- 3.2+ 810609 809 0.1+ 0.7+

161018 029 0.8+ 0.4+ 780926 095 0.1+ 0.0

161022 029 1.5+ 0.3+ 781002 095 1.4+ 0.1-

## ORBITAL ELEMENTS BY L. D. SCHMADEL, ASTRONOMISCHES RECHEN-INSTITUT.

The identifications are by L. D. Schmadel.

(2160) 1956 RL = 1966 RN = 1971 UV1

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	87.11774		(1950.0)		P		Q
n	0.19980622	Peri.	209.09598		+0.95670756		+0.28883762
a	2.8977664	Node	134.06890		-0.25644557		+0.89475939
e	0.1006790	Incl.	2.85803		-0.13764560		+0.34055610
P	4.93	B(1,0)	13.7				

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

560907	760	(0.04- 0.00+)X	660915	095	2.8-	0.4+	761026	095	1.2-	2.6-
560907	760	1.9+ 0.1+	711020	095	2.6-	4.4+	790323	095	(3.2-	0.4-)
560909	760	0.8- 1.4-	760924	095	0.9+	2.5+	790327	801	0.2-	0.3-
560909	760	2.0- 1.0-	760929	095	0.7+	4.6-	790329	095	(0.7-	0.5-)
560927	839	1.1+ 0.7+	761025	095	3.2+	0.3+	790422	801	0.1-	0.3-

(2178) Kazakhstania = 1949 UC

The identification was found independently by B. G. Marsden (MPC 6066).

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	11.38490		(1950.0)		P		Q
n	0.30046254	Peri.	350.45408		+0.99958933		-0.02673057
a	2.2077124	Node	11.09332		+0.02853132		+0.89476270
e	0.1549273	Incl.	3.07674		+0.00267156		+0.44574117
P	3.28	B(1,0)	15.0				

Residuals in seconds of arc

491022	024	1.9+ 1.0-	750830	808	0.5-	1.1+	780709	809	0.8-	1.0-
491025	024	0.1- 2.8-	750830	808	0.2+	0.4+	780710	809	0.2-	2.3-
720911	095	0.4- 1.0-	750831	808	0.2+	0.7-	780711	809	0.6+	1.5-
721003	095	0.0 0.6+	750902	808	0.8-	0.2-	791225	046	1.5-	3.4-
721005	095	0.1+ 0.5+	750902	808	0.3+	0.2-	791225	046	0.2+	0.1+
721013	095	0.4+ 0.1-	780702	304	(37.2-	62.3+)X	800115	046	0.9+	1.0-
721028	095	2.0- 1.7+	780703	304	(43.5+	41.6+)X	800115	046	0.2-	0.0
721108	095	0.8+ 1.0+	780705	304	(7.3+	7.3-)X				

(2190) Coubertin = 1960 DF

This orbit supersedes that on MPC 6303.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	223.06651		(1950.0)		P		Q
n	0.25381988	Peri.	317.34686		-0.77351807		+0.63361186
a	2.4705044	Node	261.97590		-0.57747250		-0.71394827
e	0.0914001	Incl.	0.83011		-0.26114232		-0.29801657
P	3.88	B(1,0)	13.6				

Residuals in seconds of arc

600227	760	0.0 1.0+	760405	095	3.1+	0.2-	760502	095	1.4-	0.2-
600227	760	0.4+ 0.1+	760423	808	2.1+	0.7+	760503	808	0.6+	1.5-
730827	095	0.9+ 1.3-	760423	808	0.8+	1.0+	760503	808	0.6+	0.4+
730905	095	0.4- 0.0	760427	808	1.0-	0.1-	770819	095	0.6-	1.8+
760401	808	3.6- 1.1+	760427	808	1.0-	0.4-	770820	095	0.9-	1.3+
760401	808	0.2- 1.5+	760430	808	0.0	0.3+	770909	095	0.1+	0.1+
760402	095	0.1- 1.4-	760430	808	0.2+	0.4-				

(2203) 1935 SQ1 = 1957 UX

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	200.33181		(1950.0)		P		Q	
n	0.17888706	Peri.	323.52376		+0.97101198		-0.23798765	
a	3.1194888	Node	50.25939		+0.22558614		+0.88153882	
e	0.1776717	Incl.	1.66240		+0.07903563		+0.40773912	
P	5.51	B(1,0)	12.5					

Residuals in seconds of arc

350928	078	0.1-	0.5-	750116	330	0.1-	0.1+	800113	801	0.4+	0.5+
351001	078	1.5-	0.5-	750117	330	3.9-	0.8+	800114	801	1.5-	1.2-
351015	078	0.1-	0.9+	750118	330	1.3+	0.7+	810101	688	0.0	0.3-
351018	078	0.3-	1.1+	791111	879	1.4+	1.3-	810101	688	0.6-	0.2-
351027	078	0.7-	0.0	791111	879	3.0+	0.6-	810110	688	(0.6-	0.9-)
351030	078	2.4+	0.3+	791218	805	0.7-	2.0+	810110	688	(0.5-	0.5-)
571020	760	(84.4+	23.3+)X	791218	801	1.3-	1.3-	810208	688	0.5+	0.3-
741214	095	0.5+	1.3-	791219	805	1.0+	1.2+	810208	688	0.3-	0.0
741218	330	2.3+	0.4+	791219	801	1.7-	1.2-				
750112	330	0.0	0.4+	791220	805	1.4-	0.1+				

(2214) 1953 GF = 1977 TE7

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	341.75974		(1950.0)		P		Q	
n	0.17369438	Peri.	131.68031		+0.77073894		+0.63600966	
a	3.1813555	Node	189.05577		-0.63246606		+0.75645886	
e	0.2501666	Incl.	14.01630		-0.07712443		+0.15251788	
P	5.67	B(1,0)	12.9					

Residuals in seconds of arc

530407	024	(10.8+	2.5-)	601017	675	0.5-	1.2-	771009	095	0.4-	0.6-
530412	024	3.2+	0.3-	601022	675	1.6-	1.4-	810405	688	1.6+	3.0-
530419	024	2.8-	1.1-	601025	675	1.0-	1.0-	810405	688	1.6-	0.0
600924	675	(0.4-	4.2-)	601026	675	1.0-	0.8-	810407	688	0.9+	0.8+
600926	675	0.8-	1.0-	770911	095	0.0	0.9-	810407	688	2.8-	1.0-
600928	675	0.2+	1.2-	770918	095	1.7+	0.8+	810409	688	0.4+	0.5-
600929	675	0.3+	1.0-	770921	095	0.9+	2.6-	810409	688	0.4-	4.4-

\* \* \* \* \*

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

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

(2463)\* 1934 FF = 1930 FF = 1930 FN = 1949 UT = 1978 PO4

Discovered 1934 Mar. 10 by G. Van Biesbroeck at the Yerkes Observatory.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	256.57767		(1950.0)		P		Q	
n	0.23516444	Peri.	265.19894		+0.10758184		-0.99417976	
a	2.5994908	Node	178.58648		+0.97908812		+0.10494565	
e	0.1541193	Incl.	13.41290		+0.17266326		+0.02435168	
P	4.19	B(1,0)	13.5					

Residuals in seconds of arc

300322	690	(84.2+	71.8+)X	340316	024	0.5-	1.9+	780926	095	0.7-	2.5+
300330	024	1.6+	2.9+	340319	754	1.1+	1.7-	780927	095	2.2-	2.9+
340310	754	1.0-	1.0-	491028	760	1.5-	1.9-	781002	095	1.4+	1.2+
340314	754	0.9-	0.0	491028	760	2.8+	4.1-	810509	801	0.2-	2.8-
340316	754	0.1+	1.1+	780809	095	0.1+	0.4-	810524	801	0.3-	2.8-



(2464)\* 1939 BF = 1939 CP = 1971 SY2 = 1973 GD = 1976 SY9

Discovered 1939 Jan. 19 by Y. Vaisala at Turku. The key identification 1939 BF = 1971 SY2 is by E. Bowell (MPC 4828). The double designation 1939 BF = 1939 CP is given on RI 1936.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	296.81092	(1950.0)	P	Q
n	0.17582987	Peri. 79.60787	+0.03908051	-0.99923379
a	3.1555443	Node 8.15332	+0.91075139	+0.03474178
e	0.2212790	Incl. 0.86151	+0.41110171	+0.01802337
P	5.61	B(1,0) 12.5		

Residuals in seconds of arc

381217 062	1.4+	4.5-	390212 062	0.7+	0.9+	730403 029	0.9+	0.8-
390119 062	1.9+	0.5-	390217 062	3.3-	3.5+	730403 029	0.6+	1.0-
390207 024	0.4-	1.5+	710927 095	0.6+	0.4+	760924 095	0.6+	1.8+
390208 062	0.1-	0.2+	711012 095	1.4-	1.3-	790331 095	1.7-	0.4+

(2465)\* 1949 PK = 1949 QS = 1949 SK = 1968 XD = 1971 KH = 1981 PT

Discovered 1949 Aug. 2 by K. Reinmuth at Heidelberg. The double designations 1949 PK = 1949 QS and 1949 PK = 1949 SK are by K. Reinmuth (MPC 383) and by O. Kippes (MPC 1331), respectively.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	105.24816	(1950.0)	P	Q
n	0.21569091	Peri. 5.73418	+0.49485065	+0.86680325
a	2.7536886	Node 293.93934	-0.79988113	+0.42673278
e	0.0743130	Incl. 3.85453	-0.33957769	+0.25797530
P	4.57	B(1,0) 13.5		

Residuals in seconds of arc

490802 024	2.1+	0.6+	681213 095	1.9-	3.0-	810809 046	0.1+	0.1+
490818 690	0.2+	3.0-	710524 095	1.7-	0.8-	810809 046	0.4-	0.2+
490820 690	0.5-	2.9-	790124 095	2.4+	0.3+	810811 046	1.7+	2.2+
490927 760	1.0-	2.4+	810807 046	0.6-	1.4+	810811 046	1.6-	0.1-
490927 760	2.3+	0.0	810807 046	0.6-	1.1+			

(2466)\* 1959 RJ = 1959 TC = 1929 SL = 1951 YL1 = 1964 YD = 1976 QT

Discovered 1959 Sept. 7 at the Goethe Link Observatory, Indiana University. The double designation 1959 RJ = 1959 TC was published in JC 189/190. The 1979 observations were identified at the Crimean Astrophysical Observatory.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	128.60471	(1950.0)	P	Q
n	0.23027491	Peri. 194.03330	+0.99318502	+0.11231508
a	2.6361592	Node 159.44059	-0.09654057	+0.94242530
e	0.1654885	Incl. 5.08499	-0.06529497	+0.31499185
P	4.28	B(1,0) 13.5		

Residuals in seconds of arc

290929 690	1.0-	2.0-	591007 760	0.5+	0.5-	760924 095	2.1-	0.6+
511227 711	0.5+	0.1-	641231 330	1.6-	0.0	760927 675	0.9-	0.7-
590907 760	1.9+	2.4+	760826 095	1.0-	0.5+	760927 675	0.2-	0.3-
590907 760	1.4+	2.4+	760827 675	1.1+	0.7-	790331 095	1.3+	1.3-
591001 024	1.3+	1.2-	760828 675	0.2+	0.3-	790424 095	0.6-	0.4+
591007 760	1.5-	0.1-	760830 675	0.4+	0.7-			

(2467)\* 1966 PJ = 1933 ON = 1949 HB = 1953 TK = 1973 YX = 1979 OY14  
= 1981 AN

Discovered 1966 Aug. 14 by L. Chernykh at the Crimean Astrophysical Observatory. The key identification 1966 PJ = 1953 TK is by O. Kippes.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	316.64437		(1950.0)		P		Q
n	0.29931493	Peri.	17.36682	+0.82956204		+0.55283511	
a	2.2133519	Node	308.80930	-0.52356315		+0.72098151	
e	0.1600483	Incl.	5.79958	-0.19418662		+0.41780258	
P	3.29	B(1,0)	14.0				

Residuals in seconds of arc

330727	024	0.8+	1.1-	531112	062	1.9+	0.1+	790721	095	0.1+	1.7+
490425	078	(4.4+	17.0-)X	660814	095	4.1-	1.8-	790730	095	1.5+	0.5-
490504	078	(26.7+	81.0+)X	660913	095	(4.4+	2.4+)	790820	095	0.6+	2.4-
531013	062	1.6+	0.3-	660914	095	0.4+	2.2+	810103	688	2.3-	0.9-
531102	062	1.8-	0.6+	731220	095	1.1+	0.4-	810103	688	0.2+	0.7-

(2468)\* 1969 TO1 = 1976 TB

Discovered 1969 Oct. 8 by L. Chernykh at the Crimean Astrophysical Observatory.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	278.28077		(1950.0)		P		Q
n	0.27761391	Peri.	97.38532	+0.68499398		+0.72618210	
a	2.3272439	Node	216.07879	-0.70153615		+0.63572648	
e	0.1563757	Incl.	5.71822	-0.19654584		+0.26174684	
P	3.55	B(1,0)	14.0				

Residuals in seconds of arc

691008	095	1.3-	3.1+	761015	688	0.9+	4.9-	801206	879	0.2-	0.9-
691013	095	2.6+	3.4+	761017	688	0.7+	4.4-	810103	801	0.9+	2.0-
691016	095	1.0+	1.2+	761026	095	1.2+	1.2+	810204	801	1.7-	2.5+
691111	095	2.7-	0.8+	801204	801	0.7-	0.5-				
691113	095	2.7-	1.7+	801206	879	1.5+	2.1-				

(2469)\* 1970 HA = 1949 QE

Discovered 1970 Apr. 27 by T. Smirnova at the Crimean Astrophysical Observatory. The identification is by E. Bowell (MPC 5276).

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	35.53506		(1950.0)		P		Q
n	0.17914111	Peri.	134.72451	+0.29594902		+0.95201947	
a	3.1165388	Node	152.21061	-0.91679241		+0.30600436	
e	0.1238877	Incl.	9.62228	-0.26815265		+0.00450023	
P	5.50	B(1,0)	13.0				

Residuals in seconds of arc

490821	024	2.1-	0.3-	700528	095	0.5+	1.4+	810507	046	2.2-	0.6-
490822	024	2.2+	0.0	810407	801	0.5+	0.0	810601	801	1.6+	1.0-
700427	095	0.2+	0.3-	810504	801	0.7+	0.9-	810624	801	1.7+	3.4+
700508	095	0.8-	1.0-	810507	046	2.3-	0.4-				

(2470)\* 1976 UW15 = 1976 SW5 = 1940 LA = 1971 SV1 = 1973 AU

Discovered 1976 Oct. 22 by H. Kosai and K. Hurukawa at the Tokyo Observatory's Kiso Station. The 1979 observations were identified at the Crimean Astrophysical Observatory.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	311.31293		(1950.0)		P		Q
n	0.20081414	Peri.	64.07139	-0.80161293		-0.59545357	
a	2.8880621	Node	79.33834	+0.52720357		-0.74619073	
e	0.0084122	Incl.	3.11498	+0.28190976		-0.29771535	
P	4.91	B(1,0)	12.5				

## Residuals in seconds of arc

400603	053	(8.9-	21.5+)	X	730104	095	0.4+	4.0-	761118	381	0.9+	0.7+
400609	053	(40.8+	8.8+)	X	760924	095	0.2-	1.7-	761118	381	0.1+	0.3+
710923	095	0.6+	0.6-		761022	381	0.3-	0.5+	790425	095	0.3+	1.4+
711011	095	0.1+	1.7-		761022	381	0.0	0.6+	790430	095	1.9-	0.1+
730101	095	1.7-	3.6+		761024	381	0.6-	0.5-	790501	095	1.3+	2.4-
730102	095	1.0+	2.1-		761024	381	0.2+	0.1-				

(2471)\* 6545 P-L = 1953 FW = 1976 UV2

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

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	130.87751		(1950.0)		P		Q
n	0.18977887	Peri.	280.01906		+0.43476072		+0.89919391
a	2.9989610	Node	16.02964		-0.74028156		+0.38804485
e	0.0866046	Incl.	10.29079		-0.51280242		+0.20216702
P	5.19	B(1,0)	13.0				

## Residuals in seconds of arc

530316	024	0.3-	1.4-	601017	675	0.9-	0.6-	761026	095	(2.5+	9.7+)
530320	024	1.6-	1.3-	601022	675	2.3-	0.6-	790323	095	0.3-	1.9-
600924	675	0.7+	0.4-	601024	675	0.8+	0.5-	790329	095	1.2-	0.6-
600926	675	1.0+	0.3+	601026	675	0.1+	0.8-	790420	095	2.4+	3.5+
600927	675	1.1+	0.0	761024	381	0.4+	0.3+				
600928	675	1.1+	0.4+	761024	381	0.9-	0.4+				

1976 GB8 = 1976 JP1 = 1979 FB2

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5 (J-P)

M	60.18027		(1950.0)		P		Q
n	0.30828802	Peri.	75.32480		-0.75265404		-0.65840756
a	2.1701970	Node	63.49653		+0.60259550		-0.69089889
e	0.0787236	Incl.	0.21593		+0.26531218		-0.29859370
P	3.20	B(1,0)	15.0				

## Residuals in seconds of arc

760402	095	0.1-	0.9-	760427	808	1.4-	0.4+	760503	808	0.5+	0.7-
760423	808	4.1+	0.9-	760430	808	1.0-	0.4-	760503	808	0.1+	0.4-
760423	808	0.7+	0.7-	760430	808	0.3-	0.8-	790323	095	0.3-	0.2+
760427	808	0.2-	0.1+	760502	095	1.6-	0.8-	790329	095	0.2+	0.1-

1976 JQ2 = 1979 HZ1

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5 (J-P)

M	278.65962		(1950.0)		P		Q
n	0.30283205	Peri.	169.98348		+0.47521731		+0.87775321
a	2.1961855	Node	128.36313		-0.81251003		+0.46437412
e	0.1411576	Incl.	4.46003		-0.33763287		+0.11792361
P	3.25	B(1,0)	14.0				

## Residuals in seconds of arc

760406	808	1.2-	1.8+	760426	808	0.2+	1.6+	790420	095	0.4-	0.7+
760422	808	0.1-	0.8+	760502	095	1.4-	0.5+	790425	095	1.1+	2.2-
760422	808	1.1+	1.4-	760525	095	0.0	0.4-				
760426	808	0.3-	2.1+	760530	095	0.5+	0.5-				

\* \* \* \* \*

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

The identifications are by B. G. Marsden unless otherwise stated.

(2472)\* 1973 DG = 1975 VS6 = 1975 XT3 = 1978 SB7

Discovered 1973 Feb. 27 by L. Kohoutek at Bergedorf.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	287.61565		(1950.0)		P		Q
n	0.28907275	Peri.	159.34393	-0.80663303			-0.59056672
a	2.2653290	Node	344.38780	+0.52899133			-0.70325894
e	0.0936665	Incl.	5.10790	+0.26365002			-0.39580021
P	3.41	B(1,0)	15.0				

Residuals in seconds of arc

730227	029	1.2+	0.5-	751106	095	2.2-	0.1+	781008	095	2.1-	0.2+
730227	029	0.4-	0.1-	751202	095	1.8+	0.7-	781101	095	0.2+	0.3+
730309	029	0.0	0.1-	780926	095	0.7+	0.8-				
730321	029	0.4-	1.3+	781002	095	0.8+	1.2+				

(2473)\* 1977 RX7 = 1937 WG = 1957 WF = 1967 RW = 1967 UD = 1976 JL2

Discovered 1977 Sept. 12 by N. S. Chernykh at the Crimean Astrophysical Observatory. The identification 1977 RX7 = 1967 UD is by E. Bowell. The 1979 observations were identified at the Crimean Astrophysical Observatory.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	123.31579		(1950.0)		P		Q
n	0.29359011	Peri.	230.21763	+0.56636166			-0.82411435
a	2.2420318	Node	185.30573	+0.78108195			+0.53997197
e	0.1348567	Incl.	5.19129	+0.26295522			+0.17107250
P	3.36	B(1,0)	14.0				

Residuals in seconds of arc

371129	020	(15.8-	3.8-)	670911	095	0.6+	0.2-	771008	095	2.0-	0.3+
371129	020	(2.8+	2.5-)	671029	095	0.8+	0.3-	790331	095	0.5-	0.9+
371203	020	(1.0+	9.5+)	671105	095	0.1+	0.1-	790420	095	0.7+	0.5+
371204	020	(4.5+	2.7+)	760502	095	0.0	2.1-	800806	688	0.3-	0.2-
571117	760	0.6+	1.2-	770912	095	0.5+	0.6+				
571117	760	0.8-	0.4-	770919	095	0.4+	0.9+				

(2474)\* 1979 PB = 1926 NA = 1948 NC = 1952 HL = 1962 SK

Discovered 1979 Aug. 14 by Z. Vavrova at Klet.

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5

M	295.63346		(1950.0)		P		Q
n	0.22431543	Peri.	13.82285	-0.31857862			+0.94141574
a	2.6826455	Node	237.70518	-0.88160556			-0.33716099
e	0.2212075	Incl.	7.52173	-0.34825176			-0.00767237
P	4.39	B(1,0)	13.0				

Residuals in seconds of arc

260713	024	0.8+	1.4-	790818	046	0.5+	0.0	790919	046	1.6+	0.8+	
480708	078	(27.2+	13.5-)	X	790818	046	0.9+	0.5-	790919	046	0.9+	0.4+
520420	078	(3.8+	11.9+)	Y	790825	046	0.3-	1.0-	801111	046	1.5+	2.0-
520426	711	(25.7-	7.7+)	Y	790825	046	1.0-	0.3-	801111	046	1.3+	1.3-
620930	760	0.5-	0.2-	790829	046	0.2+	0.6+	801201	046	0.5-	1.1-	
620930	760	0.4+	0.4+	790829	046	0.4+	1.5+	801201	046	1.1-	2.2+	
790814	046	1.4-	0.1-	790830	046	0.2+	1.0+	801208	046	0.7-	1.3+	
790814	046	0.7-	0.4-	790830	046	0.5-	0.6+	801208	046	0.7-	0.0	
790815	046	0.6-	0.3-	790916	046	0.7+	0.6-					
790815	046	1.4-	0.1-	790916	046	0.5+	0.3-					

1980 HB = 1951 SK = 1953 GC = 1978 TN7

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5 (J-P)

M	297.17178		(1950.0)		P		Q
n	0.25674904	Peri.	281.76134	-0.29514626			-0.95440848
a	2.4516832	Node	185.99440	+0.95451841			-0.29660097
e	0.1132889	Incl.	25.30917	-0.04222890			-0.03364996
P	3.84	B(1,0)	13.0				

## Residuals in seconds of arc

510930	760	0.2-	1.4+	800416	046	0.4-	3.8+	800510	046	0.8-	0.3+
510930	760	0.1-	0.6-	800416	046	0.5+	2.3+	800512	046	0.1+	1.2-
530410	012	0.0	2.0-	800506	046	0.3-	0.6+	800512	046	0.2-	1.7-
781002	095	0.4-	1.1-	800506	046	0.2-	0.2+				
781008	095	0.5+	1.8+	800510	046	1.2+	1.3-				

2221 P-L = 1979 MW7

Epoch 1982 Aug. 19.0 ET = JDE 2445200.5 (J-P)

M	336.43173		(1950.0)		P		Q
n	0.30596396	Peri.	72.16492		+0.61902231		+0.78365741
a	2.1811728	Node	236.19257		-0.74211628		+0.56202540
e	0.1229567	Incl.	3.58033		-0.25705019		+0.26459121
P	3.22	B(1,0)	18.0				

## Residuals in seconds of arc

600924	675	0.8-	0.6-	600929	675	1.1+	1.7+	790629	413	1.0+	0.8+
600924	675	0.3+	0.8+	600929	675	0.8-	0.3-	790724	413	0.8-	0.4-
600926	675	0.9+	0.4-	601026	675	0.0	0.1-	790726	675	1.1+	0.3-
600926	675	0.6-	0.0	790623	413	0.3-	0.3-	790727	675	0.7-	0.7-
600928	675	0.1+	0.2-	790625	413	0.4-	0.8+	790823	675	0.3+	0.5-

\* \* \* \* \*

## NEW NAMES OF MINOR PLANETS.

(1966) Tristan = 2552 P-L

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

Named for one of the knights of the round table.

(2041) Lancelot = 2523 P-L

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

Named for one of the knights of the round table.

(2054) Gawain = 4097 P-L

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

Named for one of the knights of the round table.

(2082) Galahad = 7588 P-L

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

Named for one of the knights of the round table.

(2095) Parsifal = 6036 P-L

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

Named for one of the knights of the round table.

(2396) Kochi = 1981 CB

Discovered 1981 Feb. 9 by T. Seki at Geisei.

Named by the discoverer in honor of his native city.

(2430) Bruce Helin = 1977 VC

Discovered 1977 Nov. 8 by E. Helin and E. Shoemaker at Palomar.

Named in honor of the first discoverer's son, who has for many years tolerated his mother's preoccupation with extraterrestrial objects.

(2441) Hibbs = 1979 MN2

Discovered 1979 June 25 by E. Helin and S. J. Bus at Siding Spring.

Named in honor of Al and Marka Hibbs, long time friends of the first discoverer, who wishes to acknowledge the role Al Hibbs played in introducing her to Space Science at Caltech shortly after Sputnik.

\* \* \* \* \*

## EPHEMERIDES.

1980 HB		Elements MPC 6420							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1981 09 13		19 32.14	+06 00.9	2.031	2.699	121.7	18.5	17.1	
1981 09 23		19 34.11	+03 56.4						
1981 10 03		19 38.50	+02 01.5	2.231	2.688	106.2	20.9	17.4	
1981 10 13		19 45.10	+00 19.5						
1981 10 23		19 53.63	-01 07.7	2.464	2.676	91.2	21.8	17.6	
1981 11 02		20 03.84	-02 19.5						
1981 11 12		20 15.49	-03 15.6	2.706	2.661	76.9	21.2	17.8	
1981 11 22		20 28.32	-03 56.4						
1981 12 02		20 42.14	-04 22.6	2.938	2.645	63.3	19.4	17.9	
1981 12 12		20 56.77	-04 34.8						
1981 12 22		21 12.04	-04 34.1	3.145	2.628	50.3	16.7	18.0	

(2472) 1973 DG

(2472) 1973 DG		Elements MPC 6419							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1981 09 13		21 31.64	-16 34.3	1.551	2.475	150.2	11.7	18.2	
1981 09 23		21 25.77	-16 36.6						
1981 10 03		21 22.81	-16 26.3	1.720	2.471	128.7	18.4	18.6	
1981 10 13		21 22.86	-16 04.0						
1981 10 23		21 25.71	-15 30.7	1.944	2.466	109.8	22.3	18.9	
1981 11 02		21 31.06	-14 47.4						
1981 11 12		21 38.58	-13 54.6	2.195	2.458	93.3	23.7	19.2	
1981 11 22		21 47.91	-12 53.2						
1981 12 02		21 58.74	-11 43.5	2.449	2.449	78.4	23.2	19.4	
1981 12 12		22 10.80	-10 26.1						
1981 12 22		22 23.86	-09 01.5	2.689	2.439	64.8	21.4	19.6	
1982 01 01		22 37.75	-07 30.2						
1982 01 11		22 52.31	-05 53.0	2.902	2.427	52.2	18.7	19.7	

(2471) 6545 P-L

(2471) 6545 P-L		Elements MPC 6419							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1981 09 13		01 25.96	+07 52.2	2.020	2.915	146.9	10.9	17.1	
1981 09 23		01 19.23	+07 44.3						
1981 10 03		01 11.06	+07 29.0	1.941	2.931	170.0	3.4	16.8	
1981 10 13		01 02.27	+07 09.7						
1981 10 23		00 53.75	+06 50.4	1.974	2.949	165.9	4.7	16.9	
1981 11 02		00 46.37	+06 35.2						
1981 11 12		00 40.79	+06 27.8	2.117	2.966	142.8	11.6	17.3	
1981 11 22		00 37.38	+06 30.3						
1981 12 02		00 36.30	+06 44.0	2.345	2.983	121.7	16.3	17.6	
1981 12 12		00 37.49	+07 08.9						
1981 12 22		00 40.77	+07 44.5	2.625	3.000	102.8	18.6	17.9	
1982 01 01		00 45.94	+08 29.7						
1982 01 11		00 52.75	+09 23.3	2.926	3.017	85.8	19.0	18.2	
1982 01 21		01 00.96	+10 23.9						
1982 01 31		01 10.41	+11 30.3	3.221	3.034	70.3	17.8	18.4	
1982 02 10		01 20.89	+12 41.2						
1982 02 20		01 32.25	+13 55.4	3.492	3.051	56.0	15.6	18.5	

1976 GB8		Elements MPC 6419							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1981 12 02		09 44.06	+13 52.2	1.507	2.011	105.7	28.2	18.1	
1981 12 12		09 52.22	+13 11.9						
1981 12 22		09 57.48	+12 46.1	1.296	2.005	122.6	24.4	17.6	
1982 01 01		09 59.39	+12 38.0						
1982 01 11		09 57.70	+12 49.1	1.127	2.001	142.9	17.2	17.2	
1982 01 21		09 52.41	+13 18.9						
1982 01 31		09 44.04	+14 03.5	1.028	1.999	166.8	6.5	16.7	
1982 02 10		09 33.82	+14 55.3						
1982 02 20		09 23.40	+15 45.1	1.023	2.000	167.7	6.0	16.7	
1982 03 02		09 14.54	+16 25.2						
1982 03 12		09 08.61	+16 50.3	1.113	2.003	143.9	17.0	17.1	
1982 03 22		09 06.27	+16 59.0						
1982 04 01		09 07.63	+16 51.4	1.272	2.008	123.8	24.4	17.6	
1982 04 11		09 12.41	+16 28.7						
1982 04 21		09 20.10	+15 52.2	1.473	2.015	107.4	28.4	18.0	
1982 05 01		09 30.22	+15 03.0						
1982 05 11		09 42.26	+14 02.1	1.693	2.025	93.6	29.9	18.4	

1976 JQ2		Elements MPC 6419							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1981 12 02		10 34.87	+09 25.7	2.246	2.492	92.5	23.3	18.3	
1981 12 12		10 42.51	+08 55.8						
1981 12 22		10 48.13	+08 39.5	1.974	2.482	109.5	21.9	18.0	
1982 01 01		10 51.39	+08 39.4						
1982 01 11		10 52.00	+08 57.7	1.729	2.469	129.1	18.0	17.6	
1982 01 21		10 49.75	+09 35.1						
1982 01 31		10 44.58	+10 31.0	1.542	2.454	151.6	11.0	17.1	
1982 02 10		10 36.86	+11 41.2						
1982 02 20		10 27.32	+12 59.0	1.450	2.437	175.6	1.8	16.6	
1982 03 02		10 17.09	+14 15.4						
1982 03 12		10 07.52	+15 21.8	1.469	2.417	157.5	9.0	17.0	
1982 03 22		09 59.76	+16 12.0						
1982 04 01		09 54.65	+16 43.3	1.587	2.395	134.4	17.3	17.3	
1982 04 11		09 52.57	+16 55.2						
1982 04 21		09 53.51	+16 49.2	1.770	2.371	114.6	22.7	17.6	
1982 05 01		09 57.27	+16 27.2						
1982 05 11		10 03.49	+15 51.0	1.984	2.345	97.8	25.3	17.9	

(2468) 1969 TO1		Elements MPC 6418							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1981 12 22		11 48.19	-04 29.5	2.452	2.650	90.5	21.8	18.6	
1982 01 01		11 54.88	-05 25.3						
1982 01 11		11 59.69	-06 09.4	2.166	2.635	107.5	20.9	18.3	
1982 01 21		12 02.35	-06 39.5						
1982 01 31		12 02.58	-06 52.9	1.905	2.617	126.8	17.6	17.9	
1982 02 10		12 00.22	-06 47.1						
1982 02 20		11 55.32	-06 20.8	1.701	2.596	148.5	11.5	17.5	
1982 03 02		11 48.18	-05 33.9						
1982 03 12		11 39.53	-04 29.6	1.588	2.574	171.1	3.4	17.0	
1982 03 22		11 30.32	-03 13.7						
1982 04 01		11 21.67	-01 54.2	1.585	2.550	160.7	7.5	17.2	
1982 04 11		11 14.61	-00 39.5						
1982 04 21		11 09.83	+00 23.5	1.685	2.523	138.0	15.5	17.5	
1982 05 01		11 07.69	+01 10.7						
1982 05 11		11 08.27	+01 39.9	1.858	2.495	117.9	21.0	17.8	
1982 05 21		11 11.38	+01 51.3						
1982 05 31		11 16.81	+01 45.7	2.068	2.465	100.6	23.8	18.1	

1976 QD		Elements MPC 6104							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1982 01 11		13 05.72	-08 29.7	2.201	2.435	91.6	23.8	17.7	
1982 01 21		13 12.08	-10 00.2						
1982 01 31		13 16.19	-11 22.4	1.961	2.458	108.4	22.4	17.4	
1982 02 10		13 17.70	-12 34.9						
1982 02 20		13 16.32	-13 36.1	1.748	2.479	127.7	18.4	17.1	
1982 03 02		13 11.91	-14 23.5						
1982 03 12		13 04.62	-14 55.1	1.594	2.500	149.2	11.7	16.8	
1982 03 22		12 54.98	-15 09.3						
1982 04 01		12 43.93	-15 06.6	1.532	2.520	169.0	4.4	16.5	
1982 04 11		12 32.76	-14 50.2						
1982 04 21		12 22.69	-14 25.4	1.578	2.538	158.0	8.5	16.7	
1982 05 01		12 14.74	-13 59.0						
1982 05 11		12 09.50	-13 37.2	1.724	2.555	136.8	15.7	17.1	
1982 05 21		12 07.14	-13 24.1						
1982 05 31		12 07.58	-13 22.4	1.938	2.571	117.7	20.4	17.5	
1982 06 10		12 10.58	-13 33.1						
1982 06 20		12 15.80	-13 55.8	2.190	2.586	101.1	22.7	17.8	

1940 GN		Elements MPC 5644							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1982 01 11		12 49.29	+07 23.0	1.895	2.301	101.4	24.8	17.8	
1982 01 21		12 58.44	+07 19.8						
1982 01 31		13 05.52	+07 33.5	1.630	2.260	117.4	22.8	17.4	
1982 02 10		13 10.13	+08 04.7						
1982 02 20		13 11.90	+08 52.3	1.404	2.219	135.3	18.2	16.9	
1982 03 02		13 10.53	+09 53.4						
1982 03 12		13 06.03	+11 01.6	1.244	2.181	154.1	11.5	16.4	
1982 03 22		12 58.80	+12 07.7						
1982 04 01		12 49.72	+13 00.7	1.170	2.144	162.6	8.0	16.2	
1982 04 11		12 40.14	+13 30.4						
1982 04 21		12 31.48	+13 31.0	1.190	2.110	148.0	14.6	16.3	
1982 05 01		12 24.95	+13 00.8						
1982 05 11		12 21.32	+12 02.6	1.288	2.080	129.2	22.1	16.6	
1982 05 21		12 20.84	+10 41.0						
1982 05 31		12 23.45	+09 00.8	1.438	2.053	112.6	27.1	17.0	
1982 06 10		12 28.87	+07 06.4						
1982 06 20		12 36.74	+05 01.5	1.614	2.030	98.4	29.7	17.3	

1941 FN		Elements MPC 6104							
Date	ET	R. A. (1950)	Decl.	Delta	r	Elong.	Phase	Mag.	
1982 01 11		13 08.24	-05 24.8	1.931	2.201	92.2	26.5	17.3	
1982 01 21		13 18.22	-06 46.4						
1982 01 31		13 26.21	-07 58.3	1.687	2.194	107.4	25.4	16.9	
1982 02 10		13 31.82	-08 59.5						
1982 02 20		13 34.65	-09 48.8	1.466	2.189	125.1	21.7	16.5	
1982 03 02		13 34.35	-10 24.6						
1982 03 12		13 30.79	-10 46.1	1.293	2.187	145.7	14.9	16.1	
1982 03 22		13 24.17	-10 52.8						
1982 04 01		13 15.16	-10 45.8	1.197	2.186	168.8	5.1	15.7	
1982 04 11		13 04.99	-10 28.8						
1982 04 21		12 55.07	-10 07.2	1.200	2.188	165.9	6.4	15.7	
1982 05 01		12 46.78	-09 47.8						
1982 05 11		12 41.11	-09 36.5	1.297	2.192	143.4	15.9	16.1	
1982 05 21		12 38.52	-09 37.2						
1982 05 31		12 39.08	-09 51.9	1.465	2.198	123.9	22.5	16.6	
1982 06 10		12 42.59	-10 20.6						
1982 06 20		12 48.70	-11 02.2	1.676	2.206	107.5	26.1	16.9	