Hα SOLAR FLARES

MARCH 1975

OBSERVATORY	OBSERVED UT DATE	START	MAX. PHASE	END	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. CORD.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq. Deg.	REMARKS
KHAR	02	1149E		1149D	N16	W22	.515		31.8		SF		P				D
KHAR	03	1140E	1145	1155D	N17	W38	.696		31.6	15D	SF		P	1145	80	1.4	D
HTPR	04	1542E		1657D	N12	W57	.862		31.4	75D	SF		C	1648	30	.5	E
RAMY	05	1918	1919	1932	N12	W73	.965		31.3	14	SF	2	C		27		DE
HTPR	06	1150	1151	1201	N07	E70	.946		11.7	11	SF		C	1151	10		
PALE	11	0039	0045	0052	S13	W30	.503		8.8	13	SF	3	C		65		DE
MANI	12	0039E	0040U	0055	S14	W31	.520		9.7	16D	SN	2		0040	90	1.0	F
MITK	12	0040E		0049D	S13	W32	.532		9.6	9D	SN		P	0040	80	1.0	E
PALE	12	0040	0045	0052	S13	W30	.503		9.8	12	SN	3	V		70		DE
MANI	12	0310	0312	0327	S14	W32	.534		9.7	17	SN	2		0312	120	1.4	H
TEHR	12	0312E	0312U	0328	S13	W32	.532		9.7	16D	SN	2	V		115		F
ABST	12	0607	0634	0647D	S13	W36	.588		9.6	40D	SF		P	0634	87	1.1	D
MANI	12	0847	0850	0904	S14	W37	.603		9.6	17	SF	2		0850	30	.3	
MANI	12	0917	0920U	0920D	S14	W37	.603		9.6	3D	SN	2		0920	80	1.0	
TEHR	12	0919	0924	0935	S13	W34	.560		9.8	16	SN	3	V		75		
ATHN	12	1343	1347	1414	S13	W39	.628		9.6	31	SN	2	C		192		U F
ATHN	12	1343	1347	1414	S13	W39	.628		9.6	31	SN	2	V		192		U F
RAMY	12	1343	1346	1425	S15	W37	.605		9.8	42	SN	4	C		108		F
RAMY	12	1350E	1355	1419	S13	W37	.601	13532	9.8	29D	1F	4	C		210		DE
RAMY	12	1350E	1355D	1355D	S13	W37	.601	13532	9.8	5D	1F	4	V		210		DE
HTPR	12	1411E		1427D	S13	W38	.615		9.7	16D	SN		C	1412	80	1.0	EI
HUAN	12	1411E		1423	S13	W36	.588		9.9	12D	SF		P	1411	85	1.1	E
HUAN	12	1647E		1654D	S13	W40	.641		9.7	7D	SF		P				
RAMY	12	1648	1653	1706	S15	W39	.631		9.8	18	SF	3	C		90		F
HUAN	12	1722		1725D	S13	W40	.641		9.7	3D	SF		P				
PALE	12	1833E	1847	1852	S13	W41	.654		9.7	19D	SF	2	C		35		DE
PALE	12	1834E	1847U	1919D	S13	W41	.654		9.7	45D	SF	2	V		40		DE
BOUL	12	1913	1920	1942	S15	W38	.618		10.0	29	SF	2	C	1920	21	.3	
HUAN	12	1914		1922	S13	W41	.654		9.7	8	SF		P				
RAMY	12	1917	1920	1928	S15	W41	.657		9.7	11	SF	3	C		36		DE
BOUL	12	2237	2243	2300	S15	W42	.669		9.8	23	SF	2	C	2243	32	.4	
MANI	12	2238	2240	2252	S13	W44	.692		9.6	14	SN	1		2240	30	.4	F
MANI	13	0027	0035	0048	S13	W43	.679		9.8	21	SF	2		0035	110	1.5	F
MANI	13	0629	0637	0657	S13	W49	.750		9.6	28	SF	2		0637	40	.6	
ABST	13	0801E	0804	0815D	S11	W50	.761		9.6	14D	1N		P	0804	131	2.1	D
RAMY	13	1207	1209	1220	S15	W48	.740		9.9	13	SF	4	C		32		DE
HUAN	13	1710		1717D	S13	W56	.823		9.5	7D	SF		P				
BOUL	13	1919	1921	1932	S15	W53	.794		9.8	13	SF	2	C	1921	11	.2	
HUAN	13	1921	1922	1925	S14	W55	.814		9.7	4	SF		C	1922	30	.5	
HUAN	13	1947E		1948	S13	W56	.823		9.6	1D	SF		P				C
BOUL	13	2041	2045	2055	S14	W57	.833		9.6	14	SF	2	C	2045	11	.2	
VORO	14	0058E		0119	S16	W57	.834		9.8	21D	SB		C	0104	99	1.7	EJ
MANI	14	0059	0107	0131	S13	W57	.833		9.8	32	SN	2		0107	100	1.7	F
HUAN	14	1912		1934D	S12	W70	.934		9.6	22D	SF		P	1929	35		
VORO	14	2339	2353	0021	S15	W70	.933		9.7	42	1B		C	2353	108	2.9	EJ
MANI	14	2351E	2353	0022D	S12	W70	.934		9.7	31D	SN	1		2353	80	1.7	F
ARCE	15	0840E		1000D	S12	W80	.981		9.4	80D	SN		C	0921	68		
ARCE	15	0906E		0921	S13	W12	.231		14.5	15D	SF		C	0913	65	.7	
ARCE	15	0913E		0925D	S10	W48	.738		11.8	12D	SF		P	0913	22	.3	
HTPR	15	1024	1026	1031	S12	W80	.981		9.4	7	SF		C	1026	20		
RAMY	15	1831	1835	1845	S13	W82	.987		9.6	14	SF	4	C		23		DE
BOUL	15	2339	2344	2349	S13	W90	1.000		9.2	10	SF	2	C	2344	11	.4	
ABST	16	0601E	0608	0630D	S15	W89	.999		9.6	29D	2F		P	0608	87	6.4	ADJ
ABST	16	0650E	0652	0700D	S11	W61	.869		11.7	10D	SF		P	0652	70	1.4	EJ
ABST	16	0809	0816	0858	S11	W61	.869		11.8	49	SF		C	0816	70	1.4	FJK
ATHN	16	0915	0917	0947D	S11	W61	.869		11.8	32D	SF	4	V		32		DE
ATHN	16	0915	0917	0947D	S11	W61	.869		11.8	32D	SF	4	C		32		DE
RAMY	16	1216	1225	1252	S10	W62	.877		11.9	36	SF	4	C		45		DE H
HUAN	16	1312E		1313D	S10	W65	.901		11.7	1D	SF		P	1312	30	.7	
ATHN	16	1314	1317	1325	S11	W63	.885		11.8	11	SF	5	C		32		DE
ATHN	16	1314	1317	1325	S11	W63	.885		11.8	11	SF	5	V		32		DE
RAMY	16	1411	1417	1426	S12	W63	.885		11.9	15	SF	4	C		27		DE

Several changes in the presentation of the Grouped Flare Data have been planned to begin with the January 1975 data. The preparation of the new presentation has been delayed because of problems in computer conversions. Therefore, only the observatory flare reports are included here. The grouped flares will no longer be classified as "confirmed" or "unconfirmed". The flare list for this month will be republished later and will include a summary line for each flare. Measured area is now reported in millionths of the solar disk.

Hα SOLAR FLARES

MARCH 1975

OBSERVATORY	OBSERVED UT DATE	START	MAX. PHASE	END	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Mill of Disk	CORR. AREA Sq. Deg.	REMARKS
BOUL	16	1918	1939	1952	S16	W31	.525		14.3	34	SF	1	C	1939	11	.1	
ARCE	17	0844E		0908D	S13	W40	.640		14.4	24D	SN		C	0902	46	.6	
MONT	17	0901	0903	0906	S05	W38	.613		14.5	5	SN		C	0903	20		B
HUAN	17	1748		1751	S09	W85	.995		11.4	3	SF		C				
RAMY	17	1754E		1755D	S17	W90	.999		11.0	1D	SB	4	C				
HTPR	18	0800	0806	0810	S08	W33	.541		15.9	10	SF		C	0806	10	.1	E
HTPR	18	0815	0851	0900	S13	W58	.842		14.0	45	SF		C	0851	30	.5	E
HTPR	18	0937	0941	1030	S13	W59	.851		14.0	53	SF		C	0941	20	.4	E
HTPR	18	1047	1051	1112	S08	W36	.584		15.7	25	SF		C	1057	10	.1	E
HTPR	18	1100	1103	1108	S13	W60	.860		14.0	8	SF		C	1103	20	.4	E
HTPR	18	1136	1138	1219	S08	W36	.584		15.8	43	SF		C				E
HTPR	18	1136	1144	1219	S08	W36	.584		15.8	43	SF		C	1144	20	.2	E
HTPR	18	1216	1219	1229	S13	W61	.868		13.9	13	SF		C	1219	10	.1	
HTPR	19	1505	1505	1516	S14	W70	.933		14.4	11	SF		C				
HTPR	19	1505	1508	1516	S14	W70	.933		14.4	11	SF		C	1508	20		
HTPR	21	0807	0810	0820	N10	W73	.964		15.9	13	SF		C	0810	10		
HTPR	21	0859	0910	0919	N10	W75	.973		15.7	20	SN		C	0910	30		E
HTPR	21	0956	1007	1053	N10	W75	.973		15.8	57	SF		C	1007	30		E
HTPR	21	1110	1112	1125	N10	W76	.977		15.8	15	SF		C				E
HTPR	21	1110	1118	1125	N10	W76	.977		15.8	15	SF		C	1118	30		E
HTPR	21	1140	1150	1215	N10	W76	.977		15.8	35	SN		C	1150	30		E
HTPR	21	1234	1235	1305	N10	W76	.977		15.8	31	SN		C	1235	30		E
HUAN	21	1556E		1606D	N08	W82	.993		15.5	10D	SF		P				
HUAN	21	1949E		2005D	N07	W85	.997		15.5	16D	SF		P	1952	30		
VORO	21	2242	2244	2247	N05	W88	1.000		15.3	5	SF		C	2244	18	1.2	DG
PALE	21	2244E	2244U	2249	N 8	W81	.991		15.9	5D	SF	2	C		22		DE
PALE	21	2244E	2245U	2249	N 7	W85	.997		15.6	5D	SF	3	V		30		DE
PALE	22	0128E	0129U	0133D	N 8	W87	.999		15.5	5D	SF	2	V		25		DE
PALE	22	0129E	0129U	0138	N 8	W84	.996		15.8	9D	SF	2	C		18		DE
RAMY	23	2013	2017	2031	N16	E47	.787		27.4	18	SF	3	C		27		DE
HTPR	26	1238	1246	1256	S07	W02	.035		26.4	18	SF		C	1246	20	.2	E
HTPR	26	1310		1440	N10	W90	1.000		19.8	90	SF		C	1323	20		K
ABST	29	0744	0749	0803	N14	E56	.861		5.5	19	SF		C	0749	87	1.9	DJ
ABST	30	0738	0739	0745	S15	E85	.993		8.7	7	2F		C	0739	87	6.4	DJ
ABST	30	1118	1122	1126	N01	E36	.600		5.2	8	SF		C	1122	87	1.1	D
KODA	31	0236	0237	0345	S17	E75	.959		8.7	69	SN		V	0239			

Note: Daily Flare Indices not available because of problems with computer conversion.

Hα SOLAR FLARES

Since January 1968 the flare reports published six months after observation have been divided into two tables labeled "confirmed" and "unconfirmed". This separation was felt desirable in 1968 to present the most homogeneous and reliable flare data for use by the scientific community. However, it has become apparent that for small events, which currently constitute the majority of reports, such discrimination is questionable. Therefore, beginning with the January 1975 data, all reported Hα flares are published in one chronological list.

The listing is prepared in cooperation with DASOP (Department d' Astronomie Solaire et Planétaire), Observatoire de Paris, 92190 Meudon, France. For each event there is a group report line more closely resembling the presentation of the flares as they will be published in the "IAU Quarterly Bulletin on Solar Activity" (QBSA). In *Solar-Geophysical Data* the flares as reported by the individual observatories follow the "group report" line. In QBSA only the summary of the observatory contributions is included.

The group report line is intended as a summary of all individual reports. The principal criteria for grouping reports together are flare position and times. The following new rules have been adopted to determine times, areas and importances of grouped events:

-- The beginning time is the time of first observation of an event by an observatory. If there is uncertainty in the beginning time, it is indicated by a "+" sign followed by the difference in minutes between the time of the first observation and the time of the latest observed beginning. More than 9 minutes difference appears as >9. The same applies for times of maximum. When two or more maxima are identified, their times are reported with the same group line.

-- With near agreement among observatories an average of the areas is used in determining importance.

-- With widely varying areas among several observatories the average area is not computed. The importance is estimated from the reported importances. An importance 1 or more is assigned only when reported by several observers or when only a single observatory is operating at the time of observing such a flare.

-- If only one or two observers report a flare of importance 1 or more with considerable disagreement in importance, no importance is assigned and a "?" is inserted in the importance column.

-- Queries are sent to observatories who have reported cinematographic observation at a time when only one or two observatories have reported an event of importance 1 or greater. Any new information thus obtained is included in the flare listing.

The columns in the table are as follows:

-- Group Number and Reporting Observatories using IAU abbreviation (see table on page 11 of February 1975 *Explanation of Data Reports*).
-- The Universal date.
-- Beginning time in UT.
-- Time of maximum phase in UT. (more than one maxima may be listed)
-- Ending time in UT.
-- The heliographic coordinates in degrees for the "center of gravity" of the emission region, corresponding to the time of maximum intensity.
-- The distance from the center of disk in units of disk radius.
-- McMath serial number of the associated plage region.
-- The time of central meridian passage of the position of the flare in tenths of the Universal date.
-- Duration in minutes.
-- The flare importance on the IAU scale of Sf* to 4b. (In the summary line for the group a "?" will be used when there has been too much discrepancy among individual reports to determine accurately the probable importance of the event).
-- Observing conditions where 1 means poor, 2 fair, and 3 good. (Observatories at Ramey, Palehua, Athenes and Tehran use a scale of 1-5).
-- Nature and completeness of available observations where -

C = a complete, or quasi complete sequence of photographs was obtained,
P = one or a few photographs of the event were obtained resulting in incomplete time coverage,
V = all (or most of) the development of the flare was visually observed, or
S = flare was seen visually for a small part of its probable duration.

* For easier visual selection of the more important flares a minus sign, "-", is used to indicate subflares instead of "S".

-- Time of measurement for tabulated areas.
-- Apparent (i.e., projected) area at time of maximum brightness in millionths of solar disk -- this is not necessarily the maximum area. (Prior to January 1975 this measured area in millionths was divided by 97 and was indicated as heliographic square degrees, hence the tabular heading was incorrect and should have been mill/97.)
-- Corrected area in square degrees.
-- Remarks in the IAU system of notes where

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

When importance is questionable the list of observatories reporting cinematographic patrol but not reporting flare follows the group report. The abbreviated observatory name is followed by "2" when a second look by the observer still did not identify a flaring event at that time. Observatories not observing the event and not making a second evaluation are followed by "1".

Intervals when no observatory reported times of patrol observation are listed chronologically in the table.

NEW STANDARDIZED FLARE DATA FOR JANUARY - APRIL 1975 ARE ON PAGES 26-40 OF THIS REPORT.

Hα SOLAR FLARES

MARCH 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAR	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	MIN.		COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
64 KHAR	02	1149E		11490	N16	W22	.528	13517	28.8		-F		P				
	02	1734	1735	NO FLARE PATROL													
	02	1819	1822	NO FLARE PATROL													
65 KHAR	03	1140E	1145	11550	N17	W38	.703	13517	28.6	150	-F		P	1145	80	1.4	
	03	1618	1722	NO FLARE PATROL													
	03	1730	1909	NO FLARE PATROL													
	03	1914	2014	NO FLARE PATROL													
	03	2020	2024	NO FLARE PATROL													
66 HTPR	04	1542E		16570	N12	W57	.865	13517	28.4	750	-F		C	1648	30	.5	
	04	2008	2010	NO FLARE PATROL													
67 RAMY	05	1918	1919	1932	N12	W73	.966	13517	28.3	14	-F	2	C		27		
68 HTPR	06	1150	1151	1201	N07	E70	.947	13527	11.7	11	-F		C	1151	10		
	09	0316	0328	NO FLARE PATROL													
	09	0330	0338	NO FLARE PATROL													
	10	1411	1446	NO FLARE PATROL													
	10	1512	1524	NO FLARE PATROL													
	11	1859	1915	NO FLARE PATROL													
GRP62069	12	0039+1	0040+5	0052	S13	W31	.516	13532	9.7	13	-N				80	.9	
PALE	12	0039	0045	0052	S13	W30	.501	13532	8.8	13	-F	3	C		65		DE
MANI	12	0039E	0040U	0055	S14	W31	.518	13532	9.7	160	-N	2		0040	90	1.0	F
PALE	12	0040	0045	0052	S13	W30	.501	13532	9.8	12	-N	3	V		70		DE
HITK	12	0040E		00490	S13	W32	.530	13532	9.6	90	-N		P	0040	80	1.0	E
GRP62070	12	0310	0312+0	0328	S13	W32	.530	13532	9.7	18	-N				120	1.4	FH
MANI	12	0310	0312	0327	S14	W32	.532	13532	9.7	17	-N	2		0312	120	1.4	H
TEHR	12	0312E	0312U	0328	S13	W32	.530	13532	9.7	160	-N	2	V		115		F
71 ABST	12	0607	0634	06470	S13	W36	.586	13532	9.6	400	-F		P	0634	87	1.1	
72 MANI	12	0847	0850	0904	S14	W37	.601	13532	9.6	17	-F	2		0850	30	.3	
GRP62073	12	0917+2	0924	0935	S13	W35	.572	13532	9.8	18	-N				80	1.0	
MANI	12	0917	0920U	0920D	S14	W37	.601	13532	9.6	30	-N	2		0920	80	1.0	
TEHR	12	0919	0924	0935	S13	W34	.558	13532	9.8	16	-N	3	V		75		
GRP62074	12	1343+0	1346+1 1355+0	1421	S13	W38	.613	13532	9.7	38	-N				160	2.0	IU
ATHN	12	1343	1347	1414	S13	W39	.626	13532	9.6	31	-N	2	V		192		U F
ATHN	12	1343	1347	1414	S13	W39	.626	13532	9.6	31	-N	2	C		192		U F
RAMY	12	1343	1346	1425	S15	W37	.603	13532	9.8	42	-N	4	C		108		F
RAMY	12	1350E	1355	1419	S13	W37	.600	13532	9.8	290	1F	4	C		210		DE
RAMY	12	1350E	13550	13550	S13	W37	.600	13532	9.8	50	1F	4	V		210		DE
HTPR	12	1411E		14270	S13	W38	.613	13532	9.7	160	-N		C	1412	80	1.0	EI
HUAN	12	1411E		1423	S13	W36	.586	13532	9.9	120	-F		P	1411	85	1.1	E
GRP62075	12	1647+1	1653	1706	S14	W39	.628	13532	9.8	19	-F						F
HUAN	12	1647E		16540	S13	W40	.640	13532	9.7	70	-F		P				
RAMY	12	1648	1653	1706	S15	W39	.629	13532	9.8	18	-F	3	C		90		F
76 HUAN	12	1722		17250	S13	W40	.640	13532	9.7	30	-F		P				
GRP62077	12	1833E	1847+0	1906	S13	W41	.652	13532	9.7	33	-F				40	.5	
PALE	12	1833E	1847	1852	S13	W41	.652	13532	9.7	190	-F	2	C		35		DE
PALE	12	1834E	1847U	19190	S13	W41	.652	13532	9.7	450	-F	2	V		40		DE
GRP62078	12	1913+4	1920+0	1928	S14	W40	.641	13532	9.8	15	-F				30	.4	
BOUL	12	1913	1920	1942	S15	W38	.616	13532	10.0	29	-F	2	C	1920	21	.3	
HUAN	12	1914		1922	S13	W41	.652	13532	9.7	8	-F		P				
RAMY	12	1917	1920	1928	S15	W41	.655	13532	9.7	11	-F	3	C		36		DE
GRP62079	12	2237+1	2240+3	2256	S14	W43	.679	13532	9.7	19	-F				30	.4	F
BOUL	12	2237	2243	2300	S15	W42	.667	13532	9.8	23	-F	2	C	2243	32	.4	
MANI	12	2238	2240	2252	S13	W44	.690	13532	9.6	14	-N	1		2240	30	.4	F
80 MANI	13	0027	0035	0048	S13	W43	.678	13532	9.8	21	-F	2		0035	110	1.5	
81 MANI	13	0629	0637	0657	S13	W49	.749	13532	9.6	28	-F	2		0637	40	.6	
82 ABST	13	0801E	0804	08150	S11	W50	.760	13532	9.6	140	1N		P	0804	131	2.1	
	13	1002	1025	NO FLARE PATROL													

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OBSERVATORY	OBSERVED UT DATE 1975 MAR	START	MAX. PHASE	END	LOCATION APPROX LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	REMARKS
083 RAMY	13	1207	1209	1220	S15	W48	.739	13532	9.9	13	-F	4	C		32		
084 HUAN	13	1710		1717D	S13	W56	.823	13532	9.5	7D	-F		P				
GRP62085	13	1919+2	1921+1	1929	S14	W54	.803	13532	9.8	10	-F				20	.3	
BOUL	13	1919	1921	1932	S15	W53	.793	13532	9.8	13	-F	2	C	1921	11	.2	
HUAN	13	1921	1922	1925	S14	W55	.813	13532	9.7	4	-F		C	1922	30	.5	
086 HUAN	13	1947E		1948	S13	W56	.823	13532	9.6	1D	-F		P				
087 BOUL	13	2041	2045	2055	S14	W57	.832	13532	9.6	14	-F	2	C	2045	11		
GRP62088	14	0058+1	0107	0125	S14	W57	.832	13532	9.8	27	-N				100	1.8	J
VORO	14	0058E		0119	S16	W57	.833	13532	9.8	21D	-B		C	0104	99	1.7	EJ
MANI	14	0059	0107	0131	S13	W57	.832	13532	9.8	32	-N	2		0107	100	1.7	F
089 HUAN	14	1912		1934D	S12	W70	.934	13532	9.6	22D	-F		P	1929	35		
	14	1934	1936	NO FLARE PATROL													
	14	2202	2220	NO FLARE PATROL													
GRP62090	14	2339	2353+0	0022	S13	W70	.933	13532	9.7	43	1N				90		J
VORO	14	2339	2353	0021	S15	W70	.933	13532	9.7	42	1B		C	2353	108	2.9	EJ
MANI	14	2351E	2353	0022D	S12	W70	.934	13532	9.7	31D	-N	1		2353	80	1.7	F
	15	0220	0248	NO FLARE PATROL													
	15	0250	0302	NO FLARE PATROL													
091 ARCE	15	0840E		1000D	S12	W80	.981	13532	9.4	80D	-N		C	0921	68		
092 ARCE	15	0906E		0921	S13	W12	.228	13540	14.5	15D	-F		C	0913	65		
093 ARCE	15	0913E		0925D	S10	W48	.737	13538	11.8	12D	-F		P	0913	22		
094 HTPS	15	1024	1026	1031	S12	W80	.981	13532	9.4	7	-F		C	1026	20		
095 RAMY	15	1831	1835	1845	S13	W82	.987	13532	9.6	14	-F	4	C		23		
096 BOUL	15	2339	2344	2349	S13	W90	1.000	13532	9.2	10	-F	2	C	2344	11		
097 ABST	16	0601E	0608	0630D	S15	W89	.999	13532	9.6	29D	?F		P	0608	87		
		IMP 2	NO:	CULG2	TACH2												
098 ABST	16	0650E	0652	0700D	S11	W61	.868	13538	11.7	10D	-F		P	0652	70	1.4	
099 ABST	16	0809	0816	0858	S11	W61	.868	13538	11.8	49	-F		C	0816	70	1.4	
GRP62100	16	0915+0	0917+0	0947D	S11	W61	.868	13538	11.8	32	-F				30	.6	
ATHN	16	0915	0917	0947D	S11	W61	.868	13538	11.8	32D	-F	4	C		32		DE
ATHN	16	0915	0917	0947D	S11	W61	.868	13538	11.8	32D	-F	4	V		32		DE
101 RAMY	16	1216	1225	1252	S10	W62	.877	13538	11.9	36	-F	4	C		45		H
GRP62102	16	1312+2	1317+0	1325	S11	W64	.893	13538	11.7	13	-F				30	.7	
HUAN	16	1312E		1313D	S10	W65	.901	13538	11.7	1D	-F		P	1312	30	.7	
ATHN	16	1314	1317	1325	S11	W63	.885	13538	11.8	11	-F	5	V		32		DE
ATHN	16	1314	1317	1325	S11	W63	.885	13538	11.8	11	-F	5	C		32		DE
103 RAMY	16	1411	1417	1426	S12	W63	.885	13538	11.9	15	-F	4	C		27		
104 BOUL	16	1916	1939	1952	S16	W31	.524	13540	14.5	34	-F	1	C	1939	11	.1	
	17	0207	0210	NO FLARE PATROL													
GRP62105	17	0844+9	0903	0907	S14	W39	.628	13540	14.4	23	-N				35	.5	
ARCE	17	0844E		0908D	S13	W40	.640	13540	14.4	24D	-N		C	0902	46	.6	
MONT	17	0901	0903	0906	S05	W38	.613	13540	14.5	5	-N		C	0903	20		B
	17	1100	1105	NO FLARE PATROL													
	17	1115	1125	NO FLARE PATROL													
	17	1140	1205	NO FLARE PATROL													
106 HUAN	17	1748		1751	S09	W85	.994	13538	11.4	3	-F		C				
107 RAMY	17	1754E		1755D	S17	W90	.999	13538	11.0	1D	-B	4	C				
	18	0132	0135	NO FLARE PATROL													

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAR	START	MAX. PHASE	END	APPROX LAT.	APPROX HER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMR DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
	18	0150	0158	NO FLARE PATROL													
108 HTPR	18	0800	0806	0810	S08	W33	.540	13545	15.9	10	-F		C	0806	10		
109 HTPR	18	0815	0851	0900	S13	W58	.842	13540	14.0	45	-F		C	0851	30		
110 HTPR	18	0937	0941	1030	S13	W59	.851	13540	14.0	53	-F		C	0941	20		
111 HTPR	18	1047	1051	1112	S08	W36	.583	13545	15.7	25	-F		C	1057	10		
112 HTPR	18	1100	1103	1108	S13	W60	.859	13540	14.0	8	-F		C	1103	20		
GRP62113	18	1136	1138 1144	1219	S08	W36	.583	13545	15.8	43	-F						E
HTPR	18	1136	1138	1219	S08	W36	.583	13545	15.8	43	-F		C				E
HTPR	18	1136	1144	1219	S08	W36	.583	13545	15.8	43	-F		C	1144	20	.2	E
114 HTPR	18	1216	1219	1229	S13	W61	.868	13540	13.9	13	-F		C	1219	10		
	18	1825	1831	NO FLARE PATROL													
	18	1833	1851	NO FLARE PATROL													
	18	2016	2018	NO FLARE PATROL													
	18	2028	2034	NO FLARE PATROL													
	18	2047	2106	NO FLARE PATROL													
	18	2109	2116	NO FLARE PATROL													
	18	2328	2330	NO FLARE PATROL													
	19	0013	0025	NO FLARE PATROL													
GRP62115	19	1505	1505+3	1516	S14	W70	.933	13540	14.4	11	-F						
HTPR	19	1505	1508	1516	S14	W70	.933	13540	14.4	11	-F		C	1508	20		
HTPR	19	1505	1505	1516	S14	W70	.933	13540	14.4	11	-F		C				
	19	1720	1742	NO FLARE PATROL													
	19	1748	1844	NO FLARE PATROL													
116 HTPR	21	0807	0810	0820	N10	W73	.964	13544	15.9	13	-F		C	0810	10		
117 HTPR	21	0859	0910	0919	N10	W75	.973	13544	15.7	20	-N		C	0910	30		
118 HTPR	21	0956	1007	1053	N10	W75	.973	13544	15.8	57	-F		C	1007	30		
GRP62119	21	1110	1112 1118	1125	N10	W76	.977	13544	15.8	15	-F						E
HTPR	21	1110	1112	1125	N10	W76	.977	13544	15.8	15	-F		C				E
HTPR	21	1110	1118	1125	N10	W76	.977	13544	15.8	15	-F		C	1118	30		E
120 HTPR	21	1140	1150	1215	N10	W76	.977	13544	15.8	35	-N		C	1150	30		
121 HTPR	21	1234	1235	1305	N10	W76	.977	13544	15.8	31	-N		C	1235	30		
122 HUAN	21	1556E		1606D	N08	W82	.993	13544	15.5	100	-F		P				
	21	1846	1942	NO FLARE PATROL													
	21	1946	1949	NO FLARE PATROL													
123 HUAN	21	1949E		2005D	N07	W85	.997	13544	15.5	160	-F		P	1952	30		
	21	2005	2014	NO FLARE PATROL													
	21	2026	2030	NO FLARE PATROL													
	21	2034	2041	NO FLARE PATROL													
GRP62124	21	2242	2244+1	2249	N07	W85	.997	13544	15.6	7	-F				20		DG
VORO	21	2242	2244	2247	N05	W88	1.000	13544	15.3	5	-F		C	2244	18	1.2	DG
PALE	21	2244E	2245U	2249	N07	W85	.997	13544	15.6	5D	-F	3	V		30		DE
PALE	21	2244E	2244U	2249	N08	W81	.991	13544	15.9	5D	-F	2	C		22		DE
GRP62125	22	0128E	0129+0	0138	N08	W85	.998	13544	15.7	10	-F				25		
PALE	22	0128E	0129U	0133D	N08	W87	.999	13544	15.5	5D	-F	2	V		25		DE
PALE	22	0129E	0129U	0138	N08	W84	.996	13544	15.8	9D	-F	2	C		18		DE
	22	2021	2110	NO FLARE PATROL													
	23	1906	1913	NO FLARE PATROL													
126 RAMY	23	2013	2017	2031	N16	E47	.787	13547	27.4	18	-F	3	C		27		
	23	2223	2225	NO FLARE PATROL													
	23	2331	2336	NO FLARE PATROL													
	23	2340	2350	NO FLARE PATROL													
	24	0125	0130	NO FLARE PATROL													

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 MAR	START	MAX. PHASE	END	APPROX LAT.	APPROX MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
	25	0309	0310	NO FLARE PATROL													
	25	1901	1916	NO FLARE PATROL													
	25	1925	2021	NO FLARE PATROL													
	25	2100	2121	NO FLARE PATROL													
127 HTPR	26	123P	1246	1256	S07	W02	.035	13561	26.4	18	-F		C	1246	20		
128 HTPR	26	1310		1440	N10	W90	1.000	13560	19.8	90	-F		C	1323	20		
	27	1657	1709	NO FLARE PATROL													
	27	1717	1721	NO FLARE PATROL													
	29	0150	0156	NO FLARE PATROL													
129 ABST	29	0744	0749	0803	N14	E56	.860	13564	2.5	19	-F		C	0749	87	1.9	
	30	0100	0108	NO FLARE PATROL													
	30	0120	0128	NO FLARE PATROL													
	30	0132	0140	NO FLARE PATROL													
	30	0145	0153	NO FLARE PATROL													
	30	0200	0210	NO FLARE PATROL													
130 ABST	30	0738	0739	0745	S15	E85	.994	13568	5.7	7	?F		C	0739	87		
		IMP 2	NO:	TEHR1													
131 ABST	30	1118	1122	1126	N01	E36	.598	13567	2.2	8	-F		C	1122	87	1.1	
	30	2127	2129	NO FLARE PATROL													
	30	2131	2318	NO FLARE PATROL													
	30	2322	2335	NO FLARE PATROL													
	31	0014	0024	NO FLARE PATROL													
	31	0055	0140	NO FLARE PATROL													
	31	0150	0200	NO FLARE PATROL													
132 KODA	31	0236	0237	0345	S17	E75	.960	13568	5.7	69	-N		V	0239			
	31	1934	1941	NO FLARE PATROL													
	31	2051	2053	NO FLARE PATROL													