

SOLAR FLARES  
Confirmed  
MARCH 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %	
					LAT.	MER. DIST.												
	1971																	
	MAR																	
GRP37013	01	0413E	0425	0413	S18	W69	.926	11165	24.0	12	1F						3 3 2 4	
MITK	01	0413E	0420		S18	W67	.913	11165	24.2	70	-F						E	
MANI	01	0413E	0432D	0413	S17	W69	.926	11165	24.0	19D	1N	2	C	0413	1.03	2.10		
SIBE	01	0415E	0423		S20	W70	.932	11165	23.9	8D	1F						E	
GRP37016	01	1931	1947	1936	S09	W65	.901	11166	24.9	16	--N						5 5 4 5	
LOCK	01	1930	1945	1936	S09	W65	.901	11166	24.9	15	-F							
PALE	01	1930	1948	1938	S12	W65	.900	11166	24.9	18	-N	2	C		.55		F	
RAMY	01	1931	1948	1935	S06	W65	.903	11166	24.9	17	-N	2	C		.52		D	
HUAN	01	1931	1936D	1936U	S08	W66	.909	11166	24.9	5D	-N	2	P	1936	.12	.28		
MCMA	01	1932	1935D		S08	W66	.909	11166	24.9	3D	-F		P	1933	.41	1.00	E	
019 TEHR	02	0417	0428	0420	S13	E68	.921	11181	7.3	11	--F	3	C		.19		D	
																	3	
GRP37020	02	0645	0746	0700	S14	E74	.955	11181	7.8	61	--F						2 2 2 4	
TEHR	02	0645	0746	0658	S12	E72	.945	11181	7.7	61	-F	3	C		.41		D	
CRON	02	0650U	0725U	0701U	S16	E75	.960	11181	7.9	35D	1F	1	C	0701	.75			
023 BOUL	02	1729	1755	1736	S17	W88	.998	11165	24.1	26	--F	2	V				2	
GRP37024	02	1823	1832	1826	N11	E13	.380	11176	3.7	9	--F				.55		2 2 1 4	
PALE	02	1822	1831	1825	N12	E13	.393	11176	3.7	9	-F	2	C		.55			
LOCK	02	1823	1832	1826	N10	E13	.367	11176	3.7	9	-F		C				H	
025 LOCK	02	2050	2100	2054	N08	W22	.449	11173	1.2	10	--F		C				3	
026 LOCK	02	2222	2240	2228	S18	W84	.991	11165	24.6	18	--F		C				3	
GRP37027	03	0056	0115	0100	N08	W24	.475	11173	1.2	19	--F				.67		2 2 2 4	
PALE	03	0055	0115	0100	N09	W23	.471	11173	1.3	20	-F	2	C		1.03			
MANI	03	0056	0114D	0059	N07	W24	.467	11173	1.2	18D	-N	2	C	0059	.31	.35		
GRP37030	03	0659	0727	0705	S15	W15	.286	11182	2.2	28	-N				1.00		5 5 5 8	
CATA	03	0655E	0750	0710	S15	W15	.286	11182	2.2	55D	-N		P	0710	.87	.91	182 T	
ABST	03	0655E	0741D	0705	S15	W15	.286	11182	2.2	46D	1F		P	0705	2.34	2.40	59 EJ	
MANI	03	0658	0718	0705	S15	W15	.286	11182	2.2	20	-N	2	C	0705	1.24	1.30		
CRON	03	0702	0712	0703	S15	W15	.286	11182	2.2	10	-N	2	C	0703	.32	.32		
TEHR	03	0703	0715	0704	S15	W15	.286	11182	2.2	12	-N	3	C		.23		D	
GRP37032	03	0758	0831	0807	S14	W16	.294	11182	2.1	33	-F				1.65		4 4 4 9	
MANI	03	0756	0828	0807	S15	W16	.301	11182	2.1	32	-N	2	C	0807	1.34	1.40		
HTPR	03	0758	0825	0806	S14	W15	.279	11182	2.2	27	-F		C	0806	.21	.20		
MONT	03	0801	0818	0806	S14	W15	.279	11182	2.2	17	-N		C	0806	2.27			
ABST	03	0802E	0852D	0809	S14	W16	.294	11182	2.1	50D	1F		P	0809	2.79	2.90	51 EJK	
GRP37036	03	1739	1750	1744	N10	E79	.986	11186	9.7	11	--F				.10		2 2 1 5	
LOCK	03	1739	1750	1743	N09	E77	.980	11186	9.5	11	-F						H	
HUAN	03	1740E	1748D	1745U	N10	E80	.989	11186	9.7	8D	-N	2	P	1745	.10			
GRP37038	03	1943	2004	1947	N25	W12	.563	11174	2.9	21	--F				.45		2 2 1 3	
LOCK	03	1942	1957	1946	N24	W09	.537	11174	3.1	15	-F		C					
PALE	03	1943	2010	1948	N25	W14	.574	11174	2.8	27	-F	2	C		.45			
039 LOCK	03	2224	2244	2228	S02	W82	.990	11177	25.8	20	--F		C				3	
GRP37040	04	0938	1003	0942	S14	W30	.503	11182	2.2	25	--N				.53		3 3 3 8	
HTPR	04	0936	1020	0942	S13	W31	.516	11182	2.1	44	-F				.62	.70		
TEHR	04	0938	0958	0942	S15	W30	.506	11182	2.2	20	-N	3	C		.19		D	
MONT	04	0939	0952	0941	S14	W30	.503	11182	2.2	13	-N		C	0941	.77			
GRP37044	04	1505	1603	1513	S13	E40	.639	11181	7.6	58	1N				4.06		7 6 4 7	
MCMA	04	1504	1610	1511	S13	E39	.626	11181	7.6	66	1N		C	1511	2.17	2.70	EL	
RAMY	04	1504	1611	1513	S13	E41	.652	11181	7.7	67	1N	3	C		4.23		F	
MONT	04	1505	1528D	1512	S14	E40	.641	11181	7.6	23D	2N		C	1512	8.25			
CAPE	04	1505	1522D	1514	S14	E40	.641	11181	7.6	17D	1N		P	1514	1.59	2.10	FH	
CANR	04	1505	1536		S12	E42	.664	11181	7.8	31	1N	2	V			2.60		
BOUL	04	1510E	1614	1514	S12	E40	.639	11181	7.6	64D	1N	2	V					
ATHN	04	1525E	1525D	1525	S14	E45	.703	11181	8.0		1N	1	C	1525	2.31	4.59	.70	
GRP37045	04	1710	1729	1715	S14	W35	.574	11182	2.1	19	--F				.21		2 2 1 5	
MCMA	04	1709	1730	1715	S14	W34	.560	11182	2.2	21	-N		C	1715	.21	.30	D	
LOCK	04	1710	1727	1715	S13	W35	.572	11182	2.1	17	-F		C					
047 PALE	04	2151	2159	2158	N06	W49	.773	11173	1.2	8	--F	2	C		.63		F	
048 PALE	05	0116	0129	0122	S19	W35	.587	11182	2.4	13	--F	2	C		.55		FH	

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
1971 MAR																		
GRP37049	05	0424	0434	0426	N08	W61	.889	11173	28.6	10	--F						2 2 2 5	
MANI	05	0424	0437	0426	N07	W63	.902	11173	28.5	13	-N	2	0426	.41	.79			
CRON	05	0425E	0431		N08	W59	.873	11173	28.8	6D	-F	3	V	.40				
GRP37052	05	0953	1008	0956	N14	E18	.466	11184	6.8	15	-N			.86			4 4 4 7	
ABST	05	0950	1019	0956	N14	E18	.466	11184	6.8	29	-F	C	0955	1.80	2.00	50	EG	
MEUD	05	0953	1005	0956	N15	E17	.468	11184	6.7	12	-N	C	0955	1.03	1.10		E	
CRON	05	0953	1004	0956	N14	E17	.456	11184	6.7	11	-N	2	C	0955	.32	.36		
TEHR	05	0954	1002	0956	N14	E18	.466	11184	6.8	8	-N	2	C	.28			F	
GRP37059	05	1735	1807	1739	S15	E31	.520	11181	8.1	32	--F			.31			2 2 1 3	
LOCK	05	1733	1746	1739	S16	E30	.509	11181	8.0	13	-F	C					D	
RAMY	05	1736	1828	1739	S14	E31	.518	11181	8.1	52	-F	3	C	.31				
GRP37060	05	1806	1823	1809	S14	E30	.503	11181	8.0	17	--F			.47			3 3 2 4	
RAMY	05	1736	1828	1807	S14	E31	.518	11181	8.1	52	-N	3	C	.52				
LOCK	05	1806	1817	1810	S16	E30	.509	11181	8.0	11	-F	C					E	
MCMA	05	1810E	1816D		S13	E29	.486	11181	7.9	6D	-F	P	1811	.41	.50			
GRP37062	06	0301	0311	0304	N07	W72	.957	11173	28.7	10	--F			.56			2 2 2 5	
MANI	06	0301E	0311D	0304	N06	W73	.961	11173	28.7	10D	-N	2	0304	.62	1.37			
CRON	06	0304E	0311		N07	W71	.952	11173	28.8	7D	-F	3	V	.50				
GRP37066	06	0835	0852	0838	N05	W74	.965	11173	28.8	17	--F			.19			3 3 3 8	
TEHR	06	0835	0852	0840	N05	W74	.965	11173	28.8	17	-F	3	C	.28			D	
CATA	06	0835	0855	0835	N05	W73	.961	11173	28.9	20	-N	C	0835	.17		178		
CRON	06	0836	0850	0840	N06	W75	.970	11173	28.7	14	-F	2	C	0840	.11			
GRP37068	06	1448	1502	1452	N08	W84	.996	11173	28.3	14	--F			.10			2 2 1 5	
RAMY	06	1448	1501	1451	N08	W79	.985	11173	28.7	13	-F	2	C				D	
HUAN	06	1452E	1503	1453U	N08	W88	1.000	11173	28.0	11D	-F	1	P	1453	.10			
069 LOCK	06	2146	2210	2155	N17	E79	.990	11190	12.8	24	--F						3	
GRP37070	07	0235	0252	0239	N06	W87	.999	11173	28.6	17	-N			.67			2 2 2 4	
MITK	07	0234	0249	0237	N07	W89	1.000	11173	28.4	15	1N	C	0237	.93			D	
MANI	07	0236	0254	0240	N05	W85	.997	11173	28.7	18	-N	2	0240	.41	1.20			
GRP37071	07	0247	0258	0250	N07	W74	.967	11173	1.6	11	-F			.80			3 3 3 4	
CRON	07	0246	0259	0251	N08	W72	.958	11173	1.7	13	-F	2	C	0251	.54			
MITK	07	0247	0255	0249	N07	W75	.971	11173	1.5	8	1F	C	0249	1.03			D	
MANI	07	0247	0301	0250	N07	W75	.971	11173	1.5	14	-N	2	0250	.83	1.92			
GRP37075	07	0604	0626	0607	N06	W86	.998	11173	28.8	22	-N			.41			2 2 2 4	
MANI	07	0604	0619	0606	N05	W87	.999	11173	28.7	15	-N	2	0606	.31	.93			
ATHN	07	0607E	0633	0608	N07	W85	.998	11173	28.9	26D	-N	2	0608	.50	.99	.99		
6 STATIONS REPORTING GROUP 37079. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37079	07	1023	1150	1113	S13	E05	.132	11181	7.8	87	1N			3.78			5 5 5 6	
ATHN	07	1023	1131	1114	S13	E06	.143	11181	7.9	68	1N	3	1114	3.30	6.60	.22		
TEHR	07	1030	1034	1032	S13	E08	.169	11181	8.0	4	-F	3	C	.28			F	
TEHR	07	1046E	1155	1108	S13	E06	.143	11181	7.9	69D	1N	3	C	2.41				
CAPE	07	1051E	1240	1115	S15	E05	.159	11181	7.8	109D	1N	P	1115	2.08	2.10		H	
ABST	07	1056E	1158D	1119	S15	E06	.169	11181	7.9	62D	2N	P	1119	7.20	7.30	71	FJKG	
ABST	07	1102E	1158D	1107	S11	W01	.068	11181	7.4	56D	-F	P	1107	1.18	1.20	48	EGJ	
RAMY	07	1103E	1157	1107	S13	E06	.143	11181	7.9	54D	1N	2	C	3.92			UF	
37079	07	1023	1310	1055	S13	E06	.143	11181	7.9	167	*-N			1.28			2 2 2 5	
HTPR	07	1023	1310	1059	S13	E05	.132	11181	7.8	167	1N	C	1059	1.96	2.00		GSU	
TEHR	07	1046E	1155	1050	S13	E06	.143	11181	7.9	69D	-N	3	C	.59			SF	
GRP37080	07	1051	1106	1053	N07	W77	.979	11173	1.7	15	--F			.72			2 2 2 5	
ATHN	07	1050E	1106	1050	N10	W75	.973	11173	1.8	16D	-F	3	1050	.99	1.98	.94		
TEHR	07	1052	1106	1055	N04	W78	.980	11173	1.6	14	-N	3	C	.45			HF	
082 LOCK	07	1920	1935	1923	N03	W81	.989	11173	1.7	15	-N						H	
GRP37083	07	2035	2046	2039	N05	W86	.998	11173	1.4	11	-N			.41			2 2 1 4	
LOCK	07	2035	2052	2038	N03	W81	.989	11173	1.8	17	-N	C					H	
PALE	07	2035	2039	2039	N06	W90	1.000	11173	1.1	4	-N	2	C	.41				
GRP37084	07	2118	2129	2121	S16	E03	.160	11181	8.1	11	--F			.27			2 2 1 3	
LOCK	07	2116	2130	2120	S16	E02	.156	11181	8.0	14	-F	C						
PALE	07	2119	2128	2121	S15	E03	.144	11181	8.1	9	-F	2	C	.27			F	
085 LOCK	07	2150	2200	2154	N06	W55	.833	11176	3.8	10	--F						3	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
4 STATIONS REPORTING GROUP 37086. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37086	07	2305	2351	2319	S15	E00	.135	11181	8.0	46	--F					3 3 2 5		
LOCK	07	2300	0010	2320	S16	E00	.152	11181	8.0	70	1F	C				HF		
PALE	07	2308	2343	2318	S15	E01	.136	11181	8.0	35	-F	2 C	1.08					
CRON	07	2308E	2339		S15	E00	.135	11181	8.0	31D	-N	2 V	.80					
37086	07	2310	2341	2334	S15	E02	.139	11181	8.1	31	*-F		1.08			2 2 2 5		
PALE	07	2308	2343	2334	S15	E01	.136	11181	8.0	35	-F	2 C	1.63					
MANI	07	2311	2339	2333	S15	E03	.144	11181	8.2	28	-F	2	2333	.52	.52			
GRP37087	08	0142	0155	0144	N04	W90	1.000	11173	1.3	13	-N		.59			2 2 2 5		
MITK	08	0140	0155	0143	N04	W90	1.000	11173	1.3	15	1N	C	0143	.72		D		
PALE	08	0143	0155	0145	N04	W90	1.000	11173	1.3	12	-N	2 C	.45					
GRP37089	08	0755	0809	0758	S13	W07	.156	11181	7.8	14	--N		1.08			3 3 2 7		
HTRP	08	0754	0810	0756	S14	W08	.180	11181	7.7	16	-F	C	0755	1.65	1.70	U		
CANR	08	0756	0804	0758	S13	W05	.132	11181	8.0	8	-N	2 V	0758	.20				
ATHN	08	0759E	0812	0801	S13	W07	.156	11181	7.8	13D	-N	2	0801	.50	.99	.15		
GRP37095	08	1054	1105	1056	S08	E44	.690	11189	11.8	11	--F		.26			2 2 2 5		
HTRP	08	1053	1105	1055	S08	E45	.702	11189	11.8	12	-F	C	1055	.21	.30	D		
MEUD	08	1055	1105	1056	S08	E43	.677	11189	11.7	10	-F	C	1055	.31	.40	D		
GRP37097	08	1535	1545	1537	S19	W05	.220	11181	8.3	10	--F		.29			4 4 4 5		
HTRP	08	1532	1545	1536	S19	W05	.220	11181	8.3	13	-F	C	1536	.21	.20			
RAMY	08	1534	1546	1536	S19	W06	.227	11181	8.2	12	-N	3 C	.41			D		
CANR	08	1536	1545	1538	S20	W04	.231	11181	8.3	9	-N	1 C	1538	.22	.22			
MEUD	08	1536	1545	1539	S19	W05	.220	11181	8.3	9	-F	C	1539	.31	.30	D		
099 LOCK	08	2100	2200	2130	N21	W46	.801	11183	5.4	60	--F	C				S 2		
GRP37100	09	0217	0304	0248	S12	W19	.331	11181	7.7	47	--F		.43			2 2 2 5		
MANI	09	0217	0313	0246	S12	W19	.331	11181	7.7	56	-F	2 C	0246	.41	.40			
PALE	09	0245	0255	0249	S12	W18	.315	11181	7.8	10	-F	2 C	.45					
GRP37104	09	1023	1039	1028	S15	W22	.389	11181	7.8	16	--N		.65			5 5 5 9		
HTRP	09	1022	1038	1025	S14	W22	.385	11181	7.8	16	-F	C	1025	.72	.80	U		
CRON	09	1023	1030D	1026	S15	W22	.389	11181	7.8	7D	-N	1 C	1026	.54	.58			
CANR	09	1024	1041U	1028	S16	W21	.380	11181	7.9	17D	-N	2 C	1028	.43	.46			
ATHN	09	1027E	1032	1030	S14	W23	.400	11181	7.7	5D	-N	2	1030	.83	1.64	.41		
CATA	09	1030E	1045D	1031	S14	W21	.370	11181	7.9	15D	-N	P	1031	.75	.82	188		
GRP37105	09	1043	1052	1045	S14	W22	.385	11181	7.8	9	--F		.31			3 3 3 7		
HTRP	09	1041	1053	1044	S14	W22	.385	11181	7.8	12	-F	C	1044	.21	.20			
ATHN	09	1043E	1055	1046	S14	W23	.400	11181	7.7	12D	-F	3	1046	.50	.98	.41		
MONT	09	1044	1047	1046	S14	W22	.385	11181	7.8	3	-N	C	1046	.21				
GRP37107	09	1659	1719	1704	S17	E57	.833	11191	14.0	20	--F		.49			3 3 2 5		
LOCK	09	1658	1720	1704	S18	E57	.833	11191	14.0	22	-F	C						
MCMA	09	1700	1726	1708	S15	E57	.832	11191	14.0	26	-N	C	1708	.62	1.10	E		
RAMY	09	1700	1711	1701	S17	E57	.833	11191	14.0	11	-F	3 C	.36			D		
GRP37108	09	1742	1757	1745	N20	E83	.998	11192	16.0	15	--F					2 2 0 3		
LOCK	09	1742	1751	1745	N19	E79	.990	11192	15.7	9	-F	C				H		
RAMY	09	1742	1803		N21	E87	1.000	11192	16.3	21	-N	2 C				D		
GRP37109	09	2121	2133	2124	N20	E83	.998	11192	16.1	12	--F					3 3 0 3		
LOCK	09	2120	2130	2124	N19	E79	.990	11192	15.8	10	-F	C						
BOUL	09	2121	2140	2124	N20	E85	.999	11192	16.3	19	-N	2 V				D		
MCMA	09	2123	2129	2125	N22	E85	.999	11192	16.3	6	-F	C	2125					
GRP37110	10	0821	0835	0823	N20	E76	.983	11192	16.0	14	--F		.24			3 3 3 7		
HTRP	10	0818	0830	0821	N20	E75	.980	11192	16.0	12	-F	C	0821	.21				
TEHR	10	0823E	0844	0825	N19	E74	.976	11192	15.9	21D	-N	2 C	.19			HD		
ATHN	10	0823	0830D	0824	N21	E80	.993	11192	16.3	7D	-F	2	0824	.33	.65	.99		
115 RAMY	10	1951	2005	1955	S06	E07	.123	11189	11.4	14	--F	1 C	.52			D 3		
116 PALE	10	2005E	2011	2005	N05	E89	1.000	11196	17.5	6D	--F	3 C	.31			3		
	10	2321	2328		NO FLARE PATROL													
123 PALE	11	2023E	2031	2025	N08	E82	.993	11196	18.0	8D	--F	2 C				2		
124 PALE	11	2043	2105	2051	S14	W54	.803	11181	7.8	22	--F	2 C	.36			3		
125 LOCK	11	2230	2240	2233	N08	E81	.991	11196	18.0	10	--F	C				1		
126 LOCK	11	2320	2328	2323	N05	E78	.981	11196	17.8	8	--F	C				2		



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %		
					LAT.	MER. DIST.													
	1971 MAR																		
37156 PALE	13	2328	0010	2336	N07	E53	.817	11196	18.0	42	*-N			1.14				3 3 2 5	
LOCK	13	2328E	0020	2340	N08	E53	.819	11196	18.0	52D	-B 2	C		1.35				D K	
MANI	13	2328	0030	2335	N04	E54	.820	11196	18.0	62	-N	C							
	13	2328	2340	2334	N09	E53	.822	11196	18.0	12	-N	2	C	2334	.93	1.57			
159 ATHN	14	0745E	0804	0747	N11	E49	.788	11196	18.0	19D	--F 1		C	0747	.17	.33	.79		3
161 RAMY	14	1703	1723	1706	S10	W45	.702	11189	11.3	20	--F 2	C		.83				D 3	
GRP37166 CATA	15	0736	0818	0751	N08	E34	.604	11196	17.9	42	1B		P		2.21				4 3 3 6
CRON	15	0735E	0840	0750	N08	E34	.604	11196	17.9	65D	1B		C	0750	3.25	4.07		214	
ATHN	15	0736	0815	0748	N07	E34	.598	11196	17.9	39	-B 1	C		0748	1.40	1.80			
ARCE	15	0740E	0800	0754	N10	E35	.627	11196	17.9	20D	1N 1		C	0754	1.98	3.92	.63		F
	15	0825E	0922		N08	E34	.604	11196	17.9	57D	1F		C	0825	2.16	2.80			
GRP37167 CANR	15	0936	0944	0939	N17	W27	.588	11190	13.4	8	--N		V		1.13				2 2 1 5
MONT	15	0935	0937D	0937	N17	W27	.588	11190	13.4	20	-N	3	C	0937		.50			
	15	0936	0944	0941	N16	W27	.579	11190	13.4	8	-N		C	0941	1.13				
168 MONT	15	1023	1032	1027	N16	W27	.579	11190	13.4	9	-N		C	1027	2.27				3
GRP37170 PALE	15	1843	1906	1846	N07	E29	.533	11196	18.0	23	--F		C		.67				2 2 2 4
RAMY	15	1842E	1908	1847	N06	E29	.527	11196	18.0	26D	-F 3		C		.81				F D
	15	1843	1903	1845	N08	E29	.540	11196	18.0	20	-F 1		C		.52				
3 STATIONS REPORTING GROUP 37171.					0 STATIONS OBSERVING AND NOT REPORTING.														
GRP37171 LOCK	15	2116	2156	2124	N10	E30	.566	11196	18.1	40	--N		C		.52				3 3 2 3
PALE	15	2112	2300	2127	N11	E29	.561	11196	18.1	108	-N		C						
BOUL	15	2117	2157	2124	N09	E32	.584	11196	18.3	40	-N	3	C		.72				
	15	2118	2155	2121	N10	E29	.553	11196	18.1	37	-N	1	C	2121	.32	.39			
37171 LOCK	15	2112	2244	2218	N09	E28	.534	11196	18.0	92	*-F		C		.99				2 2 1 7
PALE	15	2112	2300	2220	N09	E27	.521	11196	17.9	108	-F		C						
	15	2213E	2228	2216	N08	E28	.527	11196	18.0	15D	-F 2		C		.99				K FS
GRP37173 PALE	16	0336	0347	0339	N07	E23	.453	11196	17.9	11	--N		C		.39				3 3 2 5
CRON	16	0333	0348	0339	N06	E23	.445	11196	17.9	15	-N	2	C		.45				F
SIBE	16	0334	0348	0339	N07	E23	.453	11196	17.9	14	-N	1	C	0339	.32	.36			
	16	0340	0345		N07	E23	.453	11196	17.9	5	1F		V						
GRP37174 CULG	16	0412	0450	0422	N08	E23	.462	11196	17.9	38	-N		C		1.23				3 3 3 5
CRON	16	0409	0453	0425	N08	E24	.474	11196	18.0	44	1N		C	0425	2.17	2.30			
TEHR	16	0413	0445	0422	N08	E23	.462	11196	17.9	32	-N	1	C	0422	.97	1.09			
	16	0413	0453	0420	N09	E23	.470	11196	17.9	40	-N	2	C		.55				D
GRP37177 TEHR	16	1306	1315	1307	N06	E18	.379	11196	17.9	9	--N		C		.50				2 2 2 5
HTPR	16	1305	1317	1307	N07	E18	.388	11196	17.9	12	-N	3	C		.28				D E
	16	1307	1312	1307	N05	E18	.370	11196	17.9	5	-N		C	1307	.72	.70			
GRP37179 PALE	16	1839	1909	1842	N07	E15	.352	11196	17.9	30	--N		C		.77				4 3 2 4
BOUL	16	1838	1913	1843	N07	E16	.364	11196	18.0	35	-N	3	C		.99				D
LOCK	16	1840	1903	1843	N07	E14	.340	11196	17.8	23	-N	1	C	1843	.54	.57			
RAMY	16	1840E	1910	1840	N08	E15	.363	11196	17.9	30D	-F		C						
	16	1854E	1900	1854	N08	E16	.375	11196	18.0	6D	-F 3		C		.83				D
GRP37180 LOCK	16	2120	2138	2124	N07	E15	.352	11196	18.0	18	--F		C		.19				3 3 1 4
PALE	16	2118	2140	2124	N08	E15	.363	11196	18.0	22	-F		C						F
BOUL	16	2121	2133	2123	N06	E14	.329	11196	17.9	12	-F	2	C		.19				
	16	2121E	2142	2126	N08	E15	.363	11196	18.0	21D	-F 1		V						
GRP37183 CRON	17	0316	0353	0341	S06	W19	.324	11207	15.7	37	-N		C		.32				2 1 1 4
KODA	17	0316	0353	0341U	S06	W19	.324	11207	15.7	37	-N	1	C	0341	.32	.34			
	17	0320	0330	0321	S06	W18	.308	11207	15.8	10	-N		V	0320	1.69	1.70	1.55		CEH
7 STATIONS REPORTING GROUP 37184.					1 STATIONS OBSERVING AND NOT REPORTING.														
GRP37184 CRON	17	0644	0713	0657	S06	W21	.357	11207	15.7	29	-N		C		1.02				5 5 5 7
CRON	17	0634	0714	0659	S06	W22	.373	11207	15.6	40	-B	1	C	0659	.65	.69			
CATA	17	0634	0714	0651	S06	W22	.373	11207	15.6	40	-N	1	C	0651	.43	.46			
CAPE	17	0640	0715	0655	S06	W21	.357	11207	15.7	35	-B		C	0655	.58	.62		263	
CRIM	17	0646	0715	0656	S06	W19	.324	11207	15.9	29	-N		C	0655	1.06	1.10			
MANI	17	0648	0718		S05	W21	.358	11207	15.7	30	-F		P	0655	1.35	1.40			E
	17	0651	0703		S08	W21	.356	11207	15.7	12	-N	2		0659	1.44	1.55			
37184 TACH	17	0708	0721	0711	S05	W22	.374	11207	15.6	13	*-F		V		.75				2 2 2 8
HTPR	17	0708E	0717	0709	S05	W21	.358	11207	15.7	90	-N		V	0709	1.09	1.17	1.73	51	D
	17	0712E	0725	0712	S05	W22	.374	11207	15.6	13D	-F		C	0712	.41	.40			E

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %		
					LAT.	MER. DIST.													
GRP37185	17	0645	0700	0648	N20	W20	.552	11192	15.8	15	-N							6 6 6 7	
CRON	17	0643	0701	0650	N19	W19	.532	11192	15.9	18	-N	1	C	0650	.54				
CAPE	17	0645	0705	0649	N20	W20	.552	11192	15.8	20	-B		C	0649	1.11	1.30			H
CRIM	17	0645	0657		N21	W20	.564	11192	15.8	12	-N		P	0648	1.44	1.70			D
CATA	17	0645	0655	0645	N20	W20	.552	11192	15.8	10	-B		C	0645	.75	.91		204	
MANI	17	0645E	0702		N17	W21	.527	11192	15.7	17D	1N	2	C	0647	2.06	2.40			
TACH	17	0648E	0659	0649	N22	W20	.575	11192	15.8	11D	-N		V	0649	1.09	1.42	2.02	51	E
GRP37186	17	0830	0921	0905	S06	W22	.373	11207	15.7	51	--F				1.10				4 4 4 8
HTRP	17	0830	0925	0908	S05	W22	.374	11207	15.7	55	-F			0908	1.03	1.00			E
HTRP	17	0830	0925	0847	S05	W22	.374	11207	15.7	55	-F		C						E
CRON	17	0857	0917		S06	W20	.340	11207	15.9	20	-F	3	V		.70				
ABST	17	0858E	0913D	0908	S06	W22	.373	11207	15.7	15D	1F		P	0908	2.07	2.20		54	FJKZ
CATA	17	0900E	0915D	0900	S06	W22	.373	11207	15.7	15D	-N		P	0900	.58	.63		191	H
GRP37188	17	1408	1422	1410	N22	W23	.599	11192	15.9	14	--F				.42				3 3 3 8
RAMY	17	1407	1425	1410	N21	W23	.589	11192	15.9	18	-F	2	C		.72				D
ATHN	17	1408	1419	1410	N22	W23	.599	11192	15.9	11	-F	1	C	1410	.33	.65	.63		
HTRP	17	1408	1413D	1410	N22	W24	.608	11192	15.8	5D	-F		C	1410	.21	.20			
GRP37190	17	1719	1728	1722	N19	W28	.616	11192	15.6	9	--F				.72				2 2 1 5
PALE	17	1719	1725	1722	N18	W27	.597	11192	15.7	6	-F	2	C		.72				F
LOCK	17	1719	1730	1722	N19	W28	.616	11192	15.6	11	-F		C						
GRP37192	18	0025	0037	0029	S22	E12	.323	11201	18.9	12	--F				.32				2 2 1 5
LOCK	18	0024	0038	0029	S22	E13	.333	11201	19.0	14	-F		C						
CRON	18	0025	0035	0028	S22	E11	.314	11201	18.8	10	-N	1	C	0028	.32	.34			
GRP37193	18	0217	0228	0220	S07	W31	.511	11207	15.8	11	--N				.36				3 3 3 6
CRON	18	0215	0229	0218U	S08	W31	.511	11207	15.8	14	-N	1	C	0218	.32	.38			
MANI	18	0218	0231	0219	S07	W31	.511	11207	15.8	13	-N	2	C	0219	.31	.35			
PALE	18	0222E	0223	0222	S06	W30	.497	11207	15.8	1D	-F	2	C		.45				F
MANI	18	0229	0234	0232	S07	W33	.541	11207	15.6	5	-N	2	C	0232	.21	.25			
195 CRON	18	0341	0409	0350U	S05	W31	.513	11207	15.8	28	--F	1	C	0350	.32	.38			3
196 CRON	18	0422	0431	0425	S06	W32	.527	11207	15.8	9	--N	1	C	0425	.22	.25			2
GRP37197	18	0535	0548	0539	S07	W33	.541	11207	15.8	13	--N				.39				3 3 3 6
TEHR	18	0533	0549	0537	S07	W33	.541	11207	15.8	16	-N	1	C		.55				D
CRON	18	0537	0546	0540	S06	W33	.542	11207	15.8	9	-N	1	C	0540	.32	.38			
MANI	18	0539E	0540D	0539	S07	W33	.541	11207	15.8	1D	-N	2	C	0539	.31	.37			
GRP37200	18	0754	0805	0755	S17	W58	.842	11191	14.0	11	-N				.59				4 3 3 9
TEHR	18	0753	0809	0754	S18	W60	.860	11191	13.8	16	-N	2	C		.45				F
CRON	18	0753	0804	0755	S16	W60	.860	11191	13.8	11	-N	1	C	0755	.43	.84			
ATHN	18	0754	0810	0757	S15	W55	.813	11191	14.2	16	-N	1	C	0757	.99	1.98	.85		
GAPS	18	0755	0803		S18	W55	.815	11191	14.2	8	-F	1	S	0755	.90	1.50		150	
GRP37212	18	1541	1559	1542	S20	E08	.260	11201	19.3	18	--F				.50				2 1 1 4
ATHN	18	1541E	1559D	1542	S20	E08	.260	11201	19.3	18D	-F	1	C	1542	.50	.99	.27		
BOUL	18	1554E	1615	1558	S19	E04	.217	11201	19.0	21D	-F	1	V						
GRP37214	18	1606	1617	1613	S16	E47	.729	11209	22.2	11	--F								2 2 0 3
LOCK	18	1606	1618	1612	S18	E47	.731	11209	22.2	12	-F		C						
BOUL	18	1613E	1616	1613	S14	E46	.715	11209	22.1	3D	-F	1	V						
GRP37215	18	1620	1632	1623	N18	W40	.729	11192	15.7	12	--N				.22				3 3 1 3
LOCK	18	1618	1632	1622	N18	W41	.739	11192	15.6	14	-F		C						
BOUL	18	1620	1631	1622	N18	W39	.719	11192	15.8	11	-N	1	V						
CANR	18	1621	1633	1625	N17	W41	.733	11192	15.6	12	-N	2	C	1625	.22	.31			
GRP37216	18	1720	1741	1725	S06	W40	.639	11207	15.7	21	--F								2 2 0 2
LOCK	18	1715	1742	1725	S06	W41	.653	11207	15.6	27	-F		C						
CANR	18	1724	1740		S06	W39	.626	11207	15.8	16	-N	2	V		.80				
217 LOCK	18	1830	1842	1835	S06	W41	.653	11207	15.7	12	--F		C						1
218 LOCK	18	1856	1915	1903	S07	W41	.652	11207	15.7	19	-N		C						1
GRP37219	18	2145	2157	2151	S07	W42	.665	11207	15.8	12	--F				.22				2 2 1 2
LOCK	18	2145	2157	2149	S07	W41	.652	11207	15.8	12	-F		C						
BOUL	18	2147E	2157U	2152U	S07	W43	.678	11207	15.7	10D	-N	1	C	2152	.22	.29			
GRP37220	18	2220	2250	2231	S07	W43	.678	11207	15.7	3D	-N				1.30				3 3 2 4
LOCK	18	2220	2240	2228	S07	W41	.652	11207	15.9	20	-N		C						
BOUL	18	2224E	2255U	2228	S07	W43	.678	11207	15.7	31D	-N	1	C	2228	.43	.59			
CULG	18	2227E	2254	2237	S06	W44	.691	11207	15.6	27D	1N		P		2.17	2.80			



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OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg		MAX. INT. %	
	1971																		
	MAR																		
271 LOCK	21	1725	1750	1730	S20	E09	.270	11209	22.4	25	--F	C						3	
273 LOCK	21	2035	2045	2038	S16	E05	.178	11209	22.2	10	--F	C						3	
274 LOCK	21	2300	2320	2310	S16	E05	.178	11209	22.3	20	--F	C						3	
275 LOCK	21	2343	2350	2346	N04	E75	.969	11217	27.6	7	--F	C						H 3	
277 CRON	23	0121	0136	0124	N32	E16	.667	11213	24.3	15	--N	2 C	0124	.43	.58			3	
278 TEHR	23	0400	0432	0404	N20	W10	.480	11214	22.4	32	--N	3 C		.19				D 4	
287 RAMY	23	1738	1802	1744	N07	W80	.988	11196	17.7	24	--F	1 C		.52				D 3	
	23	1935	2200	NO FLARE PATROL															
GRP37288	24	0531	0557	0539	S15	W27	.465	11209	22.2	26	-N			1.14				4 4 4 4	
ATHN	24	0528	0600	0538	S14	W27	.461	11209	22.2	32	-N	1	0538	1.49		.47			
TEHR	24	0529	0558	0538	S17	W25	.445	11209	22.4	29	-N	3 C		.69				FU	
CRON	24	0532	0554	0539	S15	W25	.435	11209	22.4	22	-N	2 C	0539	.86	.96				
KODA	24	0535	0554	0540	S14	W31	.519	11209	21.9	19	-N	V	0550	1.52	1.50	1.64		GE	
GRP37293	24	1230	1248	1233	S13	E61	.868	11219	29.1	18	-F			1.00				4 4 4 11	
HTPR	24	1225	1250	1234	S14	E63	.885	11219	29.2	250	-F	C	1234	.62	1.30				
RAMY	24	1229E	1247	1231	S12	E61	.868	11219	29.1	180	-N	3 C		.72				F	
CAPS	24	1231	1249		S12	E63	.885	11219	29.2	18	-N	3 V	1234	1.10			160	E	
LV0V	24	1233	1245	1235	S13	E57	.833	11219	28.8	12	1F	C	1235	1.55	2.74		53	BE	
GRP37294	24	1423	1432	1425	S13	E61	.868	11219	29.2	9	--N			.36				6 6 5 10	
HUAN	24	1422	1426	1426	S13	E63	.885	11219	29.3	40	-N	2 P	1426	.15	.31			D	
MONT	24	1423	1432	1425	S13	E61	.868	11219	29.2	9	-N	C	1425	.77					
RAMY	24	1423E	1435	1424	S12	E62	.877	11219	29.2	120	-N	3 C		.41				D	
MCMA	24	1424	1431	1425	S12	E62	.877	11219	29.3	7	-N	C	1425	.26	.50			DH	
TEHR	24	1424	1432	1424	S12	E60	.860	11219	29.1	8	-F	3 C		.19				D	
ONDR	24	1425E	1429		S14	E58	.842	11219	29.0	40	-F	V	1426			1.80		CDH	
GRP37295	24	2058	2127	2109	S13	E58	.842	11219	29.2	29	--N			.48				3 3 2 3	
BOUL	24	2056U	2110	2108	S13	E58	.842	11219	29.2	140	-N	1 C	2108	.43	.79				
LOCK	24	2100	2125	2110	S14	E57	.833	11219	29.1	25	-N	C							
MCMA	24	2108E	2128		S13	E58	.842	11219	29.2	200	-N	C	2111	.52	1.00			E	
GRP37296	25	0313	0328	0320	S16	E88	.998	11221	31.7	15	-B			1.10				2 2 2 5	
KODA	25	0308	0326	0319	S15	E86	.995	11221	31.6	18	-B	V	0308	2.00	2.00	2.88		CD	
TEHR	25	0318	0329	0320	S16	E89	.999	11221	31.8	11	-N	2 C		.19				D	
298 TEHR	25	0610	0617	0612	S12	E54	.803	11219	29.3	7	--N	1 C		.28				D 4	
GRP37299	25	0810	0832	0816	S17	E83	.989	11221	31.6	22	-N			.62				4 4 4 7	
HTPR	25	0802	0850	0817	S18	E80	.980	11221	31.3	48	-N	C	0817	.52					
TEHR	25	0810	0823	0812	S16	E88	.998	11221	31.9	13	-N	2 C		.28				D	
CANR	25	0812	0836	0816	S18	E80	.980	11221	31.3	240	-N	1 C	0816	.54					
MONT	25	0816	0820	0817	S17	E85	.993	11221	31.7	4	-N	C	0817	1.13					
GRP37300	25	1000	1008	1004	S17	E83	.989	11221	31.6	8	-N			.35				4 4 4 6	
HTPR	25	0958	1009	1005	S17	E80	.980	11221	31.4	11	-N	C	1005	.21				D	
TEHR	25	0959	1009	1002	S16	E87	.997	11221	31.9	10	-N	3 C		.19				D	
MONT	25	1001	1006	1003	S17	E84	.991	11221	31.7	5	-N	C	1003	.77					
CANR	25	1001	1009	1004	S17	E80	.980	11221	31.4	8	-N	2 C	1004	.22					
GRP37301	25	1045	1100	1050	S16	E82	.986	11221	31.6	15	-N			.43				6 6 5 7	
HTPR	25	1042	1103	1047	S16	E80	.980	11221	31.4	21	-N	C	1047	.21				D	
RAMY	25	1044E	1101		S15	E82	.986	11221	31.6	170	-B	2 C						D	
TEHR	25	1045	1057	1046	S16	E87	.997	11221	1.0	12	-N	3 C		.28				D	
CANR	25	1046	1100	1048	S17	E80	.980	11221	31.4	14	-N	2 C	1048	.22					
MONT	25	1046	1100	1054	S17	E84	.991	11221	31.7	140	-N	C	1054	1.13					
ATHN	25	1057E	11010	1057	S16	E80	.980	11221	31.5	40	-N	1	1057	.33	.65	.99			
GRP37304	25	1443	1447	1443	S17	E80	.980	11221	31.6	4	-N			.70				2 2 2 7	
MCMA	25	1442	1447	1443	S16	E78	.973	11221	31.5	5	-N	C	1443	.26	1.40			D	
MONT	25	1443	1446	1443	S17	E82	.986	11221	31.8	3	-N	C	1443	1.13					
GRP37306	26	0557	0724	0625	S20	E70	.933	11221	31.5	87	1F			1.79				3 1 1 6	
ATHN	26	0533	0615	0540	S17	E68	.921	11221	31.3	42	-N	1	0540	.83	1.65	.92			
ABST	26	0557E	0724	0625	S20	E70	.933	11221	31.5	870	1F	P	0625	1.79				E	
HTPR	26	0636	0705	0643	S17	E68	.921	11221	31.4	29	-F	C	0643	.52					
308 MANI	26	2250	2306	2257	S18	E63	.885	11221	31.7	16	--F	2	2257	.31	.58			2	



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMTM PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.													
GRP37319	27	1427	1445	1433	S00	W90	1.000	11203	20.9	18	-N							3 3 1 8	
BOUL	27	1426	1450	1435	N03	W90	1.000	11203	20.9	24	-N	2	V						
HTPR	27	1427	1440	1433	S05	W90	1.000	11203	20.9	13	-N			1433	.41				
ATHN	27	1428E	1445	1430	N01	W90	1.000	11203	20.9	17D	-N	1	C	1430			1.00		
GRP37323	27	1806	1823	1809	N20	E30	.641	11222	30.0	17	--F				.32			3 3 2 5	
LOCK	27	1805	1823	1809	N21	E29	.640	11222	29.9	18	-F		C					D	
RAMY	27	1805	1826	1807	N20	E30	.641	11222	30.0	21	-F	1	C		.41				
BOUL	27	1807	1819	1810	N19	E31	.643	11222	30.1	12	-F	1	C	1810	.22	.28			
GRP37325	27	2028	2035	2031	S16	E49	.752	11221	31.5	7	--N				.43			3 3 2 4	
RAMY	27	2028	2041	2031	S15	E50	.762	11221	31.6	13	-F	1	C		.52			D	
HUAN	27	2028	2033	2031	S17	E49	.753	11221	31.5	5	-N	2	P	2031	.33	.51		D	
LOCK	27	2029	2032	2030	S16	E49	.752	11221	31.5	3	-N		C					V	
GRP37326	27	2113	2121	2116	N21	W68	.952	11214	22.8	8	--F				.45			2 2 1 3	
PALE	27	2113	2120	2116	N20	W71	.965	11214	22.6	7	-N	3	C		.45				
BOUL	27	2115E	2121	2116	N21	W65	.937	11214	23.0	6D	-F	2	V						
GRP37327	27	2234	2250	2244	S16	E49	.752	11221	31.6	16	--F				.45			2 2 1 3	
LOCK	27	2234	2250	2240	S15	E50	.762	11221	31.7	16	-F		C						
PALE	27	2245E	2250	2247	S16	E48	.741	11221	31.5	5D	-N	3	C		.45			F	
330 MANI	28	0139	0155	0141	S19	E52	.787	11221	1.0	16	--N	2		0141	.21	.33		2	
331 MANI	28	0205	0218	0213	S16	E44	.695	11221	31.4	13	--N	2		0213	.41	.56		1	
332 MANI	28	0235	0249	0238	S19	E48	.745	11221	31.7	14	--N	2		0238	.31	.46		2	
GRP37336	28	1222	1241	1225	S19	E40	.653	11221	31.5	19	-B				.94			3 2 2 3	
CANR	28	1221	1240	1224	S19	E40	.653	11221	31.5	19	-N	2	C	1224	.43	.57			
HTPR	28	1223	1241	1225	S18	E40	.650	11221	31.5	18	-B		C	1225	1.44	1.80		E	
CAPS	28	1240E	1244		S15	E40	.644	11221	31.5	4	-F	1	S	1240	.40	.50			
GRP37337	28	1315	1320	1316	S14	E41	.655	11221	31.6	5	--N				.57			2 2 2 5	
HTPR	28	1315	1319	1317	S12	E41	.653	11221	31.6	4	-N		C	1317	.62	.80			
CATA	28	1315E	1320D	1315	S15	E41	.656	11221	31.6	5D	-N		P	1315	.52	.71		160	
GRP37342	29	0936	1006	0944	S15	W06	.177	11219	29.0	30	-N				1.73			9 9 9 10	
CATA	29	0935E	1015D	0941	S15	W07	.187	11219	28.9	40D	-N		P	0941	1.44	1.47		195	
ARCE	29	0936	1000D	0941	S13	W07	.162	11219	28.9	24D	-B		C	0941	1.74	1.90			
CAPE	29	0936	1010	0943	S14	W06	.163	11219	28.9	34	-N		C	0943	1.34	1.40			
ABST	29	0936	1010	0942	S15	W06	.177	11219	28.9	34	1F		C	0942	2.59	2.70		E	
CRON	29	0937	1009	0940	S15	W06	.177	11219	29.0	32	-N	2	C	0940	.97	.97			
HTPR	29	0937	0948D	0941	S14	W05	.153	11219	29.0	11D	-N		C	0941	1.34	1.40		E	
MANI	29	0942E	0955	0943	S14	W05	.153	11219	29.0	13D	-N	1		0943	.62	.65			
MONT	29	0944E	1002	0949	S15	W05	.167	11219	29.0	18D	1B		C	0949	4.54				
CANR	29	0946E	1005	0946E	S16	W06	.191	11219	29.0	19D	-N	2	C	0946	.97	.97			
HTPR	29	0952E	1008	0952	S14	W05	.153	11219	29.0	14D	1N		C	0952	3.40	3.40			
GRP37344	29	1023	1037	1027	S19	E29	.511	11221	31.6	14	-N				1.16			6 6 6 7	
CANR	29	1021	1025D	1022U	S18	E28	.493	11221	31.5	4D	-N	2	C	1022	.22	.25			
CAPE	29	1022	1040	1028	S19	E28	.498	11221	31.5	18	-F		C	1028	1.21	1.40			
MONT	29	1023	1031	1027	S20	E30	.530	11221	31.7	8	-N		C	1027	2.27				
MEUD	29	1023	1035		S19	E29	.511	11221	31.6	12	-F		C	1027	.83	.90			
CATA	29	1025E	1045D	1025	S19	E29	.511	11221	31.6	20D	-B		P	1025	.69	.82		237	
HTPR	29	1025	1034	1027	S18	E30	.520	11221	31.7	9	-B		C	1027	1.75	1.90		E	
GRP37345	29	1221	1228	1223	S18	E25	.452	11221	31.4	7	--N				.55			4 4 3 6	
RAMY	29	1221	1227	1222	S18	E25	.452	11221	31.4	6	-N	2	C		.83			D	
MEUD	29	1221	1226	1222	S17	E25	.446	11221	31.4	5	-F		C	1222	.31	.30		D	
CANR	29	1221	1222D	1222	S18	E25	.452	11221	31.4	1D	-N	2	V	1222		.60			
CATA	29	1225E	1230D	1225	S19	E25	.458	11221	31.4	5D	-N		P	1225	.52	.58		168	
6 STATIONS REPORTING GROUP 37347.										0 STATIONS OBSERVING AND NOT REPORTING.									
GRP37347	29	1410	1510	1417	S19	E23	.431	11221	31.3	60	-B				1.59			6 6 6 6	
LOCA	29	1407	1530	1417	S19	E20	.391	11221	31.1	83	1N		P	1417	3.16	3.40			
CANR	29	1408	1513	1413	S20	E24	.451	11221	31.4	65	-B	2	C	1413	.54	.60			
MEUD	29	1410	1437D		S18	E24	.438	11221	31.4	27D	-N		C	1420	1.24	1.30		E	
BOUL	29	1412	1429	1415	S18	E23	.424	11221	31.3	17	-B	1	C	1415	.65	.71			
RAMY	29	1412	1524	1416	S17	E23	.418	11221	31.3	72	-B	3	C		1.34			F	
RAMY	29	1412	1524	1419	S17	E23	.418	11221	31.3	72	-N	3	C		1.65				
MONT	29	1413	1506	1422	S20	E21	.412	11221	31.2	53	1N		C	1422	2.58				
37347	29	1410	1517	1431	S21	E21	.420	11221	31.2	67	*-B				.43			2 1 1 7	
BOUL	29	1410	1517	1431U	S21	E21	.420	11221	31.2	67	-B	1	C	1431	.43	.47			
MEUD	29	1447E	1500		S18	E24	.438	11221	31.4	13D	-F		C	1448	.72	.80		E	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH DISTANCE	PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %	
	1971 MAR																	
GRP37348	29	1518	1545	1535	S20	E22	.425	11221	31.3	27	--N					.54		3 3 2 6
LOCK	29	1515	1550	1535	S20	E22	.425	11221	31.3	35	-N							
BOUL	29	1520	1546	1536U	S20	E22	.425	11221	31.3	26	-N	1	C	1536	.32	.36		
ZURI	29	1535E	1540	1535	S19	E23	.431	11221	31.4	50	-N		P	1535	.75	.80		
GRP37349	29	1623	1635	1628	S15	W08	.198	11219	29.1	12	--F							2 2 0 5
LOCK	29	1620	1635	1625	S15	W08	.198	11219	29.1	15	-F		C					
BOUL	29	1626	1635	1630	S15	W07	.187	11219	29.2	9	-F	1	V					
GRP37350	29	1635	1650	1637	S19	E26	.471	11221	31.6	15	--N					.86		4 4 3 4
RAMY	29	1635	1650	1637	S18	E26	.466	11221	31.5	15	-N	4	C		1.13		D	
BOUL	29	1635	1651	1637	S20	E26	.477	11221	31.6	16	-N	1	C	1637	.32	.37		
LOCK	29	1635	1650	1638	S20	E25	.464	11221	31.5	15	-B		C					
MEUD	29	1635E	1637D		S19	E26	.471	11221	31.6	20	-N		C	1637	1.13	1.20		C
GRP37353	29	1944	2005	1949	S18	E21	.397	11221	31.4	21	-N					1.18		4 4 3 4
LOCK	29	1943	2010	1949	S18	E21	.397	11221	31.4	27	-B		C					
BOUL	29	1945	2000	1948	S17	E21	.390	11221	31.4	15	-N	1	C	1948	.86	.93		
RAMY	29	1945	2006	1948	S18	E21	.397	11221	31.4	21	-N	3	C		1.24		D	
PALE	29	1948E	2002	1950	S18	E21	.397	11221	31.4	140	-N	2	C		1.44		F	
GRP37355	29	2139	2154	2143	S14	W10	.212	11219	29.2	15	--F					.62		4 4 2 4
PALE	29	2136	2200	2142	S16	W10	.234	11219	29.1	24	-F	2	C			.72		F
RAMY	29	2140	2153	2142	S16	W11	.246	11219	29.1	13	-N	3	C			.52		D
LOCK	29	2140	2152	2144	S16	W10	.234	11219	29.2	12	-F		C					
BOUL	29	2142E	2149	2142	S07	W10	.172	11219	29.2	70	-N	2	V					
GRP37356	29	2150	2207	2154	S16	E24	.427	11221	31.7	17	--F					.83		2 2 1 4
LOCK	29	2145	2200	2150	S15	E24	.422	11221	31.7	15	-F		C					
RAMY	29	2155	2214	2158	S16	E23	.412	11221	31.6	19	-N	2	C			.83		D
GRP37358	29	2303	2318	2309	S20	E18	.374	11221	31.3	15	--F					.64		3 3 2 6
LOCK	29	2300	2315	2305	S19	E15	.327	11221	31.1	15	-F		C					
PALE	29	2305	2322	2308	S20	E16	.349	11221	31.2	17	-F	2	C			.45		
MANI	29	2312E	2316D	2315	S20	E24	.451	11221	31.8	40	-N	1		2315	.83	.90		
GRP37359	29	2349	0010	2359	S16	E20	.369	11221	31.5	21	--F							2 1 0 6
PALE	29	2348	2352		S15	E21	.378	11221	31.6	4	-F	2	C					F
LOCK	29	2350	0010	2359	S16	E18	.341	11221	31.3	20	-F		C					S
GRP37361	30	0340	0357	0346	S20	E15	.338	11221	31.3	17	--N					.46		3 3 3 5
CRON	30	0339	0356	0345	S20	E13	.315	11221	31.1	17	-N	1	C	0345	.22	.23		
TACH	30	0341	0357	0346	S21	E15	.349	11221	31.3	16	-N		C	0346	.55	.58	64	D
MANI	30	0347E	0357	0348	S19	E18	.365	11221	31.5	100	-N	1		0348	.62	.67		
GRP37362	30	0419	0443	0426	S16	W16	.313	11219	29.0	24	-N					1.98		6 6 6 6
CULG	30	0412	0527	0422	S15	W16	.305	11219	29.0	75	1N		C	0422	3.51	3.40		
CRON	30	0420	0439D	0428U	S19	W19	.378	11219	28.8	190	-N	1	C	0428	1.29	1.33		
TEHR	30	0420	0424D	0424	S17	W15	.308	11219	29.1	4	-N	4	C			.46		F
TACH	30	0421	0528	0427	S16	W14	.285	11219	29.1	67	1F		C	0427	2.09	2.19	1.96	51
KODA	30	0423	0440	0428	S13	W15	.277	11219	29.1	17	1N		V	0423	2.59	2.70	1.76	
MANI	30	0427E	0450	0428	S14	W16	.298	11219	29.0	230	-N	1		0428	1.86	1.93		E CIJK
GRP37366	30	0556	0642	0602	S20	E13	.315	11221	31.2	46	-N					1.29		6 6 6 8
ABST	30	0554	0640	0601	S19	E12	.292	11221	31.1	46	-F		P	0601	1.62	1.70		52
CRON	30	0556	0613D	0559U	S20	E10	.284	11221	31.0	170	-B	1	C	0559	.86	.86		
ATHN	30	0556E	0639D	0600	S19	E12	.292	11221	31.1	430	-N	1		0600	1.32	2.68	.27	
MANI	30	0556E	0644	0600	S20	E17	.362	11221	31.5	480	-N	2		0600	.93	.99		
TACH	30	0558	0623D	0604	S21	E12	.317	11221	31.1	250	1F		C	0604	1.92	2.06	1.37	51
CATA	30	0605E	0630D	0605	S20	E12	.304	11221	31.2	250	-N		P	0605	1.09	1.16		158
GRP37367	30	0701	0717	0708	S20	E13	.315	11221	31.3	16	--N					.83		7 7 7 9
ABST	30	0657E	0717D	0711	S19	E13	.304	11221	31.3	200	-F		P	0711	1.08	1.10		
MANI	30	0658	0715	0708	S19	E18	.365	11221	31.6	17	-N	2		0708	.52	.55		
CATA	30	0700	0720	0705	S21	E12	.317	11221	31.2	20	-N		C	0705	.46	.49		200
CAPE	30	0700	0718	0708	S21	E12	.317	11221	31.2	18	-N		C	0708	.98	1.00		
ATHN	30	0702E	0719D	0708	S19	E12	.292	11221	31.2	170	-N	1		0708	.66	1.34	.22	
HTRP	30	0703	0715	0709	S20	E12	.304	11221	31.2	12	-B		C	0709	.83	.80		
CRIM	30	0704	0716		S19	E12	.292	11221	31.2	12	-F		P	0708	1.26	1.30		E D

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMMATH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %	
GRP37370	30 MAR	0818	0841	0828	S20	E10	.284	11221	31.1	23	-N							10 10 10 15	
ARCE	30	0810E	0940		S20	E10	.284	11221	31.1	90D	-N		C	0825	1.16	1.30			
CRON	30	0815E	09020	0828	S20	E10	.284	11221	31.1	47D	-N	1	C	0828	.54	.54			
ATHN	30	0816E	08520	0827	S19	E10	.271	11221	31.1	36D	-N	1	C	0827	1.16	2.31	.25		
HTPR	30	0818	0835	0826	S20	E11	.294	11221	31.2	17	-B		C	0826	.52	.50		E	
MANI	30	0818E	0837	0830	S20	E12	.304	11221	31.2	19D	-N	2	C	0830	.31	.32			
CANR	30	0818U	0830	0826	S20	E10	.284	11221	31.1	12D	-N	2	C	0826	.32	.32			
CAPE	30	0820	0840	0828	S20	E10	.284	11221	31.1	20	-F		C	0828	1.03	1.10			
MONT	30	0820E	0842	0828	S20	E11	.294	11221	31.2	22D	-N		C	0828	2.27				
TEHR	30	0828E	0833	0829	S19	E11	.281	11221	31.2	5D	-N	4	C		.22			F	
CAPS	30	0830	0955		S19	E08	.252	11221	31.0	85	-N	2	S	0832	1.00	1.00		160	
GRP37371	30	0850	0916	0856	S20	E11	.294	11221	31.2	26	-N				1.04			14 13 11 15	
CATA	30	0815	0935D	0855	S21	E11	.307	11221	31.2	80D	-B		P	0855	.75	.79		234	
CRON	30	0815E	09020	0855U	S20	E11	.294	11221	31.2	47D	-B	1	C	0855	.75	.75			
TEHR	30	0845E	0912	0854	S20	E12	.304	11221	31.3	27D	-N	3	C		.45			F	
ISTA	30	0845	0910		S19	E11	.281	11221	31.2	25	-N								
CANR	30	0850	0902	0853	S20	E10	.284	11221	31.1	12	-N	2	C	0853	.32	.32			
MONT	30	0851	0925	0855	S20	E11	.294	11221	31.2	34	1B		C	0855	2.58				
CAPE	30	0851	0935	0855	S21	E11	.307	11221	31.2	44	-B		C	0855	1.07	1.10			
ABST	30	0851	0924	0854	S20	E11	.294	11221	31.2	33	-F		C	0854	1.26	1.30		59	
CRIM	30	0852	0907		S19	E11	.281	11221	31.2	15	-N		P	0855	1.44	1.50		EJ D	
MEUD	30	0852	0905	0854	S20	E11	.294	11221	31.2	13	-N		C						
HTPR	30	0852	0925	0855	S20	E10	.284	11221	31.1	33	-B		C	0855	1.55	1.60			
MANI	30	0853E	0905D	0858	S20	E12	.304	11221	31.3	12D	-N	2		0858	.52	.54			
ARCE	30	0903E	1003D		S20	E11	.294	11221	31.2	60D	-F		C	0903	.77	.90			
ATHN	30	0906E	0935D	0910	S19	E10	.271	11221	31.1	29D	-F	1		0910	.95	1.89	.25		
GRP37374	30	1048	1104	1053	N24	W57	.895	11226	26.2	16	-N				.66			4 4 4 13	
MONT	30	1046	1055	1054	N25	W58	.904	11226	26.1	9	-N		C	1054	.72				
CAPS	30	1050	1110		N22	W57	.889	11226	26.2	20	-F		V	1052	.80	1.40		140	
RAMY	30	1051E	1110	1052	N25	W57	.897	11226	26.2	19D	-N	2	C		.57				
ZURI	30	1054E	1102	1054	N24	W55	.881	11226	26.3	8D	-N		P	1054	.53	1.10			
GRP37375	30	1114	1125	1117	S20	E10	.284	11221	31.2	11	--F				.33			3 3 3 11	
RAMY	30	1113	1123	1115	S20	E10	.284	11221	31.2	10	-F	2	C		.31			D	
ATHN	30	1115E	1129D	1119	S20	E10	.284	11221	31.2	14D	-F	1	C	1119	.17	.33	.28		
HTPR	30	1115	1123	1118	S20	E10	.284	11221	31.2	8	-F		C	1118	.52	.50		D	
GRP37376	30	1256	1330	1301	S16	W19	.355	11219	29.1	34	-N				1.97			13 13 11 14	
ABST	30	1255	1328D	1300	S16	W20	.370	11219	29.0	33D	1F		P	1300	1.98	2.10		52	
ATHN	30	1255E	1317D	1259	S15	W21	.378	11219	29.0	22D	-N	1	C	1259	.50	.99	.39		
RAMY	30	1255	1337	1302	S15	W20	.364	11219	29.0	42	-N	3	C		1.86			UH	
CATA	30	1255	1340D	1302	S17	W18	.349	11219	29.2	45D	1B		P	1302	2.02	2.16		207	
MCMA	30	1255	1335	1300	S16	W19	.355	11219	29.1	40	-N		C	1300	.83	.90		EL	
HTPR	30	1255	1333	1302	S15	W20	.364	11219	29.0	38	1B		C	1302	2.78	2.80		U	
CAPE	30	1256	1320	1301	S16	W19	.355	11219	29.1	24	-N		C	1301	1.56	1.70		H	
MONT	30	1256	1337	1301	S15	W20	.364	11219	29.0	41	1B		C	1301	5.67			H	
CAPS	30	1257	1321		S16	W15	.299	11219	29.4	24	-F		V	1259	.70	.70		150	
CANR	30	1258	1258D		S16	W18	.341	11219	29.2		-N	2	V		1.40				
BOUL	30	1300E	1320	1300E	S14	W21	.373	11219	29.0	20D	-N	1	V						
CAPF	30	1306E	1315D		S16	W18	.341	11219	29.2	9D	1F		P	1308	2.27	2.42			
ZURI	30	1307E	1327D	1307	S15	W17	.320	11219	29.3	20D	-N		P	1307	1.54	1.60			
37376	30	1323	1336	1326	S17	W19	.362	11219	29.1	13	*-F				.41			3 3 2 13	
RAMY	30	1255	1337	1325	S15	W20	.364	11219	29.0	42	-N	3	C		.57				
ATHN	30	1319E	1336D	1322	S17	W18	.349	11219	29.2	17D	-F	1	C	1322	.25	.50	.35		
BOUL	30	1327	1335	1330	S18	W18	.357	11219	29.2	8	-F	1	V						
GRP37377	30	1423	1450	1431	S16	W20	.370	11219	29.1	27	-N				1.85			12 11 11 12	
TEHR	30	1421	1433	1424	S15	W20	.364	11219	29.1	12	-N	3	C		.25			DS	
RAMY	30	1421	1453	1434	S15	W20	.364	11219	29.1	32	-N	3	C		1.24				
RAMY	30	1421	1453	1426	S15	W20	.364	11219	29.1	32	-N	3	C		.83			FS	
HTPR	30	1422	1450	1430	S15	W20	.364	11219	29.1	28	1B		C	1430	2.58	2.60			
MONT	30	1422	1504	1429	S15	W22	.393	11219	28.9	42	1B		C	1429	4.54				
LOCA	30	1422	1455	1430	S14	W21	.373	11219	29.0	33	1N		V	1430	3.57	3.80			
CAPE	30	1423	1435D	1431	S15	W21	.378	11219	29.0	12D	-N		P	1431	1.30	1.40			
CANR	30	1423	1447	1428	S15	W22	.393	11219	28.9	24	-F	2	C	1428	.43	.47			
BOUL	30	1423	1500U	1427U	S14	W22	.388	11219	28.9	37D	1F	1	C	1427	1.94	2.10			
MCMA	30	1424E	1451D		S16	W19	.355	11219	29.2	27D	-N		C	1430	.83	.90		E	
CAPS	30	1426	1451		S16	W16	.313	11219	29.4	25	1F	3	V	1427	3.00	3.00		150	
ATHN	30	1430E	1455D	1430	S22	W15	.360	11219	29.5	25D	-N	1		1430	.66	1.34	.41		
CATA	30	1430E	1450D	1443	S16	W21	.384	11219	29.0	20D	-N		P	1443	.87	.95		170	
GRP37381	30	1803	1815	1805	N11	E00	.303	11224	30.8	12	--F				.24			3 3 2 4	
LOCK	30	1802	1813	1806	N12	W01	.320	11224	30.7	11	-N		C						
BOUL	30	1803	1818	1805	N10	E00	.287	11224	30.8	15	-F	1	C	1805	.22	.22			
MCMA	30	1803	1814	1805	N11	E00	.303	11224	30.8	11	-F		C	1805	.26	.30		D	

# SOLAR FLARES Confirmed MARCH 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER-DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
	1971																		
	MAR																		
GRP37382	30	2151	2218	2201	S19	E10	.271	11221	31.7	27	--F					1.03			3 3 1 3
LOCK	30	2150	2230	2202	S20	E05	.245	11221	31.3	40	-F	C							E
MCHA	30	2151	2203D		S18	E08	.238	11221	31.5	120	-N	C	2200		1.03	1.10			
BOUL	30	2156E	2205	2159	S19	E16	.340	11221	1.1	90	-F	2 V							
GRP37385	31	1158	1218	1203	S19	W02	.217	11221	31.3	20	--F					.21			3 2 2 11
RAMY	31	1143	1212	1148	S19	E00	.215	11221	31.5	29	-F	2 C				.83			D
TEHR	31	1158E	1218	1200	S19	W01	.215	11221	31.4	200	-N	3 C				.19			D
GATA	31	1200E	1210D	1205	S18	W02	.200	11221	31.4	100	-F	P	1205		.23	.24		135	
GRP37386	31	1235	1254	1238	S20	W01	.232	11221	31.4	19	--N					.36			3 3 2 12
RAMY	31	1234	1249	1237	S19	E00	.215	11221	31.5	15	-F	2 C				.52			D
TEHR	31	1236	1255	1238	S20	W01	.232	11221	31.4	19	-N	3 C				.19			D
CANR	31	1236	1258	1238	S20	W01	.232	11221	31.4	22	-N	1 V	1238			.80			
GRP37389	31	1515	1539	1518	S18	W03	.204	11221	31.4	24	--N					.56			9 8 7 12
RAMY	31	1512	1522	1516	S18	W02	.200	11221	31.5	10	-N	1 C				.62			D
BOUL	31	1514	1555	1518	S18	W03	.204	11221	31.4	41	-N	1 C	1518			.32			
CANR	31	1515	1556	1517	S18	W03	.204	11221	31.4	41	-N	2 V	1517			.60			
LOCA	31	1515	1550	1520	S19	W03	.220	11221	31.4	35	-N	V	1520		1.05	1.10			
MEUD	31	1516	1520	1517	S18	W04	.209	11221	31.3	4	-F	C	1517			.50			
MCHA	31	1516	1550D	1517	S18	W04	.209	11221	31.3	340	-N	C	1517			.41	.40		E
ATHN	31	1516E	1528D	1518	S19	W02	.217	11221	31.5	120	-N	1	1518			.99	.22		
CAPS	31	1517	1527		S18	W02	.200	11221	31.5	10	-F	2 V	1518			.50	.50		
CAPF	31	1535E	1545D		S18	W02	.200	11221	31.5	100	1N	P	1539		2.68	2.73			
GRP37392	31	1718	1738	1726	S18	W04	.209	11221	31.4	20	--N					.70			5 5 4 5
MCHA	31	1715	1819	1726	S18	W04	.209	11221	31.4	64	-B	C	1726			.52	.60		EHL
LOCK	31	1720	1735	1727	S18	W05	.215	11221	31.3	15	-N	C							
CANR	31	1720	1737	1725	S17	W04	.193	11221	31.4	17	-N	2 C	1725			.54	.54		
BOUL	31	1723E	1731D	1724	S18	W05	.215	11221	31.3	80	-N	1 C	1724			.75	.75		
PALE	31	1729E	1730	1729	S19	W06	.237	11221	31.3	10	-B	1 C				.99			D
BOUL	31	1731	1749D	1731	S19	E00	.215	11221	31.7	180	-F	2 V							
GRP37394	31	1839	1856	1845	S18	W04	.209	11221	31.5	17	--N					.64			3 3 2 3
BOUL	31	1836U	1855	1845	S18	W04	.209	11221	31.5	190	-N	1 C	1845			.97	.97		
LOCK	31	1841	1857	1845	S18	W05	.215	11221	31.4	16	-N	C							
MCHA	31	1848E	1855		S18	W04	.209	11221	31.5	7D	-N	C	1848			.31	.30		E
GRP37395	31	1934	1955	1944	S17	W05	.199	11221	31.4	21	--F					.91			3 3 1 3
BOUL	31	1930	1953	1943	S17	W04	.193	11221	31.5	23	-F	1 V							
LOCK	31	1935	1953	1942	S17	W05	.199	11221	31.4	18	-F	C							
PALE	31	1938	1958	1947	S18	W07	.230	11221	31.3	20	-N	3 C				.91			D
396 LOCK	31	2022	2040	2030	S17	W05	.199	11221	31.5	18	--F	C							2
	31	2134	2145	NO FLARE PATROL															

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity nor are these subflares included in the Flare Index below.

### DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
710301	3.64	24.0	710315	59.71	24.0	710325	12.62	24.0
710303	19.65	24.0	710316	7.98	24.0	710326	16.91	24.0
710304	87.00	24.0	710317	13.26	24.0	710327	0.89	24.0
710305	3.90	24.0	710318	50.56	24.0	710328	4.66	24.0
710307	83.78	24.0	710319	10.79	24.0	710329	43.59	24.0
710308	7.99	24.0	710321	4.27	24.0	710330	79.84	24.0
710310	0.00	23.9	710323	0.00	21.6	710331	0.00	23.8
710312	8.12	24.0	710324	12.14	24.0			
710313	65.30	24.0						

When no Flare Index is given, it is 0 for that day.

Errata: Flare Indices for February 4 and 5, 1971 should read 23.34 and 226.01, respectively, instead of 0 and 220.41 as given on page 21 of "Solar-Geophysical Data" Number 324-Part II.

SOLAR FLARES  
Unconfirmed  
MARCH 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
011 MANI	01	0050	0110	0054	S17	W67	.913	11165	24.0	20	-F	2	0054	1.75	3.60			4
012 MANI	01	0313	0332	0317	N09	E03	.284	11173	1.4	19	-N	2	0317	.62	.65			5
3 STATIONS REPORTING GROUP 37014. 4 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37014	01	1047	1058	1050	N08	W11	.322	11173	28.6	11	-F			.56				3
ABST	01	1046	1057	1050	N08	W10	.312	11173	28.7	11	-F	C	1050	.90	1.00		47	DJ
TEHR	01	1048	1058	1049	N08	W11	.322	11173	28.6	10	-F	C		.28				D
CANR	01	1048	1058	1050	N08	W11	.322	11173	28.6	10	-N	2	C	1050	.22	.23		
015 TEHR	01	1138	1210	1141	S12	E86	.996	11181	7.9	32	-F	3	C		.45			D
GRP37017	02	0002	0014	0006	S08	W68	.923	11166	24.9	12	-F			.72				2
LOCK	02	0002	0012	0006	S08	W66	.909	11166	25.1	10	-F	C						2
MANI	02	0004E	0015	0006	S08	W69	.929	11166	24.8	11D	-F	2	C	0006	.72	1.53		
018 TEHR	02	0333	0342	0336	N05	W17	.357	11173	28.9	9	-N	2	C		.19			D
021 CRON	02	0741E	0752		N03	W58	.855	11177	26.0	11D	-F	3	V		.70			
022 GATA	02	0945E	1000D	0955	S02	E38	.619	11180	5.3	15D	-F		P	0955	.58	.73		144
028 MANI	03	0355E	0414D	0400	N07	W33	.586	11173	28.7	19D	-N	2		0400	.31	.38		
029 MANI	03	0408E	0432D	0414	S15	W13	.257	11182	2.2	24D	-N	2		0414	.31	.32		
GRP37031	03	0709	0730	0713	N08	W27	.514	11173	1.3	21	-N			.62				2
MANI	03	0709	0730	0713	N08	W27	.514	11173	1.3	21	-N	2		.62	.71			1
CAPS	03	0719	0743		N06	W25	.473	11173	1.4	24	-F	3	P	0726	.80	.90		150
GRP37033	03	0834	0918	0841	S15	W16	.301	11182	2.2	44	-F			.43				2
TEHR	03	0830	0922	0838	S15	W16	.301	11182	2.2	52	-N	3	C		.64			2
CRON	03	0837	0913	0843	S15	W15	.286	11182	2.2	36	-F	1	C	0843	.22	.22		F
034 CAPS	03	0910	0919		S01	E24	.418	11180	5.2	9	-F	3	V	0912	.40	.50		135
GRP37035	03	1116	1142	1118	S14	W17	.309	11182	2.2	26	-F			.21				2
ATHN	03	1114	1139	1117	S14	W17	.309	11182	2.2	25	-N	1		1117			.31	2
HTPR	03	1118	1145	1119	S14	W17	.309	11182	2.2	27	-F	C		1119	.21	.20		
037 HUAN	03	1753E	1805D	1757U	S03	E19	.332	11180	5.2	12D	-N	2	P	1757	.12	.13		D
041 ATHN	04	1110E	1130	1115	S03	E10	.188	11180	5.2	20D	-N	1		1115	.33	.66	.17	
042 ATHN	04	1246	1257D	1250	S03	E09	.172	11180	5.2	11D	-F	1		1250	.33	.66	.17	
043 MONT	04	1442	1449	1444	S14	W32	.532	11182	2.2	7	-N		C	1442	1.13			
046 PALE	04	2051E	2059	2053	N16	W22	.528	11176	3.2	8D	-F	2	C		.72			FS
050 ATHN	05	0824E	0824D	0824	N11	W20	.454	11176	3.9		-N	1		0824	.17	.33	.45	
051 ABST	05	0841	0852	0845	N11	W20	.454	11176	3.9	11	-F		C	0845	.63	.70		49
053 ABST	05	1125	1138D	1129	N07	W62	.895	11173	28.8	13D	-F		P	1129	.81	1.80		50
054 RANY	05	1315E	1329	1315	N07	W66	.923	11173	28.6	14D	-N	2	C		.36			D
055 ATHN	05	1354E	1415	1354	N08	E49	.779	11186	9.3	21D	-F	3		1354	.99	1.98	.78	
056 HUAN	05	1413	1424D	1416	N08	W68	.937	11173	28.5	11D	-N	2	P	1416	.07			D
057 HUAN	05	1444	1447D	1447U	N05	W65	.914	11173	28.7	3D	-N	2	P	1447	.18	.38		D
058 ATHN	05	1457	1458D	1458	N08	W70	.948	11173	28.4	1D	-N	2		1458	.17	.33	.95	
061 CRON	06	0046E	0054		N07	W69	.941	11173	28.9	8D	-F	3	V		.50			
063 MANI	06	0308E	0311D	0311	S12	E22	.378	11181	7.8	3D	-F	2		0311	.62	.67		
064 CRON	06	0320E	0324		S13	E20	.350	11181	7.6	4D	-F	3	V		1.00			
065 ATHN	06	0619	0630D	0623	S10	E25	.420	11181	8.1	11D	-F	2		0623	.33	.66	.41	
067 ATHN	06	1124	1134	1127	S14	W90	1.000	11171	27.7	10	-F	2		1127	.17	.33	1.00	
072 CRON	07	0354E	0411	0401	S15	E90	.999	11191	13.9	17D	-N	3	V		.40			
073 MANI	07	0501E	0518	0503	N25	W51	.859	11174	3.4	17D	-N	2		0503	.52	1.05		

# SOLAR FLARES Unconfirmed

MARCH 1971

OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS				REMARKS			
	DATE 1971 MAR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMT PLAGE REGION					CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H $\alpha$	MAX. INT. %	
074 CRON	07	0501E	0514		N11	W44	.737	11176	3.9	13D	-F	3	V		.45					4
076 ATHN	07	0609E	0630	0611	S14	E88	.998	11191	13.9	21D	-N	2		0611	.17	.33	1.00			4
077 ATHN	07	0653E	0714	0655	S07	E14	.240	11181	8.3	21D	-F	3		0655	.33	.66	.19			6
078 CANR	07	0927	0950	0936	S13	E07	.156	11181	7.9	23	-N	3	V	0936		.20				10
081 RAMY	07	1110	1124	1112	N25	W53	.873	11174	3.5	14	-F	2	C		.31				D	6
088 CRON	08	0220U	0235U	0222U	S09	E48	.737	11189	11.7	15D	-F	1	C	0222	.11	.16				7
090 ATHN	08	0757E	0807	0759	S17	E48	.741	11189	11.9	10D	-F	2		0759	.17	.33	.72			7
091 ATHN	08	0829E	0835	0829	S12	E75	.961	11191	14.0	6D	-N	3		0829	.17	.33	.96			6
092 ARCE	08	0840E	0900D		S08	E43	.677	11189	11.6	20D	-N		C	0850	.81	1.10			T	8
093 ATHN	08	0907E	0931	0907	S19	W88	.997	11182	1.8	24D	-B	3		0907	.33	.66	1.00			6
GRP37094	08	1048	1117	1105	S12	W06	.132	11181	8.0	29	-F				.94				2 2 2	6
MEUD	08	1048	1115	1102	S11	W06	.122	11181	8.0	27	-F		C	1102	.52	.50			E	
ABST	08	1106E	1119	1108	S13	W05	.132	11181	8.1	13D	-F		P	1108	1.35	1.40		49	EG	
096 CANR	08	1505U	1518U	1510U	S14	W10	.207	11181	7.9	13D	-F	1	C	1510	.22	.22				7
098 BOUL	08	1845E	1907	1856	S18	E68	.920	11191	13.9	22D	-F	1	V							4
101 MANI	09	0417	0422	0418	S13	W18	.319	11181	7.8	5	-F	2		0418	.31	.30				5
102 ARCE	09	0854E	1000D		S14	E60	.859	11191	13.9	66D	1F		C	0905	1.16	2.20				6
103 ARCE	09	0920	0940D	0925	S08	E28	.466	11189	11.5	20D	-F		C	0925	.63	.70				7
106 CATA	09	1445E	1450D	1445	N01	E25	.443	11189	11.5	5D	-N		P	1445	.23	.26		151		8
111 ATHN	10	0824	0830D	0826	S05	E15	.260	11189	11.5	6D	-F	2		0826	.33	.65	.27			8
112 CRON	10	0850	0905	0855	S07	E13	.223	11189	11.3	15	-F	3	V		.25					7
113 TEHR	10	0929	0941	0932	S19	W10	.263	11193	9.6	12	-N	2	C		.09				D	6
114 ARCE	10	1020E	1025D		S14	E46	.715	11191	13.9	5D	-B		P	1020	1.31	1.90				7
GRP37117	11	0732E	0745	0732	S09	E05	.092	11189	11.7	13	-F				.36				2 2 2	8
CATA	11	0732E	0745	0732	S09	E05	.092	11189	11.7	13D	-F		P	0732	.29	.29		141		
BUCA	11	0733E	0745D		S08	E04	.070	11189	11.6	12D	-F		C	0735	.43	.40			D	
118 TEHR	11	1004	1011	1005	N13	E56	.859	11192	15.6	7	-F	3	C		.19				HD	7
119 TEHR	11	1020	1033	1025	N15	W44	.754	11185	8.1	13	-F	3	C		.23				D	6
120 RAMY	11	1302	1315	1306	N15	E25	.549	11190	13.4	13	-F	3	C		.52				D	5
121 ATHN	11	1331	1340D	1334	N08	E88	1.000	11196	18.2	9D	-F	2		1334	.17	.33	1.00			6
122 HTPR	11	1611	1618	1612	S15	W50	.761	11181	7.9	7	-F		C	1612	.21	.30				5
127 CRON	12	0009E	0032		N09	E75	.972	11196	17.6	23D	-F	3	V		.30					4
129 CRON	12	0218E	0229		N08	E85	.998	11196	18.5	11D	-F	3	V		.20					4
130 ATHN	12	0549	0608	0553	S09	W10	.175	11189	11.5	19	-F	1		0553	.17	.33	.18			5
131 CRON	12	0616	0624	0620	S08	E09	.156	11198	12.9	8	-F	3	V		.25					5
132 ATHN	12	0659E	0716	0659	S09	W10	.175	11189	11.5	17D	-F	1		0659	.33	.65	.18			7
133 ATHN	12	0714E	0730	0714	N07	E73	.962	11196	17.8	16D	-F	1		0714	.33	.65	.95			9
134 ATHN	12	0714E	0732	0714	S17	E22	.400	11191	14.0	18D	-F	1		0714	.17	.33	.41			9
135 ATHN	12	0755	0802	0757	N18	E42	.749	11192	15.5	7	-F	1		0757	.17	.33	.85			11
136 ATHN	12	0815E	0827	0815	S09	E72	.947	11195	17.7	12D	-F	1		0815	.33	.65	.95			12
GRP37137	12	0815	0828	0818	S07	W14	.240	11189	11.3	13	-F				1.55				2 2 2	13
MONT	12	0814	0826	0818	S06	W13	.224	11189	11.4	12	-N		C	0818	2.27					
ATHN	12	0815	0829	0818	S07	W14	.240	11189	11.3	14	-F	1		0818	.83	1.65	.26			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
GRP37138	12	0818	0836	0822	N05	E72	.956	11196	17.7	18	-F								2 1 1 13
ATHN	12	0818	0836	0822	N05	E72	.956	11196	17.7	18	-F	1	0822	.17	.33	.95			
ARCE	12	0825	0904	0834	N09	E80	.989	11196	18.4	39	-N		C 0834	.53					
140 ARCE	12	0908	0925	0910	N07	E80	.988	11196	18.4	17	-N		C 0910	.40				15	
141 ATHN	12	1116	1124	1118	N13	E46	.766	11192	15.9	8	-F	1	1118	.17	.33	.78		10	
145 HTPR	13	1118	1135D	1128	N18	E28	.607	11192	15.6	17D	-F		C 1118	.31	.40			8	
GRP37148	13	1530	1550	1536	N21	E26	.616	11192	15.6	20	-F			.72				2 2 2 8	
MEUD	13	1530	1542	1532	N21	E28	.635	11192	15.7	12	-F		C 1532	.41	.50			E	
RAMY	13	1540E	1557	1540	N21	E24	.598	11192	15.5	17D	-F	2	C	1.03				D	
157 ATHN	14	0536	0546	0538	S01	E44	.698	11195	17.5	10	-N	1	0538	.17	.33	.64		5	
158 ATHN	14	0716E	0745	0722	N18	W12	.467	11190	13.4	29D	-F	1	0722	.50	.99	.46		4	
160 ATHN	14	0834E	0851	0836	S15	W05	.160	11191	14.0	17D	-F	1	0836	.33	.65	.19		7	
162 RAMY	14	1826	1858	1830	N08	E42	.701	11196	17.9	32	-F	2	C	.57				D 5	
163 RAMY	14	1826	1858	1848	N08	E42	.701	11196	17.9	32	-F	2	C	.88				4	
164 LOCK	14	2320	0020	2340	N09	E41	.694	11196	18.0	60	-F		C					S 5	
165 PALE	15	0302	0319	0305	N18	E07	.440	11192	15.7	17	-N	2	C	.19				H 5	
169 ATHN	15	1316E	1349D	1316	N20	E02	.458	11192	15.7	33D	-N	1	1316	.83	1.65	.47		7	
172 BOUL	15	2217U	2222D	2220	N18	W03	.428	11192	15.7	5D	-F	1	C 2220	.22	.24			6	
175 TEHR	16	0954	1004	0955	S13	W35	.572	11191	13.8	10	-F	3	C	.28				D 6	
176 RAMY	16	1132	1153	1136	N07	E18	.388	11196	17.8	21	-F	2	C	.41				D 6	
178 BOUL	16	1627E	1633	1628	N12	E52	.820	11204	20.6	6D	-F	1	V					5	
181 BOUL	16	2225	2234	2226	N08	E15	.363	11196	18.1	9	-F	2	V					4	
182 BOUL	16	2311	2353D	2317	N10	E15	.387	11196	18.1	42D	-F	2	V					4	
187 ATHN	17	0954E	1012D	0956	S07	W21	.356	11207	15.8	18D	-N	1	0956	.17	.33	.35		6	
189 RAMY	17	1437	1459		S10	E83	.990	11211	23.8	22	-F	2	C					D 8	
191 MCMA	17	1812	1823	1814	S05	W28	.468	11207	15.7	11	-N		C 1814	.52	.60			E 6	
194 MANI	18	0244	0256	0245	S07	W31	.511	11207	15.8	12	-N	2	0245	.31	.36			3	
198 ATHN	18	0608	0628	0611	S04	W59	.855	11191	13.8	20	-N	1	0611	.33	.65	.59		7	
199 CATA	18	0725	0745	0730	S06	W34	.556	11207	15.8	20	-N		C 0730	.46	.56		178	11	
201 ATHN	18	0820	0830D	0822	S04	W59	.855	11191	13.9	10D	-F	1	0822	.33	.65	.59		9	
202 ABST	18	0831	0845	0833	S06	W36	.585	11207	15.7	14	1F		C 0833	2.61	3.20			EJ 10	
203 CRON	18	0924	0935	0925	S07	W35	.570	11207	15.8	11	-F	1	C 0925	.22	.26			6	
204 CATA	18	1050	1055	1050	N05	W12	.293	11196	17.6	5	-N		C 1050	.29	.30		158	6	
205 CAPF	18	1052E	1100D		S15	W88	.998	11198	11.9	8D	1N		P 1053	.62				A 6	
206 CANR	18	1115	1115D		S21	E08	.274	11201	19.1		-N	3	V		.60			6	
207 ATHN	18	1155	1217	1157	N06	W06	.249	11196	18.0	22	-F	1	1157	.17	.33	.25		5	
208 ATHN	18	1312E	1332	1316	S05	W35	.572	11207	15.9	20D	-N	1	1316	.12	.25	.56		5	
209 ATHN	18	1344E	1357	1346	S15	W58	.842	11191	14.2	13D	-N	1	1346	.17	.33	.85		5	
210 ATHN	18	1416	1431	1418	S06	W37	.599	11207	15.8	15	-F	1	1418	.33	.65	.57		5	
211 ATHN	18	1437	1445	1441	S04	W38	.615	11207	15.8	8	-N	1	1441	.17	.33	.59		4	
213 ATHN	18	1552E	1559D	1554	S05	W39	.627	11207	15.7	7D	-F	1	1554	.33	.65	.13		5	
222 LOCK	18	2330	2350	2337	S18	E46	.720	11209	22.4	20	-F		C					6	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %		
224 LOCK	1971 MAR 19	0005	00120	0012	N17	W44	.763	11192	15.7	70	-F	C							8
226 MANI	19	0155	0212	0157	S09	W39	.625	11207	16.2	17	-N	2	0157	.41	.43				5
227 MANI	19	0233E	0245	0235	S10	W45	.702	11207	15.7	120	-N	2	0235	.31	.44				5
230 ATHN	19	0707	0714	0709	N07	W24	.466	11196	17.5	7	-F	1	0709	.17	.33	.44			5
231 CANR	19	0807	0814	0809	S05	W50	.763	11207	15.6	7	-N	3	V 0809		.50				6
232 ATHN	19	1010	1042	1015	N08	W22	.448	11196	17.8	32	-F	1	1015	.66	1.34	.45			8
235 BOUL	19	1943E	1949	1943E	N20	W55	.870	11192	15.7	60	-F	2	V						4
236 PALE	19	1947E	1948	1948	S06	W53	.795	11207	15.8	10	-N	2	C	.45				F	4
237 BOUL	19	1949E	1954	1951	S06	W50	.762	11207	16.1	50	-F	2	V						3
239 ATHN	20	0536E	0556	0538	S15	W88	.998	11191	13.6	200	-F	1	0538	.17	.33	1.00			4
GRP37242 RAMY ATHN	20 20 20	1322 1322 1323E	1330 1333 1327	1324 1324 1323	S14 S14 S14	E24 E23 E24	.416 .401 .416	11209 11209 11209	22.4 22.3 22.4	8 11 40	-F -F -F	 2 1	 C 1	  1323	.32 .31 .33	  .65	.42		2 2 2 7 D
243 ABST	20	1350	14070	1358	S16	E24	.425	11209	22.4	170	-F		P 1358	.90	1.00		50	DZ	8
GRP37244 HUAN ATHN	20 20 20	1425 1425 1426E	1434 1436 1432	1430 1430 1429	S15 S15 S14	E24 E23 E24	.420 .405 .416	11209 11209 11209	22.4 22.3 22.4	9 11 60	-F -F -N	2 2 1	C C 1	1430 1429	.11 .05 .17	.06 .33	.42		2 2 2 7 D
245 ATHN	20	1426E	1429	1427	S10	E50	.760	11211	24.4	30	-N	1	1427	.33	.65	.24			7
246 RAMY	20	1515	1532	1523	N17	E03	.410	11204	20.9	17	-F	2	C	.21				D	6
247 HUAN	20	1535E	1601	1548	S16	E22	.396	11209	22.3	260	-N	2	P 1548	.12	.13			D	5
252 MANI	21	0018E	0032	0020	S05	W75	.964	11207	15.4	140	-N	1	0020	.21	.48				4
254 MANI	21	0145	0206	0153	S04	W80	.984	11207	15.1	21	-F	2	0153	.21	.53				3
255 MANI	21	0222	0255	0233	S04	W80	.984	11207	15.1	33	-N	1	0233	.21	.53				3
256 TEHR	21	0258E	0319		S03	W78	.977	11207	15.3	210	-N	2	C					HD	5
258 MANI	21	0523	0628	0600	N32	E28	.735	11213	23.3	65	-F	2	0600	.19	.28				7
259 MANI	21	0558	0607	0558	S04	W80	.984	11207	15.2	9	-F	2	0558	.21	.53				7
260 TEHR	21	0633E	0650	0638	S03	W79	.981	11207	15.3	170	-N	2	C	.19				D	5
261 ATHN	21	0651E	0705	0657	S04	W80	.984	11207	15.3	140	-N	1	0657	.33	.65	.98			5
262 MANI	21	0720	0734	0723	S04	W80	.984	11207	15.3	14	-F	2	0723	.21	.53				8
GRP37263 CRON ATHN	21 21 21	0812 0812 0818E	0830 0830 08260	0818 0817 0818	S16 S16 S15	E13 E13 E12	.268 .268 .246	11209 11209 11209	22.3 22.3 22.2	18 18 80	-F -F -N	2 2 1	C C 1	0817 0818	.49 .32 .66	.32 .32 1.34	.27		2 2 2 9
264 MANI	21	0919	09260	0922	S04	W80	.984	11207	15.4	70	-F	1	0922	.21	.53				9
266 ATHN	21	1235	12500	1237	S14	E10	.209	11209	22.3	150	-F	1	1237	.17	.33	.21			5
267 CANR	21	1357	13590	1359	S17	E10	.241	11209	22.3	20	-F	1	V 1359		.40				7
269 ATHN	21	1457E	14570	1457	N20	W85	.999	11192	15.2		-N	1	1457	.17	.32	.99			5
270 RAMY	21	1654E	1705	1656	S09	E35	.569	11211	24.3	110	-F	1	C	.21				D	4
272 LOCK	21	1926	1937	1930	S04	W76	.969	11207	16.1	11	-F		C						4
276 ABST	22	0815	08160	0816	S16	W02	.160	11209	22.2	10	-F		P 0816	1.71	1.70		46	E	6
279 ATHN	23	0912	0918	0913	S14	W16	.296	11209	22.2	6	-F	1	0913	.17	.32	.32			8
280 ATHN	23	1025E	1033	1025	S13	E76	.965	11219	29.1	80	-F	1	1025	.17	.32	.97			8
281 CATA	23	1040	1045	1040	S12	E75	.961	11219	29.1	5	-N		C 1040	.14			180		8
282 ATHN	23	1102E	1115	1104	S13	E76	.965	11219	29.2	130	-F	1	1104	.17	.32	.97			5



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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS				
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$		MAX. INT. %			
					LAT.	MER. DIST.															
283	ATHN	23	1120	1149	1124	S14	E76	.965	11219	29.2	29	-F	1	1124	.17	.32	.97		7		
284	HTPR	23	1215	1315		S13	E75	.961	11219	29.1	60	-F	C	1240	.72			T	4		
GRP37285	ATHN	23	1523	1535	1525	S13	E72	.945	11219	29.0	12	-N			.28			2 2 2	9		
	CATA	23	1520E	1540	1524	S12	E72	.946	11219	29.0	20D	-N	1	1524	.33	.65	.95				
		23	1525	1530	1525	S13	E72	.945	11219	29.0	5	-N	C	1525	.23			178			
286	HTPR	23	1601E	1640	1609	S17	H19	.360	11209	22.2	39D	-F	C	1609	1.03	1.10			7		
289	ATHN	24	0758	0815	0800	S13	E62	.877	11219	29.0	17	-F	1	0800	.17	.32	.87		11		
290	ATHN	24	0854	0912	0857	S13	E64	.892	11219	29.2	18	-F	1	0857	.17	.32	.88		13		
291	ATHN	24	0940E	0942	0942	S15	W31	.522	11209	22.1	2D	-N	1	0942	.17	.32	.52		11		
292	CANR	24	0944	0950	0945	S15	W30	.508	11209	22.2	6	-F	3	V	0945		.20		11		
297	KODA	25	0446	0501	0451	S15	E85	.993	11221	31.6	15	-B	V	0446	2.00	2.00	2.76	CD	5		
302	TEHR	25	1204	1212	1206	S13	E47	.727	11219	29.0	8	-F	2	C		.13			D	9	
GRP37303	HTPR	25	1225	1345	1228	S18	E80	.980	11221	31.5	80	-F			.31			2 1 1	11		
	RAMY	25	1225	1345	1228	S18	E80	.980	11221	31.5	80	-F	C	1228	.31						
		25	1252	1309	1256	S18	E78	.972	11221	31.4	17	-N	3	C		.41			D		
305	MANI	25	2306	2311	2308	S11	E44	.690	11219	29.3	5	-N	2	2308	.83	1.13			5		
307	CANR	26	1112E	1125	1113	S21	E65	.901	11221	31.3	13D	-N	2	C	1113	.22				5	
309	CATA	27	0615E	0640D	0615	N01	W90	1.000	11203	20.5	25D	1F	P	0615	.58			127	T	3	
310	CATA	27	0741E	0755D	0741	N03	W90	1.000	11204	20.6	14D	-F	P	0741	.40			141	T	9	
311	CATA	27	0918E	0925D	0918	N03	W90	1.000	11204	20.6	7D	-F	P	0918	.34			118	T	7	
312	CANR	27	1010	1025	1015	S17	E56	.825	11221	31.6	15	-F	3	V	1015		.70			7	
313	CANR	27	1058	1110		S19	E52	.787	11221	31.4	12	-F	3	V			.40			7	
314	CATA	27	1120E	1145D	1120	N03	W90	1.000	11204	20.7	25D	-F	P	1120	.46			123	T	6	
315	HTPR	27	1152	1207	1155	N12	E53	.829	11224	31.5	15	-F	C	1155	.31	.50			E	6	
316	CATA	27	1330E	1345D	1330	N03	W90	1.000	11204	20.8	15D	-F	P	1330	.46			141	T	7	
317	HTPR	27	1410	1425	1416	N13	E50	.804	11224	31.3	15	-F	C	1416	.31	.50				7	
318	ATHN	27	1413	1431	1415	S18	E46	.721	11221	31.0	18	-F	1	1415	.33	.65	.71			7	
320	HTPR	27	1611	1625	1618	N12	E49	.790	11224	31.3	14	-F	C	1618	.31	.50				4	
321	BOUL	27	1637	1642	1639	N26	E41	.783	11223	30.8	5	-N	2	V						6	
322	LOCK	27	1718	1730	1722	N03	W81	.989	11214	21.6	12	-F	C							6	
324	RAMY	27	1847	1908	1855	N17	E88	1.000	11225	3.4	21	-F	1	C					D	4	
328	LOCK	27	2323	2350	2330	S16	E49	.752	11221	31.6	27	-F	C							4	
329	PALE	28	0021	0029	0023	S16	E48	.741	11221	31.6	8	-N	2	C		.45				4	
333	MANI	28	0254	0303	0256	S18	E47	.733	11221	31.6	9	-N	2		0255	.26	.30			3	
334	CATA	28	1050	1115D	1055	N24	W90	1.001	11214	21.7	25D	-F	P	1055	.46			145		6	
335	HTPR	28	1141	1144	1142	S20	E39	.644	11221	31.4	3	-F	C	1142	.41	.50			E	5	
338	CRON	29	0636E	0641		S19	E36	.603	11221	1.0	5D	-F	3	V		.70				8	
GRP37339	CRON	29	0711	0731	0715	S15	W07	.187	11219	28.8	20	-N			.32			2 2 2	8		
	MANI	29	0711	0723	0713	S14	W07	.174	11219	28.8	12	-N	2	C	0713	.22	.22				
		29	0714E	0739D	0717	S16	W06	.191	11219	28.9	25D	-N	2		0717	.41	.44				
340	CRON	29	0825	0835	0827	S20	E29	.517	11221	31.5	10	-F	2	C	0827	.22	.25				9
GRP37341	MANI	29	0901	0916	0904	S20	E23	.438	11221	31.1	15	-F			.42			2 2 2	10		
	HTPR	29	0900E	0911	0903	S19	E19	.378	11221	30.8	11D	-N	1	C	0903	.52	.59				
		29	0901	0920	0905	S20	E26	.477	11221	31.3	19	-F		C	0905	.31	.30				

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Mar 71

# SOLAR FLARES

## Unconfirmed

MARCH 1971

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR-TANCE	COND.	OBS. TYPE	MEASUREMENTS					REMARKS				
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION					CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$		MAX. INT. %			
	1971																					
	MAR																					
343	GRON	29	0952	10110	0957	S20	E29	.517	11221	31.6	19D	-N	1	C	0957	.22	.25				9	
346	CANR	29	1232	1232D		N18	E57	.878	11225	2.8		-F	1	V			.60				5	
351	LOCK	29	1723	1732	1727	S15	W08	.198	11219	29.1	9	-F		C							4	
352	LOCK	29	1922	1940	1927	S20	E20	.399	11221	31.3	18	-F		C							4	
354	PALE	29	2058	2107	2101	S17	E20	.376	11221	31.4	9	-F	2	C		.81				F	4	
357	PALE	29	2222	2232	2225	N13	E49	.793	11225	2.6	10	-F	2	C		.36				F	5	
360	LOCK	30	0030	0050	0035	S19	E22	.418	11221	31.7	20	-F		C						S	4	
363	TEHR	30	0420	0424	0423	S19	E14	.315	11221	31.2	4	-F	4	C		.09				D	6	
364	MANI	30	0427E	0442	0428	S20	E17	.362	11221	31.5	15D	-N	1		0428	.41	.44				6	
365	ABST	30	0548E	0600	0552	S17	W15	.308	11219	29.1	12D	-F		P	0552	1.08	1.10		44	EJ	9	
GRP37368	ATHN	30	0752	0812	0805	S20	E12	.304	11221	31.2	20	-F				.27					2	
	MANI	30	0750E	0808D	0804	S19	E12	.292	11221	31.2	18D	-F	1		0804	.33	.65	.26			2	
	MANI	30	0753	0812D	0806	S21	E12	.317	11221	31.2	19D	-F	2		0806	.21	.22				10	
369	ATHN	30	0804E	0808D	0804	N13	E42	.721	11225	2.5	4D	-F	1		0804	.17	.33	.72			8	
GRP37372	ABST	30	0938	0944	0941	S20	E11	.294	11221	31.2	6	-F				.43					2	
	HTPR	30	0936	0945D	0940	S20	E12	.304	11221	31.3	9D	-F		P	0941	.54	.60		48	DJ	11	
	HTPR	30	0940	0943	0941	S20	E10	.284	11221	31.2	3	-N		C	0941	.31	.30			D		
GRP37373	HTPR	30	1000	1021	1004	S16	W16	.313	11219	29.2	21	-F				.88					2	
	MONT	30	0958	1024	1003	S15	W16	.305	11219	29.2	26	-F		C	1003	1.03	1.10			E	10	
	MONT	30	1001	1018	1005	S16	W16	.313	11219	29.2	17	-N		C	1005	.72						
GRP37378	LOCK	30	1555	1610	1600	S19	E09	.261	11221	31.3	15	-F				.41					2	
	RAMY	30	1553	1610	1600	S19	E07	.244	11221	31.2	17	-F		C							1	
	LOCK	30	1556	1609	1559	S20	E08	.266	11221	31.3	13	-N	3	C		.41					8	
	LOCK	30	1606	1615	1610	S16	E12	.259	11221	31.6	9	-F		C						D		
379	RAMY	30	1628	1638	1630	N13	E38	.676	11225	2.5	10	-F	1	C		.31					8	
380	RAMY	30	1635	1650	1637	S19	E06	.236	11221	31.1	15	-F	1	C		.36					6	
383	MANI	31	0135	0140	0137	S20	E02	.234	11221	31.2	5	-N	2		0137	.93	.96				3	
GRP37384	ATHN	31	0824	0831	0825	S20	W02	.234	11221	31.2	7	-F				.20					2	
	CATA	31	0822E	0831D	0824	S19	W02	.217	11221	31.2	9D	-F	1		0824	.17	.32	.22			2	
	CATA	31	0825	0830	0825	S20	W01	.232	11221	31.3	5	-N		C	0825	.23	.24		166		16	
387	BOUL	31	1352	1405	1353	S19	E00	.215	11221	31.6	13	-F	2	V							9	
388	BOUL	31	1407	1415	1410	S18	W01	.198	11221	31.5	8	-N	2	V							8	
390	CAPF	31	1535E	1620D		N16	E88	1.000	11228	7.2	45D	1N		P	1539	.62				A	10	
1 STATIONS REPORTING GROUP 37391.					4 STATIONS OBSERVING AND NOT REPORTING.																	
391	MCMA	31	1616	1826	1632	N18	E20	.523	11225	2.2	130	-F		C	1632	.52	.60				EK	5
391	MCMA	31	1616	1826	1654	N18	E20	.523	11225	2.2	130	*-F										5
393	PALE	31	1804	1823	1806	N10	E56	.850	11227	5.0	19	-F	3	C		.36					F	6
397	PALE	31	2247	2259	2248	S20	W10	.285	11221	31.2	12	-N	3	C		.55					F	4

"Remarks":

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|--|---|
| <p>A = Eruptive prominence, base at &gt;90°<br/>         B = Probably the end of a more important flare.<br/>         C = Invisible 10 minutes before.<br/>         D = Brilliant point.<br/>         E = Two or more brilliant points.<br/>         F = Several eruptive centers.<br/>         G = No spots visible in the neighborhood.<br/>         H = Flare with high velocity dark surge.<br/>         I = Very extensive active region.<br/>         J = Flare with flare shows marked intensity variations.<br/>         K = Several intensity maxima.<br/>         L = Filaments show effects of sudden activation.<br/>         M = White-light flare.</p> | <p>N = Continuous spectrum shows effects of polarization.<br/>         O = Observations have been made in the calcium II lines H or K.<br/>         P = Flare shows helium D<sub>2</sub> in emission.<br/>         Q = Flare shows the Balmer continuum in emission.<br/>         R = Marked asymmetry in H<math>\alpha</math> line.<br/>         S = Brightening follows disappearance of filament (same position).<br/>         T = Region active all day.<br/>         U = Close and somewhat parallel bright filaments (    or Y shape).<br/>         V = Occurrence of an explosive phase.<br/>         W = Great increase in area after time of maximum intensity.<br/>         X = Unusually wide H<math>\alpha</math> emission.<br/>         Y = Onset of a system of loop-type prominences.<br/>         Z = Major sunspot umbra covered by flare.</p> |
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