

SOLAR FLARES

Confirmed

MARCH 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.	CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.													MER. DIST.
1970 MAR																		
GRP28377	01	0034	0048	0037	N13	W27	.553	10595	27.0	14	1N			1.96				3 3 3 3
CULG	01	0034	0058	0037	N14	W27	.562	10595	27.0	24	1N	C	0037	2.37	2.85			UT
CRON	01	0034	0041	0037	N12	W26	.533	10595	27.1	7	-F	C	0037	1.40	1.70			I
VORO	01	0035	0044	0037	N12	W28	.557	10595	26.9	9	1B	C	0037	2.12	2.55		95	EJ
GRP28379	01	0205	0226	0209	S21	W79	.975	10584	23.2	21	1N			1.50				3 3 2 4
CULG	01	0201	0315	0210	S20	W80	.979	10584	23.1	74	2B	C	0210	1.86				FRS
CRON	01	0205	0222	0208	S21	W80	.979	10584	23.1	17	1F	C	0208		2.30			H
MITK	01	0208	0229	0210	S21	W78	.971	10584	23.2	21	1N	C	0210	1.13				EH
GRP28381	01	0250	0311	0252	N15	W31	.615	10595	26.8	21	1N			1.77				4 4 4 5
CULG	01	0248	0305	0253	N16	W31	.622	10595	26.8	17	1N	C	0253	2.37	2.94			T
CRON	01	0250	0307	0252	N15	W30	.604	10595	26.9	17	-N	C	0252	1.00	1.30			I
MITK	01	0251	0322	0252	N15	W30	.604	10595	26.9	31	1N	C	0252	1.75	2.20			
VORO	01	0251	0304	0251	N14	W32	.618	10595	26.7	130	1B	C	0251	1.94	2.39		96	E
28381	01	0305	0329	0313	N15	W29	.592	10595	27.0	24	*-F			2.17				2 2 2 5
MANI	01	0302E	0304D		N15	W30	.604	10595	26.9	20	-F	2	0303	1.65	2.06			
CULG	01	0308	0329	0313	N15	W28	.581	10595	27.0	21	1N	C	0313	2.68	3.05			T
GRP28382	01	0420	0447	0427	N06	E52	.804	10607	5.1	27	1B			1.82				3 3 3 5
MANI	01	0343E	0422D		N05	E55	.831	10607	5.3	39D	1N	3	0343	1.86	3.10			
CULG	01	0419	0452	0427	N07	E51	.797	10607	5.0	33	1B	C	0427	2.78	4.55			RT
MITK	01	0420	0442	0427	N06	E52	.804	10607	5.1	22	-B	C	0427	.83	1.40			E
MANI	01	0422E	0422D		N04	E52	.800	10607	5.1		-N	2	0422	.31	.54			
GRP28383	01	0433	0500	0436	N15	W30	.604	10595	26.9	27	1B			3.56				2 2 2 5
CULG	01	0432	0502	0436	N14	W29	.584	10595	27.0	30	2B	C	0436	4.33	5.25			LT
MITK	01	0434	0458	0435	N15	W30	.604	10595	26.9	24	1B	C	0435	2.78	3.50			EH
GRP28385	01	0500	0516	0503	N06	E52	.804	10607	5.1	16	-B			1.56				3 3 3 5
KODA	01	0425E	0518	0505	N08	E54	.829	10607	5.2	53D	1N		0430	2.81	2.80	2.12		CEJK
MITK	01	0500	0516	0503	N05	E51	.792	10607	5.0	16	-B	C	0503	.83	1.40			DH
TACH	01	0500	0515	0502	N04	E52	.800	10607	5.1	15	-B	C	0502	1.03	1.66		152	EVZ
GRP28388	01	0906	0912	0909	N14	W32	.618	10595	27.0	6	--N			.83				2 2 2 4
MONT	01	0905	0913	0908	N14	W31	.607	10595	27.1	8	-N	C	0908	1.13				
ZURI	01	0906	0911	0909	N13	W32	.611	10595	27.0	5	-N	C	0909	.53	.60			
GRP28389	01	0936	0951	0939	N05	E48	.760	10607	5.0	15	1B			4.67				5 4 4 5
CATA	01	0935E	1005D	0938	N06	E48	.762	10607	5.0	30D	2B		0938	4.34	6.91		426	
ZURI	01	0936	0947	0939	N05	E47	.749	10607	4.9	11	1B	C	0939	2.73	4.20			
CAPE	01	0936	0945D	0941	N05	E48	.760	10607	5.0	9D	1B	P	0941	2.34	3.50			V
MONT	01	0936	0945	0939	N05	E49	.771	10607	5.1	9	2B	C	0939	9.28				H
KODA	01	0949E	0955	0953	N08	E51	.799	10607	5.2	6D	1B	P	0952	4.82	4.80	1.64		EJ
GRP28390	01	1101	1134	1115	N07	E50	.786	10607	5.2	33	1N			2.54				4 4 4 4
HTPR	01	1058E	1136	1112	N07	E50	.786	10607	5.2	38D	1B	C	1112	1.75	2.70			E
KODA	01	1100	1125	1118	N08	E50	.789	10607	5.2	25	1N	C	1111	4.19	4.20	2.04		CE
CAPE	01	1105	1135	1118	N07	E49	.776	10607	5.1	30	1N	C	1118	1.68	2.60			
ZURI	01	1108E	1138	1111	N06	E49	.773	10607	5.1	30D	1N	P	1111	2.52	4.00			
6 STATIONS REPORTING GROUP 28391.														0 STATIONS OBSERVING AND NOT REPORTING.				
GRP28391	01	1143	1315	1201	N14	W33	.630	10595	27.0	92	2N			1.22				3 3 2 6
ONDR	01	1140E	1202D		N18	W37	.699	10595	26.7	22D	4N	V	1150			2.10		I
CAPF	01	1145E	1315D		N13	W31	.600	10595	27.2	90D	1N	C	1157	1.86	2.34			DE
RAMY	01	1201	1201D	1201U	N12	W32	.604	10595	27.1		-N	C		.57				
28391	01	1127	1201	1130	N13	W31	.600	10595	27.2	34	*2B			4.33				3 3 3 4
HTPR	01	1126	1200	1128	N13	W30	.588	10595	27.2	34	2B	C	1128	5.16	6.00			
CAPE	01	1127	1205	1131	N13	W32	.611	10595	27.1	38	1B	C	1131	2.78	3.50			HV
ZURI	01	1128	1157	1130	N12	W31	.592	10595	27.2	29	2B	C	1130	9.04	6.20			
GRP28392	01	1155	1212	1207	N06	E50	.784	10607	5.2	17	-N			1.78				2 2 2 4
CAPF	01	1145E	1205D		N06	E50	.784	10607	5.2	20D	-N	C	1157	1.24	1.92			
ZURI	01	1205	1212D	1207	N06	E49	.773	10607	5.2	7D	1N	P	1207	2.31	3.60			
28392	01	1219	1310	1222	N07	E50	.786	10607	5.3	51	*1N			1.58				3 3 3 4
HTPR	01	1158	1309	1225	N08	E51	.799	10607	5.3	71	-N	C	1225	.52	.80			
RAMY	01	1218E	1311	1220	N07	E49	.776	10607	5.2	53D	1B	C		1.91				DE
ZURI	01	1220	1229D	1221	N06	E49	.773	10607	5.2	9D	1N	P	1221	2.31	3.60			
GRP28394	01	1358	1419	1406	N23	W57	.894	10592	25.3	21	-N			1.07				6 6 6 6
HTPR	01	1353	1413	1401	N23	W59	.907	10592	25.2	20	-N	C	1401	1.03	2.00			
LOCA	01	1400E	1425	1405	N20	W55	.871	10592	25.5	25D	1N	V	1405	1.26	2.40			
ZURI	01	1400	1412	1403	N23	W55	.880	10592	25.5	12	1B	C	1403	1.80	4.00			
CAPE	01	1400	1416	1403	N23	W57	.894	10592	25.3	16	1N	C	1403	1.28	2.90			V
CATA	01	1410E	1420D	1410	N24	W56	.890	10592	25.4	10D	-B		1410	.23	.53		288	
RAMY	01	1410E	1425	1411U	N22	W58	.898	10592	25.2	15D	-N	C		.83				F

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
1970 MAR																			
GRP28395	01	1526	1537	1532	N05	E46	.737	10607	5.1	11	1B								
RAMY	01	1511	1525	1513	N05	E43	.702	10607	4.9	14	-N	C		2.72				3 2 2 3	
ZURI	01	1522	1536	1533	N05	E47	.749	10607	5.2	14	2N	C	1533	4.20	6.00			DEH	
HTPR	01	1529	1537	1530	N05	E45	.726	10607	5.0	8	-B	C	1530	1.24	1.70				
GRP28396	01	1603	1616	1607	N06	E43	.706	10607	4.9	13	-N			.88				2 2 2 2	
RAMY	01	1602E	1604D	1603U	N06	E43	.706	10607	4.9	2D	-B	C		1.44				DE	
HTPR	01	1603	1616	1610	N06	E43	.706	10607	4.9	13	-F	C	1610	.31	.40				
	01	1645	1712		NO FLARE PATROL														
397 RAMY	01	1712E	1724	1713	N04	E43	.699	10607	4.9	12D	--N	C		.36				DE	1
398 RAMY	01	1730	1740	1735	N15	W36	.670	10595	27.0	10	--F	C		.67				DE	1
	01	1740	1752		NO FLARE PATROL														
399 RAMY	01	1751	1808D	1755U	N05	W41	.678	10595	26.7	17D	--N	C		.36				DE	1
	01	1808	1839		NO FLARE PATROL														
400 SANM	01	1844E	1857		N07	E43	.709	10607	5.0	13D	-N	2 P	1848	.97	1.35			E	1
	01	1925	2010		NO FLARE PATROL														
401 BOUL	01	1930	1949		N13	W37	.668	10595	27.0	19	-N	S							1
GRP28402	01	1955	2129	2004	N16	W38	.697	10595	27.0	94	2B			4.74				2 2 1 2	
BOUL	01	1955	2012D	2004	N15	W38	.691	10595	27.0	17D	2B	S							
CULG	01	2010E	2129		N16	W37	.687	10595	27.1	79D	2B	P	2010	4.74	6.44			HRBT	
403 CULG	01	2018	2121	2040	S02	W51	.778	10588	26.0	63	1N	C	2040	1.65	2.56			L	1
404 CULG	01	2023	2136	2033	N07	E43	.709	10607	5.1	73	2B	C	2033	4.43	6.02			HRT	1
GRP28405	01	2335	0000	2343	N07	E39	.662	10607	4.9	25	-B			1.88				2 2 2 3	
VORO	01	2335	2356	2343	N08	E38	.654	10607	4.8	21	1B	C	2343	2.31	3.06		99	E	
MANI	01	2344E	0004		N05	E40	.666	10607	5.0	20D	-B	2	2345	1.44	1.95				
GRP28406	02	0012	0037	0018	N06	E39	.657	10607	4.9	25	1B			2.75				3 3 3 3	
MANI	02	0012	0038	0016	N05	E40	.666	10607	5.0	26	1B	2	0016	3.09	4.23				
CULG	02	0012	0038	0021	N06	E39	.657	10607	4.9	26	1B	C	0021	3.30	4.32			RT	
VORO	02	0013	0034	0018	N08	E38	.654	10607	4.9	21	1B	C	0018	1.85	2.38		114	EJ	
GRP28408	02	0046	0105	0049	N06	E39	.657	10607	5.0	19	-B			1.17				2 2 2 3	
MANI	02	0045	0105	0048	N05	E40	.666	10607	5.0	20	-B	3	0048	1.13	1.50				
VORO	02	0047	0056	0049	N07	E37	.637	10607	4.8	9	-B	C	0049	1.20	1.53		123	D	
VORO	02	0101	0105	0102	N06	E39	.657	10607	5.0	4	-B	C	0102	.84	1.07		77	D	
GRP28409	02	0210	0217	0212	N05	E39	.653	10607	5.0	7	-B			1.03				2 2 2 5	
VORO	02	0210	0217	0212	N06	E38	.645	10607	4.9	7	-B	C	0212	.93	1.19		85	E	
MANI	02	0210	0215D	0211	N03	E39	.646	10607	5.0	5D	-N	2	0211	1.13	1.49				
GRP28413	02	0435	0446	0440	N03	E37	.620	10607	5.0	11	-B			1.05				3 3 3 5	
MITK	02	0435	0445	0439	N04	E37	.624	10607	5.0	10	-N	C	0439	.83	1.10			D	
CRON	02	0435	0447	0440	N03	E36	.607	10607	4.9	12	-B	C	0440	1.20	1.50				
MANI	02	0440E	0446		N03	E38	.633	10607	5.0	6D	-B	3	0441	1.13	1.49				
GRP28414	02	0443	0550	0449	N21	W67	.949	10592	25.2	67	--F			.62				3 2 2 6	
MANI	02	0441	0550	0450	N21	W67	.949	10592	25.2	69	-N	3	0450	.62	1.33				
MITK	02	0445	0528D	0448	N20	W66	.942	10592	25.2	43D	-F	C	0448	.62				D	
TACH	02	0501E	0540		N23	W72	.972	10592	24.8	39D	1F	V	0502	1.64		2.75	54	D	
GRP28416	02	0523	0540	0532	S21	W90	.999	10584	23.5	17	-F			.93				2 2 2 6	
MANI	02	0523	0540	0532	S20	W89	.998	10584	23.5	17	-N	2	0532	.72	2.06				
MITK	02	0525E	0533D		S22	W90	.999	10584	23.5	8D	1F	C	0532	1.13				G	
GRP28419	02	0729	0747	0737	N05	E35	.602	10607	4.9	18	-N			1.22				6 6 6 7	
KODA	02	0727	0746	0741	N07	E35	.612	10607	4.9	19	-N	P	0744	1.63	1.60	1.56		CE	
CRON	02	0729	0748	0734	N05	E36	.615	10607	5.0	19	-N	C	0734	.90	1.10				
CATA	02	0730	0748	0738	N04	E35	.597	10607	4.9	18	-B			0738	1.04	1.31		339	TZ
MANI	02	0730	0750	0736	N04	E35	.597	10607	4.9	20	-B	3	0736	.93	1.16				
CAPE	02	0731	0745	0737	N05	E34	.589	10607	4.9	14	-N	C	0737	1.02	1.30			T	
TACH	02	0736E	0743		N04	E36	.611	10607	5.0	7D	1F	V	0742	1.82	2.29	2.52	57	DZ	

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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 PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hd	
1970 MAR																	
GRP28422	02	0935	1006	0949	N06	E34	.594	10607	4.9	31	1N					5 5 5 7	
HTPR	02	0934	1003	0947	N06	E35	.607	10607	5.0	29	1F	C	0947	2.50			
CAPE	02	0934	1005	0946	N06	E33	.580	10607	4.9	31	1N	C	0946	1.86	2.10		
KODA	02	0935	1009	0953	N07	E34	.599	10607	4.9	34	1B	C	0949	1.68	2.10	2.04	CFK
CATA	02	0935	1005	0948	N05	E35	.602	10607	5.0	30	1B		0948	4.03	4.00		TZ
CAPF	02	0940E	1007		N06	E35	.607	10607	5.0	27D	1N	C	0948	1.86	2.32		
													0948	3.09	3.90		
GRP28423	02	0954	1010	0957	S08	E40	.638	10608	5.4	16	-N			.95			
HTPR	02	0953	1009	0955	S08	E40	.638	10608	5.4	16	-N	C	0955	1.03	1.30		2 2 2 7
CATA	02	0955	1010	0958	S08	E40	.638	10608	5.4	15	-N		0958	.87	1.14		186
GRP28424	02	1032	1044	1035	N04	E33	.571	10607	4.9	12	1B			3.01			
CATA	02	1030	1045	1035	N03	E33	.566	10607	4.9	15	2B		1035	2.32	2.83		4 4 4 7
CAPE	02	1032	1039	1035	N04	E32	.557	10607	4.8	7	-N	C	1035	1.46	1.80		HTZ
HTPR	02	1033	1039	1035	N03	E32	.552	10607	4.8	6	1B	C	1035	2.06	2.40		H
CAPF	02	1035E	1053		N06	E35	.607	10607	5.1	18D	2N	C	1037	6.19	7.80		H
GRP28427	02	1102	1139	1108	N07	E32	.573	10607	4.9	37	-B			1.78			
SANM	02	1102	1127	1103	N08	E32	.579	10607	4.9	25	1N	2 C		1.94	2.34		2 2 2 6
CATA	02	1105E	1150	1113	N05	E32	.562	10607	4.9	45D	-B		1113	1.62	1.98		EH HTZ
GRP28428	02	1127	1141	1130	N16	W47	.788	10595	27.0	14	1N			1.81			
SANM	02	1126	1151	1130	N17	W47	.792	10595	27.0	25	2N	2 C		3.24	5.26		3 3 3 8
UCCL	02	1126	1136D	1129	N19	W48	.810	10595	26.9	10D	1N	P	1129	1.03			E
CATA	02	1130	1135	1130	N13	W47	.776	10595	27.0	5	-B		1130	1.16	1.88		219
GRP28430	02	1213	1220	1216	S09	E66	.908	10614	7.5	7	-N			.71			
SANM	02	1212	1221	1215	S08	E66	.909	10614	7.5	9	-N	2 C		.65			4 4 4 8
RAMY	02	1213E	1220D	1217	S10	E66	.908	10614	7.5	7D	-N	C		.52			D DE D
UCCL	02	1213	1218	1216	S09	E63	.886	10614	7.2	5	1N	C	1216	1.03			
HTPR	02	1214	1219	1215	S10	E67	.915	10614	7.5	5	-F	C	1215	.62			
GRP28433	02	1317	1337	1320	N06	E32	.567	10607	5.0	20	-B			1.36			
SANM	02	1314	1329	1320	N08	E31	.566	10607	4.9	15	-N	2 C		1.62	1.93		2 2 2 5
CATA	02	1320	1345D	1320	N04	E33	.571	10607	5.0	25D	-B		1320	1.09	1.33		EKT TZ
8 STATIONS REPORTING GROUP 28434. 1 STATIONS OBSERVING AND NOT REPORTING.																	
GRP28434	02	1420	1516	1429	N06	E33	.580	10607	5.1	56	1N			2.90			
RAMY	02	1341E	1516	1430	N08	E35	.617	10607	5.2	95D	1E	C		3.04			5 5 5 7
HERS	02	1354E	1440D	1427	N07	E37	.637	10607	5.4	46D	1N	P	1424	2.68	3.60		EKL
CAPF	02	1415E	1500D		N06	E33	.580	10607	5.1	45D	2N	C	1419	7.43	9.36		
CATA	02	1420	1450D	1430	N04	E33	.571	10607	5.1	30D	-B		1430	1.04	1.27		316
SANM	02	1426	1450D	1429	N06	E28	.514	10607	4.7	24D	-N	2 P		.32	.37		DH
28434	02	1339	1411	1350	N08	E36	.629	10607	5.3	32	*1N			2.77			3 3 2 7
SANM	02	1339	1410	1345	N09	E38	.659	10607	5.4	31	-F	2 C		.48	.65		E
RAMY	02	1341E	1516	1354	N08	E35	.617	10607	5.2	95D	2B	C		5.05			F
NERA	02	1350E	1411D		N08	E35	.617	10607	5.2	21D	2B	2					
28434	02	1328	1453	1405	N05	E35	.602	10607	5.2	85	*1N			2.72			3 3 3 7
UCCL	02	1320E	1458D	1410	N05	E33	.575	10607	5.0	98D	2N	P	1410	4.13	7.20		FHIJLZ
CAPE	02	1335	1450	1405	N06	E36	.619	10607	5.3	75	-N	C	1405	1.41	1.80		
CATA	02	1350E	1450D	1400	N05	E35	.602	10607	5.2	60D	1B		1400	2.61	3.27		339
GRP28435	02	1412	1423	1417	S10	E65	.901	10614	7.5	11	--F			.24			
SANM	02	1412	1421	1416	S10	E65	.901	10614	7.5	9	-F	2 C		.17	.36		2 2 2 6
RAMY	02	1412	1424	1417	S10	E65	.901	10614	7.5	12	-F	C		.31			D DE
GRP28436	02	1500	1511	1505	N05	E31	.549	10607	5.0	11	-N			1.14			
CAPE	02	1455	1512	1505	N06	E31	.554	10607	4.9	17	-F	C	1505	1.24	1.50		2 2 2 5
CATA	02	1505	1510	1505	N04	E31	.543	10607	5.0	5	-B		1505	1.04	1.26		394
GRP28440	02	1712	1745	1719	N06	E29	.527	10607	4.9	33	-B			1.60			
SANM	02	1710	1745	1718	N06	E28	.514	10607	4.8	35	1B	2 C		2.27	2.62		3 3 2 4
RAMY	02	1714	1745	1717	N07	E29	.533	10607	4.9	31	-N	C		.93			E FH
BOUL	02	1723E	1746	1723	N06	E30	.541	10607	5.0	23D	-B	S	1723		1.50		
BOUL	02	1725E	1741	1726U	N07	E30	.547	10607	5.0	16D	-N	C		.80	1.00		
GRP28448	02	2045	2124	2051	N07	E29	.533	10607	5.0	39	1N			2.31			
SANM	02	2043	2057D	2048	N07	E28	.520	10607	5.0	14D	1N	2 P		1.94	2.28		3 3 2 3
CULG	02	2045	2128	2058	N07	E30	.547	10607	5.1	43	1B	C	2058	2.68	2.99		E T
BOUL	02	2046	2101	2048	N07	E30	.547	10607	5.1	15	-N	V	2048		1.00		
BOUL	02	2112	2120	2115	N07	E30	.547	10607	5.1	8	-N	V					
BOUL	02	2127	2145	2138	N07	E28	.520	10607	5.0	18	-N	V					
GRP28449	02	2158	2236	2212	N07	E30	.547	10607	5.2	38	-B			2.17			
BOUL	02	2158	2226	2214	N07	E30	.547	10607	5.2	28	-N	V					2 2 1 2
CULG	02	2158	2245	2210	N06	E29	.527	10607	5.1	47	1B	C	2210	2.17	2.41		T

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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	MC MATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
1970 MAR																		
GRP28485	03	2307	0014	2314	N13	W64	.919	10595	27.2	67	1N							
MANI	03	2305	2359	2314	N14	W64	.920	10595	27.2	54	-N	2	2314	.72	1.50			4 3 3 5
CULG	03	2307	0029	2317	N14	W64	.920	10595	27.2	82	1N		C 2317	1.24				
VORO	03	2310	2319	2312	N11	W65	.922	10595	27.1	9	1N		C 2312	1.29	3.20		80	EJ
BOUL	03	2317E	2326D	2325	N13	W63	.912	10595	27.2	9D	-N		S					
GRP28486	04	0052	0141	0105	N13	W65	.925	10595	27.2	49	1B			1.37				3 3 3 4
CULG	04	0049	0155	0104	N14	W65	.926	10595	27.2	66	1B		C 0104	1.44				
MANI	04	0050	0143	0105	N15	W64	.922	10595	27.2	53	1B	3	C 0105	1.55	3.30			
VORO	04	0056	0125	0105	N10	W66	.927	10595	27.1	29	1B		C 0105	1.11	2.93		94	EJ
GRP28492	04	0542	0625	0610	N16	W71	.961	10595	26.9	43	1F			1.67				2 2 2 5
TACH	04	0542	0620	0610	N15	W72	.965	10595	26.8	38	2F		C 0610	2.00			84	E
CULG	04	0607	0630	0610	N16	W70	.957	10595	27.0	23	1N		C 0610	1.34				
GRP28498	04	0849	0914	0858	N06	E12	.307	10607	5.3	25	-N			1.76				3 3 2 5
ISTA	04	0705	0855		N06	E17	.367	10607	5.6	110	-B							
ABST	04	0847	0935	0859	N07	E09	.290	10607	5.0	48	1N		C 0859	2.69	2.80			E
HTRP	04	0851	0911D	0857	N05	E11	.283	10607	5.2	20D	-F		C 0857	.83	.80			
4 STATIONS REPORTING GROUP 28499.					1 STATIONS OBSERVING AND NOT REPORTING.													
GRP28499	04	1152	1204	1157	N05	E06	.236	10607	4.9	12	-N			2.00				4 4 4 5
MONT	04	1148E	1202D	1156	N06	E09	.276	10607	5.2	14D	1N		C 1156	3.40				
HTRP	04	1151	1200	1156	N05	E05	.229	10607	4.9	9	-N		C 1156	1.96	1.90			
RAMY	04	1154	1206	1157	N04	E05	.213	10607	4.9	12	-N		C	.83				DE
ABST	04	1154	1208	1159	N04	E06	.220	10607	4.9	14	-N		C 1159	1.79	1.80			DH
28499	04	1013	1215	1150	N06	E15	.342	10607	5.6	122	*-F			.93				2 1 1 5
HTRP	04	1013	1215	1150	N06	E15	.342	10607	5.6	122	-F		C 1150	.93	1.00			
ABST	04	1038E	1228D	1134	N08	E14	.353	10607	5.5	110D	-F		P 1134	1.07	1.20			D
GRP28501	04	1612	1617	1614	N03	E03	.185	10607	4.9	5	-N			.98				3 3 2 3
RAMY	04	1612	1617	1614	N02	E02	.164	10607	4.8	5	-N		C	.93				DE
BOUL	04	1612	1618	1614	N04	E04	.207	10607	5.0	6	-N		S 1614		1.00			
HTRP	04	1613	1617	1614	N03	E03	.185	10607	4.9	4	-N		C 1614	1.03	1.00			
GRP28502	04	1647	1657	1650	S13	E58	.841	10618	9.0	10	--F			.41				2 2 1 2
RAMY	04	1645	1648D	1648	S13	E58	.841	10618	9.0	3D	-F		C	.41				DE
BOUL	04	1648	1657	1651	S13	E58	.841	10618	9.1	9	-N		V					
04 1649 1710 NO FLARE PATROL																		
GRP28503	04	1656	1733	1711	N15	W79	.989	10595	26.8	37	1B							2 2 0 2
BOUL	04	1656	1729	1708	N15	W77	.983	10595	26.9	33	1B		V 1708		4.50			
RAMY	04	1710E	1736	1713	N14	W80	.991	10595	26.7	26D	1B		C					DE
GRP28504	04	1740	1746	1741	N16	W78	.987	10595	26.9	6	-N							2 2 0 2
RAMY	04	1740	1746	1741	N15	W80	.991	10595	26.7	6	-N		C					
BOUL	04	1741E	1745	1741	N16	W75	.977	10595	27.1	4D	-N		S					
505 BOUL	04	1750	1804	1751	S15	E80	.980	10618	10.7	14	--F		S 1751		2.00			2
GRP28506	04	1822	1851	1827	N14	W80	.991	10595	26.8	29	-B							2 2 0 2
RAMY	04	1822	1852	1825	N15	W80	.991	10595	26.8	30	-B		C					DE
BOUL	04	1825E	1859D	1828	N14	W80	.991	10595	26.8	34D	1B		S 1828		3.50			
BOUL	04	1825E	1850	1826U	N12	W78	.984	10595	26.9	25D	1N		C	.90	2.70			
508 RAMY	04	2120	2134	2125	N06	E03	.235	10607	5.1	14	--F		C	.52				DE 2
04 2135 2150 NO FLARE PATROL																		
GRP28509	04	2251	2312	2254	N05	E03	.218	10607	5.2	21	-N			1.03				2 2 1 4
BOUL	04	2251	2313	2254	N04	E03	.202	10607	5.2	22	-N		V 2254		1.30			
MANI	04	2252E	2311		N06	E02	.232	10607	5.1	19D	-N	1	2254	1.03	1.10			
5 STATIONS REPORTING GROUP 28511.					0 STATIONS OBSERVING AND NOT REPORTING.													
GRP28511	05	0407	0606	0444	S15	E74	.955	10618	10.7	119	1B			2.96				2 2 2 5
CULG	05	0407	0550	0441	S14	E75	.960	10618	10.8	103	1B			2.17				
KODA	05	0412E	0621	0446	S15	E73	.950	10618	10.6	129D	1B		C 0441	3.75	3.80	2.84		EK
28511	05	0411	0425	0420	S15	E77	.969	10618	10.9	14	*1N			1.22				2 2 2 5
CULG	05	0407	0550	0420	S14	E75	.960	10618	10.8	103	1N		C 0420	1.24				KR
CRON	05	0415	0425	0419	S15	E78	.973	10618	11.0	10	1N		C 0419	1.20	3.60			E
28511	05	0442	0514	(0457)	S14	E71	.939	10618	10.5	32	*1N			1.13				2 2 1 6
MANI	05	0421E	0527D		S15	E71	.939	10618	10.5	66D	1B	2	0457	1.13	2.40			
SIBE	05	0442	0501		S13	E70	.933	10618	10.4	19	1F		V					E

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE 1970 MAR	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %			
GRP28512	05	0426	0522	0436	N15	W88	1.000	10595	26.6	56	1N			.70				4 2 2 5	
CRON	05	0412	0428	0416	N14	W90	1.000	10595	26.4	16	-N	C	0416	.30	1.20				
MANI	05	0421E	0521D	0436	N15	W86	.999	10595	26.7	60D	1N 2		0436	.77	2.30				
CULG	05	0430	0522	0436	N16	W87	1.000	10595	26.7	52	1N	C	0436	.62				A	
SIBE	05	0447	0458		N15	W90	1.001	10595	26.4	11	-F	V						H	
4 STATIONS REPORTING GROUP 28516.										1 STATIONS OBSERVING AND NOT REPORTING.									
GRP28516	05	1226	1304	1234	N05	W05	.229	10607	5.1	38	-B			1.73				4 4 4 5	
CATA	05	1225	1310	1240	N05	W05	.229	10607	5.1	45	-N		1240	1.39	1.43		141		
RAMY	05	1227	1306	1234	N05	W06	.236	10607	5.1	39	-B	C		1.29				FH	
HERS	05	1228E	1250	1228E	N06	W03	.235	10607	5.3	22D	1N	P	1230	3.40	3.50			BE	
MCMA	05	1242E	1308		N05	W06	.236	10607	5.1	26D	-B	C	1242	.83	.90			E	
516 CATA	05	1235	1240	1235	N06	E02	.232	10607	5.7	5	*-N		1235	.23	.24		153		
4 STATIONS REPORTING GROUP 28518.										1 STATIONS OBSERVING AND NOT REPORTING.									
GRP28518	05	1455	1529	1505	S12	E29	.484	10614	7.8	34	-N			1.03				2 2 2 5	
CATA	05	1455E	1510D	1505	S12	E29	.484	10614	7.8	15D	-B		1505	1.33	1.53		204		
MCMA	05	1504E	1529		S11	E29	.483	10614	7.8	25D	-F	C	1504	.72	.80			E	
28518	05	1436	1513	1450	S10	E29	.482	10614	7.8	37	*-F			.80				2 2 2 4	
RAMY	05	1435	1510	1453	S10	E29	.482	10614	7.8	35	-N	C		.88				F	
HTPR	05	1437	1515	1447	S10	E29	.482	10614	7.8	38	-F	C	1447	.72	.80			EU	
GRP28521	05	1616	1645	1623	S16	E70	.933	10618	10.9	29	1B			1.21				3 3 2 3	
MCMA	05	1615E	1640	1623	S16	E70	.933	10618	10.9	25D	1B	C	1623	1.29	3.70			EHV	
RAMY	05	1616	1649	1623	S16	E71	.939	10618	11.0	33	1B	C						UH	
HTPR	05	1618	1629D	1623	S15	E70	.933	10618	10.9	11D	1B	C	1623	1.13				H	
522 MCMA	05	1822	1910	1826	N11	W90	1.000	10595	27.0	48	--F	C	1826					AK	
523 MCMA	05	1825	1850		S15	E45	.704	10618	9.1	25	--F	C	1830	.72	1.00			E	
GRP28524	05	1909	1937	1915	S15	E72	.944	10618	11.2	28	-N			.93				2 2 2 2	
MCMA	05	1909	1936	1912	S16	E70	.933	10618	11.0	27	-N	C	1912	.62	1.80			E	
RAMY	05	1911E	1938	1917	S14	E74	.955	10618	11.3	27D	1N	C		1.24				F	
GRP28525	05	1919	1958	1931	S13	E26	.442	10614	7.8	39	--N			.78				2 2 2 2	
RAMY	05	1917	1955	1929	S15	E23	.404	10614	7.5	38	-N	C		.93				F	
MCMA	05	1921	2000	1932	S11	E28	.468	10614	7.9	39	-N	C	1932	.62	.70			E	
GRP28526	05	1921	1932	1922	N12	W90	1.000	10595	27.1	11	--F							2 2 0 2	
RAMY	05	1920	1929	1922	N13	W90	1.000	10595	27.1	9	-N	V						DE	
MCMA	05	1922	1935		N11	W90	1.000	10595	27.1	13	-F	C	1925						
GRP28527	05	1940	1953	1942	N05	W09	.262	10607	5.1	13	--F			.49				2 2 2 2	
RAMY	05	1939	1951	1942	N05	W10	.272	10607	5.1	12	-F	C		.46				DEH	
MCMA	05	1940	1955	1942	N05	W07	.244	10607	5.3	15	-F	C	1942	.52	.50			E	
528 RAMY	05	2042	2103	2044	S15	E73	.950	10618	11.3	21	--N	C		.21				DE	
529 RAMY	05	2103	2108	2104	S07	E14	.240	10614	6.9	5	--F	C		.46				DE	
	05	2158	2235	NO FLARE PATROL															
GRP28530	06	0015	0033	0018	N03	W17	.339	10607	4.7	18	-N			.99				3 3 3 5	
MANI	06	0013	0048	0018	N04	W17	.348	10607	4.7	35	-N	2		0018	1.03	1.10			
MITK	06	0015	0028	0018	N04	W17	.348	10607	4.7	13	-N	C		0018	.93	1.00			
VORO	06	0016	0022	0018	N02	W18	.345	10607	4.7	6	-B	C		0018	1.02	1.07		74	
GRP28532	06	0545	0614	0553	S09	E65	.901	10618	11.1	29	1N			1.38				2 2 2 6	
CULG	06	0543	0612	0553	S10	E64	.893	10618	11.0	29	1N	P	0553	1.65	3.20				
CRON	06	0546	0615	0552U	S08	E65	.902	10618	11.1	29	1N	C	0552	1.10	2.30				
6 STATIONS REPORTING GROUP 28534.										0 STATIONS OBSERVING AND NOT REPORTING.									
GRP28534	06	0747	0821	0751	S14	E18	.324	10614	7.7	34	-N			2.33				4 4 4 5	
CRON	06	0745	0825	0755	S14	E18	.324	10614	7.7	40	1N	C	0755	2.40	2.50				
BUCA	06	0745	0824	0748	S14	E16	.294	10614	7.5	39	-N	C	0748	1.99	2.10				
TACH	06	0748E	0810		S11	E19	.328	10614	7.8	22D	1F	V	0749	3.19	3.39		2.26		
CATA	06	0750	0825	0750	S15	E17	.315	10614	7.6	35	-B		0750	1.73	1.84		48		
28534	06	0755	0816	0808	S14	E19	.339	10614	7.8	21	*-N			1.78				3 3 3 8	
HTPR	06	0747	0817	0806	S15	E18	.330	10614	7.7	30	1N	C	0806	2.37	2.40			E	
MANI	06	0758E	0813D		S14	E19	.339	10614	7.8	15D	-F	1	0800	1.86	1.96				
CATA	06	0800	0825	0810	S11	E20	.344	10614	7.8	25	-N		0810	.58	.62		199		
CATA	06	0805	0815	0810	S17	E22	.400	10614	8.0	10	-B		0810	.52	.57		204		
536 RAMY	06	1241	1300	1251	N04	W27	.488	10607	4.5	19	--F	C		.46				DEH	

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	
GRP28537	06	1321	1341	1326	S14	E60	.859	10618	11.1	20	1N						4 4 3 5
RAMY	06	1318	1349	1326	S12	E59	.850	10618	11.0	31	1N						F
NERA	06	1319E	1335D	1323	S15	E60	.859	10618	11.1	16D	2N	2					
HTPR	06	1321	1350	1327	S14	E62	.876	10618	11.2	29	1N	C	1327	1.55	3.00		E
ZURI	06	1326	1329	1326	S14	E60	.859	10618	11.1	3	1N	C	1326	2.10	4.00		
GRP28538	06	1447	1510	1458	N03	W26	.468	10607	4.7	23	--F						4 4 4 4
RAMY	06	1445	1517	1452	N02	W27	.477	10607	4.6	32	-F	C		.70			DEH
HTPR	06	1449	1508	1458	N03	W26	.468	10607	4.7	19	-F	C	1458	1.03	1.10		
CATA	06	1500E	1510D	1505	N03	W25	.454	10607	4.8	10D	-B		1505	.75	.85	282	
MGMA	06	1501E	1506		N03	W27	.482	10607	4.6	50	-F	C	1503	.31	.40		EH
GRP28539	06	1534	1544	1536	N08	W23	.462	10607	4.9	10	--F			.31			2 2 1 4
RAMY	06	1533	1543	1536	N07	W23	.454	10607	4.9	10	-F	C		.31			DE
BOUL	06	1534	1544	1536	N08	W22	.450	10607	5.0	10	-F	S					
GRP28540	06	1700	1717	1703	N03	W27	.482	10607	4.7	17	--F			.26			3 3 2 3
RAMY	06	1658	1724	1703	N03	W27	.482	10607	4.7	26	-F	C		.31			DEH
BOUL	06	1700	1709	1703	N03	W26	.468	10607	4.8	9	-N	V	1703		.50		
HTPR	06	1702	1703D		N04	W28	.502	10607	4.6	10	-F	C	1703	.21	.20		
GRP28541	06	1723	1743	1726	S07	E12	.206	10614	7.6	20	-N			1.27			2 2 2 2
RAMY	06	1723	1746	1726	S06	E12	.208	10614	7.6	23	-N	C		1.03			DE
BOUL	06	1723	1737	1725	S08	E13	.223	10614	7.7	14	-N	C		1.50	1.50		E
BOUL	06	1724	1740	1725	S07	E12	.206	10614	7.6	16	-N	V	1725		2.00		
542 BOUL	06	1749	1805	1752	S21	W67	.913	10621	1.7	16	-N	V	1752		.50		2
GRP28544	06	2057	2115	2100	S12	E37	.598	10618	9.6	18	--F			.52			2 2 1 2
RAMY	06	2057	2114	2100	S12	E39	.625	10618	9.8	17	-F	C		.52			DE
BOUL	06	2059E	2115	2059	S12	E35	.571	10618	9.5	16D	-N	V					
545 BOUL	06	2141	2200	2143	N07	W29	.534	10607	4.7	19	--F	V	2143		.80		1
546 BOUL	06	2217	2221	2219	N03	W29	.511	10607	4.8	4	--F	V	2219		.80		2
GRP28548	06	2348	0001	2349	S14	E25	.489	10618	9.2	13	--N			.78			3 3 2 5
BOUL	06	2348	2352	2348	S15	E30	.506	10618	9.2	4	-N	S	2348		1.00		
MANI	06	2349E	0010	2350	S13	E29	.486	10618	9.2	21D	-B	1	2350	.72	.81		
MITK	06	2352E	0000		S15	E28	.477	10618	9.1	8D	-F	C	2352	.83	1.00		E
GRP28549	07	0117	0132	0121	N07	W33	.586	10607	4.6	15	-N			1.02			2 2 2 4
MANI	07	0115	0138	0121	N11	W33	.610	10607	4.6	23	-N	3	0121	1.13	1.44		
CRON	07	0118	0125	0121	N03	W33	.566	10607	4.6	7	-N	C	0121	.90	1.10		H
GRP28550	07	0138	0331	0152	S12	E10	.190	10614	7.8	113	2B			8.37			6 4 4 6
CULG	07	0131	0329	0153	S11	E09	.168	10614	7.7	118	3B	P	0153	13.41	13.00		HLRSU
MANI	07	0140	0410	0148	S11	E09	.168	10614	7.7	150	2B	3	0148	5.98	6.03		
CRON	07	0141	0240	0150	S12	E11	.205	10614	7.9	59	1N	C	0150	5.00	5.00		
MITK	07	0141	0333D	0146	S13	E10	.198	10614	7.8	112D	2N	C	0146	9.08	9.20		FH
KODA	07	0143E	0254	0202	S11	E08	.152	10614	7.7	71D	2B	C	0203	10.44	10.40	2.00	CIKU
VORO	07	0244E	0330D		S11	E10	.183	10614	7.9	46D	1B	P	0246	3.88	3.90		EJ
GRP28558	07	0630	0703	0641	S14	E55	.813	10618	11.4	33	--F			.87			4 4 3 7
TEHR	07	0625	0650D		S12	E53	.792	10618	11.2	25D	1F						
HTPR	07	0632	0700	0636	S13	E55	.813	10618	11.4	28	-F	C	0636	.41	.70		E
ABST	07	0634	0658	0646	S16	E55	.813	10618	11.4	24	-F	C	0646	1.07	1.80		D
MANI	07	0636E	0712		S13	E57	.832	10618	11.6	36D	-N	1	0640	1.13	1.89		
GRP28563	07	0718	0752	0719	S20	W78	.972	10602	1.5	34	1N			.90			3 3 1 10
TEHR	07	0655E	0810D		S15	W79	.977	10602	1.4	75D	1F						
ABST	07	0716	0730	0719	S21	W77	.967	10602	1.5	14	1N	C	0719	.90			D
ISTA	07	0720	0755		S24	W78	.971	10602	1.5	35	-B						
GRP28564	07	0722	0735	0725	N04	W35	.598	10607	4.7	13	1N			1.83			7 7 5 9
TEHR	07	0720E	0735D	0723	N04	W30	.530	10607	5.1	15D	1N						
CAPE	07	0721	0735	0724	N04	W37	.624	10607	4.5	14	-N	C	0724	1.41	1.80		H
HTPR	07	0721	0733	0724	N04	W35	.598	10607	4.7	12	1B	C	0724	2.06	2.40		
ABST	07	0722	0736	0724	N04	W36	.611	10607	4.6	14	1N	C	0724	2.25	2.80		D
MANI	07	0723E	0726D		N04	W35	.598	10607	4.7	3D	1F	1	0725	2.27	2.71		
CATA	07	0725	0735	0725	N03	W36	.607	10607	4.6	10	-B		0725	1.16	1.45	234	H
ISTA	07	0725	0737	0727	N03	W35	.593	10607	4.7	12	1N						

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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.												
1970 MAR																		
GRP28565	07	0803	0815	0809	N07	W33	.586	10607	4.9	12	--F		.64				4 4 2 7	
TEHR	07	0737E	0815D		N06	W32	.567	10607	4.9	38D	-F							
TEHR	07	0750E	0810D		N04	W30	.530	10607	5.1	20D	-F							
TEHR	07	0755E	0812D		N08	W31	.566	10607	5.0	17D	-F							
ISTA	07	0800	0804		N05	W30	.535	10607	5.1	4	-N							
HTPR	07	0805	0812	0808	N08	W35	.617	10607	4.7	7	-F	C	0808	.41	.50		E	
CATA	07	0810	0830	0810	N07	W35	.612	10607	4.7	20	-N		0810	.87	1.09	199	Z	
GRP28567	07	0840	0907	0843	S06	E04	.073	10614	7.7	27	-N		2.03				9 9 8 10	
MONT	07	0837	0913	0842	S04	E04	.090	10614	7.7	36	1B	C	0842	2.58				
CAPE	07	0839	0900	0843	S06	E03	.056	10614	7.6	21	-F	C	0843	1.20	1.20			
ZURI	07	0839	0850D	0840	S06	E02	.041	10614	7.5	11D	1N	P	0840	3.16	3.20			
HTPR	07	0840	0904	0842	S06	E04	.073	10614	7.7	24	-E	C	0842	2.06	2.00			
CATA	07	0840	0920	0845	S06	E03	.056	10614	7.6	40	-B		0845	1.91	1.92	339		
MANI	07	0840E	0906D		S06	E04	.073	10614	7.7	26D	-N	1	0845	1.44	1.44			
UCCL	07	0841	0904D	0841	S05	E02	.052	10614	7.5	23D	1N	P	0841	2.06	2.10		E	
ISTA	07	0844	0903	0848	S09	E07	.124	10614	7.9	19	-N						E	
ABST	07	0845E	0905	0845	S06	E04	.073	10614	7.7	20D	-N	P	0845	1.79	1.80			
GRP28572	07	1013	1030	1015	S19	W80	.979	10621	1.4	17	-N		.59				5 2 2 9	
TEHR	07	0900E	1150D	0943	S15	W79	.977	10621	1.4	170D	1B						V	
MONT	07	1012	1038	1017	S21	W77	.967	10621	1.6	26	-N	C	1017	.52				
UCCL	07	1012	1039	1014	S18	W80	.979	10621	1.4	27	1N	C	1014	.77			D	
ZURI	07	1013	1016	1015	S22	W77	.967	10621	1.7	3	-N	C	1015	.57				
HTPR	07	1014	1021	1016	S20	W80	.979	10621	1.4	7	-N	C	1016	.41				
5 STATIONS REPORTING GROUP 28573.					3 STATIONS OBSERVING AND NOT REPORTING.													
GRP28573	07	1046	1150	1056	N09	W45	.740	10606	4.1	64	-F		1.20				3 3 3 7	
MONT	07	1045	1102D	1055	N08	W44	.725	10606	4.1	17D	-N	C	1055	1.55				
CAPE	07	1045	1150	1100	N08	W43	.713	10606	4.2	65	-F	C	1100	1.02	1.50			
UCCL	07	1047	1110D	1054	N11	W47	.768	10606	3.9	23D	1F	P	1054	1.03	2.40		F	
28573	07	1045	1210	1109	N07	W44	.721	10606	4.1	85	*-B		2.08				2 2 2 6	
CATA	07	1045	1210	1110	N09	W44	.728	10606	4.1	85	1B		1110	2.61	3.83	234		
RAMY	07	1107E	1130D	1107U	N05	W43	.702	10606	4.2	23D	-N	C		1.55			F	
574 TEHR	07	1050E	1205D		N08	W35	.617	10607	4.8	75D	2N						V 6	
7 STATIONS REPORTING GROUP 28576.					0 STATIONS OBSERVING AND NOT REPORTING.													
GRP28576	07	1122	1205	1128	S14	E48	.738	10618	11.1	43	1B		2.35				5 5 4 7	
NERA	07	1118E	1135D	1125	S15	E47	.727	10618	11.0	17D	1B	2						
RAMY	07	1121	1217	1127	S11	E49	.749	10618	11.1	56	1B	C		2.48			F	
HTPR	07	1122	1136		S13	E49	.749	10618	11.1	14	1B	C	1124	1.65	2.60		EH	
CAPE	07	1123	1212	1130	S14	E48	.738	10618	11.1	49	1B	C	1130	2.03	3.00			
CATA	07	1125	1215	1130	S15	E49	.750	10618	11.2	50	1B		1130	3.25	4.85	372		
28576	07	0000	1205	(1139)	S14	E49	.749	10618	10.7	725	*1N		.62				3 2 1 6	
TEHR	07	1122E	1122D		S13	E50	.760	10618	11.2		1B						VE	
ONDR	07	1133E	1159		S14	E48	.738	10618	11.1	26D	2N	V	1134			2.70	K	
HTPR	07	1142E	1210		S13	E49	.749	10618	11.2	28D	-N	C	1143	.62	1.00		B	
GRP28580	07	1601	1637	1609	S14	E45	.703	10618	11.0	36	1N		2.63				4 4 2 4	
MCMA	07	1600	1650		S15	E45	.704	10618	11.0	50	1N	C	1608	1.55	2.20		E	
RAMY	07	1601	1651	1608	S13	E46	.714	10618	11.1	50	1B	C		3.71			UF	
BOUL	07	1601	1635	1610	S13	E42	.665	10618	10.8	34	2N	V	1610		6.50			
ONDR	07	1607E	1613		S15	E45	.704	10618	11.0	6D	2N	V	1611			2.40		
584 BOUL	07	1919	1930	1920	S17	W21	.386	10626	6.2	11	--F	V	1920		1.00		2	
GRP28585	07	2017	2043	2020	N06	W54	.824	10606	3.8	26	--F		.52				2 1 1 2	
RAMY	07	2017	2043	2020	N06	W54	.824	10606	3.8	26	-F	C		.52			DE	
BOUL	07	2021	2050	2031	N10	W55	.843	10606	3.7	29	-F	V						
	07	2044	2057		NO FLARE PATROL													
GRP28586	07	2115	2139	2122	S21	W83	.987	10621	1.7	24	1N						2 1 0 3	
BOUL	07	2115	2139	2122	S21	W83	.987	10621	1.7	24	1N	V	2122		4.00			
RAMY	07	2119	2143	2123	S23	W88	.997	10621	1.3	24	-N	C					DE	
587 RAMY	07	2139	2156	2144	N06	W45	.729	10607	4.5	17	--F	C		.83			DE 2	
GRP28589	08	0009	0124	0111	S21	W89	.998	10602	1.3	75	--F		.51				2 2 2 4	
MANI	08	0009	0127	0111	S21	W88	.997	10602	1.4	78	-F	2	0111	.52	1.60			
CRON	08	0108	0121	0111	S21	W90	.999	10602	1.3	13	-N	C	0111	.50	2.00		IE	

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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 FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
1970 MAR																		
GRP28594	08	0657	0708	0701	S12	W08	.160	10614	7.7	11	--N			.65				4 4 3 6
KODA	08	0656	0702	0700	S12	W09	.175	10614	7.6	6	-N	V	0658	.65	6.60	1.64		CD
MANI	08	0657	0712	0702	S11	W08	.152	10614	7.7	15	-N	3	0702	.41	.42			
ONDR	08	0659E	0707		S12	W08	.160	10614	7.7	8D	-N	V	0701			2.20		CD
ABST	08	0700E	0710	0701	S14	W08	.180	10614	7.7	10D	-N	P	0701	.90	.90			D
GRP28595	08	0714	0730	0718	N08	W46	.747	10607	4.9	16	1N			1.32				5 5 4 7
CULG	08	0712	0735	0717	N08	W44	.725	10607	5.0	23	1N	C	0717	1.75	2.55			
GRON	08	0715	0722	0717	N09	W46	.750	10607	4.9	7	-N	C	0717	.70	1.10			E
MANI	08	0716	0738	0719	N08	W45	.736	10607	4.9	22	-F	3	0719	1.03	1.50			
ABST	08	0717E	0725	0717	N09	W46	.750	10607	4.9	8D	1F	P	0717	1.79	2.70			D
ONDR	08	0718E	0732		N07	W47	.755	10607	4.8	14D	1N	V	0719			2.20		CE
GRP28598	08	1218	1243	1224	N08	W04	.272	10616	8.2	25	--F			.96				2 2 2 5
CATA	08	1215	1250	1223	N07	W03	.251	10616	8.3	35	-N		1223	1.39	1.43		195	
RAMY	08	1221	1236	1225	N08	W05	.276	10616	8.1	15	-F	V		.52				F
GRP28600	08	1330	1356	1341	S10	E16	.277	10618	9.8	26	-N			.97				4 3 3 4
ONDR	08	1327E	1356		S16	E30	.509	10618	10.8	29D	1N	V	1330			2.40		CK
RAMY	08	1329	1351	1341	S10	E16	.277	10618	9.8	22	-N	V		1.03				F
CATA	08	1330	1405	1340	S11	E16	.280	10618	9.8	35	-B		1340	1.27	1.33		278	
MCMA	08	1343E	1353D		S10	E16	.277	10618	9.8	10D	-N	P	1343	.62	.60			E
GRP28601	08	1335	1403	1348	N08	W51	.800	10607	4.7	28	--N			.46				4 4 3 4
RAMY	08	1334	1406	1350	N08	W53	.819	10607	4.6	32	-N	V		.52				DE
CATA	08	1335	1400	1350	N11	W51	.808	10607	4.7	25	-B		1350	.34	.59		246	
MCMA	08	1343E	1353D	1345	N07	W52	.807	10607	4.7	10D	-N	P	1345	.52	.90			E
ONDR	08	1349E	1402		N07	W47	.755	10607	5.1	13D	-F	V	1350			2.00		DH
GRP28604	08	1513	1524	1515	S12	W12	.221	10614	7.7	11	--B			.79				2 2 2 4
RAMY	08	1511	1523	1515	S12	W12	.221	10614	7.7	12	-N	V		.83				DE
CATA	08	1515	1525	1515	S12	W12	.221	10614	7.7	10	-B		1515	.75	.77		251	
GRP28605	08	1607	1649	1618	S16	E29	.495	10618	10.8	42	-N			1.13				2 1 1 3
RAMY	08	1607	1649	1618	S16	E29	.495	10618	10.8	42	-N	V		1.13				DE
MCMA	08	1630E	1639D		S16	E31	.523	10618	11.0	9D	-N	P	1630	.31	.40			E
	08	1817	1836		NO FLARE PATROL													
	08	1840	1853		NO FLARE PATROL													
	08	1854	1952		NO FLARE PATROL													
GRP28606	08	1933	2007	(1955)	S12	W15	.268	10614	7.7	34	-F			.62				2 2 1 2
BOUL	08	1933E	1952D		S11	W15	.263	10614	7.7	19D	1N	S						
MCMA	08	1952E	2007D		S13	W15	.273	10614	7.7	15D	-F	C	1955	.62	.60			E
607 MCMA	08	2002	2007D	2004	N08	W52	.809	10607	4.9	5D	--F	C	2004	.31	.50			D 1
	08	2007	2016		NO FLARE PATROL													
GRP28608	08	2244	2314	2259	S11	W17	.296	10614	7.7	30	-N			1.53				4 4 3 4
CULG	08	2234	0011	2302	S12	W17	.299	10614	7.7	97	1N	C	2302	2.58	2.62			
BOUL	08	2248E	2254D		S09	W17	.291	10614	7.7	6D	-N	S						
VORO	08	2249	2306	2256	S12	W16	.283	10614	7.8	17	-B	C	2256	1.29	1.33		98	EJ
MANI	08	2250E	2321D		S11	W17	.296	10614	7.7	31D	-N	1	2255	.72	.75			
GRP28613	09	0416	0508	0423	S13	E25	.427	10618	11.1	52	1F			2.24				3 3 3 5
MANI	09	0415	0513	0421	S12	E25	.424	10618	11.1	58	1F	2	0421	2.48	2.70			
CULG	09	0416	0510	0427	S13	E24	.412	10618	11.0	54	1F	C	0427	2.68	2.86			
MITK	09	0416	0500	0422	S14	E25	.430	10618	11.1	44	-N	C	0422	1.55	1.70			E
GRP28614	09	0535	0633	0541	S15	E25	.434	10618	11.1	58	-F			2.58				3 3 3 5
MITK	09	0534	0539		S15	E27	.463	10618	11.3	5	-F	C	0539	1.75	2.00			E
CULG	09	0535	0638	0539	S16	E24	.424	10618	11.0	63	1N	P	0539	4.64	4.95			RS
MANI	09	0537	0627	0543	S15	E25	.434	10618	11.1	50	-F	2	0543	1.34	1.40			
GRP28615	09	0802	0815	0805	S11	E15	.263	10618	10.5	13	--N			.46				3 3 3 5
MANI	09	0800	0818	0805	S11	E15	.263	10618	10.5	18	-F	2	0805	.62	.65			
HTPR	09	0802	0811	0805	S11	E15	.263	10618	10.5	9	-F	C	0805	.31	.30			
CATA	09	0805	0815	0805	S12	E15	.268	10618	10.5	10	-B		0805	.46	.48		234	
GRP28616	09	1104	1116	1110	S12	W22	.378	10614	7.8	12	--N			.67				3 3 3 6
HTPR	09	1103	1116	1113	S12	W22	.378	10614	7.8	13	-F	C	1113	.62	.60			
RAMY	09	1104	1118	1106	S12	W22	.378	10614	7.8	14	-F	C		.52				DE
CATA	09	1105	1115	1110	S13	W22	.381	10614	7.8	10	-B		1110	.87	.95		209	
618 MCMA	09	1700	1726	1708	S10	W29	.482	10614	7.5	26	--N	C	1708	.36	.40			E 3

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	MIN.	TIME UT	MEAS. AREA Sq. Deg.		CORR. AREA Sq. Deg.	MAX. WIDTH Ha
	1970																	
	MAR																	
GRP28619	09	1749	1815	1758	N08	W64	.906	10607	4.9	26	--N						3 3 3 4	
HOUT	09	1749	1812	1752U	N08	W65	.907	10607	4.9	23	-N	C		.44				
MCMA	09	1749	1820	1757	N08	W64	.911	10607	4.9	31	-N	C	1757	.60	1.30		D	
RAMY	09	1803E	1812	1804U	N08	W63	.904	10607	5.0	90	-N	C		.21	.50		DE	
620 MCMA	09	1844	1850	1844	S12	W01	.085	10618	9.7	6	--N	C	1844	.41	.40		E 2	
GRP28626	10	0654	0830	0727	S15	E10	.216	10618	11.0	96	1N			4.35			6 5 4 6	
MANI	10	0636	0830	0701	S16	E12	.253	10618	11.2	114	1N	3	0701	3.35	3.51			
CULG	10	0649	0806D	0728	S15	E10	.216	10618	11.0	77D	2N	P	0728	7.12	6.90		L	
CAPE	10	0657	0820	0730	S16	E10	.227	10618	11.0	83	1N	C	0730	2.78	2.90			
CRON	10	0657	0740D	0720	S13	E11	.212	10618	11.1	43D	1N	C	0720	3.10	3.30		E	
ZURI	10	0725E	0753D	0730	S15	E08	.191	10618	10.9	28D	1N	P	0730	4.41	4.50			
NERA	10	0730E	0742D		S15	E09	.204	10618	11.0	120	2F	3						
GRP28629	10	0836	0853	0843	S09	W06	.108	10618	9.9	17	-N			1.08			3 3 2 9	
MANI	10	0833	0856	0841	S09	W07	.124	10618	9.8	23	-N	3	0841	1.03	1.04			
ONDR	10	0837E	0851		S08	W02	.037	10618	10.2	140	-B	V	0843			2.30	C	
MONT	10	0839	0853	0845	S09	W08	.141	10618	9.8	14	-N	C	0845	1.13				
GRP28634	10	1339	1353	1341	S10	W40	.638	10614	7.6	14	-N			.71			5 5 5 10	
ZURI	10	1338	1342	1341	S10	W39	.624	10614	7.6	4	-F	C	1341	.79	1.00			
CAPE	10	1339	1400	1341	S10	W40	.638	10614	7.6	21	-F	C	1341	1.20	1.60		V	
CATA	10	1340E	1345D	1340	S08	W40	.638	10614	7.6	5D	-B			1340	.46	.61	263	
MCMA	10	1342E	1357		S11	W41	.651	10614	7.5	15D	-N	C	1344	.36	.40		E	
RAMY	10	1343E	1400	1343U	S10	W41	.651	10614	7.5	17D	-N	C		.72			DEH	
GRP28637	10	1748	1840	1815	S16	W26	.452	10618	8.8	52	-N			1.37			2 2 2 3	
RAMY	10	1748	1845	1814	S15	W25	.434	10618	8.9	57	-N	C		1.70			F	
MCMA	10	1748	1809D	1752	S16	W27	.467	10618	8.7	21D	-N	C	1752	.31	.40		E	
MCMA	10	1810	1835	1815	S16	W25	.438	10618	8.9	25	-N	C	1815	1.03	1.20		E	
GRP28638	10	2007	2025	2011	S15	W29	.492	10618	8.7	18	--F			.77			2 2 2 4	
RAMY	10	2006	2025	2011	S14	W29	.489	10618	8.7	19	-F	C		1.13			F	
MCMA	10	2008	2018D	2010	S16	W28	.481	10618	8.7	10D	-F	C	2010	.41	.50		E	
639 RAMY	10	2159E	2221	2206	S12	W26	.439	10618	9.0	22D	--N	V		.62			DE 2	
640 MANI	10	2334	0015	2344	S16	W69	.926	10626	5.8	41	--F	2	2344	.62	1.31		2	
GRP28650	11	0627	0653	0631	S11	W06	.122	10618	10.8	26	-F			1.27			2 2 2 4	
CULG	11	0626E	0653D	0630	S10	W03	.071	10618	11.0	27D	1F	P	0630	2.27	2.20			
MANI	11	0628	0647D	0631	S12	W08	.160	10618	10.7	19D	-N	2	0631	.26	.26			
GRP28651	11	0805	0852	0812	N17	W20	.519	10617	9.8	47	1N			2.37			5 5 4 6	
CRON	11	0800	0830	0805	N18	W20	.530	10617	9.8	30	-N	C	0805	1.70	2.00		E	
CAPE	11	0805	0857	0811	N16	W21	.518	10617	9.8	52	-N	C	0811	1.68	2.00			
NERA	11	0806E	0813D	0809	N20	W18	.537	10617	10.0	7D	1F	3						
BUCA	11	0810	0850	0815	N16	W20	.508	10617	9.8	40	1F	C	0815	3.32	3.80			
CATA	11	0820E	0910	0820	N17	W20	.519	10617	9.8	50D	1B		0820	2.78	3.25	251		
GRP28655	11	1623	1710	1631	S15	W39	.629	10618	8.8	47	--F			.93			2 2 2 2	
MCMA	11	1621E	1710D		S14	W40	.641	10618	8.7	49D	-N	C	1639	.72	.90		EK	
RAMY	11	1625	1655D	1631	S15	W37	.603	10618	8.9	30D	-F	V		1.13			DE	
656 MCMA	11	1645	1658	1648	S18	W82	.985	10626	5.5	13	--F	C	1648				D 2	
657 MCMA	11	1840	1901	1852	S18	W82	.985	10626	5.6	21	--F	C	1852				D 1	
658 MCMA	11	1851	1904	1853	S13	W27	.457	10618	9.8	13	--F	C	1853	.31	.40		EH 1	
GRP28659	11	1910	2015	1919	N21	W22	.581	10617	10.1	65	-N			.83			2 1 1 2	
MCMA	11	1910	2015D	1919	N21	W22	.581	10617	10.1	65D	-N	C	1919	.83	1.10		ELU	
RAMY	11	1930E	1932D	1930U	N20	W22	.571	10617	10.2	2D	-F	V		1.86			F	
GRP28660	11	2100	2139	2115	S18	W85	.993	10626	5.5	39	-N			.93			2 1 1 3	
MCMA	11	2100	2139	2115	S18	W85	.993	10626	5.5	39	-N	C	2115				D	
CULG	11	2135	2245	2157	S15	W85	.993	10626	5.5	70	1N	C	2157	.93			T	
GRP28663	12	0042	0102	0049	S18	W16	.325	10618	10.8	20	-B			1.25			2 2 2 4	
MANI	12	0041	0104	0047	S17	W15	.303	10618	10.9	23	-N	3	0047	1.03	1.08			
VORO	12	0042	0059	0051	S18	W16	.325	10618	10.8	17	-B	C	0051	1.47	1.55	102	EJ	
GRP28665	12	0306	0344	0315	S14	W46	.715	10618	8.7	38	2N			4.16			5 5 5 5	
CULG	12	0305	0355	0312	S13	W47	.726	10618	8.6	50	2B	C	0312	3.92	5.30		LU	
CRON	12	0306	0355	0311	S14	W46	.715	10618	8.7	29	1N	C	0311	2.30	3.20		E	
MANI	12	0306E	0355		S14	W45	.703	10618	8.8	49D	2N	2	0311	4.13	6.08			
SIBE	12	0307	0343	0316	S13	W47	.726	10618	8.6	36	1N	P	0316	3.30	5.00	160	EU	
KODA	12	0307E	0332	0322	S15	W44	.692	10618	8.8	25D	2B	C	0311	7.17	7.20	2.20	IKU	

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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 Ho	MAX. INT. %												
7 STATIONS REPORTING GROUP 28667.															1 STATIONS OBSERVING AND NOT REPORTING.														
GRP28667	12	0638	0806	0717	N23	W28	.653	10617	10.2	88	1N									4	4	4	8						
CAPE	12	0633	0800	0719	N22	W28	.644	10617	10.2	87	1B		0719	3.45	4.50									H					
CULG	12	0642E	0722D		N24	W25	.638	10617	10.4	40D	2N		0722	8.56	11.20														
CULG	12	0642	0813D	0713	N24	W25	.638	10617	10.4	91D	2N	P	0713	7.43	9.36									LK					
BUCA	12	0700E	0820	0715	N23	W29	.662	10617	10.1	80D	1N	P	0715	3.98	5.20									E					
HTRP	12	0713E	0750		N21	W30	.653	10617	10.1	37D	2N	C	0724	4.64	5.80														
28667	12	0633	0750	0642	N21	W29	.644	10617	10.1	77	*1N			3.11										4	4	3	6		
MANI	12	0631	0806	0640	N21	W30	.653	10617	10.0	95	2F	1	0640	3.92	5.36														
CAPE	12	0633	0640D	0640	N22	W27	.635	10617	10.2	7D	1N	C	0640	2.12	2.80														
CRON	12	0634	0745	0645U	N21	W29	.644	10617	10.1	71	1N	C	0645	3.30	4.30														
ISTA	12	0635E	0739		N20	W28	.626	10617	10.2	64D	-N																		
GRP28668	12	0926	0941	0929	S18	W89	.998	10626	5.7	15	-N			.51															
MANI	12	0925	0942	0927	S16	W89	.999	10626	5.7	17	-N	1	0927	.31	.98														
MONT	12	0926	0944	0932	S18	W87	.996	10626	5.9	18	-N	C	0932	.52															
HTRP	12	0927	0938	0928	S19	W90	.999	10626	5.6	11	-N	C	0928	.31															
CAPE	12	0927	0940	0930	S17	W90	.999	10626	5.6	13	-N	C	0930	.88															
GRP28670	12	1146	1208	1148	S15	W20	.360	10618	11.0	22	--F			.45															
SANM	12	1145	1210	1147	S13	W20	.350	10618	11.0	25	-F	1	C	.48	.52														
RAMY	12	1146	1205	1149	S16	W19	.351	10618	11.1	19	-N	C		.41															
GRP28671	12	1148	1208	1157	S17	W89	.999	10626	5.8	20	--F			.52															
MONT	12	1141	1209D	1157	S18	W88	.997	10626	5.9	28D	-N	C	1157	.52															
SANM	12	1154	1207	1157	S16	W90	.999	10626	5.7	13	-F	1	C																
GRP28674	12	1535	1614	1545	S14	W50	.761	10618	8.9	39	-N			1.07															
CATA	12	1531E	1550D	1540	S12	W50	.760	10618	8.9	19D	-B		1540	.58	.90														
SANM	12	1531	1627		S13	W52	.782	10618	8.7	56	-B	1	C	1544	1.13	1.80													
SANM	12	1531	1627		S13	W52	.782	10618	8.7	56	1B	1	C	1602	2.59	4.11													
ZURI	12	1532	1600D	1548	S14	W48	.738	10618	9.0	28D	1N	P	1548	1.72	2.30														
HTRP	12	1534	1618	1548	S16	W50	.762	10618	8.9	44	-N	C	1548	1.13	1.30														
BOUL	12	1537	1609	1548	S14	W50	.761	10618	8.9	32	-N	V																	
MCMA	12	1538E	1600D	1543	S13	W52	.782	10618	8.8	22D	-N	C	1543	.52	.80														
LOCA	12	1538	1612	1545	S15	W49	.750	10618	9.0	34	1N	V	1545	1.68	2.50														
RAMY	12	1539	1605	1546	S17	W52	.784	10618	8.8	26	-N	C		.72															
GRP28675	12	1606	1622	1610	S02	E38	.619	10630	15.5	16	--F			.76															
SANM	12	1604	1623	1610	S02	E38	.619	10630	15.5	19	-N	1	C	.80	1.02														
HTRP	12	1607	1620	1610	S01	E38	.621	10630	15.5	13	-F	C	1610	.72	.90														
GRP28676	12	1833	1900	1842	S16	W90	.999	10626	6.0	27	-N																		
MCMA	12	1830E	1850D		S18	W90	.999	10626	6.0	20D	-F	C	1834																
RAMY	12	1834	1906	1839	S19	W90	.999	10626	6.0	32	-N	C																	
BOUL	12	1835	1853	1844	S11	W90	1.000	10626	6.0	18	1B	V	1844		3.00														
GRP28677	13	0115	0121	0117	S16	W44	.693	10618	9.8	6	-B			1.02															
MANI	13	0114	0131	0117	S13	W43	.678	10618	9.8	17	-F	2	0117	.93	1.27														
VORO	13	0115	0121	0117	S16	W44	.693	10618	9.8	6	-B	C	0117	1.02	1.38														
GRP28678	13	0129	0222	0148	S13	W28	.472	10618	11.0	53	1N			2.48															
CULG	13	0129	0222	0148	S13	W28	.472	10618	11.0	53	1N	C	0148	2.48	2.70														
MANI	13	0130	0225	0135	S13	W30	.501	10618	10.8	55	-N	2	0135	1.29	1.51														
GRP28685	13	1609	1631	1614	S14	W65	.899	10618	8.8	22	-N			.98															
SANM	13	1608	1616D		S14	W65	.899	10618	8.8	8D	1N	1	P	1616	1.45	3.32													
RAMY	13	1608	1630	1613	S13	W65	.900	10618	8.8	22	-N	C		1.24															
BOUL	13	1609E	1634	1617	S13	W66	.907	10618	8.7	25D	-N	V	1617		2.00														
HOUT	13	1610	1627	1612	S13	W65	.900	10618	8.8	17	-N	C		.90	1.90														
MCMA	13	1610	1637	1617	S15	W64	.892	10618	8.9	27	-N	C	1617	.41	1.00														
BOUL	13	1610E	1631	1612U	S13	W65	.900	10618	8.8	21D	-N	C		.90	2.00														
GRP28687	13	1934	1952	1936	S19	W44	.699	10618	10.5	18	--F			.26															
RAMY	13	1933	1951	1936U	S19	W44	.699	10618	10.5	18	-N	C		.26															
BOUL	13	1934	1953	1936	S18	W44	.697	10618	10.5	19	-F	V	1936		.80														
	13	2150	2210		NO FLARE PATROL																								
688	CATA	14	1035	1040	1035	S18	W55	.815	10618	10.3	5	-B		1035	.69	1.21													
689	CATA	14	1040	1105	1045	S16	W55	.814	10618	10.3	25	-B		1045	.75	1.31													
		14	1110	1120		NO FLARE PATROL																							

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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	MCMAH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
	1970 MAR																	
GRP28690	14	1156	1219	1203	S01	E13	.248	10630	15.5	23	-B							
CATA	14	1150	1220	1205	S00	E14	.271	10630	15.5	30	-B	1205	1.73	1.80		339	3 3 3 4	
RAMY	14	1159	1221	1202	S01	E12	.233	10630	15.4	22	-B		.67				DE	
CAPE	14	1200	1215	1203	S01	E13	.248	10630	15.5	15	-N	P 1203	1.33	1.40				
GRP28692	14	1520	1543	1525	S19	W55	.815	10618	10.5	23	-N		.82					
RAMY	14	1519	1540	1524	S20	W56	.826	10618	10.4	21	-N	C	.62				4 4 3 6	
CATA	14	1520	1545	1525	S18	W55	.815	10618	10.5	25	-B	1525	.87	1.52		240	DE	
BOUL	14	1521E	1542D	1526	S18	W54	.805	10618	10.6	21D	-F	V 1526		1.90				
SANM	14	1525E	1546		S20	W55	.816	10618	10.5	21D	-N	1 P 1525	.97	1.73			B	
GRP28693	14	1613	1629	1617	S16	W59	.851	10618	10.3	16	--F		.65				2 2 1 4	
BOUL	14	1612	1639	1617	S15	W59	.851	10618	10.3	27	-F	V 1617		1.50				
SANM	14	1614	1619	1616	S16	W58	.842	10618	10.3	5	-F	1 C	.65	1.22			E	
695 SANM	14	1705	1710	1707	S16	W59	.851	10618	10.3	5	--N	1 C	.48	.91			D 3	
696 SANM	14	1743	1752	1746	S00	E09	.199	10630	15.4	9	--F	1 C	.17	.17			D 2	
697 SANM	14	2030	2047	2034	S01	E08	.175	10630	15.5	17	--F	1 C	.32	.32			E 2	
GRP28698	14	2056	2126	2108	S18	W58	.842	10618	10.5	30	1F		1.29				2 2 1 2	
BOUL	14	2051	2126	2108	S17	W57	.833	10618	10.6	35	1F	V 2108		3.00				
SANM	14	2101	2117D		S19	W58	.843	10618	10.5	16D	1F	1 P 2104	1.29	2.43			E	
699 MANI	15	0034	0046	0035	S18	W61	.868	10618	10.4	12	--F	4	0035	.31	.56			2
GRP28702	15	0815	0856	0824	S18	E12	.275	10629	16.2	41	--N		.73				3 2 2 6	
HTPR	15	0812	0916	0845	S15	E15	.287	10629	16.5	64	-F	C 0845	.31	.30				
MANI	15	0814	0841	0823	S18	E11	.263	10629	16.2	27	-F	2 C 0823	.41	.43				
CATA	15	0815	0910	0825	S17	E13	.277	10629	16.3	55	-B	0825	1.04	1.08		229		
GRP28703	15	0835	0859	0844	N20	E38	.722	10631	18.2	24	--F		.31				3 2 1 8	
MANI	15	0832	0859	0844	N20	E37	.712	10631	18.1	27	-F	2 C 0844	.31	.46				
HTPR	15	0835	0913	0857	N20	E35	.693	10631	18.0	38	-F	C 0857	.41	.60				
ISTA	15	0838	0858	0843	N19	E39	.725	10631	18.3	20	-N							
	15	2208	2229		NO FLARE PATROL													
706 MANI	16	0500E	0537		S01	W08	.175	10630	15.6	37D	-N	2	0505	1.75	1.79			3
GRP28717	16	1458	1519	1505	N02	W19	.359	10630	15.2	21	--N		.45				3 3 3 5	
MCMA	16	1458	1517	1504	N01	W18	.337	10630	15.3	19	-N	C 1504	.31	.40			EH	
HTPR	16	1458	1520	1505	N02	W19	.359	10630	15.2	22	-F	C 1505	.52	.50				
RAMY	16	1458	1520	1505	N02	W19	.359	10630	15.2	22	-N	C	.52				DE	
GRP28720	16	1530	1548	1536	S01	W18	.325	10630	15.3	18	--F		.47				2 2 2 5	
HTPR	16	1530	1545	1537	S03	W18	.316	10630	15.3	15	-F	C 1537	.52	.50			E	
MCMA	16	1530	1550	1534	N01	W18	.337	10630	15.3	20	-N	C 1534	.41	.50			E	
721 HUAN	16	1900	1904	1902	S02	W19	.336	10630	15.4	4	--N	2 C	1902	.25	.30			3
GRP28722	16	2026	2040	2029	N01	W19	.352	10630	15.4	14	--N		.34				3 3 2 3	
BOUL	16	2025	2044D	2029	N01	W17	.323	10630	15.6	19D	-N	V						
RAMY	16	2025	2040	2028	N02	W21	.389	10630	15.3	15	-N	C	.41				DE	
MCMA	16	2027	2035		N01	W20	.367	10630	15.4	8	-N	C 2028	.26	.30			E	
GRP28724	16	2201	0015	2233	S21	W82	.985	10618	10.8	134	-F		1.65				2 2 1 3	
CULG	16	2201	0015	2233	S19	W79	.976	10618	11.0	134	-N	C 2233	1.65				R	
BOUL	16	2230	2241	2232	S22	W85	.992	10618	10.6	11	-F	V						
GRP28725	17	0029	0101	0039	N01	W24	.427	10630	15.2	32	--B		.78				2 2 2 4	
MITK	17	0028	0101	0039	N01	W23	.412	10630	15.3	33	-N	C 0039	.72	.80			D	
VORO	17	0030	0049D	0038	S00	W24	.422	10630	15.2	19D	-B	C 0038	.84	.90		79	EJ	
GRP28733	17	1441	1507	1449	N02	W31	.534	10630	15.3	26	-N		1.17				6 6 5 8	
MCMA	17	1440	1520	1444	N01	W30	.515	10630	15.4	40	-B	C 1444	.77	.90			EHL	
HTPR	17	1441	1458	1445	N01	W31	.530	10630	15.3	17	-N	C 1445	1.65	1.80				
CATA	17	1445E	1505D	1455	N04	W31	.543	10630	15.3	20D	-B	C 1455	.98	1.17		263	B	
LOCA	17	1447E	1510	1447	N01	W30	.515	10630	15.4	23D	-N	V 1447	1.47	1.70				
BOUL	17	1452E	1454D	1452	S00	W30	.511	10630	15.4	2D	-N	S						
SANM	17	1458E	1502		N02	W33	.562	10630	15.1	4D	-N	1 P 1458	.97	1.16			E	
734 RAMY	17	1812E	1818	1812E	N02	E33	.562	10634	20.2	6D	--F	C	.21				DE 2	
1 STATIONS REPORTING GROUP 28735.																		
735 RAMY 17 1840 1908 1844 S00 E34 .569 10634 20.3 28 --F 2																		
735 RAMY 17 1840 1908 1851 S00 E34 .569 10634 20.3 28 *-F C .31 DE 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. LAT.	MER. DIST.	CENTRAL DISTANCE	GMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _a		MAX. INT. %
	1970																	
	MAR																	
	17	2037	2047	NO FLARE PATROL														
GRP28736	17	2242	2321	2251	S00	W36	.596	10630	15.2	39	1B							
VORO	17	2239	2314	2249	S02	W36	.591	10630	15.2	35	1B	C	2249	1.44			3 3 3 3	
CULG	17	2239	2335	2249	N02	W36	.603	10630	15.2	56	1B	C	2249	1.85	2.30		112	
MANI	17	2248	2313	2256	S01	W35	.580	10630	15.3	25	-N	1	2256	1.96	2.60		EHJ	
														.52	.65		HLR	
3 STATIONS REPORTING GROUP 28739.					1 STATIONS OBSERVING					AND NOT REPORTING.								
GRP28739	18	0713	0746	0724	S02	W40	.645	10630	15.3	33	1B			2.55				
KODA	18	0710	0747	0728	S01	W40	.647	10630	15.3	37	1N	C	0732	3.36	3.40	1.92		
CATA	18	0715	0745	0720	S03	W40	.643	10630	15.3	30	1B		0720	1.73	2.27		305	
																		2 2 2 3
28739	18	0730	0820	0735	S01	W40	.647	10630	15.3	50	*-B			1.39				
CATA	18	0730	0820	0735	S01	W40	.647	10630	15.3	50	-B		0735	1.39	1.84		380	
MANI	18	0808E	0834		N01	W41	.665	10630	15.3	260	-N	1	0808	.52	.65		2 1 1 4	
GRP28740	18	1137	1213	1144	N14	E90	1.000	10641	25.2	36	1B							
SANM	18	1137	1210	1143	N14	E90	1.000	10641	25.2	33	1B	1	C				2 2 0 3	
RAMY	18	1137	1215D	1145	N13	E90	1.000	10641	25.2	380	1N		C				A	
																		DE
	18	1325	1330	NO FLARE PATROL														
GRP28741	18	1440	1530	1452	N22	W07	.499	10631	18.1	50	--B			.73				
SANM	18	1440	1530	1453	N22	W08	.502	10631	18.0	50	-N	1	C	.65	.74			
CATA	18	1450E	1455D	1450	N21	W06	.481	10631	18.2	50	-B		1450	.80	.93		246	
																		2 2 2 3
3 STATIONS REPORTING GROUP 28742.					0 STATIONS OBSERVING					AND NOT REPORTING.								
GRP28742	18	1655	1732	1717	S04	W46	.718	10630	15.3	37	1B			1.95				
RAMY	18	1655	1732	1717	S04	W46	.718	10630	15.3	37	1N	C		1.96				
SANM	18	1712E	1725D		S03	W45	.707	10630	15.3	130	1B	1	P	1713	1.94	2.74		
																		2 2 2 3
28742	18	1657	1739	1701	S04	W45	.706	10630	15.3	42	*-N			1.22				
RAMY	18	1655	1732	1702	S04	W46	.718	10630	15.3	37	-N			1.13				
CANR	18	1658	1745	1700U	S04	W44	.693	10630	15.4	47	-N	C	1700	1.30	1.80		2 2 2 2	
743 SANM	18	1748E	1757D		N22	E89	1.000	10641	25.4	90	--N	1	P	1755	.17			
																		D 2
	18	1907	1918	NO FLARE PATROL														
GRP28745	19	0231	0246	0234	N12	E88	1.000	10641	25.7	15	1N			.55				
CULG	19	0231	0250	0236	N10	E85	.998	10641	25.5	19	1N	C	0236	.52				
CRON	19	0231	0241	0234	N12	E90	1.000	10641	25.9	10	1N	C	0234	.60	2.40			
MITK	19	0231	0248	0232	N13	E89	1.000	10641	25.8	17	1F	C	0232	.52			H	
																		H
GRP28746	19	0333	0404	0340	N02	W52	.795	10630	15.2	31	--F			.93				
MANI	19	0331E	0407		N01	W51	.783	10630	15.3	360	-N	2	0331	1.13	1.80		2 2 2 4	
MITK	19	0334	0400	0340	N02	W53	.806	10630	15.2	26	-F	C	0340	.72	1.20		D	
GRP28748	19	0550	0636	0623	N14	E78	.985	10641	25.1	46	-N			1.62				
KODA	19	0550	0631	0623	N13	E80	.990	10641	25.2	41	-N	C	0626	1.62	1.60	2.40	2 2 1 4	
ISTA	19	0615E	0640	0623	N15	E76	.980	10641	25.0	250	-N						CEK	
GRP28750	19	1424	1429	1426	N20	E71	.965	10641	24.9	5	--N			.23				
SANM	19	1423	1429	1426	N21	E72	.970	10641	25.0	6	-N	1	C	.17				
MCMA	19	1424	1429	1426	N20	E73	.973	10641	25.1	5	-F	C	1426	.26	1.00		D	
HUAN	19	1424	1429	1425U	N20	E69	.956	10641	24.8	5	-N	2	C	1425	.25			
																		D
GRP28755	19	2000	2029	2005	N02	W62	.887	10630	15.2	29	1B			1.71				
BOUL	19	1959	2033	2005	N01	W59	.861	10630	15.4	34	1N	V	2005		3.00		3 3 2 3	
MCMA	19	2000	2020	2005	N02	W62	.887	10630	15.2	20	-B	C	2005	.83	1.70			
SANM	19	2000	2033	2005	N02	W62	.887	10630	15.2	33	2B	1	C	2.59	5.51		E	
BOUL	19	2002	2010	2005	N04	W63	.898	10630	15.1	8	-N	C		.70	1.40		E	
	19	2045	2057	NO FLARE PATROL														
	19	2110	2142	NO FLARE PATROL														
	19	2155	2210	NO FLARE PATROL														
757 BOUL	19	2156	2219	2157	N14	E76	.979	10641	25.6	23	--F		V	2157		2.00		2
GRP28762	20	1404	1432	1408	N14	E67	.938	10641	25.6	28	-N			.32				
SANM	20	1402	1431	1405	N16	E66	.935	10641	25.5	29	-N	1	C	.32				
RAMY	20	1404	1433	1409	N12	E68	.941	10641	25.7	29	-N	C					3 3 1 7	
BOUL	20	1407	1433	1411	N14	E68	.944	10641	25.7	26	-N	V					F	

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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. %		
4 STATIONS REPORTING GROUP 28767.													0 STATIONS OBSERVING AND NOT REPORTING.			3	3	0	4
GRP28767	20	1704	1753	1712	N13	E72	.963	10641	26.1	49	-N								
RAMY	20	1703	1805	1714	N10	E68	.939	10641	25.8	62	-N								
BOUL	20	1705	1740	1709	N15	E70	.955	10641	26.0	35	1N	V	1709		3.00				EH
MCMA	20	1714E	1729D		N15	E78	.986	10641	26.6	15D	-N	C	1717						
28767	20	1742	1831	1758	N15	E71	.960	10641	26.1	49	*-N				.48				
SANM	20	1705	1831		N15	E72	.964	10641	26.1	86	-N	1	C	1759		.48			
BOUL	20	1742	1825D	1758	N15	E70	.955	10641	26.0	43D	1N	V	1758		3.00				2 2 1 4
28767	20	1704	1818	1744	N13	E70	.953	10641	26.0	74	*-B				.32				
RAMY	20	1703	1805	1744	N10	E68	.939	10641	25.8	62	-N	C							
SANM	20	1705	1831		N15	E72	.964	10641	26.1	86	-B	1	C	1745		.32			
SANM	20	1705	1831		N15	E72	.964	10641	26.1	86	-N	1	C	1730		.65			
GRP28768	20	1804	1820	1810	N04	W76	.973	10630	15.1	16	--F								
RAMY	20	1803	1821	1810	N06	W78	.981	10630	14.9	18	-F	C							
BOUL	20	1804	1819	1809	N01	W73	.958	10630	15.3	15	-N	V							
769 BOUL	20	2137	2152	2141	N15	W28	.580	10638	18.8	15	--F	V	2141		.80				
GRP28771	20	2326	2343	2328	S16	E03	.164	10633	21.2	17	--F				.46				
MANI	20	2326	2347	2327	S17	E02	.176	10633	21.1	21	-F	1	V	2327		.46			
BOUL	20	2326	2339	2328	S14	E03	.131	10633	21.2	13	-N	V	2328		1.30				
GRP28772	21	0031	0254	0110	N18	E67	.944	10641	26.0	143	2F				3.63				
CULG	21	0023	0322	0053	N20	E69	.956	10641	26.2	179	2N	C	0053		4.54				
VORO	21	0034	0200D	0058	N21	E63	.926	10641	25.7	86D	2F	C	0058		2.96	7.30			74
CRON	21	0035	0210	0120U	N18	E67	.944	10641	26.0	95	2N	C	0120		4.30	10.80			
MITK	21	0036	0310	0048	N19	E68	.950	10641	26.1	154	2F	C	0048		2.78				
MANI	21	0042E	0210D		N18	E66	.938	10641	26.0	88D	2F	2	C	0054		4.23	9.06		
CULG	21	0055	0234	0127	N08	E69	.942	10641	26.2	99	1F	C	0127		1.24				
KODA	21	0141E	0259	0149	N20	E64	.930	10641	25.9	78D	3N	C	0147		17.95	18.00	1.92		
GRP28774	21	0408	0423	0413	N17	W28	.597	10638	19.1	15	--F				.57				
MANI	21	0407	0423D		N17	W28	.597	10638	19.1	16D	-F	2	C	0408		.52	.65		
MITK	21	0408	0422D	0413	N17	W28	.597	10638	19.1	14D	-N	C	0413		.62	.80			
GRP28775	21	0415	0423	0416	N18	E49	.814	10641	24.9	8	-N				.98				
MITK	21	0415	0422D	0416	N17	E48	.800	10641	24.8	7D	-N	C	0416		1.03	1.70			
MANI	21	0416E	0423D		N19	E50	.826	10641	24.9	7D	-N	2	C	0417		.93	1.63		
GRP28778	21	0641	0739	0654	N20	E49	.822	10641	25.0	58	1F				1.39				
CULG	21	0641	0750D	0654	N20	E49	.822	10641	25.0	69D	1N	P	0654		1.34	2.21			
MANI	21	0651E	0702D		N19	E48	.809	10641	24.9	11D	1F	1	C	0651		1.44	2.41		
MANI	21	0714E	0728		N19	E49	.818	10641	25.0	14D	-N	1	C	0717		.93	1.60		
GRP28779	21	0658	0741	0710	S01	W86	.997	10630	14.8	43	-F				.70				
CULG	21	0658	0750D	0710	N02	W85	.997	10630	14.9	52D	1N	P	0710		1.13				
MANI	21	0714E	0731		S04	W86	.997	10630	14.9	17D	-F	1	C	0715		.26	.68		
GRP28780	21	0949	1008	0956	N19	E46	.791	10641	24.9	19	-N				2.35				
CRON	21	0945	1000D	0954	N19	E46	.791	10641	24.9	15D	-N	C	0954		1.30	2.00			
MONT	21	0946	1009	0953	N20	E48	.813	10641	25.0	23	1N	C	0953		4.54				
CAPE	21	0952	1010	1001	N19	E46	.791	10641	24.9	18	-N	C	1001		1.24	2.00			
ZURI	21	0953	1006	0954	N19	E44	.772	10641	24.7	13	1F	C	0954		2.31	3.70			
GRP28786	21	1425	1453	1436	N20	E38	.721	10641	24.5	28	--N				.48				
SANM	21	1423	1442D		N20	E37	.711	10641	24.4	19D	-N	1	P	1427		.48	.68		
BOUL	21	1426	1452	1430	N20	E38	.721	10641	24.5	26	-N	V							
CANR	21	1427	1453D	1441	N20	E37	.711	10641	24.4	26D	-N	C	1441		.54	.80			
GRP28787	21	1614	1631	1618	N17	E44	.762	10641	25.0	17	-N				1.10				
MONT	21	1611	1628	1617	N17	E45	.772	10641	25.0	17	-N	C	1617		2.27				
BOUL	21	1614	1635	1618	N18	E43	.758	10641	24.9	21	-N	V							
RAMY	21	1615	1638	1619	N17	E43	.753	10641	24.9	23	-N	C			.72				
MCMA	21	1616	1624	1618	N17	E44	.762	10641	25.0	8	-N	C	1618		.31	.50			
GRP28788	21	1731	1802	1737	N15	E50	.811	10641	25.5	31	-N				1.30				
RAMY	21	1730	1811	1736	N16	E52	.833	10641	25.6	41	-N	C			1.29				
MCMA	21	1731	1805	1737	N16	E52	.833	10641	25.6	34	-N	C	1737		.67	1.10			
CANR	21	1731	1811	1742	N15	E50	.811	10641	25.5	40	1N	C	1742		1.94	3.30			
BOUL	21	1732	1742	1734	N13	E44	.744	10641	25.0	10	1N	S	1734			3.00			
GRP28789	21	1757	1812	1800	N17	E42	.743	10641	24.9	15	--N				.61				
CANR	21	1757	1811D	1801	N16	E41	.727	10641	24.8	14D	-N	C	1801		.85	1.20			
MCMA	21	1757	1805	1759	N17	E44	.762	10641	25.0	8	-N	C	1759		.31	.50			
RAMY	21	1758	1820	1801	N17	E42	.743	10641	24.9	22	-F	C			.67				

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMA PLAGE REGION				CMP DAY	MIN.	MAX. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Hg
GRP28790	21 MAR	1838	1843	1840	N20	E40	.740	10641	24.8	5	--F		.58				
SANM	21	1837	1843	1840	N21	E39	.737	10641	24.7	6	-N	1	.80	1.18			E
MCA	21	1838	1843	1839	N18	E40	.728	10641	24.8	5	-F		.36	.50			E
GRP28791	21	2024	2039	2027	N19	E40	.734	10641	24.9	15	--F		.47				
MCA	21	2024	2038	2025	N18	E40	.728	10641	24.9	14	-F		.31	.40			3
RAMY	21	2025E	2036D	2028	N19	E42	.753	10641	25.0	11D	-N	V	.77				E
SANM	21	2034E	2040D		N20	E39	.730	10641	24.8	-6D	-F	1	.32	.46			E
GRP28792	21	2253	2302	2256	N18	E40	.728	10641	25.0	9	-B		.82				2
MANI	21	2252	2305D	2257	N17	E40	.723	10641	25.0	13D	-N	3	.52	.77			2
VORO	21	2253	2259	2255	N19	E39	.724	10641	24.9	6	-B		1.11	1.60			82
GRP28793	22	0001	0128	0033	N15	E55	.855	10641	26.1	87	2N		2.55				5
CULG	22	2355	0156	0023	N17	E56	.869	10641	26.2	121	2B	C	2.89	5.32			3
CRON	22	0006	0110	0035	N13	E53	.832	10641	26.0	64	2N	C	3.20	5.80			3
VORO	22	0009E	0118		N15	E57	.871	10641	26.3	69D	1N	C	1.57	3.10			68
MITK	22	0027E	0124	0042	N15	E55	.855	10641	26.1	57D	2F	C	4.23	8.00			E
MANI	22	0131	0200	0140	N13	E55	.850	10641	26.2	29	-F	1	.41	.63			F
GRP28800	22	1138	1223	1154	N14	E34	.639	10641	25.0	45	--N		.64				3
SANM	22	1135	1216	1153	N14	E34	.639	10641	25.0	41	-N	1	.48	.62			3
CANR	22	1137	1241	1153	N14	E33	.628	10641	25.0	64	-N		.42	.50			DL
CAPE	22	1142	1212	1155	N15	E35	.657	10641	25.1	30	-F		1.03	1.40			
4 STATIONS REPORTING GROUP 28802. 1 STATIONS OBSERVING AND NOT REPORTING.																	
GRP28802	22	1407	1443	1410	N15	E34	.646	10641	25.1	36	-N		1.01				
SANM	22	1406	1440	1410	N16	E34	.653	10641	25.1	34	-B	2	1.45	1.90			4
RAMY	22	1407	1445	1409	N15	E34	.646	10641	25.1	38	-N	C	.83				E
CAPE	22	1407	1409D	1409	N15	E35	.657	10641	25.2	2D	-F	C	1.03	1.40			F
CANR	22	1410E	1428D	1412U	N15	E32	.624	10641	25.0	18D	-N	C	.74	1.00			FK
28802	22	1407	1448	1427	N15	E34	.646	10641	25.1	41	*-N		1.81				3
SANM	22	1406	1440		N16	E34	.653	10641	25.1	34	1N	2	2.91	3.79			3
RAMY	22	1407	1445	1421	N15	E34	.646	10641	25.1	38	-F		1.34				3
CAPE	22	1407	1500	1432	N15	E34	.646	10641	25.1	53	-N		1.17	1.50			3
GRP28803	22	1430	1447	1436	N17	W85	.999	10628	16.2	17	-N		.36				3
SANM	22	1428	1443	1435	N16	W87	1.000	10628	16.1	15	-N	1	.32				3
RAMY	22	1428	1453	1431	N14	W88	1.000	10628	16.0	25	-N	C	.52				D
CATA	22	1435	1445	1443	N20	W80	.993	10628	16.6	10	-B		.23				DE
GRP28804	22	1509	1522	1512	N16	E29	.599	10641	24.8	13	--F		.97				2
RAMY	22	1509	1525	1512	N16	E30	.610	10641	24.9	16	-F	C					DE
SANM	22	1509	1518	1512	N16	E27	.577	10641	24.7	9	-N	2	.97	1.20			E
GRP28805	22	1605	1622	1607	N17	W53	.844	10638	18.7	17	--N		.49				3
BOUL	22	1604	1624	1607	N17	W50	.818	10638	18.9	20	-N	V					3
CANR	22	1605	1626	1607	N16	W54	.850	10638	18.6	21	-N	C	.32	.60			2
SANM	22	1605	1615	1607	N17	W54	.853	10638	18.6	10	-B	2	.65	1.16			D
GRP28806	22	1627	1701	1632	N20	E28	.623	10641	24.8	34	--N		.49				3
CANR	22	1606	1717	1631	N19	E27	.605	10641	24.7	71	-F	C	.32	.40			3
SANM	22	1626	1655	1631	N20	E28	.623	10641	24.8	29	-N	1	.65	.82			3
BOUL	22	1627	1650	1633	N21	E30	.651	10641	24.9	23	-N	C					D
GRP28807	22	1718	1745	1727	S09	E15	.259	10639	23.8	27	--F		.48				2
CANR	22	1713	1746	1729	S11	E17	.297	10639	24.0	33	-F	C	.64	.70			2
SANM	22	1723	1732	1725	S09	E17	.292	10639	24.0	9	-F	2	.32	.33			2
SANM	22	1736	1744	1739	S06	E07	.122	10639	23.3	8	-F	1	.32	.32			E
GRP28808	22	1828	1900	1833	N17	W54	.853	10638	18.7	32	-N		.97				3
BOUL	22	1827	1900D	1834	N17	W51	.827	10638	18.9	33D	-F	V					3
RAMY	22	1828	1841D	1831	N16	W54	.850	10638	18.7	13D	-F	C					DE
SANM	22	1831E	1840D		N17	W56	.869	10638	18.6	9D	-B	1	.97	1.78			E
GRP28809	22	2011	2035	2016	S05	E05	.093	10639	23.2	24	-N		1.34				3
RAMY	22	2010E	2016D	2013	S05	E07	.126	10639	23.4	60	-N	C	.62				3
BOUL	22	2012	2035	2018	S05	E03	.063	10639	23.1	23	-N	V					DE
CULG	22	2015E	2032D		S04	E05	.101	10639	23.2	17D	1N	P	2.06				
GRP28812	22	2311	2327	2313	S20	E84	.990	10648	29.3	16	-N		.51				2
BOUL	22	2310	2323	2313	S19	E86	.994	10648	29.4	13	-N	C	.60	2.00			2
MANI	22	2311	2330	2313	S20	E82	.985	10648	29.1	19	-N	3	.41	1.52			2

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970 MAR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
5 STATIONS REPORTING GROUP 28814. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP28814	22	2336	0132	2347	N16	E29	.599	10641	25.2	116	1N							5 5 5 5
CULG	22	2335	0146D	2349	N16	E28	.588	10641	25.1	131D	2B	P	2349	5.78	7.00			KL
CRON	22	2336	0010	2341	N15	E32	.624	10641	25.4	34	1N	C	2341	2.20	2.80			E
MANI	22	2336	0119	2348	N17	E30	.618	10641	25.2	103	1N	3	2348	4.13	5.12			
BOUL	22	2337	0010D	2348U	N17	E29	.607	10641	25.2	33D	1N	C		2.00	2.50			E
MITK	22	2340E	0015	2351	N17	E29	.607	10641	25.2	35D	2B	C	2351	5.67	7.10			F
BOUL	22	2340E	0005D	2347	N16	E26	.567	10641	24.9	25D	1N	V						
28814																		
CULG	22	2335	0146D	0027	N16	E28	.588	10641	25.1	131D	2N			5.16	6.25			3 3 3 4
CRON	23	0018	0045	0022U	N14	E32	.616	10641	25.4	27	2N	C	0022	4.60	5.80			E
MITK	23	0018	0100	0025	N15	E33	.635	10641	25.5	42	1N	C	0025	3.51	4.60			E
GRP28816																		
MITK	23	0155	0219	0205	S07	E04	.069	10639	23.4	24	--F			.52				2 2 2 4
MANI	23	0158E	0215D	0205	S07	E03	.052	10639	23.3	24	-F	C	0205	.62	.60			H
4 STATIONS REPORTING GROUP 28817. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP28817	23	0356	0459	0414	N15	E43	.742	10641	26.4	63	-F			1.08				2 2 2 6
MITK	23	0355	0510	0407	N14	E44	.748	10641	26.5	75	-F	C	0407	.83	1.20			D
MANI	23	0356	0447		N15	E42	.732	10641	26.3	51	-N	1	0408	1.03	1.54			E
MITK	23	0409	0421	0414	N14	E42	.727	10641	26.3	12	-F	C	0414	1.13	1.60			
28817																		
CULG	23	0317	0524	(0352)	N15	E42	.732	10641	26.3	127	*2N	P	0352	3.71	5.40			2 1 1 6
TACH	23	0344E	0455		N14	E39	.695	10641	26.1	71D	2F	V	0434	7.29	9.85	1.98	54	ULR BE
GRP28818																		
MITK	23	0343	0409	0347	N18	W59	.894	10638	18.7	26	1N			1.17				3 3 3 6
MANI	23	0344	0404	0347	N17	W58	.884	10638	18.8	23	-F	C	0347	.93	2.00			D
CULG	23	0345E	0414	0347	N18	W61	.907	10638	18.6	13D	1N	1	0347	1.34	2.88			T
GRP28819																		
CULG	23	0515	0541	0525	N17	W58	.884	10638	18.9	26	-N			.65				3 3 3 6
MANI	23	0518E	0542	0524	N18	W58	.886	10638	18.9	30	1N	C	0520	.93				R
MITK	23	0520	0545	0531	N16	W59	.889	10638	18.8	25	-F	1	0524	.41	.75			D
GRP28828																		
MONT	23	0953	1012	1001	N18	W59	.894	10638	19.0	19	1N			2.49				5 5 4 8
KHAR	23	0950	1015D	0959	N19	W59	.896	10638	18.9	21	1B	C	0959	3.40				
CAPE	23	0955	1015	1000	N18	W60	.905	10638	18.9	25D	2N	P	1003	4.28	9.43	1.80		E
HURB	23	0955E	1008	0958	N17	W57	.876	10638	19.1	20	1N	C	1000	1.70	3.90			T
CATA	23	1005E	1010D	1005	N17	W59	.891	10638	19.0	5D	-B		1005	.58	1.20	1.80	266	
GRP28831																		
CAPE	23	1545	1611	1548	N18	W62	.914	10638	19.0	26	1N			1.34				3 3 2 4
HOUT	23	1545	1600	1545	N18	W63	.920	10638	18.9	21	1B	C	1548	1.97	4.70			
RAMY	23	1550E	1628	1552U	N18	W61	.907	10638	19.1	15	-F	C		.70	1.60			F
GRP28832																		
RAMY	23	1935	2000	1939	N13	E16	.431	10641	25.0	25	--F			.52				2 2 1 3
BOUL	23	1936E	1954	1939	N12	E17	.429	10641	25.1	30	-F	C		.52				DE
833 RAMY																		
	23	2045	2048D	2048	N16	W66	.935	10638	18.9	3D	-N	C						F 4
GRP28835																		
MANI	23	2311	2328	2316	N19	W68	.950	10638	18.9	17	--F			.52				2 2 1 4
BOUL	23	2310E	2328D		N20	W68	.951	10638	18.9	18D	-F	2	2312	.52	1.09			
GRP28839																		
CATA	24	0629	0701	0642	N16	W71	.961	10638	18.9	32	-N			1.04				4 4 3 7
KODA	24	0638	0702	0643	N14	W71	.959	10638	18.9	40D	-B		0640	.63			257	Z
CULG	24	0640E	0646D		N16	W73	.969	10638	18.8	24	-N	P	0653	1.57	1.60	2.24		CDK
ISTA	24	0645E	0700		N18	W70	.958	10638	19.0	6D	1N	P	0641	.93				
GRP28840																		
CULG	24	0735	0810	0746	N12	E27	.542	10641	26.3	35	1N			2.20				6 6 5 10
CRON	24	0718E	0756D	0744	N11	E28	.547	10641	26.4	38D	1N	P	0744	2.89	3.36			LR
CAPE	24	0730	0815	0747U	N12	E28	.554	10641	26.4	45	1N	C	0747	2.70	3.20			EL
ZURI	24	0737	0755	0745	N13	E26	.539	10641	26.3	40	-F	C	0748	1.61	2.00			FH
CANR	24	0737E	0827	0746	N11	E25	.510	10641	26.2	18	1F	C	0745	2.10	2.50			
ISTA	24	0748	0810		N11	E27	.534	10641	26.3	50D	1N	C	0746	1.72	2.10			
					N12	E25	.519	10641	26.2	22	-N							

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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 Hg		MAX. INT. %
					LAT.	MER. DIST.												
	1970																	
	MAR																	
GRP28842	24	0759	0838	0806	N21	W01	.469	10641	24.3	39	2N		5.93				7 6 5 9	
CANR	24	0756	0902	0807	N22	W02	.485	10641	24.2	66	3B	C	0807	13.40	15.30			
ZURI	24	0759	0821	0805	N20	W03	.455	10641	24.1	22	1N	C	0805	4.62	5.20			
CAPE	24	0759	0845	0810	N22	W03	.486	10641	24.1	46	1N	C	0810	2.37	2.70			
KODA	24	0800	0817	0807	N17	W04	.411	10641	24.0	17	1N	V	0807	2.12	2.10	1.64	FH CFI EL	
CRON	24	0800	0825	0803	N23	W01	.499	10641	24.3	25	2N	C	0803	4.60	5.30			
CATA	24	0800E	0850	0810	N20	W02	.454	10641	24.2	50D	2B		0810	4.64	5.21	269		
ISTA	24	0800	0827	0802	N18	E04	.426	10641	24.6	27	1N							
GRP28843	24	0920	0952	0925	N16	W75	.977	10638	18.8	32	1B		1.93				8 8 8 10	
CATA	24	0915	0945D	0920	N13	W74	.971	10638	18.8	30D	1B		0920	2.32		446	Z	
MANI	24	0918	0931D	0929	N17	W72	.966	10638	19.0	13D	2B	1	0929	3.61	8.40			
CRON	24	0920	0955	0926	N18	W75	.978	10638	18.8	35	1N	C	0926	1.00	3.00		EH	
CANR	24	0920	0954	0924	N15	W80	.991	10638	18.4	34	2N	C	0924	2.14	7.50			
CAPE	24	0920	0950	0924	N16	W77	.983	10638	18.6	30	-B	C	0924	1.17				
ZURI	24	0921	0940	0927	N14	W75	.975	10638	18.8	19	1B	C	0927	1.30				
KODA	24	0927	0932D	0928	N16	W75	.977	10638	18.8	5D	-B	C	0928	1.80	1.90	2.16	CD H	
CAPP	24	0930E	1005		N15	W75	.976	10638	18.8	35D	2N	P	0933	2.06				
GRP28846	24	1249	1317	1255	N18	W76	.982	10638	18.8	28	-N		.54				5 5 4 9	
HUAN	24	1245U	1332U	1253	N18	W80	.992	10638	18.5	47D	-N	1	C	1253	.62			E DE DT
RAMY	24	1249	1321	1255	N16	W75	.977	10638	18.9	32	-N	C				331		
SANM	24	1249	1301	1255	N18	W79	.990	10638	18.6	12	-B	1	C		.48			
CATA	24	1250	1320	1255	N21	W72	.970	10638	19.1	30	-B		1255	.52				
MONT	24	1251	1301	1255	N19	W74	.976	10638	19.0	10	-N	C	1255	.52				
SANM	24	1308	1313	1310	N18	W79	.990	10638	18.6	5	-B	1	C		.48			D
GRP28848	24	1624	1635	1626	N16	E21	.514	10641	26.3	11	--F		.32				2 2 2 4	
SANM	24	1623	1633	1625	N16	E21	.514	10641	26.3	10	-F	1	C	.32	.36			E DE
RAMY	24	1624	1636	1626	N15	E21	.503	10641	26.3	12	-F	C	.31					
GRP28849	24	1627	1724	1638	N14	E06	.371	10641	25.1	57	1N		4.57				6 6 5 6	
SANM	24	1625	1725D	1638	N15	E05	.382	10641	25.1	60D	1B	1	P	4.53	4.91			EFIL
RAMY	24	1625	1728	1640	N14	E05	.367	10641	25.1	63	1N	C	3.92				F	
WEND	24	1628	1711D	1639	N14	E06	.371	10641	25.1	43D	2N	V	8.25					
HOUT	24	1629	1715	1640	N14	E06	.371	10641	25.1	46	2N	C	4.90	5.40			E	
HUAN	24	1631E	1700D	1631U	N14	E05	.367	10641	25.1	29D	-B	2	P	1631	1.24	1.40		I
BOUL	24	1638E	1729	1638	N14	E07	.375	10641	25.2	51D	1N	S	1638	5.00				
GRP28852	24	2241	2301	2245	N17	E08	.426	10641	25.5	20	-N		.97				2 2 2 4	
VORO	24	2238	2301	2242	N16	E06	.402	10641	25.4	23	-B	C	2242	1.11	1.19	85	EJ	
MANI	24	2244	2300	2247	N17	E09	.431	10641	25.6	16	-F	1	2247	.83	.90			
GRP28853	25	0108	0132	0111	N15	E16	.455	10641	26.2	24	-N		1.61				4 3 3 5	
CULG	24	2339	0210	0001	N17	E17	.488	10641	26.3	151	1N	C	0001	2.48	2.65		HL	
MANI	25	0108	0132	0111	N15	E16	.454	10641	26.2	24	-F	2	0114	1.65	1.80			
MITK	25	0108	0129	0111	N14	E16	.442	10641	26.2	21	-N	C	0111	1.24	1.40		E	
VORO	25	0108	0134	0111	N16	E15	.458	10641	26.2	26	1B	C	0111	1.94	2.14	85	EHJ	
GRP28855	25	0354	0429	0402	N08	E12	.327	10641	26.1	35	1N		2.18				3 3 3 4	
CULG	25	0349	0447	0402	N08	E11	.317	10641	26.0	58	1N	C	0402	2.27	2.31		LG	
MITK	25	0354	0425	0402	N08	E13	.338	10641	26.1	31	1N	C	0402	2.48	2.60		E	
CRON	25	0358	0415	0401	N08	E11	.317	10641	26.0	17	-N	C	0401	1.80	2.00		E	
GRP28857	25	0439	0525	0446	N18	W03	.423	10641	25.0	46	1N		2.79				2 2 2 4	
CULG	25	0436	0535	0445	N18	W03	.423	10641	25.0	59	1B	C	0445	2.99	3.19			
MITK	25	0442	0515	0447	N18	W02	.422	10641	25.0	33	1F	C	0447	2.58	2.80		E	
GRP28858	25	0510	0708	0632	N21	W88	1.000	10638	18.6	118	1N		2.83				3 2 2 6	
KODA	25	0510	0655	0640	N19	W90	1.001	10638	18.5	105	1N	P	0644	4.62	4.60	4.28	CEKX TK	
CULG	25	0605	0708	0624	N18	W85	.999	10638	18.9	63	1N	C	0624	.62				
MANI	25	0627E	0642D		N22	W85	.999	10638	18.9	15D	1N	1	0639	1.03	3.19			
GRP28861	25	0707	0730	0716	N17	W04	.410	10641	25.0	23	-N		1.56				6 6 5 8	
BUCA	25	0700	0736	0715	N18	W04	.426	10641	25.0	36	-N	C	0715	1.76	1.90			
ZURI	25	0710	0730	0711	N17	W07	.420	10641	24.8	20	-B	C	0711	1.68	1.80			
KODA	25	0712	0726	0715	N16	W05	.397	10641	24.9	14	1F	C	0717	2.09	2.10	1.56	CEK E	
MITK	25	0720E	0725D	0722	N19	W03	.439	10641	25.1	5D	-N	C	0722	1.44	1.60			
ISTA	25	0723E	0850		N16	W03	.392	10641	25.1	87D	-N							
MANI	25	0725E	0728D		N18	W02	.422	10641	25.2	3D	-N	1	0726	.83	.92			
GRP28863	25	0918	0934	0922	N15	W03	.376	10641	25.2	16	-N		1.43				4 4 3 7	
ISTA	25	0915E	0930		N13	E01	.340	10641	25.5	15D	1F							
ZURI	25	0917	0923	0919	N16	W03	.392	10641	25.2	6	-F	C	0919	1.26	1.40			
CATA	25	0920	0925D	0920	N15	W02	.374	10641	25.2	5D	-B		0920	.87	.95	229		
CANR	25	0920E	0924D	0924U	N15	W02	.374	10641	25.2	4D	-N	C	0923	1.60	1.70			
CANR	25	0924	0958D	0936	N18	W07	.436	10641	24.9	34D	1N	C	0936	2.15	2.40			
ISTA	25	0925E	0945	0926	N16	W04	.394	10641	25.1	20D	1N							

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE 1970 MAR	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 _z	MAX. INT. %
GRP28864	25	0926	0952	0943	S18	W53	.796 10633	21.4	26	--F								
CANR	25	0926E	0952	0943	S18	W55	.816 10633	21.3	26D	-N	C	0943	.43	.70				2 2 1 4
ISTA	25	0933E	0945D		N18	W50	.765 10633	21.6	120	-F								
GRP28865	25	0940	0954	0943	S13	E12	.394 10641	26.3	14	-N								
CANR	25	0936	0958D	0943	N08	E13	.338 10641	26.4	22D	-N	C	0943	1.61	1.70				2 2 1 4
ISTA	25	0940	0950		N14	E12	.407 10641	26.3	10	1N								
CANR	25	0940	0958D	0950	N15	E12	.421 10641	26.3	18D	-F	C	0950	.97	1.10				
11 STATIONS REPORTING GROUP 28866. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP28866	25	1202	1430	1226	N14	E10	.393 10641	26.3	148	1B			3.53					9 8 6 10
SANM	25	1200E	1506	1220	N15	E10	.407 10641	26.3	186D	2B	1	P	6.80	7.32				EF
CAPE	25	1202	1355	1230	N14	E09	.386 10641	26.2	113	1B		C	1230	2.64	2.90			FH
RAMY	25	1203	1425	1232	N12	E10	.364 10641	26.3	142	1B		C		2.27				F
NERA	25	1204E	1228D	1219	N16	E11	.428 10641	26.3	24D	2B	2							
ONDR	25	1205E	1333	1220	N15	E10	.407 10641	26.3	88D	2N		V	1220			5.30		FHIJK
MCMA	25	1212E	1235D		N14	E10	.393 10641	26.3	23D	1B		C	1223	1.96	2.20			F
CANR	25	1228E	1527	1228E	N12	E09	.357 10641	26.2	179D	2N		C	1228	5.40	5.80			
CATA	25	1230E	1245D	1230	N12	E10	.364 10641	26.3	15D	1B		C	1230	2.08	2.29			251
MCMA	25	1357E	1430D		N14	E10	.393 10641	26.3	33D	-N		C	1359	.41	.50			E
CAPF	25	1420E	1435D		N13	E08	.365 10641	26.2	15D	-N		P	1425	1.24	1.32			
28866	25	1315	1424	1318	N12	E07	.344 10641	26.1	69	*-B			1.00					2 1 1 7
HUAN	25	1315E	1424U	1318U	N12	E07	.344 10641	26.1	69D	-B	2	C	1318	1.00	1.00			E
CATA	25	1330E	1405D	1338	N12	E10	.364 10641	26.3	35D	-B			1338	1.16	1.26	219		Z
28866	25	1203	1425	1224	N12	E10	.364 10641	26.3	142	*-N			.93					3 1 1 8
RAMY	25	1203	1425	1209	N12	E10	.364 10641	26.3	142	-N		C		.93				
ZURI	25	1219E	1306D	1239	N13	E09	.371 10641	26.2	47D	1B		P	1239	4.20	4.50			
CAPF	25	1253E	1315D		N13	E09	.371 10641	26.2	22D	1N		C	1257	2.27	2.42			
GRP28867	25	1350	1410	1355	S07	W28	.466 10639	23.5	20	-N			1.31					7 7 7 9
CANR	25	1344	1422	1355	S08	W28	.466 10639	23.5	38	1N		C	1355	3.20	3.60			
RAMY	25	1350	1415	1353	S07	W28	.466 10639	23.5	25	-N		C		.83				DE
HUAN	25	1350	1407	1355U	S11	W28	.469 10639	23.5	17	-B	2	C	1355	.75	.80			E
CAPE	25	1351	1408	1355	S06	W27	.452 10639	23.6	17	-N		C	1355	1.25	1.40			H
SANM	25	1352	1405	1355	S06	W28	.467 10639	23.5	13	1B	1	C		1.94	2.17			H
CATA	25	1355	1405D	1355	S05	W27	.453 10639	23.6	10D	-B		C	1355	.87	.98			H
MCMA	25	1357E	1405		S07	W27	.451 10639	23.6	8D	-N		C	1358	.31	.40			251 DH
4 STATIONS REPORTING GROUP 28868. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP28868	25	1600	1623	1604	N09	E05	.286 10641	26.0	23	-B			1.09					2 2 2 3
SANM	25	1559	1623	1604	N09	E05	.286 10641	26.0	24	-B	1	C		1.45	1.52			E
RAMY	25	1600	1622	1604	N09	E05	.286 10641	26.0	22	-N		C		.72				DE
28868	25	1558	1625	1604	N08	E16	.372 10641	26.9	27	*-N			.62					2 1 1 4
BOUL	25	1558E	1625D	1604	N08	E16	.372 10641	26.9	27D	-N		V						EH
MCMA	25	1608E	1625		N09	E05	.286 10641	26.0	17D	-N		C	1615	.62	.70			
GRP28869	25	1745	1802	1748	N20	W13	.496 10641	24.8	17	-N			.98					3 3 2 4
BOUL	25	1745	1758	1747	N20	W12	.490 10641	24.8	13	-N		S	1747		2.00			
RAMY	25	1745	1753D	1747	N20	W13	.496 10641	24.8	8D	-N		C		.83				DE
SANM	25	1745	1805	1751	N19	W13	.483 10641	24.8	20	-B	1	C		1.13	1.28			E
GRP28871	25	1922	1929	1924	S06	W31	.512 10639	23.5	7	--N			.37					3 3 2 3
BOUL	25	1921	1934	1923	S06	W31	.512 10639	23.5	13	-N		V	1923		.50			
SANM	25	1922	1927	1924	S06	W33	.542 10639	23.3	5	-B	1	C		.48	.57			D
MCMA	25	1922	1927	1924	S07	W28	.466 10639	23.7	5	-N		C	1924	.26	.30			E
4 STATIONS REPORTING GROUP 28872. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP28872	25	2008	2025	2015	N04	E89	1.000 10652	1.5	17	-B			.32					2 2 1 4
SANM	25	2004	2025	2014	N03	E89	1.000 10652	1.5	21	-B	1	C		.32				DS
MCMA	25	2012	2025	2015	N05	E89	1.000 10652	1.5	13	-N		C	2015					ADHK
28872	25	2022	2252	2105	N02	E85	.997 10652	1.2	150	*1N			.67					2 1 1 3
CULG	25	2022E	2252	2105	N02	E85	.997 10652	1.2	150D	1N		P	2105	.67				RJ
BOUL	25	2046E	2135D	2050	S02	E85	.996 10652	1.2	49D	-N		S	2050		1.50			
874 VORO	25	2318	2323	2319	S08	W34	.555 10639	23.4	5	--B		C	2319	.84	1.00			79 D 3
GRP28875	25	2355	0010	0001	S17	W62	.877 10633	21.3	15	1B			1.13					3 2 1 4
CULG	25	2355	0010D	0001	S16	W60	.860 10633	21.5	15D	1B		P	0001	1.13	2.50			H
CRON	25	2356	0002D	0025	S18	W62	.877 10633	21.3	6D	1N		C	0025	1.72	3.40			
BOUL	25	2359E	0001D	0001	S17	W63	.885 10633	21.3	2D	1N		S	0001		3.00			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	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.												
1970 MAR																		
GRP28876	26	0140	0230	0149	N17	E03	.407	10641	26.3	50	1N			1.98				5 5 5 5
CULG	26	0135	0244	0148	N17	E03	.407	10641	26.3	69	1N	C	0148	2.27				
VORO	26	0142E	0200D		N17	E01	.405	10641	26.1	18D	1N	P	0146	1.94	2.10		72	E
MITK	26	0143	0205	0149	N17	E03	.407	10641	26.3	22	1F	C	0149	2.06	2.30			E
CRON	26	0148E	0242	0150	N17	E02	.405	10641	26.2	54D	1N	C	0150	2.36	2.60			
MANI	26	0149E	0204D		N17	E06	.416	10641	26.5	15D	-F	1	0151	1.29	1.41			
GRP28877	26	0329	0420	0335	N16	W14	.450	10641	25.1	51	1N			3.81				5 4 4 5
CULG	26	0324	0421	0332	N17	W13	.455	10641	25.2	57	2N	C	0332	4.85	5.30			LSKR
CRON	26	0330	0423	0337U	N17	W14	.463	10641	25.1	53	2N	C	0337	4.80	5.50			
MITK	26	0330	0417	0334	N15	W13	.428	10641	25.2	47	1N	C	0334	3.82	4.80			E
KODA	26	0333	0338	0335	N14	W14	.423	10641	25.1	5	-B	V	0333	1.78	1.80	1.76		CE
MANI	26	0345E	0353D		N15	W15	.445	10641	25.0	8D	1N	1	0346	2.27	2.57			
GRP28878	26	0411	0455	0446	N02	E76	.972	10652	31.9	44	1N			1.15				3 3 3 4
CRON	26	0411E	0502D	0448	N01	E78	.979	10652	1.0	51D	1N	C	0448	.86	2.60			
CULG	26	0441	0454	0445	N02	E77	.976	10652	1.0	13	1N	C	0445	1.03				
KODA	26	0443E	0449	0445	N04	E73	.960	10652	31.7	6D	-N	V	0443	1.57	1.60	1.96		E
879 CRON	26	0455	0554	0512	N17	W12	.448	10641	25.3	59	--N	C	0512	.97	1.10			4
GRP28880	26	0606	0626	0612	N14	E02	.357	10641	26.4	20	-F			1.93				2 2 1 4
CRON	26	0600	0633	0612	N15	E03	.375	10641	26.5	33	1N	C	0612	1.93	2.20			
ISTA	26	0611	0618		N13	E01	.340	10641	26.3	7	-F							
GRP28881	26	0632	0649	0636	S17	W67	.914	10633	21.2	17	1N			1.69				3 3 2 4
CRON	26	0452	0833	0457	S18	W68	.921	10633	21.1	221	1F	C	0457	1.82	4.00			
CULG	26	0628	0648	0635	S16	W66	.907	10633	21.3	20	1B	C	0635	1.55				HRF
CRON	26	0633	0650	0636U	S18	W68	.921	10633	21.2	17	-F	C	0636	.54	1.20			
ISTA	26	0636	0650		S17	W67	.914	10633	21.2	14	-N							
5 STATIONS REPORTING GROUP 28882. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP28882	26	0724	0833	0748	N13	W02	.341	10641	26.2	69	-N			2.21				3 3 3 6
CRON	26	0718	0833	0746	N13	W01	.340	10641	26.2	75	-N	C	0746	3.60	3.90			
HTRP	26	0729	0812D		N13	W03	.343	10641	26.1	43D	1N	C	0752	2.00	2.10			E
CATA	26	0745E	0800D	0750	N12	W02	.325	10641	26.2	15D	-B		0750	1.04	1.11		240	Z
28882	26	0724	0818	0735	N13	E01	.340	10641	26.4	54	*-N			2.27				2 2 1 4
CULG	26	0724	0752D	0735	N12	E01	.323	10641	26.4	28D	1N	P	0735	2.27	2.31			
ISTA	26	0730E	0818		N13	E01	.340	10641	26.4	48D	-N							
GRP28883	26	0747	0802	0751	N04	E74	.964	10652	31.9	15	-B			.86				4 4 3 7
CATA	26	0745E	0800D	0750	N05	E72	.955	10652	31.7	15D	-B		0750	.58			275	Z
CRON	26	0746	0807	0752	N02	E73	.958	10652	31.8	21	1N	C	0752	1.40	3.60			
HTRP	26	0748	0800	0752	N05	E75	.969	10652	31.9	12	-N	C	0752	.60	1.50			
ISTA	26	0750	0802	0751	N02	E76	.972	10652	1.0	12	-B							
GRP28884	26	0929	0946	0935	N17	W03	.407	10641	26.2	17	1F			2.73				2 2 2 5
CAPE	26	0929	0953	0935	N17	W03	.407	10641	26.2	24	1N	C	0935	2.10	2.30			
ZURI	26	0929	0938	0934	N16	W03	.391	10641	26.2	9	1F	C	0934	3.36	3.60			
GRP28885	26	1250	1314	1254	N09	W23	.467	10641	24.8	24	-N			1.44				5 5 4 7
CANR	26	1248	1321	1254	N08	W24	.472	10641	24.7	33	-F	C	1254	1.08	1.30			
CATA	26	1250	1300D	1250	N10	W22	.464	10641	24.9	10D	-B		1250	1.09	1.25			
ONDR	26	1250E	1310		N09	W20	.430	10641	25.0	20D	-N	V	1254			1.70		CDH
SANM	26	1251	1317	1257	N09	W24	.480	10641	24.7	26	-N	1	C	.48	.55			D
WEND	26	1253E	1309		N09	W23	.467	10641	24.8	16D	1N	V		3.09				
GRP28887	26	1450	1513	1455	N09	W24	.480	10641	24.8	23	-N			1.26				6 6 5 7
ONDR	26	1450E	1518		N09	W20	.430	10641	25.1	28D	1N	V	1455			3.30		CH
LOCA	26	1450	1510	1456	N09	W23	.467	10641	24.9	20	-N	V	1456	.63	.70			
CANR	26	1450E	1503D	1455	N08	W27	.511	10641	24.6	13D	1N	C	1455	2.14	2.50			
ZURI	26	1451	1507	1455	N08	W24	.472	10641	24.8	16	-B	C	1455	1.68	1.90			
SANM	26	1451	1517	1455	N09	W26	.506	10641	24.7	26	-B	1	C	1.13	1.31			EH
RAMY	26	1456E	1456D	1456E	N08	W25	.485	10641	24.7		-N	C		.72				DE
888 RAMY	26	1732E	1743	1732E	N08	W25	.485	10641	24.9	11D	--B	C		.83				FH 3
GRP28889	26	2005	2106	2011	N06	E66	.921	10652	31.8	61	1B			5.20				3 2 1 3
RAMY	26	2004	2123	2012	N07	E68	.935	10652	31.9	79	1B	C						U
HOUT	26	2005	2030	2010U	N05	E64	.906	10652	31.6	25	2N	C		5.20	10.60			E
CULG	26	2025	2126	2025	N06	E64	.907	10652	31.7	61	2N	P	2025	4.23				
CULG	26	2033	2200	2059	N01	E69	.935	10652	1.0	87	1B	C	2059	1.03				
890 RAMY	26	2048	2100	2050	N09	W29	.544	10641	24.7	12	--N	C		.93				DE 3
	26	2315	2320	NO FLARE PATROL														

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	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. %
1970 MAR																		
GRP28891	26	2338	0002	2340	N18	W28	.604	10641	24.9	24	-N						3 3 3 3	
CULG	26	2336	0011	2339	N19	W27	.603	10641	25.0	35	1N	C	2339	1.63	2.06	2.56	L	
CRON	26	2338	2356	2340	N18	W29	.614	10641	24.8	18	-N	C	2340	1.40	1.80			
MANI	26	2339	2359	2341	N18	W28	.604	10641	24.9	20	-N	2	2341	1.44	1.77			
GRP28894	27	0207	0243	0212	N19	W29	.623	10641	24.9	36	-N						2 2 2 4	
CULG	27	0207	0243	0213	N20	W29	.631	10641	24.9	36	1N	C	0213	1.96	2.37	2.94		
MANI	27	0208E	0219D	0211	N18	W28	.604	10641	25.0	11D	-N	3	0211	1.55	1.89			
GRP28898	27	0754	0807	0800	N04	E59	.865	10652	31.8	13	-N						3 3 2 6	
ISTA	27	0750	0805		N04	E60	.873	10652	31.8	15	-N							
CATA	27	0755	0810D	0800	N05	E57	.849	10652	31.6	15D	-E		0800	.46	.93		275	
HTPR	27	0756	0805	0759	N04	E60	.873	10652	31.8	9	-F	C	0759	.80	1.60			
	27	1034	1039	NO FLARE PATROL														
GRP28901	27	1120	1149	1123	N18	W15	.483	10641	26.3	29	--N						2 2 2 5	
CANR	27	1117	1149	1120	N17	W15	.470	10641	26.3	32	-N	C	1120	.43	.54	.60		
RAMY	27	1122	1134D	1126	N18	W15	.483	10641	26.3	12D	-N	C		.31			DE	
GRP28902	27	1223	1244	1233	N03	E57	.846	10652	31.8	21	--F						2 2 2 5	
CANR	27	1218	1244	1233	N02	E57	.844	10652	31.8	26	-N	C	1233	.36	.40	.70		
SANM	27	1228	1243	1232	N04	E57	.844	10652	31.8	15	-F	1	C		.32	.59		E
GRP28903	27	1230	1330	1240	N16	W17	.475	10641	26.2	60	1N						6 5 5 7	
LVOV	27	1108E	1331D	1233	N17	W14	.462	10641	26.4	143D	1N	C	1233	2.05	2.78	3.36	54	
CANR	27	1211	1415	1238	N15	W18	.472	10641	26.2	124	1N	C	1238	2.14	2.40		EK	
SANM	27	1229	1345	1240	N16	W17	.475	10641	26.2	76	1N	1	C		2.27	2.59		EL
HTPR	27	1232	1315	1239	N16	W19	.493	10641	26.1	43	-N	C	1238	1.50	1.70		EW	
UCCL	27	1238E	1239D		N18	W18	.508	10641	26.2	1D	1N	P	1238	1.55	2.20			
RAMY	27	1247E	1251D	1249U	N17	W17	.487	10641	26.3	4D	-N	C		1.44			F	
GRP28904	27	1420	1438	1423	N13	W18	.449	10641	26.2	18	--N						3 3 3 8	
CANR	27	1418	1452	1424	N14	W19	.471	10641	26.2	34	-N	C	1424	.86	1.00			
RAMY	27	1420	1431	1422	N13	W18	.449	10641	26.2	11	-N	C		.93			F	
SANM	27	1421	1430	1424	N13	W17	.439	10641	26.3	9	-F	1	C		.80	.90		E
GRP28905	27	1429	1445	1432	N04	E55	.829	10652	31.7	16	--F						2 2 2 6	
CANR	27	1428	1445	1432	N04	E55	.829	10652	31.7	17	-N	C	1432	.37	.33	.60		
RAMY	27	1429	1444	1432	N04	E55	.829	10652	31.7	15	-F	C		.41			DE	
GRP28906	27	1558	1613	1601	N13	W17	.439	10641	26.4	15	--F						3 3 3 3	
CANR	27	1557	1612D	1601	N13	W17	.439	10641	26.4	15D	-N	C	1601	.37	.43	.50		
SANM	27	1559	1611	1601	N14	W17	.451	10641	26.4	12	-F	1	C		.32	.35		E
RAMY	27	1559	1616	1602	N12	W17	.427	10641	26.4	17	-F	C		.36			DE	
GRP28907	27	1801	1830	1810	N07	E49	.775	10652	31.4	29	--F						2 2 2 2	
RAMY	27	1801	1831	1810	N07	E49	.775	10652	31.4	30	-F	C		.42	.52		DE	
SANM	27	1805E	1828		N06	E49	.772	10652	31.4	23D	-F	1	P	1820	.32	.51		E
909 BOUL	27	2119	2130	2120	N14	E52	.825	10652	31.8	11	-F	S	2120		2.00		3	
GRP28911	27	2323	0008	2328	N17	W23	.543	10641	26.2	45	-N						2 2 2 3	
CULG	27	2321	0008	2327	N17	W22	.533	10641	26.3	47	1N	C	2327	1.86	2.89	3.36	LHK	
MANI	27	2324	2331D	2328	N16	W23	.533	10641	26.3	7D	-N	2	2328	.83	.98			
GRP28913	28	0410	0435	0414	N18	W24	.563	10641	26.4	25	-N						3 3 3 5	
MANI	28	0410	0434	0415	N17	W24	.553	10641	26.4	24	-N	2	0415	1.46	1.03	1.22		
CRON	28	0410	0428	0415	N20	W24	.583	10641	26.4	18	-N	C	0415	1.08	1.30			
CULG	28	0410	0444	0413	N18	W25	.573	10641	26.3	34	1N	C	0413	2.27	2.75			
	28	2125	2128	NO FLARE PATROL														
916 CULG	28	2128E	2137		N17	W53	.843	10641	24.9	9D	1N	P	2135	1.34	2.37		1	
	28	2137	2155	NO FLARE PATROL														
917 MANI	28	2323	2358	2329	S09	W28	.467	10646	26.9	35	-N	2	2329	.93	1.06		2	
GRP28918	29	0032	0156	0046	N13	W37	.665	10641	26.2	84	2B						6 5 4 6	
CRON	29	0009	0225	0048	N14	W36	.660	10641	26.3	136	2N	C	0048	8.09	8.00	10.72		
MANI	29	0010	0155	0043	N13	W36	.654	10641	26.3	105	2B	3	0043	7.22	9.70			
CULG	29	0011	0027	0014	N14	W36	.660	10641	26.3	16	1N	C	0014	2.06	2.70			
CULG	29	0031	0233	0048	N14	W37	.671	10641	26.2	122	2B	C	0048	9.08	11.88		R	
HITK	29	0032	0142D	0043	N13	W38	.677	10641	26.2	70D	2B	C	0043	8.04	10.90		R	
SIBE	29	0041E	0136		N13	W39	.688	10641	26.1	55D	2N	V					F	
KODA	29	0140	0203	0157	N15	W38	.688	10641	26.2	23	2B	P	0149	9.69	9.70	1.68	IK	

SOLAR FLARES
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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 Rg	MAX. INT. %		
	1970 MAR																		
GRP28925	29	1632	1643	1634	S12	E82	.987	10654	4.8	11	-N			.32				3 2 1 5	
RAMY	29	1631	1643	1634	S12	E80	.981	10654	4.7	12	-N	C						DE	
SANM	29	1632	1643	1634	S11	E84	.992	10654	5.0	11	-N	2 C		.32					
ONDR	29	1639E	1646		S13	E90	1.000	10654	5.4	80	1N	V	1639			2.70		CH	
GRP28926	29	1852	1933	1905	N17	W64	.924	10641	25.0	41	--N			.36				2 2 1 2	
RAMY	29	1851	1933	1905	N17	W63	.918	10641	25.1	42	-N	C						F	
MCMA	29	1852	1916D		N17	W65	.930	10641	24.9	240	-N	P	1910	.36	1.00			E	
927 CULG	29	2108	2151		N16	W67	.940	10641	24.9	43	1N	P	2123	1.86				1	
	29	2131	2137	NO FLARE PATROL															
928 VORO	29	2354	0005	2355	N20	W34	.679	10647	27.4	11	--B	C	2355	.56	.75		76	EJ	2
GRP28930	30	0134	0210	0145	N21	W67	.947	10641	25.0	36	1N			2.06				2 1 1 5	
CULG	30	0134	0210	0145	N21	W67	.947	10641	25.0	36	1N	P	0145	2.06					
CRON	30	0139	0210		N20	W67	.946	10641	25.0	31	1F	V		1.25					
GRP28932	30	0610	0632	0612	S08	W46	.715	10646	26.8	22	--F			.52				2 1 1 3	
MANI	30	0610	0632	0612	S08	W46	.715	10646	26.8	22	-F	1	0612	.52	.75				
BUCA	30	0615E	0645	0630	S09	W47	.726	10646	26.7	300	-N	P	0630	.66	.90				
GRP28933	30	0623	0724	0632	N16	W52	.831	10641	26.4	61	-N			1.80				4 2 2 5	
MANI	30	0622	0702	0633	N16	W51	.822	10641	26.4	40	-N	2	0633	.83	1.40				
BUCA	30	0623	0745	0630	N16	W52	.831	10641	26.4	82	1N	C	0630	2.76	4.90				
CRON	30	0629	0707		N15	W54	.846	10641	26.2	36	1N	V		1.86					
CULG	30	0649E	0740		N17	W53	.843	10641	26.3	510	1N	P	0649	1.86	3.42				
GRP28937	30	0950	1021	0959	S09	W48	.738	10646	26.8	31	-N			1.59				5 5 5 6	
CAPE	30	0945	1020	0957	S08	W48	.738	10646	26.8	35	-N	C	0957	1.12	1.70				
ZURI	30	0950	1010D	0957	S08	W49	.750	10646	26.7	200	-B	C	0957	1.11	1.60				
CAPP	30	0950E	1010D		S10	W48	.738	10646	26.8	200	1N	P	0954	2.48	3.60				
MONT	30	0952E	1014	0957	S09	W49	.750	10646	26.7	220	-N	C	0957	2.27					
CATA	30	0955	1030	1005	S08	W48	.738	10646	26.8	35	-N		1005	.98	1.47	170		T	
GRP28947	31	1501	1527	1507	S19	W31	.539	10648	29.3	26	--N			.71				3 3 3 6	
CAPE	31	1500	1525	1507	S20	W32	.556	10648	29.2	25	-F	C	1507	1.03	1.20				
SANM	31	1501	1525	1507	S18	W30	.521	10648	29.4	24	-N	1 C		.80	.97			E	
MCMA	31	1502	1530	1506	S20	W31	.543	10648	29.3	28	-N	C	1506	.31	.40			E	
GRP28949	31	1619	1627	1623	S10	E83	.990	10661	6.9	8	--F			.35				2 2 2 5	
SANM	31	1619	1625	1622	S09	E85	.995	10661	7.1	6	-N	1 C		.32				D	
HUAN	31	1619U	1628	1623U	S10	E80	.982	10661	6.7	90	-F	2 C	1623	.37				E	
950 RAMY	31	1749	1806	1751	N04	E08	.230	10652	1.3	17	--F	C		.31				DE	3
GRP28951	31	1753	1901	1813	S12	E45	.703	10654	4.1	68	2B			4.18				4 4 4 4	
SANM	31	1749	1901	1812	S12	E46	.715	10654	4.2	72	2B	1 C		4.53	6.40			CIL	
RAMY	31	1756	1901	1808	S13	E45	.704	10654	4.1	65	2B	C		4.74				F	
MCMA	31	1805E	1814D		S12	E45	.703	10654	4.1	90	1N	C	1812	1.65	2.30			FL	
CANR	31	1811E	1832D	1819	S12	E45	.703	10654	4.1	210	2B	C	1819	5.80	8.40				
GRP28952	31	1937	1947	1940	S10	E81	.985	10661	6.9	10	-N			.32				2 2 1 2	
SANM	31	1935	1946	1941	S09	E82	.988	10661	7.0	11	-N	1 C		.32				D	
RAMY	31	1938	1948	1939	S10	E80	.982	10661	6.8	10	-N	C						DE	
953 RAMY	31	1943	1949	1946	N06	E04	.229	10652	1.1	6	--F	C		.57				DE	2
954 CULG	31	2214	2251	2225	S12	E78	.974	10661	6.8	37	1N	C	2225	.77					2

In the importance column "-" signifies the subflare has been confirmed by the ESSA 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
700301	630.85	22.1	700311	46.36	24.0	700321	169.72	24.0
700302	320.75	24.0	700312	248.37	24.0	700322	104.65	24.0
700303	179.46	24.0	700313	43.02	23.7	700323	58.65	24.0
700304	82.73	23.4	700314	25.93	23.8	700324	366.92	24.0
700305	82.51	23.4	700315	0.00	23.6	700325	239.19	24.0
700306	73.72	24.0	700316	30.53	24.0	700326	384.09	23.9
700307	778.65	23.8	700317	18.17	23.8	700327	62.81	23.9
700308	35.98	22.4	700318	61.99	23.7	700328	25.29	23.6
700309	61.61	24.0	700319	30.94	23.0	700329	364.22	23.9
700310	118.59	24.0	700320	1.38	24.0	700330	52.84	24.0
						700331	95.89	24.0

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

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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	MC MATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	
GRP28464	03	0846	0908	0849	N07	E22	.441	10607	5.0	22	1N		1.29				2 2 1 6
NERA	03	0845E	0851D		N08	E21	.437	10607	4.9	6D	2N 2						
MANI	03	0846	0903	0849	N06	E25	.473	10607	5.2	17	-N 2	0849	1.29	1.40			
MANI	03	0900	0913	0905	N06	E22	.433	10607	5.0	13	-N 2	0905	.31	.33			
468 SANM	03	1314	1325	1316	N08	E23	.462	10607	5.3	11	-F 2 C		.48	.54			E 4
471 SANM	03	1617	1626	1619	N15	W63	.915	10595	27.0	9	-F 2 C		.32				DK 4
472 HOUT	03	1618	1635	1622U	S14	E75	.960	10618	9.3	17	2B C		3.60	9.50			4
473 BOUL	03	1715	1730D	1717	S12	E40	.639	10614	6.7	15D	-N V						4
475 SANM	03	1744	1753	1749	N05	E13	.306	10607	4.7	9	-F 2 C		.32	.34			D 4
477 SANM	03	1903	1914D	1907	N17	W68	.948	10595	26.7	11D	-F 2 P		.48				E 3
479 BOUL	03	1921	1940	1924	N15	W61	.902	10595	27.2	19	-F V						3
484 BOUL	03	2150E	2207	2150	N10	W02	.298	10606	3.8	17D	-F S						4
487 MANI	04	0144	0245	0202	N07	E12	.319	10607	5.0	61	-N 3	0202	.31	.33			4
488 MANI	04	0210	0234		N05	E11	.283	10607	4.9	24	-F 3	0211	1.13	1.20			4
489 MANI	04	0228	0256D	0233	N15	W66	.934	10595	27.2	28D	-F 2	0233	.31	.85			4
490 CULG	04	0230	0257	0245	S11	E81	.984	10618	10.2	27	1F C	0245	.62				4
491 MANI	04	0247	0256	0251	N03	E11	.259	10607	4.9	9	-F 3	0251	.41	.43			4
493 ABST	04	0556E	0610	0559	N11	E26	.525	10607	6.2	14D	-N P	0559	.90	1.00			DGH 5
GRP28494	04	0636	0725	0642	N06	E12	.307	10607	5.2	49	-F		.90				2 1 1 6
ABST	04	0636	0710	0642	N07	E14	.341	10607	5.3	34	-F C	0642	.90	.90			D
ISTA	04	0700E	0740		N04	E09	.248	10607	5.0	40D	-B						
495 TACH	04	0702	0708	0704	N15	W70	.955	10595	27.0	6	1N C	0704	.55		104		D 5
496 ISTA	04	0710	0815		S10	E47	.726	10614	7.8	65	-B						5
GRP28497	04	0710	0805		S15	W36	.589	10602	1.6	55	-B						1 1 0 5
ISTA	04	0710E	0800		S16	W39	.631	10602	1.4	50D	-B						
ISTA	04	0710E	0805		S15	W34	.562	10602	1.7	55D	-F						
500 CATA	04	1505E	1525D	1515	N04	E08	.238	10607	5.2	20D	-B	1515	.40	.42		204	4
507 BOUL	04	2006E	2020		N12	W82	.994	10595	26.7	14D	-N S	2007		1.00			2
510 MANI	04	2342E	0003D	2344	N13	W78	.985	10595	27.1	21D	-F 3	2344	.21	.53			6
513 CRON	05	0540	0615	0550U	N14	W90	1.000	10595	26.5	35	2B C	0550	1.90	7.60			5
514 MANI	05	0740	0752	0746	N06	W06	.251	10607	4.9	12	-N 3	0746	.21	.21			6
515 RAMY	05	1221	1229	1223	S12	E80	.981	10618	11.5	8	-N C						DE 4
517 RAMY	05	1350	1356	1351	N05	W12	.295	10607	4.7	6	-N C		.26				DE 4
519 RAMY	05	1511	1520	1514	N14	W90	1.000	10595	26.9	9	-F V						DE 4
520 RAMY	05	1533	1540	1537	S12	E73	.951	10618	11.1	7	-F C						DE 4
531 MANI	06	0433	0451D	0435	N06	E26	.487	10616	8.1	18D	-N 1	0435	.72	.80			5
533 CATA	06	0715	0725	0715	N05	W17	.357	10607	5.0	10	-B	0715	.17	.19		209	8
535 HTPR	06	1049	1053	1051	S12	E58	.841	10618	10.8	4	-F C	1051	.31	.50			4
543 BOUL	06	1919	1934	1922	S13	E62	.876	10618	11.5	15	-F V	1922		1.00			3
547 BOUL	06	2330	2340	2331	N07	W29	.534	10607	4.8	10	-F V	2331		.80			3
551 TEHR	07	0525E	0537D	0530	N06	W28	.514	10607	5.1	12D	-F						5
552 TEHR	07	0540E	0547D	0547	N07	W31	.560	10607	4.9	7D	-F						4
553 TEHR	07	0554E	0610D		S15	W78	.973	10602	1.4	16D	-F						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. 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. %	
554 TEHR	07	0555E	0603D		N08	W31	.566	10607	4.9	80	-F							5
GRP28555	07	0603	0610		N08	W33	.591	10607	4.8	7	-F							1 1 0 5
TEHR	07	0603	0607D		N08	W33	.591	10607	4.8	40	-F							
TEHR	07	0607	0610D		N09	W33	.597	10607	4.8	30	-F							
556 TEHR	07	0620	0635D	0625	S16	W76	.964	10602	1.6	15D	-F							8
557 TEHR	07	0620	0635D	0630	N07	W32	.573	10607	4.9	15D	1F							8
559 TEHR	07	0635	0705D		S12	E67	.914	10625	12.3	30D	-F							7
560 TEHR	07	0655	0700D	0657	N04	W30	.530	10607	5.0	5D	-F							9
561 TEHR	07	0700E	0707D		N06	W32	.567	10607	4.9	7D	-F							10
562 TEHR	07	0710	0715D		S11	E07	.137	10614	7.8	5D	-F							10
566 CATA	07	0820	0845	0825	S33	W75	.959	10621	1.7	25	-N	0825	.69			190		9
568 MANI	07	0849	0906D		S20	W73	.949	10621	1.9	17D	-N	0852	.72	1.62				11
569 TEHR	07	0900E	0920D	0911	S13	E42	.665	10618	10.5	20D	-F							11
GRP28570	07	0915	0955		N07	W30	.547	10607	5.1	40	-F							1 1 0 8
TEHR	07	0915E	0955D		N06	W28	.514	10607	5.3	40D	-F							
TEHR	07	0917E	0943D		N08	W33	.591	10607	4.9	26D	-F							
571 TEHR	07	0922E	0940D		N07	W31	.560	10607	5.1	18D	-F							8
575 TEHR	07	1055E	1110D		S14	W46	.715	10605	4.0	15D	-F							7
577 ONDR	07	1324E	1340		S36	W70	.937	10621	2.3	16D	1F	V	1329			2.10	ACD	5
GRP28578	07	1345	1401	1350	S08	E00	.013	10614	7.6	16	-F			.72				2 2 1 7
RAMY	07	1344	1403	1349	S06	W01	.028	10614	7.5	19	-F	C		.72			DE	
BOUL	07	1346	1358	1351	S10	E01	.051	10614	7.6	12	-N	V						
GRP28579	07	1522	1533	1524	S22	W86	.994	10602	1.2	11	-F							2 2 0 8
BOUL	07	1521	1531	1524	S21	W83	.987	10602	1.4	10	-N	V						
RAMY	07	1523	1535D		S23	W88	.997	10602	1.0	12D	-F	C					DE	
GRP28581	07	1818	1827	1819	N05	W36	.615	10607	5.1	9	-N							1 1 0 2
BOUL	07	1818	1823	1819	N04	W38	.637	10607	4.9	5	-N	V						
BOUL	07	1822	1827	1824	N06	W35	.607	10607	5.1	5	-F	V						
582 BOUL	07	1844	1849	1846	N06	W36	.620	10607	5.1	5	-N	V						2
583 BOUL	07	1858	1902	1859	N08	W38	.654	10607	4.9	4	-N	V						2
588 BOUL	07	2159	2210	2200	S15	E37	.603	10618	10.7	11	-F	V	2200		.80			3
590 MANI	08	0108	0134	0111	N09	W41	.694	10607	5.0	26	-F	2	0111	.93	1.30			4
591 MANI	08	0150	0159	0153	S12	E37	.598	10618	10.9	9	-F	2	0153	.62	.68			4
592 MANI	08	0310	0327	0316	S12	W06	.132	10614	7.7	17	-F	2	0316	.26	.27			4
593 MANI	08	0641	0659	0649	N08	W49	.779	10607	4.6	18	-F	2	0649	.31	.33			5
596 TEHR	08	0940E	0945D		N07	W44	.721	10607	5.1	5D	-F							9
597 TEHR	08	0950E	1000D	1000	S17	E30	.513	10618	10.7	10D	-F							9
599 CANR	08	1230	1335D	1305U	S27	E65	.902	10625	13.4	65D	2F	C	1305	3.90	8.20		L	6
602 ONDR	08	1409E	1429		N12	W54	.839	10607	4.5	20D	-N	V	1415			2.10	CD	4
603 CANR	08	1425	1441	1435	S22	W90	.999	10621	1.9	16	1N	C	1435		2.40			5
609 MANI	09	0009	0048	0017	S19	W89	.998	10621	2.3	39	-F	3	0017	.31	.90			5
610 CULG	09	0032	0135	0052	N07	W52	.807	10607	5.1	63	2F	C	0052	3.20	5.27		S	5
611 MANI	09	0102	0119	0106	S13	E25	.427	10618	10.9	17	-F	3	0106	.83	.92			5
612 MANI	09	0242	0255	0247	S16	E21	.380	10618	10.7	13	-F	3	0247	.31	.34			5
617 RAMY	09	1130	1138	1131	S13	W23	.396	10614	7.8	8	-F	C		.21			DE	6

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 MAR	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 Hc	MAX. INT. %		
GRP28751 HUAN CANR	19	1425	1448	1433	S01	W58	.849 10630	15.3	23	-F			.24				2 2 2 8	
	19	1420E	1455D	1433U	S00	W60	.868 10630	15.1	35D	-F	2 C	1433	.25	.50			D	
	19	1430	1441	1433	S01	W56	.831 10630	15.4	11	-F	C	1433	.22	.40				
752 SANM	19	1519	1529	1524	S04	E53	.797 10639	23.6	10	-F	1 C		.17	.27			E 7	
753 SANM	19	1612	1638	1621	N11	E74	.970 10641	25.2	26	-F	1 C		.48				D 6	
754 BOUL	19	1721	1745D	1722	S04	W59	.855 10630	15.3	24D	-F	V	1722		1.00			6	
756 SANM	19	2032	2041D		N19	E69	.955 10641	25.0	9D	1F	1 P	2039	.97				E 2	
758 MITK	20	0024	0049	0026	N18	E66	.938 10641	25.0	25	1F	C	0026	.93				EH 4	
759 KODA	20	0305	0355	0351	N22	E63	.928 10641	24.9	50	-N	P	0316	1.79	1.80	1.72		CDK 3	
760 CULG	20	0613E	0626D	0621	N25	E82	.997 10641	26.4	13D	1F	P	0621	.62				2	
761 SANM	20	1206	1220	1208	N15	E66	.934 10641	25.5	14	1N	1 C		.97				E 6	
763 SANM	20	1517	1525	1520	N14	E60	.892 10641	25.1	8	-N	1 C		.17	.34			D 6	
764 SANM	20	1602	1630	1605	N12	E70	.952 10641	25.9	28	-N	1 C		.17				D 5	
765 SANM	20	1622	1636	1624	N16	W25	.557 10638	18.8	14	-N	1 C		.17	.20			D 4	
766 MCMA	20	1656E	1658D		N17	W25	.566 10638	18.8	2D	-N	P	1656	.52	.60			E 4	
770 CULG	20	2301	0018	2342	S03	W80	.984 10630	15.0	77	1N	C	2342	.93				R 5	
773 SIBE	21	0243E	0309		N22	E90	1.001 10647	27.9	26D	-N	V						H 5	
776 MANI	21	0503E	0517D	0510	S17	W02	.177 10633	21.1	14D	-F	2	0510	.46	.47			5	
777 CULG	21	0631	0735	0643	N11	E61	.894 10641	25.8	64	1N	C	0643	1.44	3.08			LH 5	
781 MONT	21	1006	1021	1012	S02	W82	.990 10630	15.3	15	-N	C	1012	.21				9	
782 SANM	21	1209	1219	1211	N16	E55	.858 10641	25.6	10	-N	1 C		.17	.38			D 6	
783 SANM	21	1250	1305	1252	N20	E44	.777 10641	24.8	15	-B	1 C		.48	.75			E 8	
784 SANM	21	1310	1320	1312	N19	E46	.791 10641	25.0	10	-N	1 C		.32	.52			D 8	
GRP28785 RAMY SANM	21	1335	1349	1339	N18	E44	.767 10641	24.9	14	-N			.48				2 2 2 9	
	21	1335	1352	1340	N17	E44	.762 10641	24.9	17	-F	C		.31				DE	
	21	1335	1345	1337	N19	E44	.772 10641	24.9	10	-B	1 C		.65	.97			E	
794 MITK	22	0105	0122	0114	S03	W90	1.000 10630	15.3	17	1F	C	0114	.72				4	
795 MANI	22	0426	0443	0429	N09	E57	.857 10641	26.5	17	-N	4	0429	1.03	1.78			4	
796 CULG	22	0453E	0509D		N18	W79	.990 10628	16.3	16D	1F	P	0453	.67				4	
797 MANI	22	0558E	0616D		N17	W76	.981 10628	16.5	18D	-F	3	0601	.31	.78			4	
798 ISTA	22	0610E	0730		N10	W75	.973 10630	16.6	80D	-N							6	
799 MANI	22	0754E	0801D		N20	E48	.813 10641	25.9	7D	-F	2	0755	1.03	1.72			7	
801 SANM	22	1246	1253	1249	N16	E30	.610 10641	24.8	7	-F	1 C		.17	.21			D 6	
810 BOUL	22	2039	2055D	2043	N17	W52	.836 10638	19.0	16D	-N	V						2	
811 CULG	22	2143	2205	2149	N18	W55	.864 10638	18.8	22	1N	C	2149	1.44	2.80			3	
813 MANI	22	2329	2350	2333	N18	W55	.864 10638	18.9	21	-F	3	2333	1.03	1.85			6	
815 MANI	23	0000	0033	0007	S06	E04	.071 10639	23.3	33	-F	3	0007	.52	.52			5	
820 MITK	23	0555	0607	0600	N16	W59	.889 10638	18.8	12	-F	C	0600	.83	1.80			E 7	
821 MITK	23	0605	0620	0611	S06	E03	.055 10639	23.5	15	-F	C	0611	.72	.70			DH 7	
822 ISTA	23	0650	0730	0710	N15	E39	.700 10641	26.2	40	-B							6	
823 ISTA	23	0655	0707		N17	W65	.931 10638	18.4	12	-F							6	
824 ISTA	23	0657	0715		S08	E02	.039 10639	23.4	18	-N							6	

SOLAR FLARES

Unconfirmed

MARCH 1970

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 α	MAX. INT. %	
920 MANI	29	0328	0347	D 0332	S08	W32	.526	10646	26.7	19D	-F	1	0332	.52	.60			5
921 RAMY	29	1203	1218	1208	N17	W60	.898	10641	25.0	15	-F	C		.62				F 5
922 CANR	29	1309E	1350	1312	S10	W36	.584	10646	26.8	41D	-F	C	1312	.30	.40			5
923 CANR	29	1345	1410	D 1357	N04	E24	.442	10652	31.4	25D	-F	C	1357	.54	.60			8
924 SANM	29	1416	1426	1417	N20	W60	.904	10641	25.1	10	-F	1	C	.32	.64			D 6
929 VORO	30	0025	0036	D 0028	N20	W34	.679	10647	27.5	11D	-B	C	0028	1.02	1.36		76	EJ 2
931 MANI	30	0358	0415	0403	S08	W42	.665	10646	27.0	17	-N	1	0403	.62	.85			5
934 CANR	30	0731	0745	D 0736	N18	W40	.726	10647	27.3	14D	-F	C	0736	.26	.40			8
935 CANR	30	0732	0745	D 0745	S00	W82	.990	10639	24.2	13D	-F	C	0745	.22	.70			8
GRP28936	30	0916	0940	0922	S14	E65	.900	10654	4.3	24	-N			.64				
MANI	30	0912	0940	0919	S12	E65	.901	10654	4.3	28	-F	2	0919	.52	1.04			2 2 2 8
CATA	30	0920	0930	D 0925	S15	E65	.900	10654	4.3	10D	-B		0925	.75	1.66		240	
938 CATA	30	1050	1105	1055	N14	W52	.825	10641	26.6	15	-N		1055	.58	.94		195	5
939 RAMY	30	1550	1613	1553	S10	E90	1.000	10661	6.4	23	-N	C						DE 5
940 RAMY	30	1658	1708	D 1703	S09	W53	.794	10646	26.7	10D	-F	C		.62				DE 4
941 CULG	30	2351	0018	0002	S04	E65	.904	10654	4.9	27	1N	C	0002	1.03				3
942 MANI	31	0430	0448	0437	N02	E02	.154	10652	31.3	18	-F	2	0437	.26	.26			4
943 MANI	31	0435	0455	0438	N04	E16	.328	10652	1.4	20	-F	2	0438	.62	.65			4
944 MANI	31	0536	0602	0539	S02	W14	.254	10649	30.2	26	-F	2	0539	.31	.32			3
GRP28945	31	0645	0717	0649	S12	E86	.996	10661	6.7	32	-F							
HURB	31	0645	0657	0649	S12	E86	.996	10661	6.7	12	1N					1.90		2 2 0 6
ISTA	31	0650E	0736		S11	E85	.994	10661	6.7	46D	-F							
GRP28946	31	1227	1236	1231	N14	E78	.985	10676	6.4	9	-F			.35				
SANM	31	1226	1236	1231	N14	E78	.985	10676	6.4	10	-F	1	C	.48				2 2 2 9
RAMY	31	1228	1235	1230	N14	E78	.985	10676	6.4	7	-F		C	.21				D DE
948 SANM	31	1539	1551	1544	S06	E07	.122	10652	1.2	12	-F	1	C	.17	.17			E 7

Note:

A line of explanation has been added before each flare event having more than one maxima. The total number of stations reporting some part of the event is given. The number of stations observing at the time of the principal maximum but not reporting the event is given in the second statement. Care should be exercised in utilizing the numbers in the remarks column. The first number is the number of stations reporting the individual maximum, and not the total number of stations reporting some part of the flare event. The last number is the number of stations reporting at the time of the individual maximum and not necessarily the total number of stations observing during the flare event. GRP numbers may appear several times in order to indicate secondary maxima. An asterisk beside an importance indicates a secondary maximum. The word "GRP" has also been omitted to aid in pointing to this condition.

When it is impossible to determine the time of Maximum Phase from the individual reports the time of Area Measurements is used. This time appears in parentheses. For Flares reported by only one station the last 3 digits of the group number appear to the left of the station code.

"Remarks":

- A = Eruptive prominence, base at >90°.
- 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 spots visible in the neighborhood.
- H = Flare with high velocity dark surge.
- I = Very extensive active region.
- J = Flare with flare shows marked intensity variations.
- K = Several intensity maxima.
- L = Filaments show effects of sudden activation.
- M = White-light flare.

- N = Continuous spectrum shows effects of polarization.
- O = Observations have been made in the calcium II lines H or K.
- P = Flare shows helium D₃ in emission.
- Q = Flare shows the Balmer continuum in emission.
- R = Marked asymmetry in H α line.
- S = Brightening follows disappearance of filament (same position).
- T = Region active all day.
- U = Close and somewhat parallel bright filaments (|| or Y shape).
- V = Occurrence of an explosive phase.
- W = Great increase in area after time of maximum intensity.
- X = Unusually wide H α emission.
- Y = Onset of a system of loop-type prominences.
- Z = Major sunspot umbra covered by flare.