

SOLAR FLARES

Confirmed

DECEMBER 1969

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 Hc	MAX. INT. %
					LAT.	MER. DIST.												
GRP26845	01	0014	0035	0018	N23	E00	.376	10447	1.0	21	-B						4 4 4 5	
MITK	01	0013	0036	0019	N23	E01	.376	10447	1.1	23	-B						E	
MANI	01	0014	0038	0018	N23	E02	.377	10447	1.2	24	-N	3						
VORO	01	0014	0027	0017	N23	E00	.376	10447	1.0	13	-B						88	
CULG	01	0024E	0039		N22	W02	.361	10447	30.9	150	1N						E L	
GRP26847	01	0551	0633	0604	N15	W08	.278	10448	30.6	42	1N						3 3 3 3	
MITK	01	0548	0636D	0608	N15	W07	.271	10448	30.7	48D	1N						F	
CULG	01	0552E	0627D	0606	N16	W09	.301	10448	30.6	35D	2N						U	
CRON	01	0553	0630	0558	N14	W07	.256	10448	30.7	37	1N							
GRP26859	01	1110	1134	1114	N12	W13	.293	10448	30.5	24	--N						3 2 2 3	
SANM	01	1110	1133	1115	N12	W13	.293	10448	30.5	23	-N	2					E	
HTPR	01	1110	1135	1113	N12	W13	.293	10448	30.5	25	-N						E	
RAMY	01	1128E	1201	1128	N14	W12	.304	10448	30.6	33D	-F							
GRP26860	01	1127	1215	1136	N20	E80	.986	10459	7.5	48	--F						2 2 1 3	
HTPR	01	1125	1225	1135	N20	E80	.986	10459	7.5	60	-F						E	
SANM	01	1129	1204	1137	N20	E80	.986	10459	7.5	35	-F	2						
861 SANM	01	1149	1153	1150	S12	W09	.271	10449	30.8	4	--F	2					D	
GRP26862	01	1203	1416	1209	S21	E42	.726	10455	4.7	133	--F						3 3 3 4	
SANM	01	1203	1220	1209	S21	E42	.726	10455	4.7	17	-F	2					E	
HTPR	01	1203	1220	1208	S20	E40	.700	10455	4.5	17	-F						H	
RAMY	01	1206E	1416	1210	S21	E44	.746	10455	4.8	130D	-F							
863 RAMY	01	1301E	1331	1307	N22	W07	.377	10447	1.0	30D	--F						3	
GRP26864	01	1336	1411	1342	N22	E39	.687	10456	4.5	35	1N						5 3 3 5	
HTPR	01	1335	1400	1342	N22	E38	.676	10456	4.4	25	1F							
RAMY	01	1335	1418	1342	N22	E40	.698	10456	4.6	43	1N							
CAPE	01	1336	1410	1345	N21	E40	.693	10456	4.6	34	1N							
SANM	01	1337	1416	1342	N22	E39	.687	10456	4.5	39	-N	2					E	
LOCA	01	1341	1354	1345	N14	E51	.789	10456	5.4	13	-F						G	
868 RAMY	01	1937	1951	1939	S22	E37	.679	10455	4.6	14	--F						2	
GRP26870	01	2012	2036	2016	N17	E68	.932	10459	6.9	24	--F						2 2 1 3	
BOUL	01	2011	2040	2016	N15	E65	.911	10459	6.7	29	-N							
RAMY	01	2013	2032	2015	N19	E71	.950	10459	7.2	19	-F							
GRP26878	02	0939	0955	0945	S13	W24	.462	10449	30.6	16	-N						4 4 4 7	
HTPR	02	0937	0950	0942	S13	W24	.462	10449	30.6	13	-N							
CATA	02	0940	1005	0945	S12	W22	.428	10449	30.8	25	-B						234	
CANR	02	0940	0953	0944	S13	W24	.462	10449	30.6	13	-N							
ZURI	02	0942E	0952	0950	S12	W24	.455	10449	30.6	10D	-N							
GRP26880	02	1125	1140	1130	S12	W24	.455	10449	30.7	15	-N						6 6 5 8	
HTPR	02	1122	1138	1127	S13	W24	.462	10449	30.7	16	-B							
SANM	02	1126	1141	1130	S12	W25	.468	10449	30.6	15	-N						E	
RAMY	02	1126	1146	1130	S12	W23	.441	10449	30.8	20	-N							
ONDR	02	1126E	1144		S11	W24	.448	10449	30.7	18D	-F						1.90	
ZURI	02	1126	1133	1130	S12	W24	.455	10449	30.7	7	-N						CEH	
CANR	02	1126	1140	1131	S13	W24	.462	10449	30.7	14	-N							
GRP26883	02	1515	1531	1520	S18	E06	.337	10455	3.1	16	--N						5 5 4 5	
HOUT	02	1514	1526	1520	S19	E07	.357	10455	3.2	12	-N						H	
SANM	02	1515	1522D		S17	E06	.321	10455	3.1	7D	-F	1					D	
RAMY	02	1515	1534	1519	S18	E07	.342	10455	3.2	19	-N							
MCMA	02	1515E	1527D	1520	S19	E06	.352	10455	3.1	12D	-N						EH	
BOUL	02	1520E	1538	1522	S18	E03	.326	10455	2.9	18D	-N							
GRP26884	02	1742	1927	1752	N18	E57	.853	10459	7.0	105	1N						4 4 4 4	
RAMY	02	1738	1956	1752	N18	E57	.853	10459	7.0	138	1N							
HOUT	02	1742	1900	1747	N18	E58	.861	10459	7.1	78	1N						EHL	
BOUL	02	1742	1931D	1753	N19	E54	.828	10459	6.8	109D	1N							
SANM	02	1746	1922	1756	N16	E56	.841	10459	6.9	96	1F						U	
BOUL	02	1747	1840	1754U	N17	E60	.876	10459	7.2	53	1N						EH	
GRP26885	02	1818	1828	1821	S12	W27	.495	10449	30.7	10	--F						4 4 3 4	
SANM	02	1817	1827	1821	S11	W28	.503	10449	30.7	10	-N	1					E	
HOUT	02	1817	1827	1820	S12	W27	.495	10449	30.7	10	-F							
RAMY	02	1819	1827	1822	S11	W27	.490	10449	30.7	8	-F						H	
BOUL	02	1819	1829	1822	S12	W27	.495	10449	30.7	10	-F							

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	DATE 1969 DEC	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 Ha		MAX. INT. %	
GRP26888	02	1852	1920	1900	N22	W25	.534	10447	30.9	28	--F							3 3 2 4	
SANM	02	1850	1916	1856	N23	W26	.554	10447	30.8	26	-F	1	C		.42	.38		E	
BOUL	02	1852	1925	1857	N21	W24	.514	10447	1.0	33	-F		V		.32				
RAMY	02	1855	1919	1907	N23	W25	.543	10447	30.9	24	-F		C		.52				
GRP26889	02	1911	1922	1915	S12	W27	.495	10449	30.8	11	--F				1.13			2 2 1 4	
RAMY	02	1910	1921	1914	S11	W27	.490	10449	30.8	11	-F		C		1.13				
BOUL	02	1912	1923	1915	S12	W26	.482	10449	30.9	11	-F		V						
GRP26891	02	2022	2031	2025	S12	W27	.495	10449	30.8	9	--F				.26			2 2 1 4	
BOUL	02	2020	2031	2025	S12	W27	.495	10449	30.8	11	-N		V						
RAMY	02	2023	2026	2025	S11	W27	.490	10449	30.8	30	-F		C		.26				
GRP26893	03	0053	0119	0100	N23	W32	.619	10447	30.6	26	--F				1.03			2 2 2 4	
MITK	03	0053	0113	0058	N23	W30	.598	10447	30.8	20	-N		C	0058	.72	.80		E	
MANI	03	0056E	0124	0102	N22	W33	.624	10447	30.6	280	-F	2		0102	1.34	1.70			
GRP26896	03	0534	0553	0540	N22	W33	.624	10447	30.8	19	-F				1.44			2 2 1 4	
TEHR	03	0510	0530		N23	W30	.598	10447	1.0	20	-F								
TEHR	03	0530	0600		N22	W32	.612	10447	30.8	30	1F								
MITK	03	0537	0545	0540	N22	W35	.646	10447	30.6	8	-N		C	0540	1.44	1.80		D	
TEHR	03	0545	0610		N23	W30	.598	10447	1.0	25	-F								
TEHR	03	0550	0600		N23	W31	.609	10447	30.9	10	-F								
GRP26900	03	0939	0959	0940	N14	W39	.654	10448	30.5	20	1N				2.74			3 3 2 6	
CATA	03	0935	0955D	0940	N14	W38	.641	10448	30.5	200	2B			0940	4.34	5.68	209		
MONT	03	0938	0948	0940	N14	W40	.666	10448	30.4	10	-N		C	0940	1.13				
TEHR	03	0945	1015		N13	W39	.650	10448	30.5	30	1N								
6 STATIONS REPORTING GROUP 26902. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP26902	03	1245	1337	1252	N25	W38	.695	10447	30.7	52	1F				2.06			5 4 4 5	
RAMY	03	1239	1331	1252	N23	W39	.694	10447	30.6	52	1F		C		2.06				
CAPE	03	1240	1240	1252	N26	W40	.721	10447	30.5	40	1N		C	1252	1.47	2.20			
CANR	03	1243E	1333	1247U	N25	W39	.705	10447	30.6	500	1N		C		2.60	3.60		E	
CAPS	03	1245E	1317D		N23	W35	.652	10447	30.9	320	-F	2	S	1248	1.00	1.40	145		
MONT	03	1251	1346	1256	N27	W40	.726	10447	30.5	55	1N		C	1256	2.58				
26902	03	1330	1414	1330	N25	W44	.754	10447	30.3	44	*-F				.94			2 2 2 6	
CATA	03	1330E	1350	1330	N26	W44	.759	10447	30.3	200	-N			1330	.58	.88	191		
SANM	03	1343E	1438D		N23	W40	.705	10447	30.6	550	-F	1	P	1343	1.30	1.80		BE	
SANM	03	1421	1438D		N23	W49	.794	10447	29.9	170	-F	1	P	1429	.17	.27		D	
GRP26906	03	1724	1753	1733	S18	W24	.501	10449	1.9	29	--F				.32			2 2 1 3	
BOUL	03	1719	1751	1735	S18	W22	.478	10449	2.1	32	-F		V						
SANM	03	1728	1755	1731	S17	W25	.505	10449	1.9	27	-F	1	C		.32	.37		E	
908 CULG	03	2148	2212	2152	N23	W41	.715	10447	30.8	24	1N		C	2152	1.96	2.66		L 1	
GRP26914	04	2045	2145	2054	N27	W06	.455	10456	4.4	60	1N				3.30			2 1 1 2	
CULG	04	2045	2145	2054	N27	W06	.455	10456	4.4	60	1N		C	2054	3.30			KL	
HUAN	04	2054E	2142D		N26	W08	.448	10456	4.3	480	-F	1	P	2115	.21	.20		E	
GRP26916	05	0149	0241	0154	N14	W63	.897	10448	30.4	52	1N				2.40			4 4 4 4	
CRON	05	0149	0225	0153	N16	W61	.884	10448	30.5	36	2B		C		3.00	6.00		H	
CULG	05	0149	0257	0155	N12	W66	.917	10448	30.1	68	1N		C	0155	2.06	4.00		KRH	
CULG	05	0149	0257	0221	N12	W66	.917	10448	30.1	68	2N			0221	3.09	6.30			
MITK	05	0150	0221D	0154	N14	W63	.897	10448	30.4	310	2F		C	0154	3.40	7.60		FH	
MANI	05	0159E	0202D		N13	W63	.896	10448	30.4	30	1N	1		0201	1.13	2.20			
920 CATA	05	1120E	1130D	1120	N21	W65	.918	10447	30.6	100	--B			1120	.29		309	2	
	05	1220	1235		NO FLARE PATROL														
	05	1237	1245		NO FLARE PATROL														
921 MCMA	05	1331E	1354D	1337	N18	E21	.456	10459	7.1	230	--N		C	1337	.52	.60		E 3	
	05	1405	1412		NO FLARE PATROL														
922 HUAN	05	1419	1437D		N18	E20	.444	10459	7.1	180	--F	1	C	1421	.25	.30		E 2	
GRP26923	05	1427	1500	1432	S19	W51	.805	10449	1.8	33	-F				1.31			2 2 2 2	
HUAN	05	1427	1437D		S19	W50	.796	10449	1.9	100	-F	1	P	1433	.31	.50		E	
CANR	05	1427	1500	1432U	S18	W51	.803	10449	1.8	33	1N		C		2.30	3.90		H	
924 HUAN	05	1437E	1440D		N20	W65	.917	10447	30.7	30	--F	1	P	1437	.25	.60		E 2	
925 MCMA	05	1608E	1618		S18	W50	.793	10449	1.9	100	--N		C	1608	.41	.70		E 3	

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %		
					LAT.	MER. DIST.													
GRP26952	08	0438	0500	0443	S20	W48	.778	10455	4.6	22	1N							3 3 2 4	
CULG	08	0435	04440	0442	S18	W47	.761	10455	4.7	9D	1N	P	0442	1.75				S	
CRON	08	0438	0500	0443	S20	W48	.778	10455	4.6	22	1N	C		1.80	2.90				
TEHR	08	0440	0440D		S22	W48	.784	10455	4.6		1N								
GRP26956	08	0950	1047	(1011)	S12	W41	.675	10463	5.4	57	-N			.52				3 3 1 6	
ISTA	08	0950E	1050		S12	W43	.699	10463	5.2	60D	-N								
HTPR	08	1011E	1045		S12	W42	.687	10463	5.3	34D	-F	P	1011	.52	.70				
TEHR	08	1015	1045		S11	W37	.621	10463	5.7	30	1N								
GRP26959	08	1833	2006	1843	N18	W23	.483	10459	7.0	93	-F			.62				4 3 2 4	
BOUL	08	1830	19010	1843	N19	W21	.470	10459	7.2	31D	1N	S							
HUAN	08	1834E	1902D		N18	W24	.495	10459	7.0	28D	-F	2	1846	.31	.40			E	
RAMY	08	1834	1925	1842	N18	W25	.507	10459	6.9	51	-F	C		.93					
CULG	08	1918E	2006D		N23	W23	.531	10459	7.1	48D	1N	P	1918	2.78					
	08	2121	2123		NO FLARE PATROL														
	10	1650	1700		NO FLARE PATROL														
968 HUAN	10	1700E	1725D		S20	W39	.682	10472	7.8	25D	--F	2	1718	.21	.30			E	
	10	1809	1812		NO FLARE PATROL														
970 MONT	11	1036E	1048	1039	S21	W51	.808	10472	7.6	12D	--F	C	1039	.21				2	
GRP26973	11	1503	1521	1506	N04	E90	1.000	10477	18.4	18	1N			.70				3 3 2 5	
HOUT	11	1502	1528	1507	N04	E90	1.000	10477	18.4	26	1N	C		.60	2.40				
RAMY	11	1503	1514	1505	N04	E90	1.000	10477	18.4	11	-N	C							
CANR	11	1504	1520	1507	N04	E90	1.000	10477	18.4	16	1B	C		.80	3.20				
974 RAMY	11	1816	1824	1818	N18	E88	1.000	10477	18.4	8	--F	C						3	
	11	2220	2224		NO FLARE PATROL														
	11	2238	2251		NO FLARE PATROL														
	12	0650	0700		NO FLARE PATROL														
GRP26976	12	0946	1015	0955	N06	E80	.985	10477	18.4	29	1F			1.44				2 2 2 5	
CATA	12	0945	1025	1000	N05	E78	.978	10477	18.3	40	1N			1.97				178	
CRON	12	0946	1005	0950	N06	E81	.988	10477	18.5	19	1F	C	1000	.90	2.70				
979 MCMA	12	1752E	1805D		N13	E90	1.000	10477	19.5	13D	--F	C	1753					AER	
	12	2215	2229		NO FLARE PATROL														
GRP26981	13	0339	0357	0342	N14	E89	1.000	10477	19.8	18	1B			1.35				2 2 2 3	
CRON	13	0339	0355	0342	N15	E90	1.000	10477	19.9	16	1N	C		1.00	4.00			H	
CULG	13	0342E	0359D		N13	E87	.999	10477	19.7	17D	1B	P	0347	1.70				RF	
	13	0950	1020		NO FLARE PATROL														
	13	1035	1040		NO FLARE PATROL														
	13	1150	1208		NO FLARE PATROL														
	13	1220	1325		NO FLARE PATROL														
	13	1334	1438		NO FLARE PATROL														
985 CAPE	13	1340	1350	1342	S10	E58	.852	10478	17.9	10	1B	C	1342	1.30	2.60			HV	
986 RAMY	13	1530E	1537D	1532	S10	E60	.869	10478	18.1	7D	-N	C		.72				2	
GRP26988	13	2008	2026	2011	N15	E75	.969	10477	19.5	18	1F			.92				3 3 3 4	
CULG	13	2007	2023	2010	N14	E75	.969	10477	19.5	16	1F	C	2010	1.03					
RAMY	13	2009	2031	2011	N15	E75	.969	10477	19.5	22	-F	C		.83					
BOUL	13	2009	2024	2012	N15	E76	.973	10477	19.5	15	1N	C		.90	2.30			E	
GRP26989	13	2207	2229	2209	S11	E55	.825	10478	18.0	22	-B			.92				2 2 2 2	
CULG	13	2206	2227	2208	S11	E55	.825	10478	18.0	21	1B	C	2208	1.24	2.04				
BOUL	13	2208	2212	2209	S11	E53	.805	10478	17.9	4	-B	C		.60	1.00				
BOUL	13	2213E	2230D	2213	S10	E55	.824	10478	18.1	17D	-F	S							
GRP26990	13	2336	0011	2342	N21	E61	.894	10477	18.6	35	1N			1.11				2 2 2 3	
CULG	13	2331	0017	2342	N20	E60	.885	10477	18.5	46	1N	C	2342	1.08	2.10				
MANI	13	2340	0004		N21	E62	.901	10477	18.6	24	1N	2	2342	1.13	2.20				

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	DATE 1969 DEC	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCARTHUR PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha	MAX. INT. %
					LAT.	MER. DIST.												
013 TEHR	15	0705	0710		N15	E49	.777	10477	19.0	5	--F							2
014 TEHR	15	0717	0735		S11	E42	.681	10478	18.5	18	--F							2
GRP27016	15	1238	1249	1241	N12	E65	.912	10477	20.4	11	--F			.19				2 2 2 3
SANM	15	1237	1245	1240	N11	E65	.911	10477	20.4	8	-F	1	C	.17				0
RAMY	15	1238	1253	1242	N13	E65	.913	10477	20.4	15	-F		C	.21				
GRP27017	15	1259	1314	1302	N12	E65	.912	10477	20.4	15	--B			.35				2 2 2 5
SANM	15	1258	1314	1301	N11	E65	.911	10477	20.4	16	-B	1	C	.48				0
RAMY	15	1300	1307	1302	N13	E65	.913	10477	20.4	70	-N		C	.21				
019 SANM	15	1707	1739	1711	S12	E30	.526	10478	18.0	32	-B	1	C	1.30	1.51			EFU 3
020 SANM	15	1713	1740	1716	N14	E48	.764	10477	19.3	27	--N	1	C	.65	1.03			E 3
021 SANM	15	1752	1801	1754	N12	E44	.714	10477	19.0	9	-N	1	C	.80	1.14			E 2
022 SANM	15	1805	1825	1809	N12	E44	.714	10477	19.1	20	--F	1	C	.32	.45			E 2
GRP27024	15	2300	0004	2340	N09	E51	.785	10477	19.8	64	1N			1.55				2 1 1 2
CULG	15	2300	0004	2340	N09	E51	.785	10477	19.8	64	1N	C	2340	1.55	2.40			
MANI	15	2325E	2347D		N13	E50	.782	10477	19.7	220	-F	1		2327	1.24	1.93		
GRP27025	16	0111	0119	0112	N16	E41	.693	10477	19.1	8	--B			.64				2 2 2 4
VORO	16	0110	0118	0111	N16	E40	.682	10477	19.0	8	-B	C	0111	.65	.86			81
MITK	16	0111	0119	0112	N15	E41	.689	10477	19.1	8	-B	C	0112	.62	.80			0
GRP27026	16	0331	0341	0332	N17	E44	.731	10477	19.4	10	-B			.73				2 2 2 4
VORO	16	0330E	0345D	0331	N18	E44	.735	10477	19.4	150	-B	C	0331	.74	1.05			74
MITK	16	0331	0337	0332	N15	E44	.724	10477	19.4	6	-N	C	0332	.72	1.00			0
028 MITK	16	0443	0451	0445	N15	E40	.678	10477	19.2	8	--F	C	0445	.93	1.30			E 3
029 MITK	16	0543	0547D	0545	S10	E25	.445	10478	18.1	40	--F	C	0545	1.24	1.40			E 3
GRP27030	16	0754	0816	0759	N15	E36	.630	10477	19.0	22	-N			1.42				4 3 3 4
MANI	16	0753	0805	0758	N15	E37	.642	10477	19.1	12	-N	2		0758	.83	1.08		
CULG	16	0754	0832D		N14	E36	.625	10477	19.0	380	1N	C	0757	1.86	2.30			H
CAPE	16	0755	0803	0757	N14	E37	.637	10477	19.1	8	-N	P		0757	.73	.90		
CATA	16	0755E	0810	0800	N16	E36	.635	10477	19.0	150	-B			0800	1.56	2.01		
031 RAMY	16	1500E	1528	1501	N12	E38	.642	10477	19.5	280	--N	C		.88				3
GRP27033	16	1705	1712	1706	N18	E37	.657	10477	19.5	7	--N			.42				2 2 2 4
RAMY	16	1705	1712	1706	N18	E37	.657	10477	19.5	7	-N	C		.52				
MCMA	16	1706E	1706D		N17	E37	.652	10477	19.5		-N	P	1706	.31	.40			0
034 RAMY	16	1738	1822	1749	S11	E16	.322	10478	17.9	44	--F	C		.72				2
036 SANM	16	2011	2040	2013	N01	E22	.376	10477	18.5	29	--F	1	C	.17	.18			E 1
	16	2050	2209		NO FLARE PATROL													
037 BOUL	16	2120E	2136	2120	S10	E14	.285	10478	17.9	16D	-N	S						1
	16	2229	2239		NO FLARE PATROL													
GRP27038	16	2341	2357	2346	S13	E13	.302	10478	18.0	16	-N			1.51				3 3 3 5
MITK	16	2340	2357	2346	S14	E14	.325	10478	18.0	17	-N	C	2346	1.44	1.50			E
MANI	16	2341	2354	2346	S12	E13	.291	10478	18.0	13	-N	3		2346	.93	.97		
CULG	16	2342E	2359D		S13	E13	.302	10478	18.0	170	1N	P	2347	2.17	2.20			
GRP27039	17	0032	0250	0053	N10	E38	.635	10477	19.9	138	2B			5.88				5 4 4 5
MITK	17	0030	0245	0054	N10	E39	.648	10477	19.9	135	2N	C	0054	7.94	10.50			F
MANI	17	0030	0156	0052	N12	E35	.604	10477	19.6	86	2N	3		0052	5.67	7.10		
CULG	17	0031	0255	0052	N09	E36	.606	10477	19.7	144	2B	C	0052	6.81	8.25			RHW
CRON	17	0035	0250	0055	N08	E40	.655	10477	20.0	135	1B	C		3.10	4.20			
VORO	17	0043E	0133D		N12	E38	.642	10477	19.9	500	2N	C	0052	6.65	8.20			106
GRP27040	17	0101	0114	0105	S11	E12	.267	10478	17.9	13	-N			1.05				3 3 3 5
MANI	17	0059	0115	0104	S12	E12	.278	10478	17.9	16	-N	3		0104	.72	.75		
MITK	17	0102	0117	0105	S11	E12	.267	10478	17.9	15	-N	C	0105	1.24	1.30			E
VORO	17	0103	0109	0106	S11	E12	.267	10478	17.9	6	-B	C	0106	1.20	1.23			77
GRP27041	17	0222	0256	0224	S11	E12	.267	10478	18.0	34	-B			1.09				2 2 2 5
MITK	17	0222	0255D	0224	S11	E13	.280	10478	18.1	33D	-B	C	0224	1.34	1.40			E
MANI	17	0228E	0256		S11	E11	.254	10478	17.9	280	-N	2		0232	.83	.85		

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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	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1969 DEC																	
	17	2241	2247		NO FLARE PATROL													
GRP27061	18	0029	0039	0032	S12	W02	.189	10478	17.9	10	--B							
VORO	18	0029	0038	0030	S12	W01	.187	10478	17.9	9	-B							
MITK	18	0029	0040	0033	S12	W02	.189	10478	17.9	11	-N	C	0030	.45	.37	.50	76	2 2 2 4
													0033	.37	.37	.50		EJ
GRP27064	18	0238	0246	0239	N13	E29	.532	10477	20.3	8	-N							
VORO	18	0238	0245	0239	N14	E30	.551	10477	20.4	7	-B	C	0239	.78	.84	.98	72	2 2 2 6
MANI	18	0243E	0247D		N12	E28	.512	10477	20.2	4D	-F	2	0244	.72	.83		D	
GRP27067	18	0745	0826	0755	N15	E28	.532	10477	20.4	41	1N			1.48				
CULG	18	0744	0828	0750	N17	E28	.546	10477	20.4	44	1N	P	0750	1.86	2.16		5 5 4 6	
CRON	18	0745	0835	0800	N16	E30	.563	10477	20.6	50	1F	C		1.80	2.20			
MANI	18	0745	0812	0751	N14	E30	.551	10477	20.6	27	-N	2	0751	1.34	1.63			
TEHR	18	0745	0815		N14	E32	.576	10477	20.7	30	1N							
TEHR	18	0755	0815		N13	E24	.466	10477	20.1	20	-F							
HTPR	18	0800E	0800D		N16	E29	.551	10477	20.5		-F	P	0800	1.65	1.90		BU	
HTPR	18	0830	0838D	0831	N12	E23	.445	10477	20.1	8D	-N	P	0831	.93	1.00		EU	
GRP27069	18	1004	1043	1017	N11	E08	.252	10477	19.0	39	-N			1.53				
CAPE	18	1000	1050	1023	N10	E07	.229	10477	18.9	50	1F	C	1023	2.03	2.10		3 2 2 5	
HTPR	18	1003	1050	1022	N10	E08	.238	10477	19.0	47	-N	P	1022	1.96	2.00		FH	
CANR	18	1005	1035	1012	N12	E08	.267	10477	19.0	30	-N	C		1.10	1.10		E L	
GRP27071	18	1215	1223	(1223)	N11	E21	.410	10477	20.1	8	--N			.50				
HUAN	18	1215E	1223D		N11	E21	.410	10477	20.1	8D	-N	2	1223	.50	.50		2 1 1 3	
CAPE	18	1221	1230	1223	N12	E20	.405	10477	20.0	9	-N	C	1223	1.04	1.10		E HV	
072 HUAN	18	1345	1355D		S27	E05	.441	10484	18.9	10D	--F	2	1349	.17	.20		E 2	
073 BOUL	18	1719	1734D	1722	S09	E19	.349	10490	20.1	15D	--F						2	
GRP27074	18	1820	1831	1827	N12	E16	.353	10477	20.0	11	-B			1.50				
BOUL	18	1820E	1831D	1827	N13	E18	.388	10477	20.1	11D	-N	V					1 1 1 1	
BOUL	18	1821	1830	1827	N12	E15	.341	10477	19.9	9	-B	C		1.50	1.70		H	
075 HUAN	18	2020E	2055D		S11	E18	.348	10490	20.2	35D	--F	2	2047	.25	.30		E 2	
076 VORO	19	0043E	0055		S13	W14	.310	10478	18.0	12D	--B	C	0044	.56	.58		83	
078 VORO	19	0129	0211	0132	S12	W15	.314	10478	17.9	42	1B	C	0132	2.03	2.12		95	
079 VORO	19	0155	0209	0200	N17	E01	.316	10477	19.2	14	--B	C	0200	.46	.46		72	
GRP27080	19	0335	0356	0336	N12	E65	.913	10493	24.0	21	-N			.85				
MITK	19	0334	0357	0336	N12	E66	.920	10493	24.1	23	-N	C	0336	.72			4 4 4 5	
CRON	19	0335	0406	0336	N11	E65	.912	10493	24.0	31	1F	C		1.00	2.10			
VORO	19	0335	0345	0337	N14	E66	.921	10493	24.1	10	-B	C	0337	.65	1.46		75	
MANI	19	0337E	0339D		N12	E64	.906	10493	24.0	2D	-N	1	0338	1.03	2.00		EJ	
GRP27081	19	0413	0516	0424	S12	W15	.314	10478	18.1	63	1N			2.58				
MITK	19	0413	0516	0424	S12	W15	.314	10478	18.1	63	1N	C	0424	2.58	2.70		2 1 1 3	
MANI	19	0451E	0506D		S12	W17	.341	10478	17.9	15D	1N	2	0452	3.61	3.82		E	
GRP27082	19	0602	0613	0604	N11	W15	.332	10477	18.1	11	-F			1.35				
MITK	19	0602	0612	0603	N11	W14	.320	10477	18.2	10	-N	C	0603	.72	.70		2 2 2 5	
ABST	19	0603E	0613	0604	N11	W15	.332	10477	18.1	10D	1F	C	0604	1.98	2.10		53	
GRP27084	19	0723	0740	0725	N15	E07	.306	10477	19.8	17	--F			1.50				
ABST	19	0722E	0740	0725	N14	E06	.284	10477	19.8	18D	-F	C	0725	1.44	1.50		2 2 2 6	
MANI	19	0724	0730D		N16	E07	.321	10477	19.8	6D	-N	1	0725	1.55	1.62		E	
GRP27085	19	0928	0941	0930	S12	W17	.341	10478	18.1	13	-B			1.79				
NERA	19	0926	0935	0929	S10	W17	.325	10478	18.1	9	1B	2					5 4 3 7	
CAPE	19	0928	1000	0932	S11	W17	.333	10478	18.1	32	-B	C	0932	1.30	1.40			
HTPR	19	0929E	0929D		S12	W18	.355	10478	18.0		-N	P	0929	1.55	1.50		CE	
ABST	19	0929E	0944D	0930	S13	W15	.323	10478	18.3	15D	1N	C	0930	2.52	2.70		73	
CANR	19	0929	0945	0930	S11	W17	.333	10478	18.1	16	-B	C		1.30	1.40		E	
	19	1140	1147		NO FLARE PATROL													
GRP27086	19	1201	1240	1220	N10	W08	.240	10477	18.9	39	1N			3.63				
NERA	19	1201	1239	1206	N13	W12	.320	10477	18.6	38	2F	2						
HTPR	19	1202	1240	1220	N10	W07	.231	10477	19.0	38	1N	P	1220	3.61	3.50		5 3 3 5	
CAPE	19	1205	1246	1220	N10	W09	.250	10477	18.8	41	1N	C	1220	2.29	2.30		E F	
CANR	19	1215E	1240	1215E	N09	W08	.227	10477	18.9	25D	1N	C		3.10	3.10		BE	
CATA	19	1225E	1230D	1225	N10	W08	.240	10477	18.9	5D	1B		1225	4.18	4.32		355	

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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 FLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
	1969 DEC																	
	23	2045	2223		NO FLARE PATROL													
GRP27161	24	0755	0815	0759	N14	W72	.957	10477	18.9	20	-F						2 2 2 3	
CULG	24	0752	0823	0758	N15	W72	.957	10477	18.9	31	1F	C	0758	.98				
MONT	24	0758	0807	0759	N13	W71	.951	10477	19.0	9	-N	C	0759	.83				
														1.13				
GRP27163	24	1216	1237	1222	S22	E17	.437	10495	25.8	21	--F			.45			3 3 3 4	
SANM	24	1213	1234	1219	S22	E15	.419	10495	25.6	21	-F	1 C		.32	.35		E	
RAMY	24	1217	1242	1221	S21	E17	.426	10495	25.8	25	-F	C		.52				
HPRR	24	1218	1235	1225	S23	E20	.478	10495	26.0	17	-N	P	1225	.52	.60			
GRP27164	24	1244	1308	1250	S02	E20	.342	10499	26.0	24	--F			.87			3 3 3 3	
SANM	24	1243	1310	1246	S02	E20	.342	10499	26.0	27	-N	1 C		.97	1.03		E	
RAMY	24	1244	1303	1249	S00	E21	.360	10499	26.1	19	-F	C		.72				
HPRR	24	1245	1310	1255	S05	E20	.345	10499	26.0	25	-F	P	1255	.93	1.00			
GRP27165	24	1455	1524	1503	S01	E19	.326	10499	26.0	29	--F			.74			3 3 3 4	
SANM	24	1455	1521	1506	S02	E19	.325	10499	26.0	26	-F	1 C		.97	1.02		E	
MCMA	24	1455	1528	1500	S02	E19	.325	10499	26.0	33	-F	P	1500	.41	.40		E	
RAMY	24	1456	1524	1503	S00	E20	.344	10499	26.1	28	-F	C		.83				
166 CULG	24	2031	2153	2054	S06	E06	.125	10492	25.3	82	1F	C	2054	2.68			HL 2	
	24	2053	2226		NO FLARE PATROL													
167 CULG	24	2053	2104	2056	N12	W82	.992	10477	18.7	11	1N	C	2056	.52			2	
	25	1115	1126		NO FLARE PATROL													
GRP27171	25	1250	1300	1250	N07	E37	.616	10496	28.3	10	--N			.58			2 1 1 3	
CATA	25	1250	1300	1250	N07	E37	.616	10496	28.3	10	-N		1250	.58	.72	182		
SANM	25	1300	1311	1304	N09	E33	.570	10496	28.0	11	-F	1 C		.17	.20		E	
GRP27172	25	1253	1309	1255	S23	E04	.362	10495	25.8	16	-B			.73			4 2 2 5	
HPRR	25	1251	1302	1255	S23	E05	.365	10495	25.9	11	-N	P	1255	.93	1.00			
SANM	25	1252	1309	1258	S22	E01	.340	10495	25.6	17	-B	1 C		1.30	1.38		E	
CAPE	25	1253	1306	1300	S22	E04	.346	10495	25.8	13	-N	C	1300	.95	1.00			
CATA	25	1255	1315D	1255	S23	E02	.358	10495	25.7	20D	-B		1255	.52	.56	316		
	25	1350	1351		NO FLARE PATROL													
173 RAMY	25	1537	1556	1540	S21	E02	.325	10495	25.8	19	--F	C		.52			2	
GRP27174	25	2028	2109	2035	N12	W21	.426	10493	24.3	41	-F			1.91			2 2 2 2	
RAMY	25	2027	2033D	2033	N11	W20	.404	10493	24.4	6D	-N	C		.93				
CULG	25	2028	2109	2036	N12	W21	.426	10493	24.3	41	1N	C	2036	2.89				
GRP27176	26	0228	0308	0235	S08	W15	.276	10492	25.0	40	-N			1.78			4 3 3 4	
MANI	26	0227	0309	0235	S08	W15	.276	10492	25.0	42	-N	3	0235	1.86	1.94			
CULG	26	0227	0310	0234	S09	W15	.282	10492	25.0	43	1F	P	0234	2.17			G	
CRON	26	0230	0305	0235	S08	W15	.276	10492	25.0	35	-B	C		1.30	1.30			
KODA	26	0235E	0254		S09	W15	.282	10492	25.0	19D	-N	P	0250	1.34	1.30		CE	
4 STATIONS REPORTING GROUP 27177. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP27177	26	0239	0312	0243	S23	W05	.363	10495	25.7	33	-B			1.69			4 4 4 4	
KODA	26	0235E	0255	0245	S23	W06	.367	10495	25.7	20D	-N	P	0250	1.03	1.40	2.08	CE	
CULG	26	0239	0314	0243	S22	W03	.341	10495	25.9	35	1N	C	0243	2.37			RK	
CRON	26	0241	0312	0242	S23	W04	.360	10495	25.8	31	-B	P		1.20	1.20		K	
MANI	26	0241	0328	0243	S22	W05	.347	10495	25.7	47	1B	3	0243	2.17	2.30			
27177	26	0240	0313	0255	S23	W04	.360	10495	25.8	33	*-B			3.09			2 2 1 4	
CULG	26	0239	0314	0253	S22	W03	.341	10495	25.9	35	1N	P	0253	3.09			H	
CRON	26	0241	0312	0257	S23	W04	.360	10495	25.8	31	-B							
180 SANM	26	1141	1200	1146	S08	W87	.998	10490	20.0	19	--F	1 C		.17			A 2	
181 RAMY	26	1218	1238	1223	S22	W11	.382	10495	25.7	20	--F	C		.72			3	
GRP27182	26	1256	1314	1300	S22	W11	.382	10495	25.7	18	-N			1.56			4 3 3 4	
RAMY	26	1254	1315	1300	S22	W10	.375	10495	25.8	21	-N	C		.93				
SANM	26	1255	1312	1300	S21	W12	.376	10495	25.6	17	-N	1 C		.65	.70		E	
CAPE	26	1257	1312	1302	S22	W10	.375	10495	25.8	15	-N	C	1302	.99	1.10			
WEND	26	1259	1316		S24	W11	.410	10495	25.7	17	1N	V		3.09				
183 RAMY	26	1308	1324	1310	N12	W32	.571	10493	24.1	16	--N	C		.52			3	
GRP27184	26	1446	1520	1454	S14	W31	.542	10491	24.3	34	-N			.88			3 3 3 3	
HUAN	26	1440E	1457D	1457	S15	W30	.533	10491	24.4	17D	-F	2 P	1457	.33	.40		E	
SANM	26	1447	1518	1452	S12	W32	.547	10491	24.2	31	-B	1 C		.97	1.16		E	
RAMY	26	1450	1521	1454	S14	W30	.528	10491	24.4	31	-N	C		1.34				

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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.															
185 RAMY	26	1922	1929	1924	S21	W13	.385	10495	25.8	7	--F	C		.31						3	
186 MANI	26	2247	2304	2249	S23	E39	.683	10503	29.9	17	--N	1	2249	.31	.72					2	
187 MANI	26	2314	2337	2317	S15	W39	.650	10491	24.0	23	--F	2	2317	.62	.79					2	
GRP27190	27	0509	0559	0515	S14	W36	.608	10491	24.5	50	-B			2.63						2 2 2 3	
MANI	27	0509	0606	0515	S16	W36	.616	10491	24.5	57	-B	2	0515	1.55	1.98						
TACH	27	0514E	0552		S11	W36	.599	10491	24.5	380	1N	S	0514	3.71	4.60	2.40	81		BD		
GRP27191	27	0637	0655	0644	S03	W22	.374	10499	25.6	18	-B			.93						2 1 1 4	
CAPE	27	0637	0653	0644	S02	W22	.374	10499	25.6	16	-N	C	0644	.95	1.00					H	
MANI	27	0637	0655	0644	S03	W22	.374	10499	25.6	18	-B	2	0644	.93	1.00						
GRP27192	27	0726	0801	0736	S08	W32	.535	10492	24.9	35	-N			1.34						2 1 1 3	
MANI	27	0726	0801	0736	S08	W32	.535	10492	24.9	35	-N	2	0736	1.34	1.66						
CAPE	27	0728	0806	0732	S08	W31	.521	10492	25.0	38	-N	C	0732	1.12	1.30						
GRP27193	27	0744	0816	0749	N09	E09	.248	10496	28.0	32	-F			.83						2 1 1 3	
MANI	27	0744	0816	0749	N09	E09	.248	10496	28.0	32	-F	2	0749	.83	.86						
CATA	27	0800E	0830	0800	N10	E10	.272	10496	28.1	300	-B		0800	1.16	1.21			251			
GRP27195	27	0934	0947	0938	S03	W18	.309	10499	26.0	13	--B			.58						2 2 2 4	
AROS	27	0933	0944	0936	S03	W18	.309	10499	26.0	11	-N	V	0936	.52	.50						
CATA	27	0935	0950	0940	S03	W17	.292	10499	26.1	15	-B		0940	.63	.67			251			
GRP27199	27	1553	1600	1555	S20	E39	.669	10503	30.6	7	--N			.20						3 3 3 4	
SANM	27	1553	1600	1554	S21	E38	.662	10503	30.5	7	-F	1		.17	.22					D	
MCMA	27	1553	1600	1554	S20	E40	.681	10503	30.7	7	-N	C	1554	.21	.30					D	
RAMY	27	1554	1600	1557	S20	E40	.681	10503	30.7	6	-N	C		.21							
GRP27200	27	1604	1639	1611	S23	W25	.529	10495	25.8	35	--N			.45						4 4 4 4	
SANM	27	1603	1733	1610	S22	W26	.531	10495	25.7	90	-F	1		.48	.58					E	
MCMA	27	1603	1635	1611	S24	W24	.527	10495	25.9	32	-N	C	1611	.31	.40					EH	
RAMY	27	1605	1642	1612	S23	W24	.518	10495	25.9	37	-B	C		.62							
HUAN	27	1605	1625D	1612	S23	W25	.529	10495	25.8	200	-F	1	1612	.37	.40					E	
GRP27202	27	1645	1653	1646	S16	W49	.768	10491	24.0	8	--N			.29						2 2 2 3	
RAMY	27	1644	1656	1646	S14	W49	.764	10491	24.0	12	-N	C		.36							
MCMA	27	1645	1650	1645	S18	W48	.762	10491	24.1	5	-N	C	1645	.21	.30					E	
203 RAMY	27	1705	1723	1708	S19	E38	.653	10503	30.6	18	--N	C		.72						3	
205 CRON	28	0350	0405	0354	S11	W21	.383	10510	26.6	15	--F	C		1.10	1.10					3	
	28	1040	1045		NO FLARE PATROL																
	28	1100	1115		NO FLARE PATROL																
	28	1251	1254		NO FLARE PATROL																
GRP27208	28	1323	1338	1325	S23	E22	.494	10503	30.2	15	-N			1.20						5 4 4 5	
CAPE	28	1322	1332	1323	S22	E22	.484	10503	30.2	10	-N	C	1323	1.30	1.50					V	
CANR	28	1322	1335	1325	S23	E22	.494	10503	30.2	13	1N	C		1.90	2.20						
HUAN	28	1323	1345D	1325	S21	E20	.452	10503	30.1	220	-F	2	1325	.31	.40					E	
CATA	28	1325	1335D	1325	S24	E21	.493	10503	30.1	100	-B		1325	1.44	1.67			295			
RAMY	28	1326E	1329D	1326	S22	E23	.495	10503	30.3	30	-N	C		1.13							
209 HUAN	28	1457E	1511D		S20	E25	.500	10503	30.5	140	--F	1	1505	.25	.30					E	
	28	1511	1521		NO FLARE PATROL																
	28	1649	1702		NO FLARE PATROL																
	28	1705	1729		NO FLARE PATROL																
	28	1730	1810		NO FLARE PATROL																
	28	1820	1839		NO FLARE PATROL																
	28	1846	1916		NO FLARE PATROL																
210 CULG	28	2217	2240	2224	S14	W60	.869	10491	24.4	23	1N	C	2224	1.13	2.31					R	
211 CULG	28	2224	2259	2228	N12	E67	.928	10508	3.0	35	1N	C	2228	1.24							K
GRP27212	29	0340	0409	0349	S23	W47	.764	10495	25.6	29	-F			1.53						2 2 2 4	
CULG	29	0335	0418	0351	S22	W47	.761	10495	25.6	43	1N	C	0351	2.06	3.00					H	
CRON	29	0345	0400	0346	S23	W47	.764	10495	25.6	15	-F	C		1.00	1.50						

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
					LAT.	MER. DIST.														
1969 DEC																				
213 CULG	29	0611	0637	0619	N11	E63	.900	10508	3.0	26	1F	C	0619	1.03	2.21				2	
GRP27217	29	1147	1209	1153	N12	E60	.878	10508	3.0	22	--F			.52					2 2 2 5	
SANM	29	1147	1206	1152	N12	E58	.861	10508	2.8	19	-F	1 C		.32	.64				D	
RAMY	29	1147	1212	1154	N12	E62	.893	10508	3.1	25	-F	C		.72						
222 SANM	29	1505	1553	1525	S07	W35	.576	10510	27.0	48	-N	1 C		1.30	1.58				ETU 3	
GRP27223	29	1514	1536	1521	S15	W70	.940	10491	24.4	22	-N			.99					3 3 2 4	
SANM	29	1513	1536		S14	W71	.945	10491	24.3	23	-N		1527	.48						
SANM	29	1513	1536		S14	W71	.945	10491	24.3	23	-N	1 C	1516	.32					A	
CANR	29	1515	1538	1525U	S17	W68	.929	10491	24.5	23	1F	C		1.50	3.10					
BOUL	29	1515E	1523	1517	S15	W71	.945	10491	24.3	8D	-N	V								
BOUL	29	1525	1534	1528	S14	W69	.934	10491	24.5	9	-F	V								
GRP27224	29	1527	1615	1535	N12	E55	.835	10508	2.8	48	--F			.46					2 2 2 3	
SANM	29	1525	1550	1536	N12	E56	.844	10508	2.8	25	-F	1 C		.32	1.59				E	
CANR	29	1528	1640D	1534	N11	E54	.823	10508	2.7	72D	-F	C		.60	1.10					
GRP27225	29	1611	1717	1647	S07	W33	.547	10510	27.2	66	-N			1.30					2 2 1 4	
SANM	29	1611	1735		S07	W36	.590	10510	27.0	84	-N		1647	1.30	1.60					
SANM	29	1611	1735		S07	W36	.590	10510	27.0	84	-N	1 C	1623	.97	1.20				ETU	
BOUL	29	1645	1658	1647	S06	W30	.501	10510	27.4	13	-N	V								
227 SANM	29	1713	1722	1718	S14	W73	.956	10491	24.2	9	--N	1 C		.32					A 3	
228 BOUL	29	1912	1935	1917	S18	W72	.951	10491	24.4	23	-N	C		.70	1.90				2	
229 BOUL	29	2046	2054	2049	S13	W71	.945	10491	24.5	8	-N	V							2	
230 BOUL	29	2146	2158	2150	S18	W72	.951	10491	24.5	12	-N	C		.70	1.90				1	
231 BOUL	29	2213E	2224	2216	S06	W33	.546	10510	27.5	11D	--F	V							1	
232 VORO	30	0019	0029	0019	S11	W42	.675	10510	26.9	10	--B	C	0019	.65	.84			89	D 3	
GRP27238	30	1215	1238	1218	N12	E44	.721	10508	2.8	23	-B			1.12					2 2 2 6	
SANM	30	1210	1230	1215	N14	E44	.728	10508	2.8	20	-N	1 C		.80	1.16				ET	
CATA	30	1220	1245	1220	N10	E44	.715	10508	2.8	25	-B		1220	1.44	2.09			363		
241 HUAN	30	1621E	1626D		S18	W04	.272	10503	30.4	5D	--F	1 C	1623	.37	.40				E 3	
GRP27242	30	1630	1648	1635	N10	E44	.715	10508	3.0	18	-N			1.50					2 2 2 3	
SANM	30	1630	1653		N11	E44	.718	10508	3.0	23	-N	1 C	1635	.80	1.14				ET	
CANR	30	1630	1642	1635	N09	E43	.700	10508	2.9	12	1N	C		2.20	3.10					
	30	1908	1927		NO FLARE PATROL															
244 HUAN	30	2058E	2105D		S08	W54	.809	10510	26.8	7D	--F	1 P	2102	.21	.30				E 2	
	30	2132	2217		NO FLARE PATROL															
GRP27246	31	0209	0220	0212	S08	W54	.809	10510	27.0	11	-N			1.02					2 2 2 4	
VORO	31	0209	0219	0211	S09	W53	.799	10510	27.1	10	-B	C	0211	1.20	1.70			67	EJ	
MANI	31	0209	0220D	0213	S07	W54	.808	10510	27.0	11D	-F	1	0213	.83	1.35					
GRP27247	31	0300	0309	0305	S02	W76	.970	10499	25.4	9	1N			.93					2 1 1 3	
VORO	31	0258	0310	0303	S06	W76	.969	10499	25.4	12	1B	C	0303	.65	2.60			81	D	
CULG	31	0300	0309	0305	S02	W76	.970	10499	25.4	9	1N	C	0305	.93						
	31	0930	1048		NO FLARE PATROL															
248 SANM	31	1048E	1056		S07	W60	.865	10510	26.9	8D	--N	1 P	1048	.48	1.00				ET 1	
249 SANM	31	1110	1154	1135	S06	W60	.865	10510	27.0	44	--B	1 C		.32	.68				ELT 3	
250 SANM	31	1115	1126	1118	N13	E35	.618	10508	3.1	11	--N	1 C		.48	.61				D 1	
GRP27251	31	1140	1333	1149	N14	E11	.343	10506	1.3	113	-N			1.12					2 2 2 2	
SANM	31	1140	1333	1145	N14	E10	.335	10506	1.2	113	-N	1 C		1.30	1.40				E	
RAMY	31	1140	1219	1152	N14	E11	.343	10506	1.3	39	-N	C		.93						
252 RAMY	31	1143	1153	1147	N12	E34	.601	10508	3.0	10	--N	C		.36					2	
GRP27254	31	1429	1450	1433	N07	E43	.695	10509	3.8	21	--F			.51					2 2 2 2	
RAMY	31	1429	1443	1431	N07	E42	.683	10509	3.8	14	-F	C		.36						
SANM	31	1429	1457	1435	N07	E43	.695	10509	3.8	28	-N	1 C		.65	.87				E	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %			
					LAT.	MER. DIST.														
GRP27255 SANM RAMY	31	1507	1520	1508	S20	W15	.383	10503	30.5	13	--F							2 2 2 2		
	31	1506	1526	1508	S18	W15	.360	10503	30.5	20	-N	1	C		.32	.35		E		
	31	1507	1514	1507	S21	W14	.386	10503	30.6	7	-F		C		.31					
256	RAMY	31	1525	1538	1529	N18	E77	.980	10512	6.4	13	--F		C					3	
257	MCMA	31	1632	1649	1637	N16	E31	.588	10508	3.0	17	--F		C	1637	.26	.30		D	3
258	MCMA	31	1645	1800	1647	S10	W63	.890	10510	27.0	75	--F		C	1647	.26	.50		DK	3
GRP27259 RAMY MCMA SANM BOUL SANM	31	1708	1724	1710	N13	E31	.568	10508	3.0	16	--F				.58			4 4 3 4		
	31	1708	1715	1711	N13	E33	.593	10508	3.2	7	-F		C		.41					
	31	1708	1747D	1709	N16	E31	.588	10508	3.0	39D	-N		C	1709	.52	.60		E		
	31	1708	1718	1710	N12	E32	.575	10508	3.1	10	-F	1	C		.80	.96		D		
	31	1710E	1717	1710	N12	E32	.575	10508	3.1	7D	-N		S							
	31	1730	1738	1732	N12	E24	.471	10508	2.5	8	-N	1	C		.17	.18		D		
GRP27260 RAMY BOUL	31	1717	1739	1721	N19	E73	.966	10512	6.2	22	--F				.21			2 2 1 4		
	31	1717	1739	1719	N19	E74	.970	10512	6.3	22	-F		C		.21					
	31	1721E	1726D	1722	N19	E72	.961	10512	6.1	5D	-F		S							
GRP27261 RAMY MCMA SANM	31	1748	1837	1754	N12	E29	.536	10508	2.9	49	-N				1.01			3 3 3 4		
	31	1746	1856	1752	N11	E29	.530	10508	2.9	70	-F		C		1.44					
	31	1748	1840D	1757	N14	E30	.562	10508	3.0	52D	-N		C	1757	.93	1.10		E		
	31	1749	1814	1754	N12	E29	.536	10508	2.9	25	-N	1	C		.65	.77		E		
GRP27262 RAMY SANM MCMA	31	1754	1807	1757	N12	W49	.776	10496	28.1	13	--N				.42			3 3 3 4		
	31	1753	1807	1755	N11	W48	.763	10496	28.1	14	-F		C		.46					
	31	1754	1810	1758	N12	W50	.787	10496	28.0	16	-N	1	C		.48	.79		E		
	31	1754	1805	1757	N12	W48	.766	10496	28.1	11	-N		C	1757	.31	.50		E		
GRP27263 RAMY SANM MCMA SANM	31	1947	1958	1949	N13	E23	.466	10508	2.5	11	--N				.30			3 3 3 5		
	31	1947	1957	1949	N12	E23	.458	10508	2.5	10	-N		C		.31					
	31	1947	1957	1949	N12	E23	.458	10508	2.5	10	-B	1	C		.32	.35		D		
	31	1948E	1959D		N13	E24	.479	10508	2.6	11D	-N		C	1950	.26	.30		D		
	31	1959	2005	2002	N14	E23	.475	10508	2.6	6	-F	1	C		.17	.19		D		
	264	RAMY	31	2019	2022D	2020	N12	E23	.458	10508	2.6	3D	--F		C		.21			3
		31	2026	2028	NO FLARE PATROL															
		31	2202	2210	NO FLARE PATROL															
		31	2219	2225	NO FLARE PATROL															
265	CULG	31	2225E	2230D		N12	E27	.510	10508	3.0	5D	1B		P	2230	2.78	3.10		1	
		31	2230	2319	NO FLARE PATROL															
266	MANI	31	2344	2354D	2348	N13	E30	.555	10508	3.2	10D	--N	2		2348	.62	.75		1	

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
691201	99.01	24.0	691212	10.94	23.6	691222	16.43	23.4
691202	29.04	24.0	691213	70.14	21.0	691223	35.67	22.1
691203	93.24	24.0	691214	115.44	23.9	691224	44.74	22.5
691204	57.47	24.0	691215	80.34	24.0	691225	22.07	23.8
691205	75.31	23.2	691216	32.17	22.5	691226	48.73	24.0
691206	109.69	23.0	691217	456.84	23.7	691227	54.18	24.0
691207	16.62	23.7	691218	39.00	24.0	691228	22.53	21.4
691208	20.18	24.0	691219	175.81	26.6	691229	46.38	24.0
691210	0.00	23.8	691220	114.52	24.0	691230	18.36	22.9
691211	2.59	27.7	691221	141.89	23.2	691231	68.61	21.6

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

SOLAR FLARES
Unconfirmed
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OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g		MAX. INT. %
					LAT.	MER. DIST.												
GRP26898	03	0645	0720		N22	W31	.601	10447	1.0	35	-F						1 1 0 3	
TEHR	03	0645	0720		N22	W31	.601	10447	1.0	35	-F							
TEHR	03	0645	0720		N22	W32	.612	10447	30.9	35	-F							
899 TEHR	03	0730	0730D		N23	W30	.598	10447	1.1		-F						4	
901 KODA	03	1042E	1046D		N16	E49	.774	10459	7.1	4D	1N	P	1042	3.07	3.00		CE 2	
903 CAPS	03	1313E	1319		S15	W15	.368	10455	2.4	6D	-N	2 S	1315	1.50	1.70	160	4	
904 RAMY	03	1314	1329	1316	S16	W20	.436	10449	2.1	15	-N	C		.52			4	
905 RAMY	03	1447E	1454		S20	E58	.869	10464	8.0	7D	-F	C					4	
907 HOUT	03	1915	1935	1920	N18	E45	.737	10459	7.2	20	-N	C		1.10	1.60		E 3	
909 VORO	04	0245	0257	0246	S20	W11	.394	10455	3.3	12	-B	C	0246	1.11	1.20	70	E 4	
910 CRON	04	0545	0607	0549	N15	E38	.646	10459	7.1	22	1N	C		1.80	2.30		L 3	
911 CATA	04	0742E	0750	0745	S11	E14	.310	10463	5.4	8D	-B		0745	.17	.18	229	3	
912 RAMY	04	1433	1447D	1439	S11	E11	.274	10463	5.4	14D	-F	C		.52			4	
913 SANM	04	1626	1645	1628	N14	E49	.769	10459	8.4	19	-F	1 C		.17	.26		D 6	
915 MANI	05	0050	0105D	0054	S17	W19	.431	10455	3.6	15D	-F	2	0054	.62	.68		4	
917 CULG	05	0313	0359	0341	N26	W09	.454	10456	4.5	46	1N	C	0341	2.89	3.08		3	
918 CULG	05	0457	0529	0502	N22	W66	.925	10447	30.3	32	1N	C	0502	1.75			4	
919 CRON	05	0947	0953	0949	N11	E85	.996	10469	11.8	6	-B	C		.30	1.00		3	
926 RAMY	05	1720E	1720D		N19	W66	.922	10447	30.8		-F						3	
929 TEHR	06	0540	0550		S19	W42	.713	10455	3.1	10	-F						6	
930 TEHR	06	0550	0610		S21	W21	.493	10455	4.7	20	-F						4	
931 TEHR	06	0620	0700		N24	W80	.987	10447	30.3	40	-F						3	
932 TEHR	06	0630	0630D		S22	W26	.555	10455	4.3		-F						3	
933 TEHR	06	0635	0700		N22	W72	.958	10447	30.9	25	-F						4	
934 ISTA	06	0700E	0745		S16	W23	.468	10455	4.6	45D	-N						4	
948 MANI	07	0020	0050D	0032	S19	W29	.563	10455	4.8	30D	-F	2	0032	.83	1.00		3	
953 TEHR	08	0625	0700		S11	W37	.621	10463	5.5	35	-F						3	
954 TEHR	08	0625	0700		N07	W37	.610	10471	5.5	35	1F						3	
955 TEHR	08	0750	0805		S11	W37	.621	10463	5.6	15	1F						2	
GRP26957	08	1100	1110		N17	E00	.292	10459	8.5	10	-F						1 1 0 5	
TEHR	08	1100	1110		N18	E02	.311	10459	8.6	10	-F							
TEHR	08	1100	1110		N16	W01	.276	10459	8.4	10	-F							
958 CATA	08	1130E	1200D	1130	S27	E33	.665	10467	11.0	30D	-N		1130	.58	.78	182	3	
960 TEHR	09	0100	0100D		S18	W16	.404	10472	7.8		-F						5	
961 MANI	09	0516E	0527D		S19	W18	.436	10472	7.9	11D	-N	1	0517	.83	.90		3	
962 TEHR	09	0615	0630		S18	W17	.414	10472	8.0	15	-F						4	
963 TEHR	09	0645	0715		S18	W15	.394	10472	8.2	30	-F						3	
964 CATA	09	0725E	0745	0735	S19	W17	.426	10464	8.0	20D	-B		0735	.17	.19	295	3	
965 CATA	09	1005	1155D	1045	S19	W21	.469	10472	7.8	110D	-B		1045	.98	1.11	269	Z 5	
966 BOUL	09	1650	1701	1653	N24	W72	.960	10456	4.3	11	-F	V					4	
967 TEHR	10	0600	0605		S18	W29	.553	10464	8.1	5	-F						5	
969 HUAN	10	1940E	2036D		S20	W39	.682	10472	7.9	56D	-F	2 P	2020	.17	.20		E 4	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE 1969 DEC	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. %			
971	RAMY	11	1242	1250	1245	S23	W55	.848	10472	7.4	8	-F	C		.31					5
972	CANR	11	1357E	1413	1357	S20	W90	1.000	10455	4.8	160	1B	C		.90	3.60				4
975	MONT	12	0847	0954	0909	N26	W87	.999	10479	5.8	67	-N	C	0909	.77					4
977	MONT	12	1223	1249	1240	N26	W89	1.000	10479	5.8	26	-N	C	1240	.21					5
978	CANR	12	1407	1424	1418	S04	E72	.951	10478	18.0	17	1N	C		.80	2.10				5
980	MANI	13	0210	02230	0212	S13	E69	.936	10478	18.3	130	-F	2	0212	.41	1.22				4
982	MANI	13	0602	0638	0606	S13	E64	.903	10478	18.1	36	-N	2	0606	1.03	2.03				3
983	MANI	13	0701E	07040		S13	E64	.903	10478	18.1	30	-N	3	0702	.62	1.22				3
984	CAPS	13	0823	0827		S06	E61	.875	10478	17.9	4	-F	2	V	0824	1.00	2.50	145		3
987	BOUL	13	1952	2010	1954	N20	E60	.885	10477	18.3	18	-F	V							4
992	VORO	14	0324	0332	0326	S10	E53	.804	10478	18.1	8	-B	C	0326	.84	1.30		66	EH	3
996	CAPS	14	1053E	10580		N10	E75	.968	10477	20.1	50	-N	3	V	1057	.50		160		4
000	HUAN	14	1515E	16130		S11	E48	.752	10478	18.2	580	-N	1	P	1556	.37	.60		E	4
006	CRON	15	0015	0130	00330	N10	E53	.807	10477	19.0	75	-N	C		1.00	1.70				4
007	VORO	15	0154	0200	0156	S09	E39	.638	10478	18.0	6	-B	C	0156	.46	.60		70	EJ	4
009	MITK	15	0552	0604	0553	S11	E41	.669	10478	18.3	12	-F	C	0553	.83	1.10			E	4
015	TEHR	15	0740	0825		S12	E34	.581	10478	17.9	45	-F								5
018	RAMY	15	1339	1346	1342	N13	E65	.913	10477	20.4	7	-F	C		.21					4
023	MCMA	15	1941E	19520		N15	E43	.712	10477	19.0	110	-F	P	1942	.41	.60			E	3
027	CRON	16	0350	0505	0455	S13	E81	.988	10485	22.2	75	1N	C		.70	2.30				3
032	RAMY	16	1537	1615	1542	N10	E31	.541	10477	19.0	38	-F	C		.26					4
035	RAMY	16	1842	1908	1847	S13	E17	.353	10478	18.1	26	-F	C		.31					4
042	MANI	17	0339	0357	0343	N13	E28	.518	10477	19.3	18	-N	2	0343	.93	.99				3
043	MANI	17	0353	0405	0355	N04	E18	.321	10477	18.5	12	-F	2	0355	.31	.32				4
044	MITK	17	0400	0425	0408	N11	E39	.651	10477	20.1	25	-F	C	0408	.93	1.20			E	4
046	TEHR	17	0530	0540		S11	E15	.307	10478	18.4	10	-F								4
GRP27047	TEHR	17	0610	0632	(0623)	S11	E10	.242	10478	18.0	22	-B			.62				2 2 1 5	
	TEHR	17	0610	0625		S09	E09	.206	10478	17.9	15	-B								
	TEHR	17	0610	0625		S12	E10	.254	10478	18.0	15	-F								
	MANI	17	0622E	06390		S11	E10	.242	10478	18.0	170	-N	2	0623	.62	.64				
051	MONT	17	0918	0958	0932	S04	W73	.956	10482	11.9	40	-N	C	0932	.77					4
056	RAMY	17	1513	1532	1516	N10	E88	1.000	10493	24.2	19	-F	C							4
062	MITK	18	0039	0111	0041	S12	W14	.302	10480	17.0	32	-N	C	0041	.62	.60			E	4
063	MITK	18	0126	0158	0132	S12	W15	.315	10480	16.9	32	-N	C	0132	1.24	1.30				5
065	TEHR	18	0600	0620		N13	E22	.439	10477	19.9	20	-F								4
066	TEHR	18	0620	0635		S10	E00	.152	10478	18.3	15	-F								5
GRP27068	TEHR	18	0815	0822	0818	N12	E25	.472	10477	20.2	7	-N			.41				2 2 1 6	
	TEHR	18	0745	0815		N12	E28	.512	10477	20.4	30	-N								
	MANI	18	0815	08280	0818	N11	E22	.424	10477	20.0	130	-N	2	0818	.41	.45				
070	HTPR	18	1022	1041	1030	N11	E22	.424	10477	20.1	19	-F	P	1030	.41	.40				3
077	VORO	19	0100	0115	0105	S13	W14	.310	10478	18.0	15	-B	C	0105	1.11	1.14		84	EJ	3
083	MANI	19	0654E	0724		N02	W10	.183	10477	18.5	300	-N	1	0656	1.24	1.30				5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
					LAT.	MER. DIST.													
089 CANR	1969 DEC 19	1404	1411	1406	N13	E63	.900	10493	24.3	7	-N	C		.70	1.50				3
090 HUAN	19 1452E	1525D	1508	S11	E07	.206	10490	20.1	33D	-N	2	P	1508	.21	.20			D	3
092 MANI	20 0016	0019D	0018	S12	W32	.551	10478	17.6	3D	-N	1		0018	.46	.55				5
094 KODA	20 0224E	0229D		S11	W01	.166	10490	20.0	5D	-N		P	0229	1.96	2.00				5
095 MANI	20 0331E	0425	0334	S12	E01	.183	10490	20.2	54D	-F	2		0334	.83	.84				6
096 MITK	20 0428	0447	0437	S13	E01	.200	10483	20.3	19	-F		C	0437	.93	.90			D	4
097 MANI	20 0436E	0449D	0438	S12	E01	.183	10490	20.3	13D	-F	2		0438	1.13	1.16				4
103 SANM	20 1314	1325	1316	S14	W34	.586	10478	18.0	11	-F	1	C		.48	.58			D	4
106 SANM	20 1655	1708	1657	S14	E47	.744	10491	24.2	13	-F	1	C		.32	.48			D	4
110 SANM	20 2034	2039D	2036	S11	W11	.250	10490	20.0	5D	-N	1	P		.32	.33			D	3
112 MITK	21 0125	0148	0132	S05	E71	.945	10499	26.4	23	1N		C	0132	.93				E	3
115 CATA	21 0915E	0930	0920	S11	E07	.202	10485	21.9	15D	-N			0920	.58	.59		195		6
116 TEHR	21 0940	0948		S12	E13	.285	10485	22.4	8	-F									7
117 TEHR	21 0950	0955		S12	E15	.311	10485	22.5	5	-F									7
118 TEHR	21 1025	1035		N08	E32	.550	10493	23.8	10	-F									6
119 TEHR	21 1035	1040		S13	E14	.308	10485	22.5	5	-F									8
120 TEHR	21 1035	1040		N22	E41	.725	10493	24.5	5	-F									8
122 ONDR	21 1204E	1210		S15	W13	.318	10490	20.5	6D	1F		V	1206			2.80			5
126 RAMY	21 1406	1445D	1412	S02	E66	.913	10499	26.5	39D	-N		C		1.03					3
134 MANI	22 0633E	0637D		S12	E30	.522	10491	24.5	4D	-F	2		0633	.41	.48				4
135 CAPS	22 0828E	0839		S14	W54	.816	10478	18.3	11D	-N	2	V						C	4
136 CAPS	22 0946	1001		S01	E52	.788	10499	26.3	15	-B	2	V							3
138 SANM	22 1355	1401	1358	N10	W51	.789	10477	18.8	6	-F	1	C		.17	.27			D	5
139 BOUL	22 1531E	1538	1533	S12	W59	.860	10478	18.2	7D	-F		V							4
141 BOUL	22 1705E	1713	1706	S08	E21	.372	10491	24.3	8D	-F		V							4
149 MANI	23 0146	0202D	0149	N08	E63	.896	10496	27.8	16D	-F	2		0149	.52	1.12				5
155 HTPR	23 1410	1415	1412	N05	E45	.713	10499	27.0	5	-F		P	1412	.93	1.70				5
156 RAMY	23 1427	1443	1431	N10	W65	.912	10477	18.7	16	-F		C		.21					5
159 MANI	24 0022	0054	0026	S11	E10	.232	10491	24.8	32	-N	1		0026	.52	.53				5
160 MANI	24 0728E	0735		N13	W64	.908	10477	19.5	7D	-F	1		0732	.52	1.02				3
162 MONT	24 0833	0842	0836	S15	W11	.291	10501	23.5	9	-N		C	0836	.77					4
168 MANI	25 0101	0112D	0104	N11	E41	.680	10496	28.1	11D	-F	3		0104	.72	1.02				3
169 MANI	25 0632E	0651	0635	S12	E09	.230	10502	25.9	19D	-F	3		0635	.41	.42				3
170 MONT	25 0938	0956	0944	N09	W90	1.000	10477	18.7	18	-N		C	0944	.41					4
175 MANI	26 0109	0124	0113	N12	W26	.493	10493	24.1	15	-N	2		0113	.62	.71				3
178 MANI	26 0401	0408D	0403	S21	W05	.332	10495	25.8	7D	-N	2		0403	1.03	1.07				6
179 MONT	26 0913	0921	0917	S05	W90	1.000	10490	19.6	8	-F		C	0917	.10					5
188 VORO	27 0119	0128	0122	S17	W40	.669	10491	24.1	9	-B		C	0122	.93	1.22		76	D	4
189 VORO	27 0243	0250	0245	S24	W16	.449	10495	25.9	7	-B		C	0245	1.29	1.42		71	E	4
194 CATA	27 0920	0945	0925	S21	W22	.477	10495	25.7	25	-N			0925	.69	.80		195		3

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. 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. %			
	1969																			
	DEC																			
196 RAMY	27	1132	1138	1135	N22	E06	.422	10498	27.9	6	-F	C		.46					7	
197 RAMY	27	1451	1522	1456	S14	W48	.753	10491	24.0	31	-F	C		.31					6	
198 RAMY	27	1522	1532	1525	S02	W27	.454	10499	25.6	10	-F	C		.21					4	
201 RAMY	27	1628	1635D	1631	S19	E43	.711	10503	30.9	7D	-N	C		.21					4	
204 CULG	28	0010	0105	0015	S21	W31	.579	10495	25.7	55	1N	C	0015	1.75	2.10				4	
206 CATA	28	0840E	0905	0840	N12	E74	.966	10508	2.9	25D	-B		0840	1.09				237	5	
207 CATA	28	1025	1030D	1025	N10	W05	.233	10496	28.1	5D	-B		1025	1.22	1.25			257	3	
214 ISTA	29	0835E	0903D		S20	E15	.386	10503	30.5	28D	-N								3	
GRP27215	29	0957	1020	0957	S09	W35	.579	10510	26.8	23	-B			1.03						
UCCL	29	0957	1020D	0957	S09	W35	.579	10510	26.8	23D	-B	P	0957	1.03	1.60				2 1 1 7	
CATA	29	1015E	1030D	1025	S08	W32	.534	10510	27.0	15D	-N		1025	1.16	1.37			195		
216 SANM	29	1032E	1146		S07	W34	.561	10510	26.9	74D	-N	1	P	1032	1.62	1.93			BD	4
218 SANM	29	1233	1244	1236	N10	W21	.414	10496	27.9	11	-F	1	C		.17	.18			E	4
219 RAMY	29	1346E	1406D	1348	S08	E33	.549	10506	1.0	20D	-N			.83						6
GRP27220	29	1346	1412	1353	N13	E59	.871	10508	3.0	26	-N			.89						2 2 2 7
SANM	29	1344	1410	1352	N13	E57	.854	10508	2.8	26	-N	1	C	.65	1.30				EU	
RAMY	29	1348	1414	1353	N13	E61	.887	10508	3.1	26	-N			1.13						
221 SANM	29	1350	1425	1359	S07	W35	.576	10510	27.0	35	-N	1	C	.97	1.18				ETU	7
226 SANM	29	1650	1700	1654	S19	W54	.822	10495	25.7	10	-F	1	C	.17	.29				D	4
233 CULG	30	0044	0101	0054	S06	W75	.965	10491	24.4	17	1N		C	0054	.72				T	3
234 CULG	30	0055	0125	0116	N27	E79	.989	10511	5.0	30	1F		C	0116	.62					3
235 MITK	30	0139E	0225		S15	W80	.984	10491	24.1	46D	1N		C	0140	1.03					4
236 CATA	30	0915E	1020D	0925	S19	E02	.282	10503	30.5	65D	-B		0925	.63	.67			275		4
237 SANM	30	1057E	1137		S07	W47	.731	10510	26.9	40D	-N	1	P	1057	1.30	1.87			E	4
239 SANM	30	1223	1234	1227	S13	W84	.994	10491	24.2	11	-N	1	C	.32					D	5
240 SANM	30	1256	1345		S07	W47	.731	10510	27.0	49	-N	1	C	1300	.80	1.18			ETU	5
243 CULG	30	1927	2004	1934	S14	W85	.995	10491	24.4	37	1N		P	1934	1.03				RT	4
245 CULG	31	0142	0155	0150	S18	W70	.940	10495	25.8	13	1F		C	0150	.83					4

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":

- | | |
|---|---|
| <p>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.</p> | <p>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 Hα 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 Hα emission.
 Y = Onset of a system of loop-type prominences.
 Z = Major sunspot umbra covered by flare.</p> |
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