

SOLAR FLARES
Confirmed
FEBRUARY 1969

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS				
	DATE 1969 FEB	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		MAX. INT. %			
685 MCMA	02	2006	2030		N14	W90	1.000	9902	27.1	24	-N	C	2012					A	3		
686 SACP	02	2020	2030	2025	N36	W15	.699	9893	1.7	10	--F	C		.35	.42				3		
GRP20688	02	2125	2149	2130	S01	E42	.672	9909	6.0	24	-N			.82				2	2	2	3
SACP	02	2121	2155	2130	S00	E42	.674	9909	6.0	34	-N	C		.89	1.01						
HUAN	02	2128	2143		S01	E42	.672	9909	6.0	15	-N	1 C	2134	.75	1.01					E	
GRP20691	03	0040	0059	0043	N35	W15	.688	9893	1.9	12	-N			.90				4	4	4	5
MANI	03	0035	0053	0043	N34	W13	.669	9893	2.0	18	-N	2	0043	.83	1.17						
CRON	03	0041	0049	0043	N36	W14	.697	9893	2.0	8	-N	C		1.10	1.40						
VORO	03	0042	0048	0043	N35	W17	.697	9893	1.8	6	-B	C	0043	.55	.75	.54	114			EJ	
MITK	03	0042	0056	0044	N36	W14	.697	9893	2.0	14	-N	C	0044	1.13	1.60					D	
GRP20695	03	0438	0454	0442	N38	W20	.742	9893	1.7	16	-N			1.31				2	2	2	4
MANI	03	0437	0458	0442	N36	W17	.708	9893	1.9	21	-N	2	0442	.72	1.03						
CRON	03	0439	0449	0442	N39	W22	.761	9893	1.5	10	1N	C		1.90	2.90						
GRP20696	03	0613	0634	0617	N36	W16	.704	9893	2.1	21	--F			.61				2	2	2	5
MANI	03	0613	0632	0616	N35	W15	.688	9893	2.1	19	-F	2	0616	.31	.43						
CRIM	03	0615E	0635	0617	N36	W17	.708	9893	2.0	20D	-F	C	0617	.90	1.30					D	
GRP20697	03	0725	0801	0734	S02	E35	.576	9909	5.9	36	-N			2.15				7	7	6	8
ISTA	03	0717	0750	0730	S01	E36	.592	9909	6.0	33	-B										
CULG	03	0720	0820	0739	S02	E36	.590	9909	6.0	60	1N	2	0739	2.06	2.25						
MANI	03	0725	0805	0735	S02	E36	.590	9909	6.0	40	-N	C	0735	1.55	1.90						
BUCA	03	0725E	0753D	0737	S01	E36	.592	9909	6.0	28D	-N	P	0737	1.66	2.00						
CAPE	03	0727	0800	0736	S02	E36	.590	9909	6.0	33	-N	C	0736	.95	1.20						
CRIM	03	0728E	0731D	0731	S01	E35	.578	9909	5.9	3D	1N	P	0731	3.60	4.40					E	
KODA	03	0730	0755	0731	S03	E33	.545	9909	5.8	25	1N	C	0733	3.07	3.10	2.60				I	
GRP20699	03	0856	0926	0903	S06	E40	.640	9910	6.4	30	-N			.76				6	6	6	7
CATA	03	0850	0935	0900	S05	E40	.640	9910	6.4	45	-N			0900	.69	.91	199				
MANI	03	0857	0921	0904	S06	E42	.666	9910	6.5	24	-F	2	0904	.41	.50						
CRON	03	0858	0914	0900	S05	E39	.627	9910	6.3	16	-N	C		.80	1.00						
CAPE	03	0858	0930	0905	S05	E40	.640	9910	6.4	32	-N	C	0905	.78	1.00					F	
ZURI	03	0859	0914	0905	S06	E38	.613	9910	6.2	15	-F	C	0905	.89	1.20						
ARCE	03	0905E	0941D		S06	E40	.640	9910	6.4	36D	-N	C	0905	.98	1.30					C	
702 CAPE	03	1109	1118	1112	N38	W19	.738	9893	2.0	9	--F	C	1112	.86	1.20					3	
703 CATA	03	1150	1207	1150	N17	W90	1.000	9903	27.7	12	--F		1150	.11				141		2	
GRP20705	03	1313	1331	1320	N34	W20	.699	9893	2.1	18	-N			1.04				4	4	4	4
CAPE	03	1313	1330	1321	N35	W20	.710	9893	2.1	17	-N	C	1321	.91	1.30						
SANM	03	1313	1328	1320	N33	W20	.689	9893	2.1	15	-F	C	1320	1.30	1.85					H	
CATA	03	1315E	1340D	1315	N34	W21	.705	9893	2.0	25D	-B	C	1315	1.33	1.92			257		E	
ZURI	03	1318E	1324	1323	N34	W19	.695	9893	2.1	6D	-F	C	1323	.63	.90					Z	
SANM	03	1329	1340	1336	N33	W21	.694	9893	2.0	11	-F	C	1336	.17	.25					D	
706 SACP	03	1444	1452	1445	N20	E83	.997	9918	9.8	8	--N	C		.18						3	
GRP20708	03	1629	1651	1635	N20	E87	1.000	9918	10.2	22	-B			.35				2	2	1	2
SACP	03	1629	1651	1635	N20	E85	.999	9918	10.1	22	-N	C		.35							
MCMA	03	1637E	1650		N20	E89	1.000	9918	10.4	13D	-B	P	1637								
GRP20709	03	1647	1713	1649	N36	W22	.731	9893	2.0	26	--B			.40				2	2	2	2
SACP	03	1647	1713	1649	N35	W22	.720	9893	2.0	26	-B	C		.54	.63						
MCMA	03	1648E	1708D		N36	W22	.731	9893	2.0	20D	-N	P	1652	.26	.40					DH	
710 SACP	03	1822	1826	1822	N34	W26	.732	9893	1.8	4	--F	C		.27	.32					3	
711 SACP	03	1902	1922	1903	N37	W24	.750	9893	2.0	20	--F	C		.53	.65					3	
GRP20712	03	2040	2102	2042	S01	E30	.506	9909	6.1	22	--N			.56				3	3	3	5
MCMA	03	2039	2045D		S00	E32	.538	9909	6.3	6D	-N	C	2043	.62	.80					E	
SACP	03	2040	2102	2042	S01	E29	.491	9909	6.0	22	-N	P		.62	.64						
HUAN	03	2040	2055D		S02	E29	.488	9909	6.0	15D	-F	1 C	2044	.45	.52					E	
713 SACP	03	2119	2135	2122	N34	W28	.744	9893	1.8	16	--B	C		.62	.76					3	
GRP20717	03	2353	0012	2356	N36	W30	.774	9893	1.7	19	--F			.73				2	2	2	4
SACP	03	2352	2355D	2355	N36	W30	.774	9893	1.7	3D	-N	C		.63	.79						
MANI	03	2353	0012	2357	N36	W29	.768	9893	1.8	19	-F	2	2357	.83	1.31						
GRP20719	04	0907	0924	0913	N35	W36	.802	9893	1.7	17	--F			1.03				2	2	1	4
ONDR	04	0905E	0924		N34	W35	.789	9893	1.8	19D	1F	V	0913			1.90				CH	
MANI	04	0909	0924	0913	N36	W36	.810	9893	1.7	15	-F	2	0913	1.03	1.70						

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MGMATH PLAGE REGION	OMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg		MAX. INT. %
	1969 FEB																	
GRP20720	04	1121	1128	1125	N37	W38	.828	9893	1.6	7	-N							
CAPE	04	1121	1128	1124	N37	W37	.822	9893	1.7	7D	-N	P	1124	.83	1.70		2 2 2 3	
CANR	04	1121	1128	1125	N36	W38	.822	9893	1.6	7	-N	C		.95	1.20			
	04	1145	1147	NO FLARE PATROL														
	04	1159	1202	NO FLARE PATROL														
721 CAPE	04	1412	1420	1414	N14	E54	.841	9911	8.6	8	-N	C	1414	.86	1.60		1	
723 HALE	04	1958	2017	2003	N17	E62	.910	9918	9.5	19	--F	2 C	2003	.62			H 1	
GRP20724	04	2100	2113	2104	N01	E13	.256	9909	5.9	13	--F			.24			2 2 2 3	
HALE	04	2100	2116	2103	N01	E12	.242	9909	5.8	16	-N	2 C	2103	.21	.20			
SACP	04	2100	2110	2105	N01	E13	.256	9909	5.8	10	-F	C		.27	.26			
GRP20725	04	2108	2238	2152	N02	E09	.211	9909	5.6	90	-N			1.80			4 4 4 4	
CULG	04	2104	2255	2151	N02	E10	.224	9909	5.6	111	1N	C	2151	2.27	2.20		HL	
SACP	04	2111	2201D	2153	N02	E09	.211	9909	5.6	50D	-N	C		1.95	1.91			
HALE	04	2125	2245	2153	N02	E08	.199	9909	5.5	80	-N	2 C	2153	1.86	1.90		FZ	
BOUL	04	2149E	2215	2149U	N02	E09	.211	9909	5.6	26D	-N	C		1.10	1.10			
GRP20726	04	2144	2208	2145	N13	E36	.651	9911	7.6	24	-N			1.01			2 2 2 4	
HALE	04	2144	2215	2146	N12	E36	.645	9911	7.6	31	-N	2 C	2146	1.13	1.50		HV	
SACP	04	2144	2200	2144	N13	E36	.651	9911	7.6	16	-N	C		.89	.99			
GRP20728	05	1039	1047	(1044)	S00	E03	.121	9909	5.7	8	--F			1.03			2 2 1 5	
CAPS	05	1038E	1043		S02	E02	.082	9909	5.6	5D	-N	1					D	
HTRP	05	1040	1050		N02	E03	.153	9909	5.7	10	-F	C	1044	1.03	1.00			
GRP20730	05	1142	1151	1144	N03	E00	.161	9909	5.5	9	--F			.65			3 3 3 4	
HTRP	05	1141	1149	1144	N03	E00	.161	9909	5.5	8	-F	C	1144	.52	.50			
CAPE	05	1141	1154	1143	N03	W01	.162	9909	5.4	13	-F	C	1143	.91	.90		H	
CATA	05	1145	1150	1145	N03	E00	.161	9909	5.5	5	-N	C	1145	.52	.53	180		
GRP20731	05	1244	1300	1249	N04	E03	.186	9909	5.8	16	--F			.59			2 2 2 4	
HTRP	05	1244	1300	1253	N04	E03	.186	9909	5.8	16	-F	C	1253	.83	.80			
CATA	05	1245E	1250D	1245	N04	E03	.186	9909	5.8	5D	-N	C	1245	.34	.35	174		
7 STATIONS REPORTING GROUP 20732.					0 STATIONS OBSERVING AND NOT REPORTING.													
GRP20732	05	1309	1443	1336	N03	E01	.162	9909	5.6	94	1N			2.14			6 5 5 7	
CAPE	05	1245	1430	1335	N03	E02	.165	9909	5.7	105	1N	C	1335	2.03	2.10		F	
HTRP	05	1302	1340	1305	N03	E06	.192	9909	6.0	38	-F	C	1305	.41	.40			
MCMA	05	1310E	1505		N02	E02	.148	9909	5.7	115D	1B	C	1330	2.58	2.60		FK	
HTRP	05	1315	1435	1330	N05	W01	.197	9909	5.5	80	-N	C	1330	1.13	1.10			
HUAN	05	1316E	1424		N05	W01	.197	9909	5.5	68D	-N	1 C	1333	1.44	1.44		E	
CATA	05	1318E	1350D	1344	N05	W01	.197	9909	5.5	32D	1B		1344	2.55	2.61	257		
CATA	05	1318E	1350D	1344	N01	E05	.154	9909	5.9	32D	-B		1344	.98	1.00	206		
CAPS	05	1410E	1503D		S02	E01	.077	9909	5.7	53D	-N	1	1418	1.30	1.30	171		
20732	05	1313	1330	1319	N01	E00	.127	9909	5.6	17	*-N			1.85			2 2 2 6	
CAPS	05	1310	1326D		S02	E02	.082	9909	5.7	16D	1N	1	1316	2.10	2.10	180		
CANR	05	1315	1330	1319	N04	W02	.182	9909	5.4	15	-N	C		1.60	1.60			
GRP20735	05	1640	1717	1645	N13	E36	.651	9911	8.4	37	-B			.99			3 2 2 3	
MCMA	05	1639	1735	1645	N13	E36	.651	9911	8.4	56	-B	C	1645	.77	1.00		EL	
CANR	05	1640	1658	1645	N13	E35	.640	9911	8.3	18	-N	C		1.20	1.60		E	
HALE	05	1709E	1748	1711	N14	E34	.634	9911	8.3	39D	-N	1 P	1711	.67	.90			
GRP20736	05	1708	1744	1714	N02	W02	.148	9909	5.6	36	--F			.47			2 2 2 3	
MCMA	05	1708	1735	1716	N02	E00	.144	9909	5.7	27	-F	C	1716	.52	.60		E	
HALE	05	1709E	1753	1712	N01	W03	.137	9909	5.5	44D	-N	1 P	1712	.41	.40			
GRP20737	05	1820	1830	1824	N02	W02	.148	9909	5.6	10	--F			.62			2 2 1 4	
MCMA	05	1819	1830	1824	N02	W02	.148	9909	5.6	11	-N	C	1824	.62	.60		E	
HUAN	05	1820	1829		N01	W01	.128	9909	5.7	9	-F	1 C						
738 HUAN	05	2029	2037		N01	W03	.137	9909	5.6	8	--F	1 C					E 3	
	05	2102	2117	NO FLARE PATROL														
GRP20739	05	2347	0000	2349	N01	W05	.154	9909	5.6	13	--N			.93			3 3 3 5	
MANI	05	2343E	2359		N01	W05	.154	9909	5.6	16D	-F	1	2346	.52	.52			
HALE	05	2346	2356D	2349	N01	W05	.154	9909	5.6	10D	-N	2 P	2349	1.13	1.10		F	
MITK	05	2352	0000		N02	W06	.178	9909	5.5	8	-N	C	2352	1.13	1.10		E	

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
	1969 FEB																	
GRP20742	06	0235	0322	0241	N14	E33	.623	9911	8.6	47	--F			.93				2 2 2 4
MITK	06	0235	0323	0239	N14	E33	.623	9911	8.6	48	-F	C	0239	.62	.80			E
MANI	06	0241E	0245D	0243	N14	E31	.600	9911	8.4	40	-F	C	0243	1.24	1.60			
MANI	06	0259E	0320	0304	N14	E33	.623	9911	8.6	21D	-F	C	0304	1.13	1.50			
GRP20743	06	0716	0823	0739	N13	E28	.558	9911	8.4	67	1N			3.27				6 4 4 7
CULG	06	0714	0741D	0740	N14	E27	.554	9911	8.3	27D	1B	P	0740	3.30	3.84			EU
TACH	06	0717	0800D	0729	N14	E28	.566	9911	8.4	43D	1F	C	0736	4.10	4.90	2.00	54	EW
TACH	06	0717	0800D	0736	N14	E28	.566	9911	8.4	43D	1F	C						FV
CAPE	06	0725	0815	0750	N13	E28	.558	9911	8.4	50	1N	C	0750	2.25	2.70			
HTPR	06	0726E	0825	0735	N12	E28	.550	9911	8.4	59D	1N	C	0735	2.37	2.60			
MANI	06	0730E	0820		N13	E28	.558	9911	8.4	50D	1N	1	0730	3.30	4.00			
CAPS	06	0804E	0830		N13	E26	.534	9911	8.3	26D	1F	1	0805	1.90	2.20			
GRP20744	06	1043	1104	1049	N14	E27	.554	9911	8.5	21	-N			1.32				5 5 5 7
MONT	06	1042	1102	1048	N14	E29	.577	9911	8.6	20	1N	C	1048	2.27				
CAPE	06	1042	1105	1048	N14	E27	.554	9911	8.5	23	-F	C	1048	.91	1.10			F
CAPS	06	1043	1100		N15	E25	.540	9911	8.3	17	-B	3	1045	.80	.90			225
CATA	06	1045	1110	1050	N14	E27	.554	9911	8.5	25	1B		1050	1.68	2.05			224
ARCE	06	1045E	1057D		N13	E28	.558	9911	8.5	12D	-N	C	1051	.92	1.10			EJ
GRP20745	06	1321	1352	1327	N18	E42	.744	9918	9.7	31	-N			1.06				3 3 3 6
MONT	06	1314	1401	1327	N17	E40	.718	9918	9.6	47	-N	C	1327	1.34				
CAPS	06	1324E	1339		N20	E45	.783	9918	9.9	15D	-B	3	1330	1.00	1.60			228
HTPR	06	1325	1355		N16	E40	.713	9918	9.6	30	-F	C	1330	.83	1.20			E
GRP20746	06	1454	1505	1457	N17	E39	.708	9918	9.5	11	-N			.92				4 4 4 6
SACP	06	1452	1509	1457	N17	E38	.697	9918	9.5	17	-F	C		.79	.94			
HTPR	06	1453	1505	1456	N16	E39	.702	9918	9.5	12	-N	C	1456	.93	1.50			
CAPE	06	1455	1505	1457	N16	E39	.702	9918	9.5	10	-N	C	1457	.86	1.20			
CANR	06	1455	1502	1458	N17	E39	.708	9918	9.5	7	-N	C		1.10	1.50			
750 SACP	06	2227	2240	2232	N18	E36	.683	9918	9.6	13	--N	C		.27	.30			1
GRP20755	07	0128	0139	0130	N18	E34	.663	9918	9.6	11	-B			.85				2 2 2 5
MANI	07	0128	0137	0130	N18	E34	.663	9918	9.6	9	-N	2	0130	.93	1.30			
HALE	07	0129U	0141U	0130	N17	E34	.655	9918	9.6	12D	-B	1	0130	.77	1.00			HV
GRP20758	07	0522	0622	0525	N02	W21	.384	9909	5.6	60	1N			2.47				3 3 3 6
MITK	07	0521	0608	0523	N01	W21	.378	9909	5.6	47	1N	C	0523	2.27	2.40			E
CULG	07	0522	0635	0526	N03	W20	.376	9909	5.7	73	1N	C	0526	3.09	3.24			V
MANI	07	0523E	0545D	0526	N01	W21	.378	9909	5.6	22D	1B	2	0526	2.06	2.10			
GRP20760	07	0855	0954	0931	N05	W30	.531	9906	5.1	59	-N			.89				3 3 3 12
CAPE	07	0855	0958	0927	N05	W30	.531	9906	5.1	63	-F	C	0927	.86	1.00			F
ARCE	07	0920	0958	0935	N05	W31	.544	9906	5.1	38	-N	C	0935	1.01	1.20			K
CANR	07	0930E	0945	0931	N04	W29	.512	9906	5.2	15D	-N	C		.80	1.00			E
6 STATIONS REPORTING GROUP 20762. 5 STATIONS OBSERVING AND NOT REPORTING.																		
GRP20762	07	0942	0956	0946	S01	W27	.461	9909	5.4	14	-N			.83				4 4 4 11
CATA	07	0935E	1010D	0945	S02	W28	.474	9909	5.3	35D	-B		0945	.52	.60			234
CANR	07	0942	0955	0945	S01	W26	.446	9909	5.5	13	-N	C		.90	1.00			E
MONT	07	0943	0948	0945	S01	W25	.431	9909	5.5	5	-N	C	0945	.46				
ARCE	07	0944	1004	0948	N01	W28	.483	9909	5.3	20	-N	C	0948	1.44	1.60			
20762	07	0916	0955	0935	N03	W30	.521	9909	5.1	39	*-N			.96				3 3 3 12
CATA	07	0910E	0955	0935	N03	W30	.521	9909	5.1	45D	-N		0935	.98	1.16			174
ZURI	07	0913	0955	0935	N03	W31	.535	9909	5.1	42	-F	C	0935	.69	.80			
CAPS	07	0925	0940D		N02	W28	.488	9909	5.3	15D	-B	2	0926	1.20	1.40			212
GRP20763	07	0939	0946	0940	N20	E30	.637	9918	9.7	7	--N			.43				3 3 3 12
MONT	07	0938	0944	0939	N19	E30	.629	9918	9.7	6	-N	C	0939	.41				
ARCE	07	0939	0945	0941	N19	E30	.629	9918	9.7	6	-N	C	0941	.43	.50			E
CATA	07	0940	0950	0940	N21	E29	.636	9918	9.6	10	-N		0940	.46	.60			195
GRP20764	07	0955	1009	0959	N08	E01	.249	9911	7.5	14	--N			.60				5 5 5 10
CATA	07	0955	1015D	1000	N08	W01	.249	9911	7.3	20D	-N		1000	.58	.60			199
ARCE	07	0955	1012D	0959	N08	W01	.249	9911	7.3	17D	-N	C	0959	.89	.90			E
ZURI	07	0955	1003	0959	N09	W01	.266	9911	7.3	8	-F	C	0959	.63	.70			
MONT	07	0956	1005	0958	N08	E01	.249	9911	7.5	9	-N	C	0958	.21				
CAPS	07	0958E	1011D		N08	E08	.284	9911	8.0	13D	-N	2	0959	.70	.70			164

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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 FEB																
		08 0759	0800	NO FLARE PATROL													
		08 0802	0808	NO FLARE PATROL													
GRP20793		08 1202	1224	1207	N12 E01	.317	9911	8.6	22	-B							3 3 3 4
HTPR		08 1200	1230	1208	N12 E02	.319	9911	8.6	30	1B	C	1208	2.17	2.20			H
CAPE		08 1203	1230	1206	N13 E01	.334	9911	8.6	27	-N	C	1206	1.17	1.20			HV
CANR		08 1204	1212	1206	N12 E00	.317	9911	8.5	8	-B	C		1.80	2.00			EH
GRP20794		08 1606	1632	1611	N19 E14	.484	9918	9.7	26	--F			.44				2 2 1 4
SACP		08 1606	1632U	1611	N19 E14	.484	9918	9.7	26D	-N	C		.44	.45			
HUAN		08 1606	1611D	1611	N18 E14	.471	9918	9.7	5D	-F	1	P					D
GRP20796		08 1717	1743	1722	S01 W42	.672	9909	5.6	26	-N			.88				4 4 4 4
SACP		08 1715	1751	1722	S01 W42	.672	9909	5.6	36	-F	C		.79	.91			
BOUL		08 1717	1730	1720	S01 W41	.659	9909	5.6	13	-N	C		.70	1.10			
HALE		08 1717	1757	1723	S00 W42	.674	9909	5.6	40	-N	1	C	1723	1.13	1.50		
CANR		08 1717	1732	1722	S02 W42	.671	9909	5.6	15	-N	C		.90	1.30			E
GRP20798		08 1735	1748	1736	N12 W03	.321	9911	8.5	13	--N			.38				2 2 2 4
SACP		08 1734	1746	1736	N11 W03	.304	9911	8.5	12	-N	C		.35	.35			
HALE		08 1735	1749	1736	N12 W03	.321	9911	8.5	14	-N	1	C	1736	.41	.40		
GRP20799		08 1750	1807	1751	N19 E13	.477	9918	9.7	17	-B			1.09				4 4 4 4
SACP		08 1749	1810	1751	N19 E13	.477	9918	9.7	21	-B	C		1.14	1.18			
BOUL		08 1750	1805	1751	N18 E14	.471	9918	9.8	15	-N	C		1.00	1.20			
HALE		08 1750	1813	1752	N19 E13	.477	9918	9.7	23	-B	2	C	1752	1.13	1.30		
CANR		08 1750	1800	1751	N18 E13	.464	9918	9.7	10	-B	C		1.10	1.20			Z
GRP20800		08 1851	1902	1854	S10 W30	.498	9910	6.5	11	--F			.38				2 2 2 3
HUAN		08 1851	1857	1853	S09 W30	.497	9910	6.5	6	-F	2	C	1853	.41	.47		
SACP		08 1851	1906	1854	S10 W30	.498	9910	6.5	15	-F	C		.35	.37			E
GRP20801		08 1926	1937	1928	N11 W04	.308	9911	8.5	11	--N			.61				3 3 3 4
SACP		08 1925	1940	1927	N11 W04	.308	9911	8.5	15	-N	C		.62	.61			
HUAN		08 1925	1934	1928	N11 W04	.308	9911	8.5	9	-N	1	C	1928	.70	.73		
HALE		08 1927	1938	1929	N12 W04	.324	9911	8.5	11	-B	2	C	1929	.52	.50		
GRP20802		08 2005	2014	2007	N18 E11	.450	9918	9.7	9	--N			.18				2 2 2 3
SACP		08 2004	2012	2007	N18 E11	.450	9918	9.7	8	-N	C		.09	.09			
HALE		08 2005	2015	2006	N18 E11	.450	9918	9.7	10	-N	2	C	2006	.26	.30		
803 HALE		08 2029	2037	2030	N13 W14	.406	9911	7.8	8	--N	1	C	2030	.31	.30		
804 SACP		08 2223	2229	2225	N12 W06	.332	9911	8.5	6	--F	C		.18	.18			2
805 SACP		08 2227	2237U	2229	N19 E10	.459	9918	9.7	10D	--N	C		.09	.09			2
GRP20806		08 2330	2340	2333	N19 E09	.454	9918	9.7	10	--N			.67				3 3 3 4
MANI		08 2329	2338	2333	N20 E10	.473	9918	9.7	9	-N	2	C	2333	.77	.88		
HALE		08 2331	2346	2334	N19 E09	.454	9918	9.7	15	-N	2	C	2334	.52	.60		
VORO		08 2331	2336	2333	N19 E09	.454	9918	9.7	5	-B	C		.73	.81	.72	88	Z DJ
GRP20809		09 0037	0100	0040	S10 W34	.556	9910	6.5	23	--B			.53				2 2 2 5
VORO		09 0037	0057	0040	S11 W34	.557	9910	6.5	20	-B	C		.64	.79	.63	64	EJ
HALE		09 0041E	0102		S09 W33	.541	9910	6.6	21D	-N	2	P	0040 0041	.41	.50		
815 CAPE		09 0657	0715	0659	N14 W09	.381	9911	8.6	18	-N	C		.96	1.00			2
GRP20816		09 1013	1027	1018	N13 W11	.381	9911	8.6	14	--F			.57				2 2 2 5
CAPE		09 1013	1030	1017	N13 W11	.381	9911	8.6	17	-F	C		.87	1.00			
MONT		09 1013	1023	1018	N13 W11	.381	9911	8.6	10	-N	C		.26				
GRP20820		09 1349	1403	1354	N13 W13	.397	9911	8.6	14	--N			.75				7 7 7 9
LOCA		09 1347	1402	1355	N11 W14	.381	9911	8.5	15	-N			.85	.90			
SANM		09 1348	1402	1352	N13 W13	.397	9911	8.6	14	-F	V	C	1355	.48	.55		
HUAN		09 1349	1400	1351	N13 W13	.397	9911	8.6	11	-N	2	C	1351	.41	.45		
CAPE		09 1350	1402	1352	N13 W12	.389	9911	8.7	12	-F	C		.84	.90			
CAPP		09 1352E	1400D		N12 W13	.384	9911	8.6	8D	-N	P		1.44	1.61			
CAPS		09 1352E	1405		N12 W11	.367	9911	8.8	13D	-B	3		.60	.70			
CATA		09 1400E	1410D	1400	N14 W13	.411	9911	8.6	10D	-N			.63	.70			

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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.												
	1969 FEB																	
GRP20840	10	1626	1636	1628	N03	W71	.948	9909	5.4	10	--N			.43				3 3 3 3
SACP	10	1625	1640	1628	N03	W70	.943	9909	5.4	15	--N	C		.54	1.01			
CANR	10	1626	1631	1628	N04	W71	.949	9909	5.4	5	--N	C		.50	1.30			
MCMA	10	1627	1636	1628	N03	W72	.954	9909	5.3	9	--F	C	1428	.26	1.00			DH
GRP20841	10	1734	1753	1740	N13	W40	.698	9911	7.7	19	--N			.35				3 3 3 4
MCMA	10	1730	1800	1739	N12	W42	.716	9911	7.6	30	--N	C	1739	.52	.70			EH
SACP	10	1734	1750	1741	N13	W40	.698	9911	7.7	16	--B	C		.18	.21			
HALE	10	1737	1750	1739	N13	W39	.687	9911	7.8	13	--N	2 C	1739	.36	.50			
GRP20842	10	1812	1820	1815	N18	W15	.480	9918	9.6	8	--F			.22				2 2 2 5
SACP	10	1811	1820	1814	N18	W15	.480	9918	9.6	9	--N	C		.18	.18			
MCMA	10	1813	1820	1815	N18	W14	.473	9918	9.7	7	--F	C	1815	.26	.30			D
GRP20843	10	1913	1920	1915	N18	W15	.480	9918	9.7	7	--F			.22				2 2 2 4
SACP	10	1912	1920	1915	N18	W16	.488	9918	9.6	8	--N	C		.18	.18			
MCMA	10	1913	1919	1915	N18	W14	.473	9918	9.8	6	--F	C	1915	.26	.30			D
GRP20844	10	1933	1943	1935	N18	W15	.480	9918	9.7	10	--B			.82				3 3 3 3
MCMA	10	1933	1945	1936	N18	W14	.473	9918	9.8	12	--B	C	1936	.31	.40			EHV
SACP	10	1933	1944	1935	N18	W16	.488	9918	9.6	11	--N	C		1.34	1.37			
SANM	10	1933	1941	1935	N17	W14	.459	9918	9.8	8	--B	C	1935	.80	.90			E
GRP20845	10	1959	2032	2010	N13	W44	.742	9911	7.5	33	--F			.22				2 2 2 5
MCMA	10	1957	20140		N14	W43	.736	9911	7.6	17D	--N	C		.18	.22			DMK
SACP	10	2000	2039	2010	N12	W44	.738	9911	7.5	39	--F	C		.18	.22			
MCMA	10	2014	2025		N14	W43	.736	9911	7.6	11	--N		2018	.26	.40			
GRP20848	10	2104	2119	2109	S02	W70	.939	9909	5.6	15	--F			.97				2 2 1 5
SANM	10	2104	2118	2109	S03	W69	.932	9909	5.7	14	1F	C	2109	.97				U
HUAN	10	2104	2120		S00	W70	.941	9909	5.6	16	--F	1 C						
GRP20851	10	2208	2235	2217	S01	W77	.974	9909	5.1	27	--N			.52				3 3 3 4
SACP	10	2204	2255	2216	S02	W76	.970	9909	5.2	51	--F	C		.71	1.61			
BOUL	10	2209	2225	2217	S00	W78	.978	9909	5.1	16	--N	C		.40	1.10			
HUAN	10	2210	2225		S02	W78	.978	9909	5.1	15	--N	1 C	2215	.45				
GRP20853	10	2247	2259	2248	N14	W44	.746	9911	7.6	12	--N			.70				2 1 1 4
BOUL	10	2247	2259D	2248	N14	W44	.746	9911	7.6	12D	--N	C		.70	1.10			E
MANI	10	2255	2313	2259	N14	W43	.736	9911	7.7	18	--F	2 C	2259	.77	1.20			
GRP20854	10	2302	2321	2306	N28	W70	.969	9907	5.7	19	--F			.66				2 2 2 3
SACP	10	2300	2321	2305	N27	W69	.964	9907	5.8	21	--F	C		.80	1.73			
MANI	10	2304	2320	2306	N28	W70	.969	9907	5.7	16	--N	2 C	2306	.52	1.30			
GRP20856	11	0022	0038	0028	N13	W47	.773	9911	7.5	16	--B			1.11				4 4 4 5
MANI	11	0015	0048	0027	N14	W46	.767	9911	7.6	33	1N	2 C	0027	1.65	2.60			
SACP	11	0022	0038	0029	N14	W46	.767	9911	7.6	16	--N	C		1.29	1.63			
HALE	11	0026	0035	0028	N14	W47	.777	9911	7.5	9	--B	2 C	0028	.41	.70			F
VORO	11	0026	0032	0028	N11	W48	.776	9911	7.4	6	--B	C	0028	1.09	1.60	1.08	91	EJH
GRP20858	11	0135	0154	0137	N13	W47	.773	9911	7.5	19	--N			.93				2 2 2 5
VORO	11	0134	0137D	0136	N12	W48	.780	9911	7.5	30	--B	P	0136	.73	1.07	.72	94	DH
MANI	11	0135	0154	0137	N14	W46	.767	9911	7.6	19	--F	2 C	0137	1.13	1.80			
GRP20860	11	0253	0312	0258	N12	W48	.780	9911	7.5	19	1N			2.01				4 3 3 5
KODA	11	0250	0302	0257	N12	W47	.770	9911	7.6	12	--N	V	0256	2.00	2.00	2.48		D
VORO	11	0255	0312D	0258	N11	W49	.786	9911	7.4	17D	1B	P	0258	1.55	2.30	1.52	93	EJ
MANI	11	0255	0321D	0259	N14	W47	.777	9911	7.6	26D	1N	2 C	0259	2.48	3.90			
HALE	11	0301	0332D	0309	N15	W47	.781	9911	7.6	31D	1N	1 C	0309	1.86	3.00			
865 MANI	11	0638	0643D		S15	W73	.951	9926	5.8	50	--F	2 C	0643	.62	1.40			2
GRP20866	11	0710	0735	0716	N18	W24	.562	9918	9.5	25	--F			1.13				2 2 2 4
ARCE	11	0708E	0740D		N19	W24	.572	9918	9.5	32D	--N	C	0715	1.01	1.20			E
MANI	11	0711	0729	0716	N16	W24	.542	9918	9.5	18	--F	2 C	0716	1.24	1.30			
GRP20868	11	0751	0801	0755	S00	W82	.990	9909	5.2	10	--F			.47				2 2 2 6
HTPR	11	0751	0800	0755	N02	W80	.986	9909	5.3	9	--F	C	0755	.62				
MANI	11	0751	0802	0755	S02	W83	.992	9909	5.1	11	--F	2 C	0755	.31	.80			
GRP20872	11	1015	1037	1020	N13	W44	.742	9911	8.1	22	--N			.68				3 3 3 7
MONT	11	1014	1039	1019	N13	W42	.721	9911	8.3	25	--N	C	1019	.77				
HTPR	11	1015	1030	1020	N12	W45	.749	9911	8.1	15	--N	C	1020	.72	1.00			
ARCE	11	1015E	1041		N15	W44	.751	9911	8.1	26D	--N	C	1020	.55	.80			CW

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
	1969 FEB																	
		12 2051	2119															
		12 2133	2149															
896 SACP		12 2229	2238D	2230	N11	W66	.927	9911	8.0	9D	--F	C		.27	.48			3
898 MANI		13 0221	0233	0224	S12	E76	.966	9936	18.8	12	--F	2	0224	.36	.80			2
GRP20901		13 0355	0418	0359	N14	W75	.975	9911	7.5	23	1N			.78				2 2 2 6
HALE		13 0355	0406D	0358	N13	W75	.975	9911	7.5	11D	1N	1	P 0358	.62				
MANI		13 0355	0418	0359	N15	W74	.972	9911	7.6	23	1N	2	0359	.93	2.30			
GRP20906		13 1627	1646	1632	N13	W84	.997	9911	7.4	19	-B			.70				3 3 2 3
MCMA		13 1627	1648	1632	N12	W85	.998	9911	7.3	21	-B	C					DH	
BOUL		13 1627	1640U	1637	N15	W85	.999	9911	7.3	13D	-N							
CANR		13 1628	1643	1632	N13	W82	.994	9911	7.5	15	1B	C		.80	2.60			
CANR		13 1628	1643	1632	N13	W82	.994	9911	7.5	15	1B	C		.80	2.60			
908 MCMA		13 1724	1754	1735	N12	W85	.998	9911	7.3	30	--F	C						D 3
909 HALE		13 1808	1821	1812	N05	W58	.858	9911	9.4	13	--N	1	C 1812	.46	.90			J 3
GRP20910		13 1810	1822	1814	N12	W81	.992	9911	7.7	12	-N			.56				3 3 2 3
CANR		13 1808	1815	1811	N14	W80	.990	9911	7.8	7	-N	C		.60	2.00			
CANR		13 1808	1815	1811	N14	W80	.990	9911	7.8	7	-N	C		.60	2.00			
MCMA		13 1808	1815D	1812	N08	W80	.988	9911	7.8	7D	-N	C						E
HALE		13 1815	1825	1818	N13	W82	.994	9911	7.6	10	1B	1	C 1818	.52				EHK
MCMA		13 1815	1827	1818	N11	W85	.998	9911	7.4	12	-N							J
		13 2007	2014															
911 MCMA		13 2014E	2032		N12	W88	1.000	9911	7.2	18D	-B	C	2014					1
		13 2108	2115															
		13 2130	2134															
912 HUAN		13 2139	2142D		N13	W86	.999	9911	7.5	3D	-N	1	P 2140	.25				1
		13 2142	2203															
		13 2221	2231															
913 HALE		13 2300	2318	2302	N12	W89	1.000	9911	7.3	18	-N	2	C 2302	.26				J 1
GRP20914		13 2339	0020	2350	N13	W87	1.000	9911	7.5	41	-B			.44				2 2 2 4
CULG		13 2329	0028D	2348	N13	W85	.998	9911	7.6	59D	1N	P	2348	.52				
HALE		13 2349	0012	2351	N12	W89	1.000	9911	7.3	23	-B	2	C 2351	.36				R J
GRP20918		14 1120	1139	1124	N10	W90	1.000	9911	7.7	19	-B			.68				2 2 2 5
CAPE		14 1120	1150	1125	N10	W90	1.000	9911	7.7	30	-N	C	1125	.96				
CANR		14 1120	1127	1123	N10	W90	1.000	9911	7.7	7	-B	C		.40	1.60			H
920 SACP		15 1433	1439	1435	N26	E41	.783	9935	18.7	6	--F	C		.19	.23			2
921 HUAN		15 1800	1806		N25	E40	.769	9935	18.8	6	--F	1	C					3
GRP20923		16 1102	1113	1105	N17	W35	.670	9933	13.8	11	--N			.71				3 3 3 5
CAPE		16 1102	1117	1104	N17	W36	.680	9933	13.8	15	-N	C	1104	.92	1.30			
CAPS		16 1102	1112		N17	W34	.659	9933	13.9	10	-B	3	1105	.70	.90			
HTRP		16 1102	1110	1106	N18	W35	.676	9933	13.8	8	-F	C	1106	.52	.60		180	
GRP20928		16 1751	1808	1754	N27	E27	.679	9935	18.8	17	--N			.56				2 2 2 4
SACP		16 1750	1806	1754	N26	E26	.662	9935	18.7	16	-N	C		.80	.91			
MCMA		16 1751	1810	1754	N27	E27	.679	9935	18.8	19	-N	C	1754	.31	.40			DL
GRP20929		16 1843	1927	1854	S10	W11	.196	9944	16.0	44	--N			.47				3 2 2 3
SACP		16 1834	1927	1854	S11	W10	.186	9944	16.0	53	-N	C		.63	.61			
MCMA		16 1851	1918D		S08	W11	.190	9944	16.0	27D	-N	C	1900	.31	.30			D
HUAN		16 1907E	1918		S11	W10	.186	9944	16.0	11D	-F	1	P 1909	.25	.25			E
GRP20930		16 1911	1925	1916	N26	E26	.662	9935	18.7	14	--N			.47				3 3 3 4
SACP		16 1908	1926	1916	N26	E25	.654	9935	18.7	18	-N	C		.54	.60			
MCMA		16 1910	1918D		N27	E27	.679	9935	18.8	8D	-N	P	1915	.41	.50			D
HUAN		16 1915	1923		N25	E25	.644	9935	18.7	8	-N	1	C 1917	.45	.59			E
931 MCMA		16 2035	2126D		N12	E58	.872	9941	21.2	51D	--N	C	2055	.26	.50			DH 3

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	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. %
1969 FEB																	
GRP20984	21	0031	0047	0035	N21 E25	.606	9946	22.9	16	1N			1.83			5 5 5 5	
CULG	21	0030	0051	0038	N22 E24	.607	9946	22.8	21	1N	C	0038	2.06	2.50		H	
VORO	21	0031	0042	0035	N22 E23	.598	9946	22.7	11	1B	C	0035	1.97	2.46		E	
SACP	21	0031	0043	0035	N20 E24	.586	9946	22.8	12	-B	C		1.76	1.90			
MANI	21	0032	0052	0034	N20 E27	.614	9946	23.0	20	-N	2	0034	1.55	2.00			
CRON	21	0032	0045	0034	N19 E25	.586	9946	22.9	13	1N	C		1.80	2.30		EL	
GRP20986	21	1019	1023	1019	N12 E37	.662	9946	24.2	4	--B			.54			4 4 4 7	
ZURI	21	1018	1020	1019	N12 E36	.650	9946	24.1	2	-N	C	1019	.53	.70			
CAPE	21	1018	1023	1019	N11 E38	.668	9946	24.3	5	-N	C	1019	.87	1.20		V	
CAPS	21	1018E	1024		N10 E38	.663	9946	24.3	60	-B	3	1021	.30	.40		D	
CATA	21	1020	1025	1020	N13 E37	.667	9946	24.2	5	-B		1020	.46	.62		220 269	
GRP20987	21	1052	1115	1056	N15 E22	.515	9946	23.1	23	--N			.48			3 3 3 5	
HTPR	21	1046	1115	1056	N15 E20	.495	9946	22.9	29	-F	C	1056	.41	.40			
CATA	21	1055E	1105D	1055	N15 E22	.515	9946	23.1	100	-N		1055	.23	.27		186	
CAPS	21	1056	1115D		N15 E24	.536	9946	23.3	19D	-B	3	1057	.80	.90		204	
GRP20988	21	1345	1410	1353	S14 W40	.641	9936	18.6	25	-N			.76			3 3 3 7	
ZURI	21	1338	1408	1356	S15 W39	.630	9936	18.6	30	-F	C	1356	.53	.70			
LOCA	21	1346	1410	1350	S14 W43	.679	9936	18.3	24	-N	V	1350	1.26	1.60			
CAPS	21	1351	1412D		S13 W37	.600	9936	18.8	21D	-B	3	1353	.50	.70		196	
	21	1622	1640		NO FLARE PATROL												
	21	1652	1815		NO FLARE PATROL												
989 HUAN	21	1827E	1831		N14 E37	.673	9946	24.5	40	--F	1 P						1
990 HUAN	21	1835	1839		N12 E20	.462	9946	23.3	4	--F	1 C						D 1
	21	1845	1849		NO FLARE PATROL												
	21	1852	1903		NO FLARE PATROL												
	21	1904	1920		NO FLARE PATROL												
	21	2026	2043		NO FLARE PATROL												
GRP20991	21	2100	2123	2103	N14 E09	.388	9946	22.6	23	--B			.40			2 2 2 3	
MCMA	21	2059	2123D		N14 E08	.382	9946	22.5	24D	-B	C	2108	.52	.60		DL	
SACP	21	2101	2103D	2103U	N13 E09	.374	9946	22.6	2D	-N	P		.27	.27			
GRP20993	21	2318	2344	2323	N14 E07	.377	9946	22.5	26	--F			.76			2 2 2 5	
MANI	21	2318	2344	2321	N14 E06	.372	9946	22.4	26	-F	2	2321	.62	.70			
SACP	21	2319E	2329D	2325U	N13 E07	.362	9946	22.5	10D	-N	C		.90	.89			
GRP20996	22	0745	0815	0750	N14 E05	.369	9946	22.7	30	-F			2.79			2 2 2 6	
MANI	22	0744	0817	0750	N14 E06	.373	9946	22.8	33	-N	2	0750	1.44	1.60			
WEND	22	0746	0812		N13 E03	.347	9946	22.5	26	1F	V		4.13				
GRP20997	22	0834	0851	0838	N15 W02	.377	9946	22.2	17	-N			1.14			4 4 4 6	
CAPE	22	0834	0850	0838	N14 W02	.361	9946	22.2	16	-N	C	0838	.96	1.00		FV	
CRON	22	0834	0850	0839	N13 W01	.344	9946	22.3	16	1F	C		1.90	2.10			
MANI	22	0834	0853	0839	N15 W02	.377	9946	22.2	19	-F	2	0839	1.13	1.20			
CATA	22	0835E	0840D	0835	N16 W02	.393	9946	22.2	5D	-B		0835	.58	.63		209	
GRP21002	22	1248	1322	1302	N14 E05	.369	9946	22.9	34	-N			1.42			5 5 5 6	
HUAN	22	1245	1315		N14 E04	.366	9946	22.8	30	-N	1 C	1302	.62	.66		E	
ZURI	22	1245	1311	1305	N14 E05	.369	9946	22.9	26	-N	C	1305	1.54	1.60			
CAPE	22	1245	1320	1302	N15 E05	.385	9946	22.9	35	-N	C	1302	.87	.90		F	
WEND	22	1258	1325D		N15 E05	.385	9946	22.9	27D	1F	V		3.09				
CATA	22	1300E	1340D	1300	N14 E07	.378	9946	23.1	40D	-B		1300	.98	1.07		246	
GRP21004	22	1449	1503	1451	N07 W36	.623	9941	19.9	14	--N			.75			3 3 3 3	
SANN	22	1449	1502	1451	N07 W35	.611	9941	20.0	13	-N	C	1451	1.13	1.40			
SACP	22	1449	1510	1450	N07 W34	.598	9941	20.1	21	-B	C		.54	.58			
HUAN	22	1450	1457		N08 W38	.653	9941	19.8	7	-N	1 C	1451	.57	.68			
005 SACP	22	1711	1728	1714	N14 E21	.494	9946	24.3	17	--N	C		.36	.37		1	
GRP21006	22	1758	1817	1804	N15 E21	.505	9946	24.3	19	-N			1.10			2 2 2 2	
SACP	22	1755	1822	1804	N15 E21	.505	9946	24.3	27	-N	C		.90	.92			
BOUL	22	1800	1812	1804	N15 E21	.505	9946	24.3	12	-N	C		1.30	1.40		E	
007 HUAN	22	1830	1834		N14 E19	.474	9946	24.2	4	--F	1 C					3	
008 HUAN	22	1849	1857		N14 E06	.373	9946	23.2	8	--F	1 C					D 3	

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	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. %		
1969 FEB																			
GRP21037	23	1946	2015	1950	N12	W17	.431	9946	22.5	29	-N							4 4 4 4	
SACP	23	1944	2013	1950	N12	W17	.431	9946	22.5	29	-N	C							
BOUL	23	1946	2010	1948	N11	W16	.408	9946	22.6	24	1N	C						E	
HUAN	23	1946	2019D		N12	W18	.441	9946	22.5	33D	-N	1 C	1955	.66	.72			E	
HALE	23	1948	2017	1951	N12	W17	.431	9946	22.5	29	-N	1 C	1951	.98	1.10				
GRP21042	23	2123	2212	2136	S17	E74	.955	9957	1.4	49	-N							4 4 3 4	
CULG	23	2119	2225	2133	S17	E74	.955	9957	1.4	66	1N	C	2133	.66				H	
SACP	23	2123	2159	2139	S16	E73	.950	9957	1.4	36	-N	C		.54	1.07				
HALE	23	2127	2213	2136	S16	E73	.950	9957	1.4	46	-N	1 C	2136	.41					
HUAN	23	2135E	2210D		S17	E75	.959	9957	1.5	35D	-N	1 P						E	
GRP21045	24	0007	0023	0012	N14	W13	.418	9946	23.0	16	-N							3 3 3 6	
VORO	23	2357	0034	0008	N12	W08	.353	9946	23.4	37	1B	C	0008	1.09	2.14		89	EJ	
SACP	24	0011	0018	0014	N15	W15	.449	9946	22.9	7	-N	C		.36	.36				
HALE	24	0014	0018	0015	N15	W16	.458	9946	22.8	4	-N	1 C	0015	.93	1.00			H	
GRP21051	24	0529	0612	0535	S19	E73	.949	9957	1.7	43	-N							3 2 2 5	
CULG	24	0528	0620	0534	S17	E70	.933	9957	1.5	52	1N	C	0534	1.01	1.24				
HANI	24	0529	0603	0535	S20	E75	.959	9957	1.9	34	-N	2 C	0535	.77	1.70				
CRON	24	0607E	0630	0607U	S21	E74	.954	9957	1.8	23D	2N	C		2.30	6.00			BE	
053 ARCE	24	0950	0959	0951	N12	W22	.486	9946	22.8	9	-N	C	0951	.88	1.00			2	
	24	0959	1000		NO FLARE PATROL														
	24	1020	1021		NO FLARE PATROL														
054 ARCE	24	1021E	1032D		S26	W37	.642	9945	21.7	11D	--N	C	1022	.31	.40			D	
055 ARCE	24	1021	1032	1023	N12	E03	.332	9946	24.7	11	-N	8 C	1023	1.09	1.20			E	
	24	1220	1223		NO FLARE PATROL														
	24	1228	1300		NO FLARE PATROL														
	24	1310	1320		NO FLARE PATROL														
4 STATIONS REPORTING GROUP 21056. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP21056	24	1431	1500	1433	N11	W26	.524	9946	22.7	29	-B							2 2 2 2	
CANR	24	1431	1500	1433	N11	W25	.512	9946	22.7	29	-N	C		1.80	1.50	1.70		E	
CAPS	24	1435E	1458D		N11	W26	.524	9946	22.7	23D	1B	1 C	1439	2.10	2.40		228		
21056	24	1441	1542	1510	N12	W28	.556	9946	22.5	61	*-N			1.64				2 2 2 3	
SACP	24	1441E	1554	1510	N11	W28	.548	9946	22.5	73D	-N	1 C		2.15	2.27				
HUAN	24	1505E	1530		N12	W28	.556	9946	22.5	25D	-N	1 C	1511	1.12	1.38				
056 SACP	24	1458	1513	1506	N15	W11	.417	9946	23.8	15	*-N	C		.71	.72			4	
GRP21057	24	1717	1744	1722	N12	W31	.592	9946	22.4	27	-N							2 2 2 3	
SACP	24	1716	1748	1722	N11	W31	.585	9946	22.4	32	-N	C		1.00	.80	.86			
CANR	24	1717	1740	1721	N13	W30	.587	9946	22.5	23	-N	C		1.20	1.40			E	
GRP21058	24	1935	2005	1938	N11	W29	.560	9946	22.6	30	-N			.85				3 2 2 4	
BOUL	24	1934	1957	1937	N11	W29	.560	9946	22.6	23	-N	C		.80	1.00				
SACP	24	1935	2012	1939	N10	W29	.553	9946	22.6	37	-N	C		.90	.94				
MCMA	24	2011E	2025D		N12	W30	.580	9946	22.6	14D	-N	C	2012	1.03	1.30			F	
GRP21059	24	2030	2116	2039	N12	W33	.615	9946	22.4	46	1N			2.92				4 3 3 5	
SACP	24	2025	2115	2035	N11	W33	.609	9946	22.4	50	1N	C		2.15	2.34				
CULG	24	2030E	2120	2039	N13	W31	.599	9946	22.5	50D	1N	P	2039	2.48	3.00				
HALE	24	2036	2108	2042	N12	W35	.639	9946	22.2	32	2B	1 C	2042	4.13	5.40				
HUAN	24	2106E	2120D		N13	W33	.622	9946	22.4	14D	-F	1 P						E	
060 HALE	24	2049	2108	2052	N17	W09	.434	9946	24.2	19	-N	1 C	2052	1.03	1.10			F	
GRP21062	24	2204	2222	2209	S29	W45	.739	9945	21.5	18	-N			1.07				3 3 2 5	
SACP	24	2159	2227	2210	S29	W43	.719	9945	21.7	28	-B	C		1.34	1.61				
HUAN	24	2205	2212D		S29	W46	.749	9945	21.5	7D	-N	1 P						E	
BOUL	24	2207	2217	2208	S28	W45	.735	9945	21.5	10	-N	C		.80	1.20			EH	

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	DATE 1969 FEB	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. %		
GRP21064	24	2306	0003	2316	N12 W32	.604	9946	22.6	57	2B							6 6 6 7	
CULG	24	2250	0050	2318	N12 W31	.592	9946	22.6	120	2B	C	2318	4.85	5.87			ST	
SACP	24	2300	2356D	2315	N11 W31	.585	9946	22.6	56D	2B	C		4.92	5.29				
MANI	24	2305	0015	2316	N12 W31	.592	9946	22.6	70	2B	2	2316	5.57	6.90				
BOUL	24	2310	2323D	2313	N11 W29	.560	9946	22.8	13D	1N			3.80	4.60			E	
HALE	24	2310	2319D		N12 W33	.615	9946	22.5	9D	2B	1	2317	5.16	6.50			FZ	
CRON	24	2320E	2335	2320U	N12 W31	.592	9946	22.6	15D	2N	C		4.40	5.30				
SACP	24	2320	2351	2330	N12 W40	.696	9946	22.0	31	-N	C		.44	.52				
GRP21065	25	0050	0120	0056	N17 W11	.446	9946	24.2	30	-N			1.43				6 6 6 6	
SACP	25	0046	0055D	0053	N17 W11	.446	9946	24.2	9D	-N	C		.93	.94				
CULG	25	0049	0130	0058	N17 W10	.440	9946	24.3	41	1N		0058	2.06	2.20				
VORO	25	0049	0105	0052	N16 W12	.439	9946	24.1	16	-B	C	0052	1.79	2.04		85	EJL	
CRON	25	0052	0111	0056	N17 W11	.446	9946	24.2	19	-N	C		1.00	1.10				
HALE	25	0052	0057D	0056	N17 W10	.440	9946	24.3	50	-B	1	0056	1.34	1.50			F	
MANI	25	0052	0132	0058	N17 W09	.434	9946	24.4	40	-N	2	0058	1.44	1.60				
GRP21069	25	0606	0646	0613	N13 W36	.657	9946	22.6	40	-B			1.93				4 4 4 6	
CULG	25	0604	0610D		N13 W36	.657	9946	22.6	6D	1N	P	0610	1.86	2.34				
MANI	25	0607	0644	0613	N13 W34	.634	9946	22.7	37	-B	2		1.24	1.60				
CRIM	25	0609E	0648D	0612	N13 W36	.657	9946	22.6	39D	1N	C	0612	3.60	4.80			E	
TACH	25	0617E	0630D		N12 W37	.662	9946	22.5	13D	-B	S	0617	1.03	1.30		88	E	
GRP21071	25	0749	0815	0753	S17 E55	.814	9957	1.5	26	-N			1.37				8 7 7 8	
CRIM	25	0748E	0827D	0751	S17 E56	.824	9957	1.5	39D	1N	C	0751	2.70	4.90			E	
CRON	25	0748	0813	0751	S18 E54	.805	9957	1.4	25	-N	C		1.00	1.60				
CAPE	25	0749	0810	0752	S17 E55	.814	9957	1.5	21	-N	C	0752	.87	1.50				
MANI	25	0749	0824	0754	S17 E55	.814	9957	1.5	35	1N	2	0754	1.75	2.90				
HTRP	25	0750	0820	0751	S16 E55	.814	9957	1.5	30	1N	C	0751	1.34	2.20				
CANR	25	0750E	0804	0752	S19 E56	.825	9957	1.5	14D	-N	C		1.20	2.00				
CATA	25	0755E	0810D	0800	S17 E55	.814	9957	1.5	15D	-B		0800	.75	1.31		263		
MONT	25	0803E	0838	0808	S18 E58	.843	9957	1.7	35D	-N	C	0808	.46					
10 STATIONS REPORTING GROUP 21073. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP21073	25	0903	1013	0914	N13 W37	.668	9946	22.6	70	2B			7.40				8 8 8 8	
MANI	25	0900	0946D	0913	N14 W36	.663	9946	22.7	46D	2B	2	0913	8.25	11.00				
HTRP	25	0900	1039	0920	N14 W38	.685	9946	22.5	99	2B		0920	5.78	7.60			HK	
CAPE	25	0900	1037	0913	N13 W38	.679	9946	22.5	97	1B	C	0913	3.76	5.10			FHV	
CRIM	25	0901E	1009D	0912	N12 W38	.674	9946	22.5	68D	2N	C	0912	9.00	12.10			E	
MONT	25	0902	1047	0914	N14 W36	.663	9946	22.7	105	2B	P	0914	11.55					
KODA	25	0907	0937	0914	N13 W36	.657	9946	22.7	30	2B	C	0915	7.57	7.60	3.92		I	
CRON	25	0909	0949	0913	N11 W38	.668	9946	22.5	40	2N	C		7.20	9.40			EH	
CANR	25	0911E	1020	0911U	N11 W37	.657	9946	22.6	69D	2B	C		6.10	7.90			EHL	
21073	25	0900	1042	0959	N13 W37	.668	9946	22.6	102	*1B			2.57				4 4 3 8	
HTRP	25	0900	1039	1002	N14 W38	.685	9946	22.5	99	2B								
CAPE	25	0900	1037	1000	N13 W38	.679	9946	22.5	97	1B		1000	2.54	3.50			FHV	
CATA	25	0940E	1050	0955	N13 W36	.657	9946	22.7	70D	1B		0955	2.02	2.65		389		
LOCA	25	1000E	1040D		N12 W35	.639	9946	22.8	40D	1N	P	1000	3.16	4.10				
25 1105 1107 NO FLARE PATROL																		
GRP21074	25	1105	1140	1105	S18 E53	.795	9957	1.4	35	-B			1.09				2 1 1 4	
CATA	25	1105E	1140	1105	S18 E53	.795	9957	1.4	35D	-B		1105	1.09	1.83		240		
CANR	25	1116E	1124	1117U	S17 E52	.784	9957	1.4	8D	-N	C		1.10	1.80				
25 1108 1109 NO FLARE PATROL																		
25 1114 1117 NO FLARE PATROL																		
GRP21075	25	1124	1148	1131	N12 W44	.740	9946	22.2	24	-N			.68				2 2 2 3	
CAPE	25	1124	1140	1127	N13 W43	.734	9946	22.3	16	-F	C	1127	.96	1.40			F	
CATA	25	1135E	1155	1135	N11 W45	.747	9946	22.1	20D	-B		1135	.40	.61		174		
GRP21076	25	1146	1209	1154	S18 E55	.815	9957	1.6	23	-B			.80				3 3 3 5	
CATA	25	1140	1200D	1158	S17 E53	.794	9957	1.5	20D	-B	8	1155	.23	.39		190		
CANR	25	1147	1200	1152	S18 E56	.824	9957	1.7	13	-N	8		1.10	1.90			E	
CANR	25	1147	1200	1152	S18 E56	.824	9957	1.7	13	-N	8		1.10	1.90			E	
CAPS	25	1150	1227D		S20 E55	.816	9957	1.6	37D	-B	3	1151	1.00	1.70		246		
GRP21078	25	1248	1340	1328	S29 W53	.813	9945	21.6	52	--N			.54				3 2 2 6	
HUAN	25	1248	1340		S28 W53	.811	9945	21.6	52	-N	1	C	1318	.31	.51			DK
MONT	25	1325E	1340D	1328	S29 W52	.804	9945	21.7	15D	-N		1328	.77					
CAPS	25	1334E	1341		S30 W50	.789	9945	21.8	7D	-B	3	1335	.50	.80		220		

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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
	1969 FEB																
080 SACP	25	1627	1647	1635	S29	W55	.830	9945	21.6	20	--N	C		.44	.61		3
GRP21081	25	1653	1734	1700	N12	W40	.696	9946	22.7	41	1N			1.54			3 3 3 3
SACP	25	1647	1727	1659	N12	W41	.708	9946	22.6	40	-N	C		1.07	1.26		
HALE	25	1656E	1757		N13	W41	.713	9946	22.6	61D	1N	1 P	1656	1.86	2.60		F
CANR	25	1657	1717	1700	N12	W39	.685	9946	22.8	20	1N	C		1.70	2.40		
GRP21082	25	1803	1823	1808	N10	W45	.743	9946	22.4	20	--N			.34			2 2 2 4
SACP	25	1800	1823	1805	N10	W45	.743	9946	22.4	23	-N	C		.36	.44		
HALE	25	1806	1823	1811	N10	W44	.732	9946	22.5	17	-N	1 C	1811	.31	.50		
GRP21085	25	1916	1930	1923	N12	W43	.730	9946	22.6	14	1F			1.83			2 2 2 2
SACP	25	1912	1930	1924	N12	W44	.740	9946	22.5	18	1N	C		2.05	2.50		
BOUL	25	1919	1930	1921	N12	W42	.719	9946	22.7	11	1F	C		1.60	2.30		
3 STATIONS REPORTING GROUP 21086. 0 STATIONS OBSERVING AND NOT REPORTING.																	
GRP21086	25	1937	2028	1944	N14	W43	.739	9946	22.6	51	1B			2.36			2 2 2 2
SACP	25	1936	2056	1944	N12	W43	.730	9946	22.6	80	1B	C		2.32	2.78		
BOUL	25	1938	2000	1943	N15	W42	.733	9946	22.7	22	1N	C		2.40	3.60		E
21086	25	1936	2112	2022	N13	W43	.734	9946	22.6	96	*1B			2.58			2 2 1 3
SACP	25	1936	2056	2024	N12	W43	.730	9946	22.6	80	1B						
HALE	25	2015E	2128	2020	N13	W43	.734	9946	22.6	73D	1N	1 P	2020	2.58	3.80		FK
087 HALE	25	2130	2144	2133	S19	E44	.699	9957	1.2	14	--F	1 C	2133	.62	.90		3
089 HUAN	25	2210	2214	2211	N13	W34	.634	9946	23.4	4	--F	1 C	2211	.21	.26		D 3
GRP21090	25	2309	2342	2317	N11	W33	.609	9946	23.5	33	1N			2.51			2 2 2 4
VORO	25	2307	0000	2319	N09	W32	.584	9946	23.6	53	2N	C	2319	4.30	5.38	153	EJ
SACP	25	2310	2323	2315	N12	W34	.627	9946	23.4	13	-N	C		.71	.79		
GRP21091	25	2342	2352	2345	S17	E46	.718	9957	1.4	10	1N			1.46			3 3 3 5
MANI	25	2342	2354	2345	S17	E47	.730	9957	1.5	12	-F	2	2345	.93	1.37		
HALE	25	2342	2352	2346	S17	E46	.718	9957	1.4	10	1N	1 C	2346	1.86	2.70		
CRON	25	2343	2350	2345	S18	E46	.720	9957	1.4	7	1N	C		1.60	2.30		
093 CRON	26	0224	0305	0229	N27	W18	.621	9960	24.8	41	1N	C		1.50	2.10		KL 4
21093	26	0226	0239	0231	N13	W41	.713	9946	23.0	13	*-F			.71			2 2 2 4
CRON	26	0226	0232	0227	N12	W38	.674	9946	23.3	6	-N	C		.70	1.00		
MANI	26	0226E	0245D	0235	N13	W43	.734	9946	22.9	19D	-F	2	0235	.72	1.08		
094 MANI	26	0228	0315	0240	N23	W20	.587	9946	24.6	47	-F	2	0240	.83	1.02		5
095 MANI	26	0314E	0319D	0315	S15	W42	.668	9953	23.0	5D	-N	2	0315	1.13	1.53		4
096 CRON	26	0414	0448	0419	N05	E85	.997	9963	4.6	34	1N	C		1.10	3.60		EH 3
GRP21097	26	0419	0510	0427	N13	W46	.765	9946	22.7	51	2B			7.51			3 3 3 3
KODA	26	0418	0522	0427	N13	W48	.786	9946	22.6	64	2B	C	0427	10.02	10.00	5.44	DIK
MANI	26	0418	0527	0428	N13	W45	.755	9946	22.8	69	2B	2	0428	7.01	10.81		
MANI	26	0418	0527	0459	N13	W45	.755	9946	22.8	69	1F	2	0459	1.96	3.02		
CRON	26	0422	0441	0426	N14	W46	.770	9946	22.7	19	2B	C		5.50	8.80		
GRP21099	26	0550	0625	0554	N13	W46	.765	9946	22.8	35	1N			2.80			3 3 3 4
MANI	26	0549	0649	0556	N13	W46	.765	9946	22.8	60	1B	2	0556	2.99	4.60		
KODA	26	0550	0615	0553	N13	W46	.765	9946	22.8	25	1N	C	0553	2.00	2.00	2.00	DK
CRON	26	0552	0610	0554	N14	W46	.770	9946	22.8	18	2N	C		3.40	5.40		E
GRP21100	26	0821	0840	0825	N12	W56	.856	9946	22.1	19	-F			1.30			2 2 2 5
CAPE	26	0820	0850	0827	N12	W56	.856	9946	22.1	30	-N	C	0827	.79	1.60		
CRON	26	0821	0830	0823	N11	W55	.845	9946	22.2	9	1F	C		1.80	3.20		
GRP21101	26	1119	1150	1126	S16	E40	.644	9957	1.5	31	-N			1.03			4 3 3 6
CATA	26	1110	1155	1125	S17	E40	.646	9957	1.5	45	-B			1.39	1.82		275
HTRP	26	1123	1145	1127	S15	E40	.642	9957	1.5	22	-N	C	1125	.83	1.00		
CAPE	26	1123	1127D	1126	S17	E40	.646	9957	1.5	40	-N	P	1127	.87	1.20		F
CAPS	26	1128E	1149		S15	E40	.642	9957	1.5	21D	-N	3	1126	1.10	1.40		190
GRP21102	26	1233	1250	1237	S15	E40	.642	9957	1.5	17	--F			.45			3 3 3 5
HTRP	26	1232	1250	1237	S15	E40	.642	9957	1.5	18	-F	C	1237	.31	.40		
HUAN	26	1233	1244D		S16	E40	.644	9957	1.5	13D	-F	1 C	1235	.25	.32		D
CAPS	26	1236E	1249		S15	E40	.642	9957	1.5	13D	-N	3 C	1237	.80	1.00		170 C

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1969 FEB	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. %
657 CRON	01	0118	0130	0120U	N14	W68	.942	9902	27.0	12	-N	C	.80	1.80			4	
658 MANI	01	0143	0145D		N21	W53	.853	9903	28.1	20	-F	2	0145	.83	1.50			5
GRP20661	01	1405	1437	1437	N23	W59	.903	9903	28.2	32	-F			.25				2 1 1 9
HUAN	01	1405E	1437D		N23	W59	.903	9903	28.2	32D	-F	1 P	1409	.25	.55			
MONT	01	1430E	1442	1437	N23	W57	.889	9903	28.3	12D	-F	C	1437	.21				
668 CATA	02	1010E	1015D	1010	S13	E57	.834	9910	6.7	5D	-N		1010	.52	.96		162	4
671 CATA	02	1150E	1200	1150	S01	E48	.745	9909	6.1	10D	-N		1150	.17	.27		172	4
672 CAPS	02	1158E	1205D		N11	E85	.998	9911	8.9	7D	1N	1						5
687 HUAN	02	2114	2150D		N19	W85	.999	9903	27.5	36D	-F	1 P						3
689 SACP	02	2202	2210	2204	N37	W17	.718	9893	1.6	8	-N	C	.89	1.05				3
690 SACP	02	2222	2233	2225	N36	W17	.707	9893	1.7	11	-N	C	.44	.52				4
692 MANI	03	0115	0125	0118	N36	W16	.704	9893	1.9	10	-F	2	0118	.36	.52			5
693 MANI	03	0159	0211	0202	N20	W85	.999	9903	27.7	12	-B	2	0202	.62	1.80			6
694 MANI	03	0348	0358	0351	N36	W17	.708	9893	1.9	10	-F	2	0351	.41	.60			5
698 ISTA	03	0811	0817		N20	W90	1.001	9903	27.6	6	-F							8
700 ARCE	03	0920	0940D	0924	N23	W90	1.001	9903	27.6	21D	-N	C	0924	.22	1.20		H	8
GRP20701	03	0924	0935	0928	N36	W18	.712	9893	2.0	11	-F			.80				2 2 2 8
ARCE	03	0924	0934	0928	N36	W18	.712	9893	2.0	10	-N	C	0928	.76	1.10		E	
CAPE	03	0924	0935	0927	N36	W18	.712	9893	2.0	11	-F	C	0927	.83	1.20			
704 CATA	03	1230	1245	1230	N35	W20	.710	9893	2.0	15	-N		1230	.46	.68		170	4
707 CAPS	03	1540E	1550D		S03	E29	.486	9909	5.8	10D	-F	1	1546	1.60	1.80		155	5
714 SACP	03	2252	2308	2255	N04	E25	.453	9909	5.8	16	-N	C	.35	.36				4
715 SACP	03	2308	2323	2310	N20	E77	.985	9918	9.7	15	-N	C	.27					4
716 SACP	03	2312	2315	2313	N34	W29	.750	9893	1.8	3	-N	C	.27	.33				4
718 MANI	04	0353E	0406		N01	E23	.408	9909	5.9	13D	-F	1	0354	.62	.67			4
722 HUAN	04	1848E	1850D		N01	E14	.271	9909	5.8	4D	-F	1 P	1850	.41	.43		E	3
727 HALE	04	2153	2219	2153	N18	E61	.905	9918	9.5	26	-N	2 C	2153	.15				4
729 CATA	05	1110E	1115D	1110	N34	E02	.647	9907	5.6	5D	-N		1110	.58	.67		151	5
GRP20733	05	1340	1420	1344	N17	E52	.833	9918	9.5	40	-N			.26				2 1 1 6
MAMA	05	1340	1420		N17	E52	.833	9918	9.5	40	-N	C	1405	.26	.50			
CATA	05	1344E	1350D	1344	N14	E52	.824	9918	9.5	6D	-N		1344	.58	1.01		184	
GRP20734	05	1548	1600	1550	N17	E52	.833	9918	9.6	12	-N			.80				1 1 1 5
CANR	05	1548	1600	1550	N17	E52	.833	9918	9.6	12	-N	C		.80	1.40		E	
740 MANI	06	0115E	0120D	0116	N13	E33	.617	9911	8.5	5D	-F	2	0116	.72	.90			4
741 MANI	06	0132E	0142D	0137	N08	E19	.403	9911	7.5	10D	-F	2	0137	.93	1.00			4
747 HALE	06	1840U	1906U	1844U	N12	E19	.444	9911	8.2	26D	-F	2 C	1844	.52	.60		F	4
748 HUAN	06	2015	2023		N02	W16	.309	9909	5.6	8	-F	2 C	2017	.50	.52		E	4
749 HUAN	06	2024	2040		S01	W17	.305	9909	5.6	16	-F	2 C	2029	.21	.22		D	4
GRP20751	07	0003	0048	0006	N12	E18	.433	9911	8.4	45	-F			.78				2 2 2 6
HALE	07	0002U	0113U	0004	N12	E17	.423	9911	8.3	71D	-N	1 P	0004	1.03	1.10			
MANI	07	0004	0022	0007	N12	E18	.433	9911	8.4	18	-F	2	0007	.52	.60		F	
752 MANI	07	0016	0027	0019	N17	E34	.655	9918	9.6	11	-F	2	0019	.72	1.00			5
753 MANI	07	0042E	0056	0048	S16	E05	.187	9910	7.4	14D	-F	2	0048	.36	.36			5
754 HALE	07	0057E	0113U		S17	E05	.202	9910	7.4	16D	-F	1 P	0057	.46	.50		F	6

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS				REMARKS							
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION			CMP DAY	COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha	MAX. INT. %					
756 HALE	1969 FEB 07	0231U	0258U	0238U	N26	W20	.613	9907	5.6	27D	-F	2	C	0238	.31	.40			H	7				
GRP20757	07	0238	0255	0241	S01	W21	.369	9909	5.5	17	-B				.73				2	2	2	7		
HALE	07	0238	0258	0240	S01	W21	.369	9909	5.5	20	-B	2	C	0240	.62	.70								
MANI	07	0238	0252	0242	S00	W21	.373	9909	5.5	14	-N	2		0242	.83	.90								
759 CAPE	07	0710	0730	0713	N19	E29	.619	9918	9.5	20	-F		C	0713	.95	1.20			H	5				
761 MANI	07	0858	0912	0903	N20	E30	.637	9918	9.6	14	-F	2		0903	.26	.44						10		
766 CATA	07	1100E	1130D	1110	S17	E14	.297	9915	8.5	30D	-N			1110	.58	.61					186	7		
767 CATA	07	1105	1130D	1110	S02	W24	.412	9909	5.7	25D	-N			1110	.29	.32					199	7		
769 ONDR	07	1315	1335		N16	E04	.387	9911	7.9	20	-F		V	1318			1.60		CH	6				
GRP20770	07	1455	1511	(1459)	S02	W26	.443	9909	5.7	16	-F				.86				2	2	2	6		
CAPS	07	1454E	1517D		S01	W24	.415	9909	5.8	23D	-N	1		1500	1.40	1.50					170			
HUAN	07	1456	1504		S02	W28	.474	9909	5.5	8	-F	1	C	1458	.31	.35							E	
771 CAPS	07	1515	1530D		N09	W54	.829	9924	3.6	15D	-F	2		1516	.30	.50					150	4		
775 HALE	07	1709E	1746U		N24	W40	.760	9907	4.7	37D	-F	1	P	1709	.31	.50							3	
787 HALE	08	0116E	0131		S02	W37	.604	9909	5.3	15D	-F	1	P	0116	.36	.50			L	3				
789 MANI	08	0244E	0245D		N13	E07	.353	9911	8.6	1D	-F	1		0244	.72	.75							3	
792 CAPS	08	1136E	1152D		N12	E02	.319	9911	8.6	16D	-B	1		1140	1.00	1.00					204	3		
795 HALE	08	1713	1732		N12	W03	.321	9911	8.5	19	-F	1	P	1713	.31	.30							4	
797 SACP	08	1731	1745	1734	N19	E13	.477	9918	9.7	14	-N		C		.09	.09							4	
807 HALE	08	2356	0000D	2358	N13	W18	.445	9911	7.6	4D	-N	2	P	2358	.36	.40			H	4				
808 HALE	09	0004E	0016		N19	E09	.454	9918	9.7	12D	-N	1	P	0005	.21	.20							4	
810 HALE	09	0135	0137D	0136	N19	E08	.450	9918	9.7	2D	-N	2	P	0136	.36	.40							5	
811 HALE	09	0159	0211D	0202	N05	W33	.572	9925	6.6	12D	-F	2	P	0202	.41	.50							5	
812 MANI	09	0325E	0337		N06	W33	.577	9925	6.7	12D	-F	2		0326	.52	.60							3	
813 MANI	09	0340E	0350		S01	W49	.757	9909	5.5	10D	-F	2		0342	.21	.30							3	
814 MANI	09	0350	0359D		N06	W33	.577	9925	6.7	9D	-F	2		0351	.52	.60							3	
817 CATA	09	1050	1100	1055	N02	W56	.834	9909	5.3	10	-N			1055	.23	.44					170	8		
818 CATA	09	1055	1105D	1055	N12	W12	.375	9911	8.6	10D	-N			1055	.14	.16						174	8	
819 CATA	09	1316E	1335D	1325	N11	W22	.470	9911	7.9	19D	-N			1325	.29	.33						174	8	
823 HUAN	09	1539	1544		N18	E01	.415	9918	9.7	5	-F	1	C	1540	.21	.23							D	6
826 HALE	09	1822	1842	1826	N22	E16	.538	9918	11.0	20	-N	3	C	1826	.26	.30							5	
831 MANI	10	0003E	0018		S16	W60	.861	9926	5.5	15D	-F	1		0003	.62	1.20							5	
837 SACP	10	1443	1501	1453	N13	W38	.676	9911	7.8	18	-F		C		.09	.10							6	
838 HUAN	10	1446	1505D		S16	W65	.900	9926	5.7	19D	-F	1	C										D	7
846 SACP	10	2018	2029	2021	N19	E22	.552	9927	12.5	11	-F		C		.27	.28							5	
847 HUAN	10	2041	2046		N14	W45	.757	9911	7.5	5	-F	1	C	2042	.21	.30							D	5
849 HUAN	10	2121	2127		N18	W17	.496	9918	9.6	6	-F	1	C	2122	.21	.24							D	5
850 HUAN	10	2145	2224		N15	W46	.771	9911	7.5	39	-N	2	C	2206	.50	.77							H	4
852 HUAN	10	2218	2222	2219	N18	W17	.496	9918	9.7	4	-F	2	C	2219	.25	.28							D	4
855 MANI	10	2336	2345	2339	N15	W44	.751	9911	7.7	9	-F	2		2339	.46	.80							6	
857 MANI	11	0043	0053	0047	S01	W80	.985	9909	5.0	10	-F	2		0047	.52	1.40							4	
859 MANI	11	0212	0223	0215	N14	W46	.767	9911	7.6	11	-F	2		0215	.93	1.40							4	

SOLAR FLARES
Unconfirmed
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OBSERVATORY	OBSERVED UT				LOCATION				DURATION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE 1969 FEB	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH FLAGE REGION			CMP DAY	COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
861	MANI	11 0301	0314	0304	S16	W73	.950	9926	5.7	13	-F	2	0304	.52	1.20			5	
862	MANI	11 0538E	0552	0542	S01	W83	.992	9909	5.0	140	1F	2	0542	.83	2.20			3	
863	MANI	11 0546	0556	0549	N14	W47	.777	9911	7.7	10	-F	2	0549	1.13	1.80			3	
864	MANI	11 0614	0624	0617	N14	W48	.787	9911	7.7	10	-F	2	0617	.93	1.50			3	
867	MANI	11 0738	0751		S16	W74	.955	9926	5.8	13	-F	2	0745	.41	.90			5	
GRP20869	HTPR	11 0849	0904	0856	N14	W50	.806	9911	7.6	15	-F			.98			2 2 2	8	
	HTPR	11 0845	0900	0855	N13	W49	.793	9911	7.7	15	-F	C	0855	1.03	1.70				
	MANI	11 0853	0907	0856	N14	W50	.806	9911	7.6	14	-F	2	0856	.93	1.50				
870	HTPR	11 0930	0950	0940	N13	W50	.803	9911	7.6	20	-N	C	0940	1.03	1.70			8	
871	MANI	11 0937E	0942		S01	W69	.934	9909	6.2	50	-F	2	0939	.72	1.50			8	
GRP20884	SANM	11 1840	2115	1846	N13	W55	.849	9911	7.7	155	1N			1.94			2 1 1	4	
	HUAN	11 1840E	2115D	1846	N13	W55	.849	9911	7.7	155D	1N	P	1846	1.94	3.65		B		
	HUAN	11 2019	2028		N13	W57	.865	9911	7.6	9	-F	1	2023	.21	.41		D		
GRP20888	SACP	11 2313	2328	2316	N14	W59	.883	9911	7.5	15	-F			.58			2 2 2	6	
	MANI	11 2312	2333	2316	N13	W59	.881	9911	7.5	21	-N	C		.54	.83				
	MANI	11 2313	2323	2315	N14	W58	.876	9911	7.6	10	-F	2	2315	.62	1.10				
889	MANI	12 0441E	0448D	0443	N14	W60	.891	9911	7.7	70	-F	2	0443	.72	1.40			4	
891	CAPE	12 1006	1020	1013	N15	W56	.862	9911	8.2	14	-N	C	1013	.96	1.90		F	4	
893	HUAN	12 1316	1320	1317	N13	W65	.924	9911	7.7	4	-F	2	1317	.21			DT	4	
897	MANI	13 0142	0157	0146	S12	E76	.966	9936	18.8	15	-F	2	0146	.52	1.20			5	
899	MANI	13 0254	0309	0256	N15	W48	.791	9918	9.5	15	-F	2	0256	.46	.75			5	
900	HALE	13 0305	0330	0317	S12	E73	.951	9936	18.6	25	-F	1	0317	.41			J	7	
902	MANI	13 0442E	0448D		N15	W75	.976	9911	7.6	60	-F	2	0447	.41	1.00			4	
903	MANI	13 0517E	0535		N18	E08	.438	9933	13.8	180	-F	2	0519	.83	.90			5	
904	MANI	13 0744	0811		N14	W76	.979	9911	7.6	27	-F	2	0747	.52	1.30			4	
905	CAPS	13 1042E	1052D		N18	E08	.438	9933	14.0	100	-N	2	1044	1.00	1.10		189	6	
907	MCMA	13 1704	1717	1706	N12	W85	.998	9911	7.3	13	-N	C					D	4	
915	HALE	14 0131	0156	0132	N13	W88	1.000	9911	7.5	25	1B	1	0132	.62				5	
916	HALE	14 0159	0332	0241	S15	W02	.147	9928	13.9	93	-B	2	0241	.26	.30		DH	4	
GRP20917	HALE	14 0334	0339	0337	N14	W88	1.000	9911	7.5	5	-F			.21			2 2 1	5	
	SIBE	14 0334	0339D	0337	N14	W88	1.000	9911	7.5	50	-N	1	0337	.21			W		
	SIBE	14 0334	0339		N14	W87	1.000	9911	7.6	5	-F	V							
919	CAPS	14 1215E	1240D		S15	E55	.814	9936	18.6	250	1N	3	1220	2.00	3.40		196	U	4
922	CULG	15 2329	2345	2333	S27	E78	.971	9945	21.8	16	1F	C	2333	.72			6		3
924	CAPS	16 1311	1321		S12	E28	.471	9936	18.6	10	-N	3	1317	1.20	1.40		164		4
925	SACP	16 1410	1428	1417	S15	E28	.479	9936	18.7	18	-N	C		.36	.37				6
926	SACP	16 1540E	1701	1547	S11	W08	.155	9944	16.1	810	-N	C		.18	.17				4
927	SACP	16 1739	1750	1745	N18	W36	.687	9933	14.0	11	-F	C		.54	.62				4
932	VORO	17 0155	0210	0158	S14	E23	.402	9936	18.8	15	-B	C	0158	.45	.50		79	EJ	4
933	VORO	17 0203	0219	0209	S15	E20	.362	9936	18.6	16	-B	C	0209	.81	.89		85	EJ	4
934	VORO	17 0258	0310	0310	S11	W14	.249	9944	16.1	12	-B	P	0310	.72	.75		83	EJ	4
935	MANI	17 0332	0339	0334	N20	W41	.749	9933	14.1	7	-F	2	0334	.41	.61				4
936	MANI	17 0510	0525D	0519	N19	W40	.733	9933	14.2	150	-N	2	0519	.72	1.06				4

SOLAR FLARES
Unconfirmed
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OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE 1969 FEB	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. %	
025 WEND	23	1206E	1225		N11 W34	.621	9941	21.0	19D	1F	V		2.58				5	
026 HUAN	23	1228	1234		N11 W35	.633	9941	20.9	6	-F	1 C	1229	.21	.26		D	4	
027 HUAN	23	1240	1245	1243	N12 W13	.392	9946	22.6	5	-F	2 C	1243	.21	.23		D	4	
028 HUAN	23	1301	1306	1302	N12 W13	.392	9946	22.6	5	-F	2 C	1302	.25	.27		D	5	
038 BOUL	23	1954	2009	1958	S16 W74	.955	9936	18.3	15	1N	C		.90	2.30			4	
039 HUAN	23	1955E	2007		S18 E76	.964	9957	1.5	120	-F	1 P					E	4	
040 HUAN	23	2005	2015		S16 E74	.955	9957	1.4	10	-F	1 C	2007	.21			D	4	
041 HALE	23	2019	2038	2021	N12 E09	.360	9946	24.5	19	-N	1 C	2021	.62	.70			4	
043 SACP	23	2136	2155	2141	N10 W42	.709	9946	20.8	19	-N	C		.44	.53			4	
044 MANI	23	2324	2335	2326	N13 W37	.668	9946	21.2	11	-F	2	2326	1.24	9.70			7	
046 CULG	24	0240	0330	0251	S16 E70	.933	9957	1.4	50	1F	C	0251	1.03			H	6	
047 MANI	24	0255	0346	0309	N12 W18	.441	9946	22.8	51	-N	2	0309	1.24	1.40			7	
048 MANI	24	0258	0312	0303	N12 W27	.544	9946	22.1	14	-F	2	0303	.88	1.06			7	
049 MANI	24	0351	0430D	0356	N13 W42	.723	9946	21.0	39D	-N	2	0356	.83	1.10			5	
050 CULG	24	0432	0445D	0435	S16 E69	.927	9957	1.4	13D	1N	P	0435	.83				5	
052 ISTA	24	0740	0751		N11 W47	.768	9946	20.8	11	-F							4	
061 HALE	24	2137	2149	2138	N13 W07	.363	9946	24.4	12	-F	1 C	2138	.36	.40		F	4	
063 HALE	24	2242E	2247D		N17 W11	.446	9946	24.1	50	-F	1 C	2244	.52	.60		F	6	
066 CRON	25	0307	0335	0311	N13 W37	.668	9946	22.4	28	-N	C		1.40	1.80			4	
067 MANI	25	0458E	0512	0502	S17 E58	.842	9957	1.6	14D	-F	2	0502	.93	1.60			5	
068 MANI	25	0553E	0612	0554	S17 E57	.833	9957	1.5	19D	-N	2	0554	.83	1.40			6	
070 MANI	25	0657	0715D	0704	S17 E57	.833	9957	1.6	18D	-N	2	0704	1.13	2.00			6	
072 MONT	25	0821	0831	0827	S29 W50	.786	9945	21.6	10	-N	C	0827	.10				7	
077 HUAN	25	1227E	1230		N13 W42	.723	9946	22.4	3D	-N	1 P	1228	.25	.36		DT	5	
079 CAPS	25	1415	1429		N15 W35	.658	9946	23.0	14	-B	3	1416	.70	.90	196	E	6	
083 HALE	25	1901E	1903D		S16 E88	.998	9964	4.4	2D	-N	1 P	1901	.15				4	
084 HALE	25	1901E	1903D	1902	S17 E48	.741	9957	1.4	2D	-F	1 P	1902	.36	.50			4	
088 HALE	25	2134	2156	2137	N13 W23	.507	9946	24.2	22	-F	1 C	2137	.36	.40			4	
092 CRON	25	2344	0006	2347	N13 W50	.805	9946	22.2	22	1F	8 C		2.20	3.70			5	
098 TACH	26	0530	0623D	0546	N11 W61	.894	9946	21.7	53D	-N	C	0546	.45	1.10	2.00	54	D	5
103 CAPS	26	1238	1242		N15 E70	.955	9962	3.8	4	-N	3	1240	.20		175		5	
GRP21104 CAPE HUAN	26	1314	1324	1318	N13 W53	.833	9946	22.6	10	-F			.96				2 2 1 7	
	26	1312	1325	1318	N13 W53	.833	9946	22.6	13	-F	C	1318	.96	1.80			F E	
	26	1316	1322		N12 W52	.821	9946	22.7	6	-F	1 C							
GRP21105 HUAN MCMA	26	1344	1353	1345	N14 W53	.836	9946	22.6	9	-F			.47				2 2 2 9	
	26	1343	1355		N14 W53	.836	9946	22.6	12	-F	1 C	1346	.41	.72			E	
	26	1344	1350	1345	N13 W53	.833	9946	22.6	6	-N	C	1345	.52	.90			E	
107 MCMA	26	1556	1610	1559	S14 E85	.993	9964	5.0	14	-F	C					D	8	
116 MANI	26	2322	2339	2327	S16 E36	.592	9957	1.7	17	-F	2	2327	1.03	1.30			3	
118 HALE	27	0238	0250	0240	S12 E72	.945	9964	4.5	12	-N	1 C	0240	.26				5	
119 MANI	27	0240	0259	0242	S27 W76	.963	9945	21.4	19	-N	2	0242	.36	.80			5	
120 MANI	27	0452	0510	0454	S20 E27	.487	9957	1.2	18	-N	2	0454	.77	.90			4	

SOLAR FLARES
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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 Ha	MAX. INT. %	
					LAT.	MER. DIST.													
	1969 FEB																		
GRP21121	27	0527	0617	0545	N13	W60	.890	9946	22.7	50	-F								2 2 1 5
MANI	27	0527	0622	0545	N12	W59	.881	9946	22.8	55	-F	2		0545	.72	1.40			
SIBE	27	0538E	0612		N13	W60	.890	9946	22.7	34D	-F		V						ITD
122 ARCE	27	0803	0808	0803	S26	W79	.974	9945	21.4	5	-N		C	0803	.43	1.30			8
138 MANI	28	0437	0446	0441	N11	E89	1.000	9966	6.9	9	-F	2		0441	.36	1.10			6
142 ARCE	28	0822	0830	0825	N14	W64	.920	9946	23.5	8	-N		C	0825	.81	1.90			7
143 ARCE	28	0900	0920	0910	S22	E12	.322	9957	1.3	21D	-N		C	0910	.66	.70			E 6
148 MCMA	28	1339	1350	1340	N20	E70	.961	9966	5.8	11	-N		C	1340	.31	.90			D 5
150 MCMA	28	1411	1422	1413	S16	E15	.294	9957	1.7	11	-N		C	1413	.41	.40			E 5
151 MCMA	28	1428	1433	1429	S15	E10	.217	9957	1.4	5	-F		C	1429	.41	.40			E 6
152 MCMA	28	1454	1515	1458	N17	E68	.948	9966	5.7	21	-N		C	1458	.31	.90			E 5
160 BOUL	28	2245	2256	2248	N13	W90	1.000	9946	22.2	11	1N		C		.60	2.40			5

"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 = Plage 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 D₂ 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> |
|---|---|

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.

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.