



# SOLAR FLARES Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
1970 MAY																		
674 MANI	03	0223	0247	0227	S10	E41	.657	10720	6.2	24	--N	2	0227	.62	.82			2
675 MANI	03	0320E	0338		N14	E38	.666	10722	6.0	18D	1F	2	0320	2.58	3.48			3
4 STATIONS REPORTING GROUP 29694. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP29694	03	1923	1937	1926	N19	W47	.784	10708	30.3	14	-F			1.62				2 2 1 5
SANM	03	1901	1935D		N19	W49	.803	10708	30.1	34D	1N	2	P	1926	1.62	2.63		
BOUL	03	1923	1937	1926	N19	W44	.755	10708	30.5	14	-F		V					
29694	03	1904	1943	1909	N20	W49	.807	10708	30.1	39	*-F			.37				2 2 2 5
MCMA	03	1902	1955	1909	N21	W47	.792	10708	30.3	53	-N		C	1909	.41	.70		EK
HUAN	03	1905	1930	1909	N19	W50	.812	10708	30.0	25	-F	2	C	1909	.32	.60		D
696 MANI	04	0205	0216	0208	N10	E85	.997	10725	10.5	11	-N	2	0208	.41	1.18			3
GRP29704	04	1503	1519	1505	N15	E22	.482	10722	6.3	16	--N			.39				3 3 2 10
MCMA	04	1501	1530	1503	N16	E21	.481	10722	6.2	29	-N		C	1503	.31	.40		E
BOUL	04	1503	1511	1506	N15	E22	.482	10722	6.3	8	-F		V					
CATA	04	1505	1515	1505	N15	E23	.494	10722	6.4	10	-B			1505	.46	.53	229	
GRP29705	04	1528	1540	1530	N18	E69	.948	10725	9.8	12	-N			.41		2.00		3 3 1 12
HURB	04	1526	1539	1527	N18	E68	.942	10725	9.7	13	1F							
BOUL	04	1529	1539	1531	N19	E69	.949	10725	9.8	10	-N		V					
MCMA	04	1530	1542	1532	N18	E70	.953	10725	9.9	12	-N		C	1532	.41	1.60		E
GRP29711	04	1813	1831	1817	N21	E70	.956	10725	10.0	18	-N							2 2 0 5
BOUL	04	1813	1827	1817	N19	E72	.963	10725	10.2	14	-B		V					
LOCK	04	1813	1835	1816	N23	E67	.943	10725	9.8	22	-F							
GRP29713	04	1821	1835	1827	N16	E19	.460	10722	6.2	14	--F							2 2 0 4
BOUL	04	1818	1836	1826	N16	E19	.460	10722	6.2	18	-N		V					
LOCK	04	1824	1834	1827	N16	E18	.449	10722	6.1	10	-F							
GRP29714	04	1853	1913	1859	N20	W61	.902	10708	30.2	20	-N			.57				3 3 2 4
BOUL	04	1852	1913	1859	N20	W59	.888	10708	30.4	21	-N		V					
RAMY	04	1853	1905D	1900	N18	W61	.898	10708	30.2	12D	-N		C		.62			DE
MCMA	04	1854	1903D	1859	N21	W63	.917	10708	30.1	9D	-N		C	1859	.52	1.20		E
GRP29718	04	2222	0209	2332	N32	E09	.600	10722	5.6	227	2F			7.74				3 3 2 4
BOUL	04	2222	0111D	2332	N35	E10	.643	10722	5.7	169D	2F		S	2332		8.50		
MANI	04	2225E	0100D		N30	E08	.570	10722	5.5	155D	2F	2		2330	8.25	10.10		
CULG	04	2312E	0209D	2332	N31	E08	.584	10722	5.6	177D	2N		P	2332	7.22	8.75		GSU
722 MANI	05	0316E	0322D		N21	W67	.940	10708	30.1	6D	--F	2	0319	.41	.91			2
GRP29723	05	1107	1121	1111	S09	W55	.818	10709	1.3	14	--F			.23				2 2 2 7
MONT	05	1107	113D	1109	S08	W54	.807	10709	1.4	6D	-N		C	1109	.10			
RAMY	05	1107	1121	1112	S09	W56	.828	10709	1.3	14	-F		C		.36			DE
GRP29725	05	1219	1240	1226	N17	E60	.889	10725	10.0	21	-N			.55				5 5 4 6
CANR	05	1218	1236	1223	N17	E60	.889	10725	10.0	18	-N	3	V			.90		
RAMY	05	1218	1242	1223	N19	E59	.886	10725	9.9	24	-N		C		.72			DE
CATA	05	1220	1245	1230	N16	E61	.895	10725	10.1	25	-B			1230	.29	.66	436	D
MONT	05	1221	1237	1227	N17	E60	.889	10725	10.0	16	-N		C	1227	.77			
CAPS	05	1222E	1241		N16	E60	.887	10725	10.0	19D	-B		V	1227	.41		205	
GRP29726	05	1344	1413	1353	N24	E54	.861	10725	9.6	29	1F			1.04				3 3 2 12
BOUL	05	1342	1409	1349	N23	E54	.858	10725	9.6	27	-F		V					
CATA	05	1345	1420	1355	N23	E55	.865	10725	9.7	35	1N			1355	.98	2.10	200	
CAPE	05	1346	1410	1356	N25	E53	.856	10725	9.5	24	1F		C	1356	1.10	2.30		
GRP29728	05	1432	1452	1438	N18	E59	.884	10725	10.0	20	-N			.58				12 12 10 15
SANM	05	1422	1455	1435	N18	E59	.884	10725	10.0	33	-B	2	C		.48	.97		E
BOUL	05	1429	1455	1436	N18	E56	.860	10725	9.8	26	-B		V					
MONT	05	1431	1452	1437	N17	E59	.881	10725	10.0	21	-N		C	1437	.77			
LOCA	05	1431	1450	1435	N18	E59	.884	10725	10.0	19	-N		V	1435	.63	1.40		
CAPE	05	1433	1438D		N17	E58	.874	10725	10.0	5D	-N		P	1438	.87	2.00		
CAPS	05	1434E	1451D		N16	E59	.880	10725	10.0	17D	-B		V	1436	.62		288	E
CANR	05	1435	1453	1436	N17	E59	.881	10725	10.0	18	-B	2	V			.60		
RAMY	05	1435E	1453D	1443U	N19	E59	.886	10725	10.0	18D	-N		C		.67			DE
CATA	05	1435	1455	1440	N18	E60	.891	10725	10.1	20	-B			1440	.34	.77	490	D
ZURI	05	1436	1446	1438	N18	E60	.891	10725	10.1	10	-N		C	1438	.84	1.80		
HUAN	05	1437E	1450	1443	N18	E58	.876	10725	10.0	13D	-F	2	C	1443	.21	.40		E
MCMA	05	1445E	1445D		N16	E58	.872	10725	10.0		-N		P	1445	.41	.90		E
GRP29729	05	1442	1448	1443	N17	W76	.977	10708	29.9	6	--N			.31				3 3 1 15
BOUL	05	1441	1446	1442	N17	W75	.974	10708	30.0	5	-N		V					
RAMY	05	1443E	1452	1443U	N16	W77	.980	10708	29.8	9D	-F		C		.31			DE
CANR	05	1443	1445		N18	W76	.978	10708	29.9	2	-B	2	V			.50		



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND.	TYPE	MEASUREMENTS					REMARKS
	DATE 1970 MAY	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 <sub>0</sub>	MAX. INT. %	
GRP29757	06	1727	1743	1728	N18	E43	.738	10725	10.0	16	--N			.37					3 3 2 4
RAMY	06	1727E	1734	1728U	N18	E41	.718	10725	9.8	7D	-N	C		.21					DE
CANR	06	1727	1750		N19	E44	.753	10725	10.0	23	-N	V	2		.60				
MCHA	06	1727	1732	1728	N20	E45	.767	10725	10.1	5	-F	C		1728	.52	.80			E
MCHA	06	1738	1744	1740	N14	E42	.710	10725	9.9	6	-N	C		1740	.41	.60			DH
758 MCHA	06	2010	2023	2011	N13	W06	.304	10722	6.4	13	--N	C		2011	.41	.50			EH 3
GRP29759	06	2235	2305	2248	N14	W06	.320	10722	6.5	30	-N			1.55					3 3 2 3
CULG	06	2233	2300D	2246	N14	W07	.325	10722	6.4	27D	1N	P		2246	2.17	2.11			HRL
MANI	06	2236	2303	2245	N13	W06	.304	10722	6.5	27	-N	V	2	2245	.93	.98			
BOUL	06	2252E	2306	2252	N15	W05	.331	10722	6.6	14D	-B	S		2252		1.00			
GRP29761	07	0050	0114	0058	N14	W07	.324	10722	6.5	24	-N			1.45					3 3 2 3
CULG	07	0049	0117	0056	N15	W08	.345	10722	6.4	28	1N	C		0056	2.06	2.10			
MANI	07	0050	0112D	0059	N13	W07	.309	10722	6.5	22D	-N	V	2	0059	.83	.87			
BOUL	07	0054E	0112	0100	N15	W06	.334	10722	6.6	18D	-N	S		0100		1.50			
GRP29763	07	0335	0357	0343	N13	W09	.323	10722	6.5	22	--N			.91					4 4 4 5
MANI	07	0333	0358		N12	W09	.308	10722	6.5	25	-N	V	2		.62				
SIBE	07	0334	0354D	0340	N12	W09	.308	10722	6.5	20D	-F	C		0340	.99	1.00		57	E
TACH	07	0334	0403	0344	N12	W09	.308	10722	6.5	29	-N	C		0344	1.00	1.06	2.07	54	E
KODA	07	0340	0353	0346	N14	W10	.345	10722	6.4	13	-N	V		0347	1.02	1.00	1.60		CE
GRP29764	07	0431	0443	0434	S08	W77	.973	10709	1.4	12	1N			1.25					3 3 3 5
MANI	07	0430	0443	0435	S07	W72	.950	10709	1.8	13	-N	V	2		.52	1.20			
CULG	07	0431	0448	0435	S08	W78	.977	10709	1.3	17	1B	C		0435	1.03				R
TACH	07	0432	0438	0432	S08	W80	.984	10709	1.2	6	1N	C		0432	2.19			68	E
GRP29773	07	1026	1047	1040	N13	E36	.635	10725	10.1	21	--N			.41					2 2 1 3
CANR	07	1026	1042		N13	E37	.647	10725	10.2	16	-N	V	2			.50			
RAMY	07	1040E	1051	1040E	N12	E35	.617	10725	10.1	11D	-N	C			.41				DE
775 CANR	07	1128	1137		N20	E33	.644	10725	10.0	9	--F	V	2			.70			3
GRP29776	07	1314	1329	1320	N13	E34	.610	10725	10.1	15	--N			.64					3 3 2 6
RAMY	07	1313E	1325		N15	E35	.634	10725	10.2	12D	-N	V							DE
MCHA	07	1315	1332	1320	N12	E33	.592	10725	10.0	17	-N	C		1320	1.03	1.40			E
HUAN	07	1315U	1329U		N13	E34	.610	10725	10.1	14D	-F	P	2	1321	.25	.30			E
GRP29777	07	1315	1331	1320	S10	W87	.998	10709	1.0	16	--F								2 2 0 6
RAMY	07	1310E	1320D		S08	W85	.995	10709	1.2	10D	-F	V							DE
MCHA	07	1319	1331	1320	S11	W88	.999	10709	1.0	12	-N	C		1320					E
GRP29778	07	1400	1457	1428	S10	W17	.310	10720	6.3	57	--F			.62					4 3 1 8
CANR	07	1400	1437		S09	W18	.320	10720	6.2	37	-N	V	2			.90			
MCHA	07	1400	1450	1409	S10	W08	.177	10720	7.0	50	-N	C		1409	.62	.60			EK
LOCK	07	1415E	1507	1431	S11	W18	.331	10720	6.2	52D	-F								
BOUL	07	1425E	1507	1425	S09	W15	.273	10720	6.5	42D	1F	S							
GRP29781	07	1525	1541	1532	N19	E33	.637	10725	10.1	16	--F			.62					2 2 1 6
BOUL	07	1520	1527	1521	N17	E31	.600	10725	10.0	7	-F	V							
MCHA	07	1525	1545	1532	N18	E33	.630	10725	10.1	20	-F	C		1532	.62	.80			E
BOUL	07	1525	1537	1532	N21	E33	.651	10725	10.1	12	-F	V							
GRP29782	07	1549	1622	1558	N13	E33	.598	10725	10.1	33	-N			1.24					3 3 1 5
LOCK	07	1547	1625	1557	N13	E33	.598	10725	10.1	38	-N								
RAMY	07	1549	1622	1602	N12	E33	.592	10725	10.1	33	-B	C			1.24				DE
BOUL	07	1551	1618	1554	N13	E34	.610	10725	10.2	27	-N	V							
GRP29784	07	1600	1637	1610	N13	E27	.523	10725	9.7	37	-N			1.55					4 4 2 5
MCHA	07	1550	1700	1612	N12	E30	.554	10725	9.9	70	1N	C		1612	2.06	2.50			EKL
LOCK	07	1602	1635	1614	N14	E27	.530	10725	9.7	33	-F								
RAMY	07	1603	1627	1609	N12	E25	.490	10725	9.5	24	-N	C			1.03				DE
BOUL	07	1603	1614	1605	N13	E27	.523	10725	9.7	11	-N	V							
BOUL	07	1610	1617	1613	N14	E25	.506	10725	9.5	7	-N	V							
BOUL	07	1622	1627	1624	N13	E26	.510	10725	9.6	5	-F	V							
GRP29785	07	1707	1729	1718	S09	W83	.992	10709	1.5	22	--F			.31					3 3 1 4
BOUL	07	1700	1729	1716	S10	W83	.991	10709	1.5	29	-N	V							
LOCK	07	1707	1735	1721	S08	W82	.989	10709	1.6	28	-F								
RAMY	07	1713	1724	1718	S08	W85	.995	10709	1.3	11	-F	C			.31				DE
GRP29786	07	1753	1804	1754	N19	E27	.572	10725	9.8	11	--F								2 2 0 4
LOCK	07	1750	1803	1752	N19	E27	.572	10725	9.8	13	-F								
BOUL	07	1755	1804	1756	N19	E27	.572	10725	9.8	9	-F	V		1756		.30			
787 BOUL	07	1842	1913	1900	S10	W25	.433	10720	5.9	31	--F	S		1900		.30			3





10  
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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	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %		
1970 MAY																			
GRP29833	09	1130	1150	1134	N20	E09	.422	10725	10.2	20	-N								
CAPS	09	1125E	1145D		N20	E10	.428	10725	10.2	20D	1F	2	V	1127	1.94			5 5 4 11	
RAMY	09	1130	1158	1134	N21	E06	.423	10725	9.9	28	-N		C		2.58	2.80		C	
BUCA	09	1130	1155		N21	E08	.432	10725	10.1	25	-N		C	1136	1.34			F	
CANR	09	1132	1147	1135	N19	E17	.468	10725	10.8	15	-N	2	V		1.99	2.10			
TACH	09	1132E	1144	1132	N20	E06	.408	10725	9.9	12D	1N		C	1132	.60			60	CE
GRP29835	09	1559	1622	1601	N14	E03	.302	10725	9.9	23	1N				2.32				7 7 4 7
LOCK	09	1557	1619	1559	N14	E03	.302	10725	9.9	22	1N								
RAMY	09	1558	1619	1603	N14	E02	.300	10725	9.8	21	1B		C		3.04				F
HUAN	09	1600E	1615D	1602	N14	E01	.299	10725	9.7	15D	-F	1	C	1602	.37	.40			E
SANM	09	1600	1631	1601	N14	E02	.300	10725	9.8	31	2B	2	C		5.18	5.44			CEF
CANR	09	1601	1623	1601	N14	E04	.306	10725	10.0	22	1B	2	V			2.80			E
MCMA	09	1603E	1620		N14	E03	.302	10725	9.9	17D	-B		C	1604	.67	.70			D
ONDR	09	1612E	1622		N14	E09	.334	10725	10.4	10D	1N		V	1612			2.20		
GRP29837	09	1655	1705	1657	N12	W45	.735	10722	6.3	10	--N				.51				4 4 3 6
LOCK	09	1654	1701	1655	N13	W48	.770	10722	6.1	7	-F								
RAMY	09	1655	1715	1657	N10	W43	.705	10722	6.5	20	-N		C		.31				DEH
HUAN	09	1655	1702	1658	N12	W45	.735	10722	6.3	7	-F	1	C	1658	.25	.40			D
SANM	09	1656	1703	1658	N12	W43	.712	10722	6.5	7	-B	2	C		.97	1.39			CD
GRP29838	09	1700	1718	1702	N16	E06	.346	10725	10.2	18	-N				1.04				6 6 4 7
CANR	09	1655	1712	1701	N14	E06	.315	10725	10.2	17	-B	2	V			.80			
SANM	09	1659	1724	1702	N16	E05	.342	10725	10.1	25	1B	1	C		2.10	2.24			E
RAMY	09	1700	1721	1703	N16	E05	.342	10725	10.1	21	-N		C		.93				F
HUAN	09	1702	1708D	1703	N16	E09	.363	10725	10.4	6D	-F	2	C	1703	.50	.50			E
ONDR	09	1702E	1716		N18	E05	.373	10725	10.1	14D	1F		V	1705			2.00		CEDH
MCMA	09	1705E	1717D		N16	E05	.342	10725	10.1	12D	-F		C	1707	.62	.60			E
SANM	09	1719	1731	1726	N21	E02	.414	10725	9.9	12	-F	2	C		.32	.35			D
SANM	09	1721	1736	1724	N19	E01	.381	10725	9.8	15	-F	2	C		.48	.52			D
GRP29839	09	1730	1931	(1909)	S13	E13	.277	10736	10.7	121	--F				.53				2 2 2 4
SANM	09	1730	1925D		S13	E13	.277	10736	10.7	115D	-F	2	P	1914	.80	.84			D
SANM	09	1730	1925D		S13	E13	.277	10736	10.7	115D	-F	2	P	1747	.65	.68			E
MCMA	09	1902E	1931D		S13	E13	.277	10736	10.8	29D	-N		C	1904	.26	.30			DH
GRP29840	09	1811	1902	1824	N15	E05	.326	10725	10.1	51	1N				3.47				5 4 3 5
SANM	09	1805	1925D		N17	E05	.357	10725	10.1	80D	2B	2	P	1827	7.45	7.97			FIL
HUAN	09	1813	1830E	1824	N14	E06	.315	10725	10.2	17D	-F	1	P	1824	.37	.40			E
CANR	09	1813	1834	1826	N14	E06	.315	10725	10.2	21	1N	2	V			2.20			
RAMY	09	1814	1908	1823	N14	E03	.302	10725	10.0	54	1N		C		2.58				F
MCMA	09	1852E	1913D		N18	E06	.377	10725	10.2	21D	-N		C	1857	1.29	1.30			E
09 2219 2225 NO FLARE PATROL																			
GRP29843	10	1335	1359	1344	S09	E57	.838	10740	14.8	24	--F				.43				2 2 2 6
RAMY	10	1334	1359	1345	S09	E57	.838	10740	14.8	25	-N		C		.21				DE
SANM	10	1335	1358	1343	S08	E57	.838	10740	14.8	23	-F	2	C		.65	1.16			D
GRP29844	10	1524	1547	1528	S10	E56	.829	10740	14.8	23	--F				.65				2 2 1 6
SANM	10	1523	1547	1529	S10	E56	.829	10740	14.8	24	-F	2	C		.65	1.08			D
LOCK	10	1524	1546	1527	S10	E56	.829	10740	14.8	22	-F								
GRP29845	10	1635	1720	1642	S26	W28	.577	10727	8.6	45	-N				1.54				6 6 4 6
LOCK	10	1634	1720	1641	S27	W31	.615	10727	8.4	46	-F								
SANM	10	1635	1722	1640	S25	W28	.568	10727	8.6	47	1B	2	C		3.39	4.14			CDL
MCMA	10	1635	1655D	1640	S26	W29	.587	10727	8.5	20D	-N		C	1640	.93	1.10			E
RAMY	10	1636E	1726	1642	S25	W28	.568	10727	8.6	50D	-N		C		1.34				F
HUAN	10	1638E	1720U	1649	S27	W27	.575	10727	8.7	42D	-F	2	C	1649	.50	.60			E
BOUL	10	1639E	1714	1640	S25	W24	.526	10727	8.9	35D	1N		V						
GRP29846	10	1759	1818	1808	S19	W68	.928	10720	5.6	19	-N				.98				3 2 2 5
SANM	10	1759	1817D		S18	W67	.921	10720	5.7	18D	1B	2	P	1816	1.62	3.83			CE
RAMY	10	1800	1832D	1803	S16	W68	.927	10720	5.6	32D	-F		C		.31				DE
HUAN	10	1810E	1818U	1813	S19	W68	.928	10720	5.7	8D	-F	1	C	1813	.33				E
GRP29850	11	0602	0650	0628	N15	W15	.398	10725	10.1	48	--N				.62				3 2 1 8
ABST	11	0541E	0710D	0541	N15	W15	.398	10725	10.1	89D	-F		P	0541	.90	.97			E
MANI	11	0553	0649	0631	N15	W15	.398	10725	10.1	56	-F	2		0631	.62	.65			
ISTA	11	0610	0650	0620	N15	W16	.408	10725	10.1	40	-B								
ISTA	11	0615	0700	0625	N14	W14	.375	10725	10.2	45	-B								
852 MONT	11	1040E	1057D	1046	S10	E46	.721	10740	14.9	17D	--F		C	1046	.77				H
GRP29853	11	1236	1310	1238	N12	W25	.486	10725	9.7	34	--N				.88				3 3 2 7
BOUL	11	1236	1300	1238	N13	W26	.507	10725	9.6	24	-N		V						
MCMA	11	1236E	1320D		N12	W24	.473	10725	9.7	44D	-F		C	1238	.83	.90			E
RAMY	11	1237E	1250D	1237E	N12	W25	.486	10725	9.7	13D	-N		V		.93				DE

# SOLAR FLARES Confirmed

MAY 1970

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 Hc	MAX. INT. %		
					LAT.	MER. DIST.													
	1970 MAY																		
GRP29856	11	1356	1452	1412	N13	W23	.469	10725	9.9	56	1N			2.40				8 7 5 8	
BOUL	11	1354	1450	1406	N13	W24	.481	10725	9.8	56	1N	V							
CATA	11	1355	1505	1410	N14	W22	.465	10725	9.9	70	1B		1410	2.32	2.63		309		
HURB	11	1357	1436	1404	N13	W25	.494	10725	9.7	39	1N					2.00			
CAPS	11	1358	1450		N13	W19	.420	10725	10.2	52	1B	P	1408	4.74	5.10		230		
HUAN	11	1359E	1423D	1415U	N12	W28	.525	10725	9.5	24D	-F	1	P	1415	.50	.60		E	
MCMA	11	1359E	1413D		N12	W24	.473	10725	9.8	14D	-N		P	1410	.72	.80		E	
CAPF	11	1407E	1500D		N14	W20	.442	10725	10.1	53D	1N	P	1408	3.71	4.14			F	
RAMY	11	1423E	1455	1423E	N12	W24	.473	10725	9.8	32D	1N	C		2.58					
GRP29857	11	1426	1502	1439	N04	E56	.833	10741	15.8	36	1F			1.39				5 4 2 8	
BOUL	11	1423	1502	1434	N04	E56	.833	10741	15.8	39	1F	V							
RAMY	11	1425	1502	1435	N03	E58	.851	10741	16.0	37	-F	C		1.34				F	
CAPS	11	1425E	1501D		N02	E56	.831	10741	15.8	36D	1N	3	P	1430	1.44	2.50		190	F
HURB	11	1429	1502	1435	N05	E54	.815	10741	15.7	33	1F					1.80			
LOCK	11	1449E	1550	1450	N05	E57	.844	10741	15.9	61D	-F								
GRP29860	11	1616	1733	1719	N13	E82	.992	10743	17.8	77	--F							2 1 0 5	
LOCK	11	1616	1733	1719	N13	E82	.992	10743	17.8	77	-F							H	
BOUL	11	1645	1649	1646	N16	E90	1.000	10743	18.4	4	-N	V							
GRP29862	11	1908	1924	1910	N17	E88	1.000	10743	18.4	16	1F							2 1 0 3	
BOUL	11	1908	1923	1910	N17	E89	1.000	10743	18.5	15	1F	V	1910		3.00				
RAMY	11	1922	1924D		N16	E86	.999	10743	18.3	2D	-N	C						DE	
863 BOUL	11	1948	2004	1955	N16	E90	1.000	10743	18.6	16	-N	V						2	
GRP29864	11	1955	2007	1958	N19	E47	.780	10734	15.4	12	--F							2 2 0 2	
LOCK	11	1953	2010	1957	N18	E46	.766	10734	15.3	17	-F								
BOUL	11	1957	2004	1959	N19	E48	.789	10734	15.4	7	-F	V							
GRP29867	12	0230	0301	0237	N17	W26	.538	10725	10.2	31	-F			1.79				2 2 2 4	
CULG	12	0223	0251D	0237	N17	W27	.550	10725	10.1	28D	1N	P	0237	2.58	3.00			U	
CRON	12	0236	0301		N16	W25	.518	10725	10.2	25	-F	3	V		1.00				
GRP29869	12	0452	0510	0454	S13	E70	.939	10744	17.5	18	-N			.94				3 3 3 5	
ABST	12	0450	0510	0454	S14	E70	.939	10744	17.5	20	1N	C	0454	1.79			68	E	
MITK	12	0452	0455D		S13	E69	.933	10744	17.4	3D	-F	C	0454	.52				D	
CRON	12	0454	0510		S13	E72	.950	10744	17.6	16	-N	3	V		.50				
6 STATIONS REPORTING GROUP 29870. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP29870	12	0610	0700	0621	N17	W28	.561	10725	10.2	50	1N			1.99				5 5 3 7	
ISTA	12	0600	0653	0626	N17	W28	.561	10725	10.1	53	-N								
BUCA	12	0610	0710		N16	W28	.553	10725	10.2	60	1N	C	0625	2.21	2.60				
TEHR	12	0615	0635D	0620	N16	W28	.553	10725	10.2	20D	1F	V						EZ	
ABST	12	0616	0700	0619	N19	W26	.556	10725	10.3	44	1N	C	0619	2.25	2.70		72	E	
CATA	12	0620E	0655	0620	N17	W31	.596	10725	9.9	35D	-B		0620	1.51	1.82		282	Z	
29870	12	0619	0651 (0634)		N18	W26	.547	10725	10.3	32	*-F			1.44				2 2 1 9	
TEHR	12	0619	0630D		N18	W23	.514	10725	10.5	11D	-F	V						G	
CAPS	12	0628E	0651D		N18	W28	.569	10725	10.2	23D	-N	3	V	0634	1.44	1.70		165	
GRP29873	12	0709	0724	0710	S11	E34	.568	10740	14.8	15	--N			.42				5 5 3 9	
CAPS	12	0707	0721		S12	E33	.558	10740	14.8	14	-B	3	V	0710	.31	.50		220	E
TEHR	12	0707E	0717D		S10	E35	.580	10740	14.9	10D	-F							E	
CATA	12	0710	0725D	0710	S11	E34	.568	10740	14.8	15D	-B		0710	.34	.42		246		
ISTA	12	0710	0717		S10	E36	.594	10740	15.0	7	-F								
CRON	12	0711	0738		S12	E33	.558	10740	14.8	27	-F	3	V		.60				
7 STATIONS REPORTING GROUP 29874. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP29874	12	0718	0807	0733	N16	E82	.993	10743	18.5	49	1N			.96				5 5 4 7	
BUCA	12	0715	0757D		N15	E80	.988	10743	18.3	42D	-B	P	0740	.66				E	
ABST	12	0716	0815	0735	N18	E85	.998	10743	18.7	59	1N	C	0735	1.79				E	
TEHR	12	0720E	0750D	0730	N16	E79	.986	10743	18.2	30D	1N							E	
CAPS	12	0722	0805D		N15	E84	.996	10743	18.6	43D	1N	2	S	0732	.57			200	
CRON	12	0735	0801		N16	E80	.988	10743	18.3	26	1N	3	V		.80				
29874	12	0711	0808	0721	N17	E80	.989	10743	18.3	57	*-B							2 2 0 9	
CANR	12	0705	0817	0723	N17	E80	.989	10743	18.3	72	-N	2	V		.90				
ISTA	12	0717	0758	0718	N16	E79	.986	10743	18.2	41	-B								
GRP29881	12	1647	1703	1650	N18	E37	.670	10734	15.5	16	-N							2 2 0 5	
LOCK	12	1646	1703U	1651	N17	E35	.642	10734	15.3	17D	-N							H	
BOUL	12	1647	1702	1649	N19	E38	.687	10734	15.5	15	-N	V							
GRP29882	12	1929	1954	1934	N18	E76	.977	10743	18.5	25	--F							2 2 0 2	
LOCK	12	1929	1955	1934	N18	E72	.961	10743	18.2	26	-F								
BOUL	12	1932E	1953	1934	N18	E79	.986	10743	18.7	21D	-N	S	1934		1.50				



12  
May 70

# SOLAR FLARES

## Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
1970																		
MAY																		
GRP29883	12	1959	2016	2004	N16	W38	.670	10725	10.0	17	--F						2 2 0 3	
LOCK	12	1959	2013	2003	N16	W38	.670	10725	10.0	14	-F							
BOUL	12	2000E	2018	2004	N15	W37	.654	10725	10.1	180	-N	S	2004		2.00			
884 LOCK	12	2130	2207	2142	N15	W38	.665	10725	10.0	37	--F						1	
GRP29885	12	2203	2222	2208	N17	E71	.955	10743	18.2	19	--F				.52		2 2 1 3	
LOCK	12	2203	2220	2208	N18	E72	.961	10743	18.3	17	-F							
MANI	12	2205E	2224		N16	E70	.949	10743	18.2	19D	-N	1	2206	.52	1.10			
GRP29886	13	0020	0034	0022	S22	E31	.583	10740	15.3	14	--F				.30		2 2 1 4	
LOCK	13	0013	0035U	0022	S23	E32	.601	10740	15.4	22D	-F							
CRON	13	0026	0032		S21	E29	.552	10740	15.2	6	-N	4	V		.30			
GRP29887	13	0110	0159	0119	N15	E70	.948	10743	18.3	49	--N				.31		2 1 1 4	
MANI	13	0110	0159	0119	N15	E70	.948	10743	18.3	49	-N	2	0119	.31	.66			
KODA	13	0143E	0158D		N17	E71	.955	10743	18.4	15D	-F	P	0147	1.96	2.00		E	
GRP29888	13	0137	0207	0142	N03	E44	.699	10741	16.4	30	-N				1.03		2 2 2 4	
CULG	13	0137	0218	0142	N04	E43	.689	10741	16.3	41	1N	C	0142	1.65	2.24			
MANI	13	0140E	0155		N02	E45	.710	10741	16.4	15D	-N	2	0144	.41	.60			
4 STATIONS REPORTING GROUP 29894. 3 STATIONS OBSERVING AND NOT REPORTING.																		
GRP29894	13	0620	0720	0644	S01	E35	.574	10741	15.9	60	1N				1.42		3 3 2 7	
CATA	13	0620E	0720D	0640	S01	E34	.560	10741	15.8	60D	-B		0640	1.04	1.27		226	
TEHR	13	0635E	0700D		N01	E37	.605	10741	16.0	25D	1N							
ABST	13	0647E	0703D	0647	S02	E35	.573	10741	15.9	16D	1F	P	0647	1.79	2.20		E	
29894	13	0608	0700	0629	S01	E34	.560	10741	15.8	52	*1N				3.30		2 2 1 5	
CULG	13	0608	0647D	0629	S01	E34	.560	10741	15.8	39D	1N	P	0629	3.30	4.00			
TEHR	13	0630E	0700D		S01	E34	.560	10741	15.8	30D	1N							
GRP29901	13	1045	1058	1047	N08	E38	.635	10741	16.3	13	-N				1.47		6 5 4 6	
RAMY	13	1043	1102	1046	N10	E36	.617	10741	16.1	19	-N	C			.72		DEH	
MONT	13	1044	1056	1045	N09	E38	.639	10741	16.3	12	1B	C	1045	2.58				
CATA	13	1045	1100	1050	N06	E38	.629	10741	16.3	15	-B		1050	.52	.66		246	
CANR	13	1045	1056		N08	E39	.648	10741	16.4	11	-N	3	V		.40			
IZMI	13	1046E	1050D	1048	N10	E38	.643	10741	16.3	4D	1N	C						
CAPS	13	1046	1055		N09	E38	.639	10741	16.3	9	1F	2	V	1049	2.06	2.60		140
GRP29902	13	1053	1113	1057	N16	E66	.926	10743	18.4	20	--N				.39		2 2 2 5	
RAMY	13	1053	1119	1057	N18	E68	.940	10743	18.6	26	-N	C			.46		F	
CAPS	13	1058E	1107		N14	E63	.904	10743	18.2	9D	-N	V	1059	.31			160	
GRP29903	13	1112	1125	1116	N20	E25	.553	10734	15.3	13	--N				.66		4 4 4 6	
CATA	13	1110	1120	1115	N20	E26	.563	10734	15.4	10	-B		1115	.63	.77		316	
RAMY	13	1112	1130	1115	N21	E24	.552	10734	15.3	18	-F	C			.46		DE	
CAPS	13	1113	1125		N19	E21	.502	10734	15.0	12	-B	V	1115	1.03	1.10		228	
MONT	13	1117E	1123D	1117	N20	E27	.574	10734	15.5	6D	-N	C	1117	.52				
GRP29904	13	1149	1210	1150	N17	E67	.934	10743	18.5	21	--N				.36		4 4 3 5	
RAMY	13	1144	1208	1149	N18	E68	.940	10743	18.6	24	-N	C			.31		DE	
CATA	13	1150	1215	1150	N16	E66	.926	10743	18.4	25	-B		1150	.46			275	
CAPS	13	1150E	1207		N16	E64	.913	10743	18.3	17D	-N	V	1152	.31			175	
CANR	13	1153	1153D		N17	E69	.945	10743	18.7		-N	3	V		.50		CE	
905 RAMY	13	1239	1253	1242	S08	E14	.256	10740	14.6	14	--F	C			.31		DE	
GRP29906	13	1331	1343	1333	N20	E24	.543	10734	15.4	12	-N				1.00		4 4 4 6	
RAMY	13	1329E	1348	1332	N21	E22	.533	10734	15.2	19D	-N	C			.67		DE	
CAPS	13	1330E	1342		N19	E21	.502	10734	15.1	12D	-N	P	1333	1.24	1.30		190	
HERS	13	1331	1342D	1333	N20	E26	.563	10734	15.5	11D	-N	P	1332	.94	1.10		C	
MONT	13	1332	1339	1333	N20	E26	.563	10734	15.5	7	-N	C	1333	1.13			E	
GRP29907	13	1408	1429	1412	S09	E15	.277	10740	14.7	21	-N				2.75		4 4 3 6	
CATA	13	1405	1430	1405	S08	E14	.256	10740	14.6	25	1B		1405	1.97	2.04		327	
CAPS	13	1407	1427		S10	E15	.284	10740	14.7	20	-B	V	1410	1.75	1.80		196	
MONT	13	1409E	1420D	1412	S09	E15	.277	10740	14.7	11D	1N	C	1412	4.54				
CANR	13	1411	1430		S09	E15	.277	10740	14.7	19	-F	3	V					
GRP29908	13	1444	1515	1453	S13	E49	.760	10744	17.3	31	--F				.83		4 4 2 6	
LOCK	13	1437	1517	1452	S13	E47	.738	10744	17.1	40	-F							
CANR	13	1445	1514		S12	E51	.780	10744	17.4	29	-F	3	V		.80			
CAPS	13	1446E	1507D		S13	E49	.760	10744	17.3	21D	-F	V	1448	1.13	1.90		158	
RAMY	13	1447	1513	1453	S13	E48	.749	10744	17.2	26	-F	C		.52			DE	

# SOLAR FLARES Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMTATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
					LAT.	MER. DIST.												
1970 MAY																		
GRP29910	13	1648	1728	1658	N20	E22	.522	10734	15.4	40	-B							5 5 2 5
LOCK	13	1643	1751	1700	N20	E20	.503	10734	15.2	68	-N							
CANR	13	1645	1720	1658	N22	E25	.572	10734	15.6	35	-B	3	V					
CATA	13	1650	1715	1658	N19	E22	.512	10734	15.4	25	-B			1658	1.44	1.69		436
BOUL	13	1651E	1725	1658	N20	E22	.522	10734	15.4	34D	-B							
RAMY	13	1652	1728	1656	N20	E21	.512	10734	15.3	36	-N							F
GRP29912	13	2126	2141	2130	N20	E62	.906	10743	18.5	15	-N							3 3 1 5
RAMY	13	2125	2141	2128	N20	E60	.892	10743	18.4	16	-N							F
LOCK	13	2127	2140	2131	N20	E60	.892	10743	18.4	13	-F							
BOUL	13	2130E	2141	2130	N21	E65	.927	10743	18.8	15	-N			2130		1.00		
GRP29914	14	0035	0050	0038	N18	E59	.880	10743	18.4	15	--F							2 2 1 6
LOCK	14	0031	0050	0037	N18	E57	.865	10743	18.3	19	-F							
MITK	14	0038	0041D	0039	N17	E61	.894	10743	18.6	3D	-F			0039	.62	1.40		E
GRP29916	14	0524	0534	0524	N19	E53	.834	10743	18.2	10	--F							2 2 1 5
TEHR	14	0523	0530D	0524	N18	E54	.840	10743	18.3	7D	1F							
CRON	14	0525	0534		N19	E51	.816	10743	18.1	9	-F	3	V					
GRP29917	14	0527	0536	0529	N20	E14	.448	10734	15.3	9	--F							2 2 1 5
TEHR	14	0526E	0530D		N19	E15	.443	10734	15.4	4D	1F							E
CRON	14	0528	0536	0529	N20	E13	.440	10734	15.2	8	-F	3	V	0529		.90		
GRP29920	14	0853	0923	0903	S09	E04	.128	10740	14.7	30	-B							4 4 4 8
MONT	14	0853	0916	0900	S09	E05	.138	10740	14.7	23	-N			0900	2.25			
CATA	14	0855E	0920D	0905	S08	E03	.104	10740	14.6	25D	-B			0905	1.04	1.05		246
CAPS	14	0903E	0925D		S09	E04	.128	10740	14.7	22D	-B	2	V	0905	.52	.50		220
WEND	14	0908E	0929		S09	E03	.120	10740	14.6	21D	1N				5.16			B
GRP29921	14	1143	1204	1145	S13	E35	.589	10744	17.1	21	-B							5 4 4 7
RAMY	14	1141	1207	1145	S14	E36	.605	10744	17.2	26	-N							DE
MONT	14	1142	1201	1145	S14	E37	.618	10744	17.3	19	-B			1145	2.06			
CAPS	14	1145	1209		S12	E33	.558	10744	17.0	24	-N	3	V	1148	1.34	1.50		164
CATA	14	1145	1200	1145	S14	E36	.605	10744	17.2	15	-B			1145	.69	.87		380
HURB	14	1154E	1203		S12	E34	.572	10744	17.0	9D	1F						1.30	
GRP29922	14	1311	1335	1311	S09	E01	.109	10740	14.6	24	-B							3 3 2 6
MONT	14	1308	1334	1312	S09	E03	.120	10740	14.8	26	1B			1312	2.58			H
CATA	14	1310	1330	1310	S08	E01	.092	10740	14.6	20	-B			1310	1.51	1.52		339
CANR	14	1316	1340		S09	E00	.108	10740	14.6	24	-B	2	V			.50		
GRP29925	14	1458	1516	1505	S09	E01	.109	10740	14.7	18	-F							6 6 4 9
MONT	14	1456	1514	1505	S09	E01	.109	10740	14.7	18	-N			1505	.52			
WEND	14	1457	1620		S10	E00	.125	10740	14.6	83	1F				5.16			
LOCK	14	1458	1527	1507	S08	W01	.092	10740	14.5	29	-F							
CAPS	14	1500E	1511D		S09	E03	.120	10740	14.9	11D	-F	3	V	1503	1.03	1.00		158
ZURI	14	1500	1506	1502	S08	E01	.092	10740	14.7	6	1N			1502	2.73	2.70		
BOUL	14	1502E	1524		S09	E02	.113	10740	14.8	22D	-N							
GRP29926	14	2119	2146	2123	S08	W04	.114	10740	14.6	27	--N							2 1 1 4
RAMY	14	2119	2146	2123	S08	W04	.114	10740	14.6	27	-N							F
BOUL	14	2135E	2144D	2135	S07	E01	.075	10740	15.0	9D	-N			2135		.50		
5 STATIONS REPORTING GROUP 29927. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP29927	14	2214	2309	2237	S08	W03	.104	10740	14.7	55	2N							3 3 1 4
VORO	14	2212	2308	2238	S08	W04	.114	10740	14.6	56	2N			2238	8.31	8.27		141
LOCK	14	2215	2310	2230	S09	W04	.128	10740	14.6	55	1N							
BOUL	14	2225E	2244D	2242	S08	W01	.092	10740	14.9	19D	2N					7.00		
29927	14	2215	2330	2217	S09	W04	.128	10740	14.6	75	*-N							2 2 2 4
RAMY	14	2215E	2228D	2217U	S08	W04	.114	10740	14.6	13D	-N							F
MANI	14	2215E	2330		S09	W03	.120	10740	14.7	75D	-N	2		2215	1.03	1.04		
GRP29928	15	0007	0027	0011	S08	W10	.196	10740	14.3	20	--N							3 3 2 5
LOCK	15	0005	0030	0011	S07	W10	.188	10740	14.3	25	-N							H
CRON	15	0008	0027	0011	S08	W09	.181	10740	14.3	19	-N	2	V		.80			
MITK	15	0009	0023	0010	S08	W10	.196	10740	14.3	14	-N			0010	.72	.70		DH
6 STATIONS REPORTING GROUP 29929. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP29929	15	0145	0322	0243	S09	W07	.163	10740	14.5	97	1B							3 3 2 5
KODA	15	0145E	0329	0239	S08	W07	.152	10740	14.5	104D	1N			0235	3.90	3.90		2.72
SIBE	15	0145E	0315		S09	W07	.163	10740	14.5	90D	2B							IKU
CRON	15	0201	0321	0247	S10	W06	.164	10740	14.6	80	1B			0247	2.40			EKUZ

# SOLAR FLARES

Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS			
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H $\alpha$	MAX. INT. %	
1970 MAY																			
29929	15	0159	0322	0224	S09	W06	.151	10740	14.6	83	*1B						4 3 3 6		
MANI	15	0155E	0324	0226	S08	W05	.127	10740	14.7	89D	1N	2	0226	2.37	2.39				
CRON	15	0201	0321	0224	S10	W06	.164	10740	14.6	80	1B		V	0224	2.10				
MITK	15	0201E	0321	0223	S09	W07	.163	10740	14.6	80D	1B		C	0223	3.40	3.40	EHK		
TACH	15	0256E	0323		S09	W06	.151	10740	14.7	27D	1F		C	0256	2.99	3.02	1.74	57	BEZ
GRP29931	15	0354	0422	0357	S08	W08	.166	10740	14.6	28	-N				2.50				3 3 3 6
TACH	15	0353	0415	0358	S09	W07	.163	10740	14.6	22	-N		C	0358	1.73	1.75	1.45	57	EZ
MITK	15	0355	0412D	0356	S08	W08	.166	10740	14.6	17D	-F		C	0356	1.86	1.90			
KODA	15	0355	0429	0357	S08	W08	.166	10740	14.6	34	1N		V	0355	3.90	3.90	1.36		IJU
GRP29934	15	0716	0843	0720	S08	W09	.181	10740	14.6	87	-B				1.73				5 5 3 8
ISTA	15	0710	0716		S07	W13	.236	10740	14.3	6	-F								
CAPS	15	0715E	0728D		S10	W08	.187	10740	14.7	13D	-N		V	0717	1.34	1.30		175	C
BUCA	15	0715	0830		S08	W09	.181	10740	14.6	75	1B		P	0720	2.76	2.80			
CANR	15	0715	0715D		S08	W10	.196	10740	14.6		-N	1	V						
ISTA	15	0715	0855	0720	S08	W08	.166	10740	14.7	100	-B								
CATA	15	0720	0735D	0720	S09	W10	.204	10740	14.6	15D	-B			0720	1.09	1.13		309	T
GRP29935	15	0738	0805	(0740)	N16	E41	.702	10743	18.4	27	--N				.58				3 3 2 9
BUCA	15	0734	0821		N15	E38	.664	10743	18.2	47	-B		C	0740	.66	.80			
CANR	15	0734	0750		N17	E44	.739	10743	18.6	16	-N	2	V			.60			
CRON	15	0745	0805		N16	E42	.714	10743	18.5	20	-F	4	V			.50			
10 STATIONS REPORTING GROUP 29936. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP29936	15	0925	1005	0929	S09	W11	.219	10740	14.6	40	1N				3.27				6 6 3 9
CANR	15	0924	1030	0927	S08	W11	.211	10740	14.6	66	1B	3	V			2.60			
CAPS	15	0925E	1010D	0930	S10	W09	.200	10740	14.7	45D	1B		P	0944	2.89	2.80		266	CL
CRON	15	0925	0945	0928	S08	W12	.226	10740	14.5	20	1B	3	V	0928	2.80				
HURB	15	0926E	0958	0928	S08	W11	.211	10740	14.6	32D	2F						2.40		
ONDR	15	0931E	0959	0933	S10	W10	.214	10740	14.6	28D	2N		V	0933			2.80		CHJ
CAPF	15	0933E	1010D		S09	W10	.204	10740	14.6	37D	1N		C	0937	4.13	4.20			H
29936	15	1102	1143	1104	S08	W13	.242	10740	14.5	41	*-B				1.24				3 3 1 5
RAMY	15	1018E	1120D	1058	S08	W10	.196	10740	14.7	62D	-B		V		1.24				
CANR	15	1102	1143	1104	S08	W13	.242	10740	14.5	41	-B	3	V			.70			
ONDR	15	1103E	1113D		S09	W15	.279	10740	14.3	10D	1B		V	1106			2.60		CHJ
29936	15	1013	1120	1018	S08	W09	.181	10740	14.8	67	*1N				2.58				2 1 1 8
IZMI	15	1008E	1012D		S08	W07	.152	10740	14.9	4D	-B		P						
RAMY	15	1018E	1120D	1018E	S08	W10	.196	10740	14.7	62D	1N		V		2.58				F
29936	15	0925	1130	0947	S09	W10	.204	10740	14.6	125	*-B				1.86				2 1 1 9
CATA	15	0925	1130	0947	S09	W10	.204	10740	14.6	125	-B			0947	1.86	1.90		372	TZ
KODA	15	0956	1007	0958	S08	W12	.226	10740	14.5	11	-N		V	0956	1.98	2.00	1.48		EJK
GRP29937	15	1228	1326	1245	S09	W13	.248	10740	14.5	58	-N				2.17				3 3 1 5
CANR	15	1227	1335		S08	W17	.305	10740	14.2	68	-N	2	V			.90			
BOUL	15	1229	1305	1245	S09	W13	.248	10740	14.5	36	-N		V						
CAPS	15	1252E	1339D		S10	W10	.214	10740	14.8	47D	1B	3	V	1253	2.17	2.10		215	L
7 STATIONS REPORTING GROUP 29942. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP29942	15	1440	1539	1511	S09	W14	.264	10740	14.6	59	-N				1.75				4 4 3 7
CATA	15	1440	1550	1510	S09	W14	.264	10740	14.6	70	-B			1510	1.22	1.26		347	TZ
BOUL	15	1445E	1523	1513	S09	W12	.233	10740	14.7	38D	1N		V						
HUAN	15	1452E	1545U	1510	S08	W16	.289	10740	14.4	53D	-N	2	P	1510	.33	.30			E
CAPF	15	1505E	1515D		S09	W13	.248	10740	14.7	10D	1N		C	1507	3.71	3.78			H
29942	15	1422	1628	1522	S09	W12	.233	10740	14.7	126	*-B				1.91				4 3 2 6
RAMY	15	1420	1525D	1458	S09	W12	.233	10740	14.7	65D	-N		C		1.86				F
CAPS	15	1423	1546D		S09	W11	.219	10740	14.8	83D	-B	3	P	1459	1.96	1.90		275	
CANR	15	1423	1555	1456	S09	W14	.264	10740	14.5	92	-B	3	V			1.90			
BOUL	15	1548	1628	1611	S08	W14	.257	10740	14.6	40	-N		V						
29942	15	1421	1459	1425	S09	W12	.233	10740	14.7	38	*-N				1.34				2 2 1 6
RAMY	15	1420	1525D	1425	S09	W12	.233	10740	14.7	65D	-N		C		1.34				
BOUL	15	1422	1432	1424	S09	W12	.233	10740	14.7	10	-N		V						
GRP29945	15	1636	1836	1801	S08	W17	.305	10740	14.4	120	-N								4 2 0 6
CANR	15	1636	1857	1758	S09	W17	.310	10740	14.4	141	1N	3	V			2.20			
BOUL	15	1637	1650	1638	S08	W14	.257	10740	14.6	13	-N		V						
BOUL	15	1657	1703	1659	S07	W19	.332	10740	14.3	6	-N		V						
MCMA	15	1716	1730D		S08	W14	.257	10740	14.7	14D	-N		C	1720	.62	.70			E
BOUL	15	1749	1822	1753	S07	W18	.316	10740	14.4	33	-N		V	1753		.40			
HUAN	15	1808E	1830U	1812	S08	W16	.289	10740	14.6	22D	-F	1	C	1812	.21	.20			D



# SOLAR FLARES

## Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
					LAT.	MER. DIST.												
1970																		
MAY																		
GRP29962	16	1448	1527	1459	S08	W26	.445	10740	14.7	39	1B						7 6 4 7	
SANM	16	1420E	1944D		S08	W28	.475	10740	14.5	324D	1B	2	P	1450	4.53	5.12	FKT	
MONT	16	1446	1616D	1451	S08	W26	.445	10740	14.7	90D	1B		C	1451	4.64			
CANR	16	1446	1543	1501	S09	W27	.463	10740	14.6	57	1N	3	V		2.20			
BOUL	16	1448	1510	1450	S09	W25	.433	10740	14.7	22	-B		V					
CATA	16	1450E	1525D	1455	S08	W28	.475	10740	14.5	35D	1B		V	1455	2.61	2.96	255	
RAMY	16	1450	1530	1455	S08	W23	.399	10740	14.9	40	1B		V		2.58		DE	
HUAN	16	1514E	1540U	1522U	S08	W29	.490	10740	14.5	26D	-F	1	C	1522	.33	.40	D	
7 STATIONS REPORTING GROUP 29964. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP29964	16	1639	1653	1641	S08	W30	.505	10740	14.4	14	-N				.81			6 6 4 7
SANM	16	1635	1645	1640	S06	W36	.589	10740	14.0	10	-B	2	C		1.29	1.57	D	
RAMY	16	1636	1650	1640	S08	W20	.352	10740	15.2	14	-N		V		.93		F	
BOUL	16	1638	1646	1640	S08	W33	.549	10740	14.2	8	-N		V					
CATA	16	1640	1645	1640	S06	W35	.574	10740	14.1	5	-B		V	1640	.58	.71	219	
HUAN	16	1640E	1659U	1643U	S08	W30	.505	10740	14.4	19D	-F	1	C	1643	.45	.50	E	
CANR	16	1643	1710		S09	W27	.463	10740	14.7	27	-N	3	V		1.30			
29964	16	1645	1708	1652	S09	W28	.478	10740	14.6	23	*1N				4.86			3 3 1 7
SANM	16	1420E	1944D		S08	W28	.475	10740	14.5	324D	2B	2	P	1652	4.86	5.50		
BOUL	16	1645	1655D	1648	S10	W27	.467	10740	14.7	10D	-B		V					
LOCK	16	1645	1708	1655	S09	W29	.493	10740	14.5	23	-F							
GRP29965	16	1722	1734	1725	N14	E16	.390	10743	17.9	12	--N				.61			5 5 2 5
CANR	16	1715	1735		N15	E15	.391	10743	17.8	20	-N	3	V		1.00			
BOUL	16	1722	1740	1725	N13	E15	.367	10743	17.8	18	-N		V	1725	.50			
LOCK	16	1722	1730	1724	N13	E18	.402	10743	18.1	8	-N							
RAMY	16	1725	1733	1725	N16	E18	.434	10743	18.1	8	-N		V		.41		F	
SANM	16	1725	1731	1725	N15	E14	.381	10743	17.8	6	-N	2	C		.80	.87	CE	
GRP29966	16	1738	1752	1739	N15	E24	.493	10743	18.5	14	--F				.97			2 2 1 5
SANM	16	1737	1746	1737	N14	E21	.448	10743	18.3	9	-N	2	C		.97	1.10	CE	
BOUL	16	1738	1758	1740	N15	E26	.517	10743	18.7	20	-F		V	1740		.30		
GRP29967	16	1900	1932	1904	S09	W26	.448	10740	14.8	32	-N				1.71			3 3 2 5
SANM	16	1420E	1944D		S08	W30	.505	10740	14.3	324D	1B	2	P	1905	2.59	2.99		
BOUL	16	1828	1932	1902	S10	W26	.452	10740	14.8	64	-N		V	1902	1.50			
RAMY	16	1900	1920	1905	S08	W23	.399	10740	15.1	20	-N		V		.83		F	
6 STATIONS REPORTING GROUP 29969. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP29969	16	2128	2204	2129	S07	W31	.518	10740	14.6	36	-B				1.68			4 4 3 5
RAMY	16	2127	2150	2129	S08	W24	.415	10740	15.1	23	-F		V		1.44		DE	
BOUL	16	2128E	2225D	2128	S07	W32	.533	10740	14.5	57D	-B		V	2128		1.50		
VORO	16	2129	2148	2130	S08	W35	.577	10740	14.3	19	-B		C	2130	1.11	1.30	100	
CULG	16	2129E	2212D		S05	W33	.545	10740	14.4	43D	1B		P	2129	2.48	2.88	EJ LFHR	
29969	16	2130	2202	2140	S07	W34	.561	10740	14.3	32	*-F				1.24			2 2 1 6
LOCK	16	2130	2205	2140	S05	W34	.559	10740	14.3	35	1F						H	
MANI	16	2143E	2159		S09	W33	.551	10740	14.4	16D	-N	2		2146	1.24	1.48		
GRP29972	17	0418	0449	0427	S07	W35	.576	10740	14.6	31	1N				2.61			7 7 6 7
MANI	17	0409	0435D	0422	S06	W37	.603	10740	14.4	26D	-B	2		0422	1.44	1.86		
TACH	17	0412	0443	0427	S09	W36	.593	10740	14.5	31	1B		C	0427	2.09	2.57	2.71 114	
ONDR	17	0418E	0446		S06	W37	.603	10740	14.4	28D	2N		V	0423		2.70	E	
KODA	17	0419	0439	0425	S08	W35	.577	10740	14.6	20	2N		P	0433	6.29	6.30	2.44	
CULG	17	0422E	0454		S05	W33	.545	10740	14.7	32D	1B		P	0424	2.78	3.37	C	
CRON	17	0427	0449		S09	W34	.565	10740	14.6	22	1N	4	V		2.00		CIKU	
ABST	17	0432E	0500	0432	S06	W36	.589	10740	14.5	28D	-N		P	0432	1.07	1.50	EK	
GRP29985	17	0740	0804	0743	N15	E15	.389	10743	18.4	24	1N				1.93			8 7 5 11
TEHR	17	0725	0800D	0742	N15	E17	.411	10743	18.6	35D	1B		P				EZ	
ISTA	17	0735	0810	0742	N17	E16	.424	10743	18.5	35	-N							
CATA	17	0740	0805D	0745	N15	E15	.389	10743	18.4	25D	1B			0745	1.86	2.02	295	
BUCA	17	0740	0748D		N15	E15	.389	10743	18.4	8D	-N		P	0740	1.66	1.80		
CAPS	17	0740	0807		N14	E15	.378	10743	18.4	27	1B		P	0743	2.17	2.20	204	
ABST	17	0740	0810	0742	N16	E15	.402	10743	18.4	30	1N		C	0742	2.25	2.40	E	
CRON	17	0742	0801	0742	N14	E15	.378	10743	18.4	19	-N	3	V	0742	1.70			
ONDR	17	0743E	0753		N14	E15	.378	10743	18.4	10D	1B		V	0746		2.80	CE	
GRP29989	17	0908	0924	(0911)	S09	W38	.620	10740	14.5	16	-B				1.55			3 3 1 7
ONDR	17	0908E	0927		S09	W41	.660	10740	14.3	19D	1B		V	0910		2.60	C	
CANR	17	0908	0920		S09	W38	.620	10740	14.5	12	-N	2	V			.60		
CAPS	17	0909E	0925D		S09	W35	.579	10740	14.8	16D	-B	3	V	0911	1.55	1.80	204	
GRP29991	17	0935	0947	0937	S10	W40	.649	10740	14.4	12	-N				.61			3 3 2 8
CATA	17	0935	0955	0935	S09	W40	.647	10740	14.4	20	-B			0935	.58	.76	251	
LOCA	17	0935	0942	0938	S10	W40	.649	10740	14.4	7	-N		V	0938	.63	.80		
ONDR	17	0939E	0943		S12	W40	.653	10740	14.4	4D	1N		V	0940		2.00	CDH	

# SOLAR FLARES Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
993 ZURI	17	1129	1132	1130	S07	W35	.576	10740	14.9	3	-N	C	1130	.79	1.00			6
GRP29994	17	1349	1410	(1350)	S11	E26	.457	10747	19.5	21	-F							2 2 0 5
ONDR	17	1348E	1357D		S11	E24	.427	10747	19.4	9D	1F	V	1350			1.70		C
CANR	17	1349	1410		S11	E28	.486	10747	19.7	21	-N	2 V			.50			
GRP29996	17	1412	1446	1435	N17	E36	.649	10749	20.3	34	1N			2.22				5 4 2 6
MCMA	17	1412	1432D		N18	E36	.655	10749	20.3	20D	-N	C	1429	1.34	1.70			E
CANR	17	1412	1448		N18	E40	.700	10749	20.6	36	1F	3 V			3.00			
RAMY	17	1420E	1455	1424	N20	E38	.689	10749	20.4	35D	1N	V		3.09				F
ONDR	17	1428E	1436		N12	E30	.547	10749	19.9	8D	1N	V	1429			2.10		CH
CATA	17	1430E	1530	1445	N14	E34	.609	10749	20.2	60D	-B		1445	.43	.54		224	
GRP29999	17	1557	1807	1744	S08	W41	.658	10740	14.6	130	--N			.59				4 3 2 6
HUAN	17	1557E	1945U		S17	W52	.799	10740	13.8	228D	-F	2 P	1558	.37	.60			E
CANR	17	1739	1758	1740	S10	W42	.674	10740	14.6	19	-N	3 V			.60			
MCMA	17	1741E	1746D		S08	W43	.684	10740	14.5	5D	-B	C	1743	.41	.50			E
RAMY	17	1744E	1816	1748	S07	W38	.617	10740	14.9	32D	-N	V		.77				F
001 VORO	17	2144	2204	2148	S08	W48	.744	10740	14.3	20	-B	C	2148	.84	1.20		84	EJ 5
GRP30003	18	0010	0022	0013	N13	E60	.879	10750	22.5	12	-N			.52				2 2 2 6
MANI	18	0009	0024	0013	N11	E59	.868	10750	22.4	15	-N	2	0013	.52	.99			
MITK	18	0010	0020	0013	N15	E60	.882	10750	22.5	10	-N	C	0013	.52	1.00			D
GRP30010	18	1037	1054	1043	S06	W53	.798	10740	14.5	17	-N			1.13				7 7 4 11
CANR	18	1036	1051	1038	S07	W55	.819	10740	14.3	15	-N	3 V			.70			
RAMY	18	1037	1052	1041	S07	W53	.799	10740	14.5	15	-N	V		1.03				DE
MONT	18	1038	1046D	1040	S04	W50	.765	10740	14.7	8D	-N	C	1040	1.13				
CAPP	18	1039E	1055		S07	W55	.819	10740	14.3	16D	-N	P	1042	1.03	1.80			D
KHAR	18	1040E	1050D		S04	W56	.828	10740	14.2	10D	1N	V	1045			1.80		
HURB	18	1043E	1048	1044	S06	W48	.743	10740	14.8	5D	1F					1.55		
CATA	18	1050E	1110	1050	S04	W55	.818	10740	14.3	20D	1B		1050	1.33	2.33		309	
GRP30011	18	1147	1155	1150	S06	W56	.829	10740	14.3	8	-N			.58				3 3 2 8
KHAR	18	1146E	1155D		S04	W56	.828	10740	14.3	9D	-F	V	1150			2.10		D
ZURI	18	1147	1153	1150	S07	W55	.819	10740	14.4	6	-N	C	1150	.84	1.40			
MCMA	18	1147	1157	1149	S07	W56	.829	10740	14.3	10	-N	C	1149	.31	.60			ET
4 STATIONS REPORTING GROUP 30014. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP30014	18	1837	1900	1841	S06	W59	.857	10740	14.4	23	-B			1.08				2 2 2 5
MCMA	18	1836	1900	1840	S06	W60	.865	10740	14.3	24	-B	C	1840	.72	1.40			EHKV
RAMY	18	1837	1900	1842	S05	W58	.847	10740	14.4	23	-N	V		1.44				F
30014	18	1845	1902	1852	S08	W58	.848	10740	14.4	17	*-N							2 2 0 6
CANR	18	1845	1859		S08	W57	.839	10740	14.5	14	-N	1 V		.70				
BOUL	18	1850E	1905D	1852	S07	W58	.848	10740	14.4	15D	-N	S						
017 MCMA	18	2055	2100	2058	S08	W54	.809	10740	14.8	5	--N	C	2058	.52	.80			E 4
4 STATIONS REPORTING GROUP 30018. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP30018	18	2200	2250	2224	S12	W25	.448	10744	17.0	50	-N			.93				3 3 1 6
LOCK	18	2200	2250	2225	S12	W23	.419	10744	17.2	50	-N							
MANI	18	2211E	2221D		S11	W27	.472	10744	16.9	10D	-N	2	2219	.93	1.21			
BOUL	18	2216E	2236D	2222	S13	W24	.439	10744	17.1	20D	-N	S						
30018	18	2202	2225	2209	S13	W23	.425	10744	17.2	23	*-F			1.24				2 2 1 5
BOUL	18	2202	2212D	2205	S13	W23	.425	10744	17.2	10D	-F	S						
RAMY	18	2203E	2225D	2213U	S12	W23	.419	10744	17.2	22D	-N	V		1.24				F
019 CULG	18	2202	2308	2228	S27	W08	.435	10746	18.3	66	1N	C	2228	2.89	3.22			5
GRP30020	18	2309	2320	2313	N18	W18	.454	10743	17.6	11	--N			.84				2 2 1 4
LOCK	18	2306	2323	2314	N18	W17	.444	10743	17.7	17	-F							
VORO	18	2311	2316	2312	N17	W18	.443	10743	17.6	5	-B	P	2312	.84	.90		86	E
GRP30021	18	2313	2321	2316	S12	W28	.490	10744	16.9	8	-N			.93				2 2 1 5
LOCK	18	2312	2325	2317	S11	W28	.486	10744	16.9	13	-F							
VORO	18	2313	2316	2315	S13	W27	.481	10744	16.9	3	-B	P	2315	.93	1.00		89	D
GRP30023	19	0204	0219	0206	S14	W57	.843	10740	14.8	15	--F			.86				2 2 2 3
MANI	19	0203	0218	0206	S12	W56	.832	10740	14.9	15	-N	2	0206	.72	1.57			
CRON	19	0204	0219	0206	S16	W57	.846	10740	14.8	15	-F	3 V	0206	1.00				
024 CRON	19	0314	0331		N16	W20	.452	10743	17.6	17	--F	3 V		.40				2
025 CULG	19	0335	0352	0342	S14	W58	.852	10740	14.8	17	1N	C	0342	1.44	2.66			3

# SOLAR FLARES Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
1970																		
MAY																		
GRP30026	19	0341	0409	0346	N15	W11	.348	10743	18.3	28	1N							3 3 3 3
CULG	19	0341	0422	0351	N16	W09	.347	10743	18.5	41	1N	C	0351	3.61	3.67			
MITK	19	0341	0401	0343	N15	W12	.357	10743	18.3	20	1N	C	0343	2.17	2.30			E
CRON	19	0341	0404	0344	N15	W11	.348	10743	18.3	23	1N	3 V	0344	2.20				
GRP30027	19	0511	0529	0514	N17	W19	.452	10743	17.8	18	-N			1.05				4 4 4 6
ABST	19	0510	0525	0514	N16	W21	.464	10743	17.6	15	-N	C	0514	1.35	1.50		56	E
MITK	19	0511	0526	0514	N15	W21	.454	10743	17.6	15	-N	C	0514	.62	.70			E
CRON	19	0512	0536		N17	W20	.463	10743	17.7	24	-N	3 V		.80				
KODA	19	0514E	0514D		N18	W14	.414	10743	18.2		-F	P	0514	1.42	1.40			CE
GRP30029	19	0523	0537	0527	S14	W60	.869	10740	14.7	14	1N			2.34				5 5 5 6
KODA	19	0507E	0540	0527	S13	W60	.869	10740	14.7	33D	2N	P	0507	5.31	5.30	1.64		K
CULG	19	0520	0537	0529	S10	W59	.858	10740	14.8	17	1N	C	0529	2.48	4.80			
ABST	19	0523	0540	0527	S14	W60	.869	10740	14.7	17	1N	C	0527	1.35	2.97		58	EK
KIEV	19	0524	0531	0526	S15	W60	.870	10740	14.7	7	-N	C	0526	1.55			65	DI
MITK	19	0525	0527D		S16	W60	.871	10740	14.7	2D	-N	C	0527	1.03	2.00			E
GRP30031	19	0717	0735	0721	S11	W29	.501	10744	17.1	18	-N			1.05				5 5 3 9
TEHR	19	0712	0744D	0724	S12	W28	.491	10744	17.2	32D	1B	P						E
MANI	19	0715	0736D	0720	S10	W30	.512	10744	17.1	21D	-N	2 V	0720	.72	.95			
CANR	19	0718	0733		S11	W30	.515	10744	17.1	15	-N	2 V		.90				
CRON	19	0719	0721	0719	S12	W28	.491	10744	17.2	2	-N	3 V	0719	1.20				
CAPS	19	0723	0739		S12	W27	.477	10744	17.3	16	-F	V	0725	1.24	1.40		137	C
TEHR	19	0732	0745D	0737	S11	W28	.487	10744	17.2	13D	-F							
GRP30034	19	0751	0758	0753	N15	W10	.340	10743	18.6	7	-N			.75				3 3 2 12
TEHR	19	0749	0755D	0752	N15	W09	.332	10743	18.7	6D	1N							
MONT	19	0751	0758	0754	N18	W11	.390	10743	18.5	7	-N	C	0754	.77				
CAPS	19	0754	0757		N12	W10	.298	10743	18.6	3	-F	V	0755	.72	.80		155	
GRP30043	19	1118	1145	1120	N14	W15	.375	10743	18.3	27	-N			1.62				5 5 4 8
RAMY	19	1114	1142	1118	N14	W15	.375	10743	18.3	28	-N	C		1.65				DE
MCMA	19	1118	1125D		N14	W18	.409	10743	18.1	7D	-N	C	1122	.93	1.00			E
CAPS	19	1118E	1137		N15	W12	.357	10743	18.6	19D	1N	V	1120	2.27	2.30		190	
CANR	19	1118	1145	1121	N15	W15	.387	10743	18.3	27	-F	3 V		2.00				
CATA	19	1120	1155	1120	N13	W15	.363	10743	18.3	35	-B		1120	1.62	1.76		251	Z
GRP30044	19	1132	1146	1133	S10	W66	.913	10740	14.5	14	-N			.85				3 3 2 9
RAMY	19	1128	1144	1130	S17	W60	.872	10740	15.0	16	-F	C		.52				F
RAMY	19	1133	1157	1135	S18	W66	.917	10740	14.5	24	-F	C		.41				F
MONT	19	1134	1154D	1135	S07	W64	.898	10740	14.7	20D	-N	C	1135	.77				
CANR	19	1135	1140		S07	W70	.939	10740	14.2	5	-N	3 V		.50				
GRP30047	19	1308	1323	1310	S12	W31	.533	10744	17.2	15	-N			1.12				7 7 5 9
RAMY	19	1305	1326	1308	S11	W31	.530	10744	17.2	21	-N	C		.83				F
MCMA	19	1307	1320	1310	S11	W32	.544	10744	17.1	13	-N	C	1310	.52	.60			E
CAPE	19	1307	1330	1311	S12	W32	.547	10744	17.1	23	-N	C	1311	1.06	1.20			
MONT	19	1307	1321	1312	S12	W31	.533	10744	17.2	14	-N	C	1312	2.27				
CANR	19	1307	1320		S11	W33	.558	10744	17.1	13	-N	3 V						
BOUL	19	1310E	1318	1310	S12	W29	.505	10744	17.4	8D	-N	S						
CATA	19	1310	1315D	1310	S12	W32	.547	10744	17.1	5D	-B		1310	.93	1.11		251	
GRP30049	19	1403	1412	1404	N16	W15	.399	10743	18.5	9	--N			.89				8 8 6 11
RAMY	19	1359	1413	1401	N16	W15	.399	10743	18.5	14	-N	C		.93				F
MONT	19	1401	1411	1403	N18	W14	.414	10743	18.5	10	-B	C	1403	1.13				
BOUL	19	1403E	1411	1404	N17	W14	.402	10743	18.5	8D	-N	V						
MCMA	19	1403	1411	1404	N15	W15	.387	10743	18.5	8	-N	C	1404	.46	.50			E
CAPE	19	1403	1410	1404	N15	W14	.376	10743	18.5	7	-N	C	1404	1.33	1.50			V
LOCA	19	1403	1412	1405	N15	W15	.387	10743	18.5	9	-B	V	1405	.63	.70			
CANR	19	1403	1413		N14	W14	.364	10743	18.5	10	-N	3 V		.60				
CATA	19	1405	1415	1405	N15	W15	.387	10743	18.5	10	-B		1405	.87	.95		269	
GRP30050	19	1442	1501	1447	N17	W15	.411	10743	18.5	19	-N			1.07				8 8 5 10
RAMY	19	1439	1503	1444	N18	W16	.433	10743	18.4	24	-N	C		1.44				F
MONT	19	1441	1504	1447	N18	W14	.414	10743	18.6	23	-B	C	1447	1.55				
LOCK	19	1442	1500	1448	N18	W15	.423	10743	18.5	18	-N							
LOCA	19	1443	1503	1447	N18	W14	.414	10743	18.6	20	-N	V	1447	.63	.70			
CANR	19	1443	1500		N16	W16	.409	10743	18.4	17	-N	2 V		1.00				
MCMA	19	1444	1458	1448	N15	W15	.387	10743	18.5	14	-N	C	1448	.57	.60			E
CATA	19	1445	1500D	1445	N17	W15	.411	10743	18.5	15D	-B		1445	1.16	1.28		295	
BOUL	19	1450E	1502	1450	N18	W14	.414	10743	18.6	12D	1N	S	1450	2.10				
GRP30051	19	1606	1615	1610	N19	W18	.464	10743	18.3	9	--N			.27				4 4 3 6
LOCK	19	1605	1617	1610	N20	W20	.495	10743	18.2	12	-F							H
MCMA	19	1606	1612	1608	N16	W16	.409	10743	18.5	6	-N	C	1608	.26	.30			DL
MONT	19	1606	1615	1610	N20	W19	.485	10743	18.2	9	-N	C	1610	.21				
CATA	19	1610E	1615	1610	N20	W18	.476	10743	18.3	5D	-B		1610	.34	.40		282	





20  
May 70

# SOLAR FLARES

## Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
1970																		
MAY																		
GRP30090	22	0117	0212	0124	S13	W40	.658	10747	19.1	55	1N							
CULG	22	0117	0212	0124	S13	W40	.658	10747	19.1	55	1N	C	0124	3.09	4.20		HL	
MANI	22	0122	0148D		S16	W44	.714	10747	18.8	26D	-F	2	0124	1.24	1.79			
GRP30093	22	0656	0818	0708	N17	W59	.876	10743	17.9	82	--N			.50			3 3 3 4	
CRON	22	0650	0820		N16	W58	.866	10743	17.9	90	-F	3	V	.30				
CATA	22	0655	0715	0705	N19	W58	.872	10743	17.9	20	-B			.29	.58	288	T	
ABST	22	0703	0815	0710	N17	W62	.898	10743	17.6	72	-F		C	.90		46	D	
GRP30094	22	0831	0858	0836	N14	E05	.286	10750	22.7	27	1N			2.86			6 5 4 6	
CRON	22	0829	0858	0831	N13	E04	.266	10750	22.7	29	-B	3	V	1.80				
ABST	22	0829	0910D	0830	N14	E05	.286	10750	22.7	41D	1B		C	0830	4.49	4.70	78	E
MANI	22	0830	0858		N14	E05	.286	10750	22.7	28	1N	2		0833	2.68	2.81		E
HERS	22	0831	0846	0833	N15	E07	.313	10750	22.9	15	1N		C	0832	2.45	2.60		
IZMI	22	0834	0856D	0835	N15	E05	.302	10750	22.7	22D	1N							
CATA	22	0840E	0905	0845	N13	E05	.270	10750	22.7	25D	1B			0845	2.20	2.30	331	
22 1000 1002 NO FLARE PATROL																		
GRP30096	22	1129	1221	1151	N18	W61	.893	10743	17.9	52	--B			.52			2 2 1 4	
CANR	22	1127	1214		N18	W61	.893	10743	17.9	47	-B	2	V		.70			
RAMY	22	1131	1228	1151	N18	W60	.885	10743	18.0	57	-N		C	.52			DEH	
GRP30097	22	1152	1202	1156	N13	E03	.262	10750	22.7	10	-N			1.28			3 3 2 4	
RAMY	22	1148	1206	1157	N14	E02	.276	10750	22.6	18	-N		C	.93			F	
CANR	22	1152	1155		N13	E04	.266	10750	22.8	3	-N	2	V		.40			
CATA	22	1155	1205	1155	N13	E03	.262	10750	22.7	10	-B			1155	1.62	1.70	302	
GRP30102	22	1529	1539	1535	N19	W59	.879	10743	18.2	10	1N			.86			5 4 2 8	
BOUL	22	1525	1541	1535	N19	W59	.879	10743	18.2	16	1N		V					
ONDR	22	1526E	1534		N16	W58	.866	10743	18.3	8D	2F		V	1527		2.30		CJ
RAMY	22	1529	1541	1535	N19	W60	.887	10743	18.1	12	-N		C	1.03			DEH	
LOCK	22	1532	1542	1536	N21	W69	.947	10743	17.5	10	-N							
CATA	22	1535	1540	1535	N20	W60	.889	10743	18.1	5	-B			1535	.69	1.53	468	
GRP30103	22	1612	1626	1614	N17	W62	.898	10743	18.0	14	-N			.62			3 3 1 7	
BOUL	22	1611	1623	1613	N16	W63	.904	10743	17.9	12	-N		V					
LOCK	22	1612	1622	1615	N17	W62	.898	10743	18.0	10	-F							
RAMY	22	1612	1633	1615	N17	W61	.891	10743	18.1	21	-N		C	.62			DEH	
GRP30106	22	1858	1917	1901	N17	W65	.919	10743	17.9	19	-B			.62			3 3 2 4	
RAMY	22	1857	1912	1900	N16	W62	.897	10743	18.1	15	-B		C	.93			DEH	
LOCK	22	1858	1930	1902	N18	W66	.926	10743	17.8	32	-B						H	
MCHA	22	1901E	1910		N17	W67	.931	10743	17.8	9D	-N		P	1901	.31	1.00		DH
GRP30107	22	2027	2051	2038	N16	W66	.924	10743	17.9	24	--N			.31			3 3 1 4	
LOCK	22	2020	2055	2038	N18	W66	.926	10743	17.9	35	-N						HI	
LOCK	22	2020	2055	2025	N18	W66	.926	10743	17.9	35	-F						IJ	
RAMY	22	2033	2046		N14	W66	.922	10743	17.9	13	-B		C				DEH	
MCHA	22	2037E	2041D		N17	W67	.931	10743	17.8	4D	-N		P	2037	.31	1.00		DH
3 STATIONS REPORTING GROUP 30110. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP30110	22	2329	0003	2345	N18	W66	.926	10743	18.0	34	-N			.83			2 2 1 5	
LOCK	22	2320	0015	2345	N18	W66	.926	10743	18.0	55	-N						HJK	
MANI	22	2338	2350		N17	W65	.919	10743	18.1	12	-N		2	2344	.83	1.68		
30110	22	2320	0016	2327	N17	W67	.931	10743	17.9	56	*-F			.60			2 1 1 5	
LOCK	22	2320	0015	2327	N18	W66	.926	10743	18.0	55	-F							
CRON	23	0007	0017		N15	W68	.935	10743	17.9	10	-N	2	V	.60				
GRP30111	23	0051	0108	0101	N17	W67	.931	10743	18.0	17	--F			.31			3 2 1 4	
LOCK	23	0051	0105	0055	N17	W67	.931	10743	18.0	14	-F							
MANI	23	0051	0110		N17	W66	.925	10743	18.1	19	-N	2		0055	.31	.63		
CULG	23	0105E	0115	0107	N18	W67	.932	10743	18.0	10D	1N		P	0107	1.03			
GRP30117	23	0302	0315	0304	N17	W70	.948	10743	17.9	13	-N			.52			2 1 1 6	
MANI	23	0302	0315	0304	N17	W70	.948	10743	17.9	13	-N	2		0304	.52	1.55		
CULG	23	0307	0330	0315	N19	W68	.939	10743	18.0	23	1N		C	0315	1.24		RH	
GRP30118	23	0338	0357	0342	N18	W70	.949	10743	17.9	19	-B			.88			2 2 2 5	
CULG	23	0337	0401	0342	N19	W69	.944	10743	18.0	24	1N		C	0342	1.03		RH	
MANI	23	0338	0353		N17	W70	.948	10743	17.9	15	-B	2		0340	.72	1.62		
GRP30119	23	0446	0500	0449	N16	E29	.555	10753	25.4	14	--F			.67			2 2 2 5	
MITK	23	0445	0500	0449	N15	E29	.548	10753	25.4	15	-F		C	0449	.72	.90		E
MANI	23	0447	0456D		N16	E29	.555	10753	25.4	9D	-F	2		0450	.62	.77		





# SOLAR FLARES

## Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 MAY	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %		
GRP30193	26	0034	0123	0108	S08	E25	.435	10760	27.9	49	-N							4 3 2 5	
CRON	26	0032	0111		S09	E26	.453	10760	28.0	39	-N	3	V						
MANI	26	0035	0132D		S07	E24	.416	10760	27.8	59	-N	2	V	0040	.72	.81			
SIBE	26	0037E	0126		S07	E25	.431	10760	27.9	49D	1F		V					EJKT	
BOUL	26	0105E	0108D	0108	S07	E24	.416	10760	27.8	3D	1N		V	0108		2.50			
GRP30195	26	0237	0256	0240	S07	E24	.416	10760	27.9	19	--F				.86			2 2 2 3	
MANI	26	0234	0254	0240	S07	E23	.400	10760	27.8	20	-F	2		0240	.62	.68			
CRON	26	0240	0257		S07	E25	.431	10760	28.0	17	-N		V		1.10				
GRP30196	26	0247	0310	0250	S14	W03	.224	10759	25.9	23	--F				.61			2 2 2 3	
CRON	26	0246	0320		S13	W02	.204	10759	26.0	34	-N		V		.60				
MANI	26	0247	0259	0250	S15	W03	.240	10759	25.9	12	-F	2		0250	.62	.65			
GRP30197	26	0446	0510	0452	S06	E24	.413	10760	28.0	24	1N				3.66			5 5 4 6	
TEHR	26	0430E	0514D	0455	S07	E23	.400	10760	27.9	44D	2B		P					EZ	
CRON	26	0445	0508	0449	S06	E25	.428	10760	28.1	23	-B	3	V	0449	1.40				
MANI	26	0447	0513D	0450	S06	E23	.397	10760	27.9	26D	-N	2		0450	1.86	2.02			
MITK	26	0449E	0456D		S06	E24	.413	10760	28.0	7D	1N		C	0452	2.27	2.50		E	
TACH	26	0452E	0503	0453	S07	E24	.416	10760	28.0	11D	2N		V	0453	9.12	10.00	2.87	69	EJ
GRP30198	26	0525	0547	0528	S14	W04	.228	10759	25.9	22	1N				1.53			4 4 3 7	
TEHR	26	0430E	0545D	0526	S14	W02	.221	10759	26.0	75D	2B		P					Z	
TEHR	26	0520	0540D		S14	W07	.248	10759	25.7	20D	1N		V					Z	
MANI	26	0522	0548		S16	W03	.257	10759	26.0	26	-N	2		0530	1.03	1.07			
MITK	26	0527E	0541		S14	W03	.224	10759	26.0	14D	1N		C	0532	2.06	2.10		E	
CRON	26	0529	0553	0529	S13	W06	.225	10759	25.8	24	-N	3	V	0529	1.50				
GRP30200	26	0559	0639	0612	S13	W06	.225	10759	25.8	40	-N				1.13			3 3 1 9	
TEHR	26	0558	0635D	0612	S14	W05	.234	10759	25.9	37D	-F							E	
CAPS	26	0600E	0640D		S11	W06	.196	10759	25.8	40D	-N	3	V	0611	1.13	1.10		170	
ISTA	26	0615	0638		S14	W06	.241	10759	25.8	23	-N								
206 TEHR	26	0813E	0931D	0931	S07	E23	.400	10760	28.1	78D	*2N							K	
GRP30207	26	0819	0851	0824	S13	W06	.225	10759	25.9	32	-B				1.78			6 6 4 6	
TEHR	26	0813	0819D	0819	S13	W04	.212	10759	26.0	60	2B		P					K	
CANR	26	0815	0845		S14	W06	.241	10759	25.9	30	-B	2	V			1.70			
ABST	26	0818E	0905	0823	S13	W05	.218	10759	26.0	47D	-N		C	0823	1.79	1.80		68	
CAPS	26	0820E	0838D		S12	W05	.203	10759	26.0	18D	-B	2	V	0822	1.96	2.00		220	
CRON	26	0823	0843	0823	S13	W08	.243	10759	25.7	20	-N	3	V	0823	1.80				
CATA	26	0825	0850	0830	S14	W07	.248	10759	25.8	25	-B			0830	1.56	1.61		380	
GRP30209	26	0926	0939	0931	S12	W06	.210	10759	25.9	13	1N				1.61			3 3 2 6	
TEHR	26	0813	0930D	0930	S13	W04	.212	10759	26.0	77D	1B								
CAPS	26	0926E	0940D		S12	W08	.229	10759	25.8	14D	-N	1	S	0928	.52	.50		175	
ABST	26	0927	0938	0931	S12	W06	.210	10759	25.9	11	1N		P	0931	2.69	2.80		65	EK
210 ABST	26	0932	0938D	0936	S05	E20	.347	10760	27.9	6D	1N		C	0936	2.25	2.40		60	EK
GRP30212	26	1039	1110	1045	S06	E17	.302	10760	27.7	31	-N				1.83			3 3 2 6	
CATA	26	1035	1132	1045	S07	E18	.322	10760	27.8	57	1B			1045	2.32	2.47		676	
RAMY	26	1040	1058	1044	S05	E17	.298	10760	27.7	18	-N		C		1.34			H	
CANR	26	1042	1100		S07	E17	.306	10760	27.7	18	-N	2	V			1.10		DE	
GRP30213	26	1122	1144	1124	S07	E18	.322	10760	27.8	22	-B				2.61			4 4 3 5	
MCHA	26	1105E	1147	1123	S09	E17	.318	10760	27.7	42D	1B		C	1123	2.89	3.00			
RAMY	26	1121	1140	1125	S05	E16	.282	10760	27.7	19	-B		C		1.34			EHV	
CANR	26	1122	1144	1125	S07	E17	.306	10760	27.7	22	-B	3	V			2.00		DE	
CAPS	26	1124E	1130D		S08	E21	.373	10760	28.1	6D	1F	1	S	1125	3.61	3.80		158	
GRP30215	26	1354	1416	1405	S10	W67	.921	10748	21.6	22	-N				.75			6 6 5 8	
LVOV	26	1347	1428	1405	S09	W65	.907	10748	21.7	41	1F		C	1408	2.06	4.54		60	
MCHA	26	1350	1410D	1404	S18	W67	.925	10748	21.6	20D	-N		C	1404	.26	.60			
MCHA	26	1350	1410D	1353	S18	W67	.925	10748	21.6	20D	-N							DFG	
HUAN	26	1359	1410	1404	S09	W67	.921	10748	21.6	11	-F	1	C	1404	.25				
RAMY	26	1401	1410	1404U	S09	W67	.921	10748	21.6	9	-N		C		.21			D	
BOUL	26	1402E	1410D	1405	S08	W67	.921	10748	21.6	8D	-N		V					F	
ZURI	26	1405E	1427	1405	S08	W66	.914	10748	21.6	22D	1N		P	1405	.95				
GRP30219	26	1503	1544	1509	N22	W11	.435	10753	25.8	41	1N				2.05			6 6 4 8	
BOUL	26	1502	1555	1508	N22	W11	.435	10753	25.8	53	1N		V						
RAMY	26	1502	1623	1506	N21	W11	.420	10753	25.8	81	1N		C		2.06			UF	
ZURI	26	1503	1540	1511	N24	W09	.452	10753	26.0	37	1N		C	1511	2.52	2.80			
MCHA	26	1504	1535	1510	N22	W10	.428	10753	25.9	31	-N		C	1510	1.03	1.00			
CANR	26	1504	1545		N25	W06	.455	10753	26.2	41	-N	2	V			1.40			
CAPS	26	1507E	1525D		N17	W18	.432	10753	25.3	18D	1F	3	V	1511	2.58	2.80		150	





# SOLAR FLARES Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H <sub>0</sub>	MAX. INT. %		
1970 MAY																		
GRP30270	28	2135	2142	2137	S16	W38	.646	10759	26.0	7	--F						2 2 2 5	
RAMY	28	2135	2140	2137	S16	W38	.646	10759	26.0	5	-F	C					DE	
MCMA	28	2135	2143	2137	S16	W38	.646	10759	26.0	8	-N	C	2137	.31	.40		D	
272 VORO	28	2213	2224	2217	S09	W23	.410	10760	27.2	11	--B	C	2217	.84	.90		80 E 2	
GRP30273	28	2346	2359	2351	S09	E53	.802	10764	2.0	13	-N						2 2 1 3	
VORO	28	2346	2354	2348	S09	E54	.812	10764	2.0	8	-B	C	2348	.74	1.20		80 EJ	
BOUL	28	2354E	0004	2354	S09	E52	.792	10764	1.9	10D	-F	S						
GRP30275	29	0220	0242	0224	S07	W24	.417	10760	27.3	22	1N			2.90			3 3 3 3	
CULG	29	0216	0252	0224	S08	W24	.421	10760	27.3	36	2B	C	0224	5.78	6.16		HLR	
MANI	29	0218E	0244		S06	W24	.414	10760	27.3	26D	-N	2	0222	1.03	1.11			
CRON	29	0226	0229		S07	W23	.402	10760	27.4	3	1N	2	V	1.90				
GRP30277	29	0325	0359	0328	S07	W22	.386	10760	27.5	34	-F			.66			2 2 2 4	
TACH	29	0325	0359	0328	S07	W21	.371	10760	27.6	34	-N	C	0328	1.00	1.08		60 D	
MANI	29	0331E	0342D		S06	W22	.383	10760	27.5	11D	-F	2	0332	.31	.33			
7 STATIONS REPORTING GROUP 30279. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP30279	29	0603	0633	0609	S06	W28	.475	10760	27.2	30	1B			2.83			5 5 4 6	
CULG	29	0559	0639	0610	S07	W27	.463	10760	27.2	40	1B	C	0610	4.33	4.75		HL	
BUCA	29	0601	0644	0608	S06	W29	.490	10760	27.1	43	1B	C	0608	4.42	5.00			
ISTA	29	0602	0635	0605	S06	W27	.460	10760	27.2	33	1B							
CAPS	29	0605E	0623		S05	W28	.473	10760	27.2	18D	-N	V	0607	1.55	1.70		162 U	
KIEV	29	0609	0625	0613	S06	W28	.475	10760	27.2	16	-N	C	0613	1.03	1.10		65 DI	
30279	29	0612	0629	0620	S05	W28	.473	10760	27.2	17	*-B			3.25			2 2 2 8	
WEND	29	0612E	0628		S06	W27	.460	10760	27.2	16D	1N	V		5.16				
CATA	29	0615E	0630	0620	S03	W28	.470	10760	27.2	15D	-B		0620	1.33	1.51		380	
GRP30282	29	0836	0856	0840	S06	W28	.475	10760	27.3	20	-N			1.46			7 7 6 10	
WEND	29	0833	0900		S06	W28	.475	10760	27.3	27	1N			3.09			C	
MANI	29	0834E	0850D		S06	W29	.490	10760	27.2	16D	-N	2	0838	1.24	1.41			
ZURI	29	0835	0847	0838	S07	W29	.493	10760	27.2	12	-N	C	0838	.89	1.00			
HPR	29	0836	0848	0840	S08	W30	.510	10760	27.1	12	-F	C	0840	.52	.60		E	
CAPS	29	0837E	0849		S05	W28	.473	10760	27.3	12D	-F	V	0840	1.44	1.50		147	
MONT	29	0837E	0851	0840	S07	W30	.507	10760	27.1	14D	-N	C	0840	1.55				
HURB	29	0838	0924	0842	S06	W24	.414	10760	27.6	46	1F					1.87	EH	
GRP30284	29	1007	1037	1022	S06	W30	.505	10760	27.2	30	-N			1.73			5 5 4 7	
ZURI	29	1005	1025	1020	S07	W30	.507	10760	27.2	20	-N	C	1020	1.54	1.70			
MONT	29	1006	1046	1018	S05	W30	.503	10760	27.2	40	1B	C	1018	3.40				
HPR	29	1011	1037	1024	S08	W31	.525	10760	27.1	26	-N	C	1024	.83	.90		E	
CATA	29	1015E	1045	1025	S05	W30	.503	10760	27.2	30D	-B		1025	1.16	1.34		363	
HURB	29	1018E	1030D	1024	S06	W27	.460	10760	27.4	12D	1F					1.86		
GRP30286	29	1122	1142	1128	S05	W29	.488	10760	27.3	20	-B			1.89			8 8 6 8	
CAPF	29	1117E	1140D		S06	W29	.490	10760	27.3	23D	1N	P	1131	2.27	2.64			
CANR	29	1119	1141	1123	S07	W30	.507	10760	27.2	22	-B	3	V		.70			
MONT	29	1121	1144D	1128	S05	W31	.518	10760	27.1	23D	1B	C	1128	3.40				
ZURI	29	1121	1139	1132	S06	W28	.475	10760	27.4	18	-N	C	1132	1.26	1.40			
KIEV	29	1124	1140	1129	S06	W28	.475	10760	27.4	16	-F	C	1129	1.03	1.10		60 DHI	
HURB	29	1124	1142	1126	S05	W27	.458	10760	27.5	18	1B					3.85	H	
CATA	29	1125	1145	1130	S03	W30	.501	10760	27.2	20	-B		1130	1.51	1.74		616 H	
CAPS	29	1125E	1145D		S05	W29	.488	10760	27.3	20D	1B	V	1130	1.86	2.10		288 H	
30286	29	1141	1145	1143	S07	W26	.448	10760	27.5	4	*-N			2.06			2 2 1 9	
CANR	29	1140	1145		S07	W26	.448	10760	27.5	5	-N	2	V		.40			
MONT	29	1142	1144D	1143	S06	W25	.429	10760	27.6	2D	-N	C	1143	2.06				
GRP30287	29	1222	1249	1225	S07	W32	.537	10760	27.1	27	1B			2.27			10 10 6 11	
CATA	29	1220E	1255	1220	S05	W32	.533	10760	27.1	35D	1B		1220	2.15	2.56		589 H	
CANR	29	1221	1251	1223	S07	W32	.537	10760	27.1	30	-B	3	V		.60			
CAPS	29	1221E	1248D		S06	W32	.534	10760	27.1	27D	-B	P	1225	1.65	1.80		280 HU	
ONDR	29	1221	1249		S07	W30	.507	10760	27.3	28	1B	V	1225			3.60	CH	
HUAN	29	1222	1235D	1225	S06	W33	.549	10760	27.0	13D	-N	2	C	1225	.75	.90		E
MCMA	29	1223	1255	1226	S07	W32	.537	10760	27.1	32	1N	C	1226	1.80	2.10		FH	
ZURI	29	1223	1240	1224	S08	W31	.525	10760	27.2	17	1B	C	1224	2.73	3.20			
MONT	29	1223	1247D	1226	S06	W32	.534	10760	27.1	24D	1B	C	1226	4.54			H	
BOUL	29	1224	1231D	1227	S07	W32	.537	10760	27.1	7D	1N	V	1227		3.00			
HURB	29	1225E	1243D	1226	S07	W30	.507	10760	27.3	18D	1N					2.31	H	
GRP30288	29	1344	1357	1346	S06	W31	.520	10760	27.2	13	--N			.26			3 3 1 10	
MCMA	29	1344	1353	1345	S07	W32	.537	10760	27.2	9	-N	C	1345	.26	.30		E	
CANR	29	1344	1400		S06	W30	.505	10760	27.3	16	-N	2	V		.60			
BOUL	29	1345	1349D	1346	S06	W30	.505	10760	27.3	4D	-N	V						

# SOLAR FLARES

## Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %			
6 STATIONS REPORTING GROUP 30289.															2 STATIONS OBSERVING AND NOT REPORTING.					
GRP30289	29	1413	1436	1416	S07	W31	.522	10760	27.3	23	--N							4 4 2 8		
CANR	29	1411	1437		S07	W30	.507	10760	27.3	26	-N	2	V			.60				
MCMA	29	1412	1437	1416	S07	W30	.507	10760	27.3	25	-N									
CATA	29	1415	1435	1415	S05	W31	.518	10760	27.3	20	-B			1415	.58	.68		347		
CAPS	29	1416E	1436D		S09	W31	.528	10760	27.3	20D	-N		V	1417	.52	.60		180		
30289																				
MONT	29	1412	1449	1430	S06	W28	.475	10760	27.5	37	*-N					1.00		3 3 3 6		
MCMA	29	1412	1501	1430	S06	W27	.460	10760	27.6	49	-N		C	1430	2.06					
MCMA	29	1412	1437	1429	S07	W30	.507	10760	27.3	25	-N		C	1429	.62	.70		EV		
HUAN	29	1425E	1432D		S05	W27	.458	10760	27.6	7D	-F	1	C	1432	.31	.30		D		
GRP30290																				
MONT	29	1541	1559	1544	S06	W32	.534	10760	27.3	18	--N					.72		4 4 3 6		
MCMA	29	1538	1600D	1544	S05	W31	.518	10760	27.3	22D	-N		C	1544	1.13					
MCMA	29	1540	1600	1544	S07	W33	.551	10760	27.2	20	-N		C	1544	.41	.50		E		
CAPS	29	1542E	1559		S06	W33	.549	10760	27.2	17D	-N		V	1543	.62	.70		175		
CANR	29	1543	1558		S06	W31	.520	10760	27.3	15	-N	2	V			.60		C		
GRP30291																				
BOUL	29	1642	1659	1646	S08	W29	.496	10760	27.5	17	--N					.62		2 2 1 4		
MCMA	29	1641	1657	1644	S07	W28	.478	10760	27.6	16	-N		V							
MCMA	29	1643	1700D	1648	S09	W30	.514	10760	27.4	17D	-N		C	1648	.62	.70		E		
30291																				
CANR	29	1701	1712	1706	S07	W30	.507	10760	27.5	11	*-N					.52		3 3 1 4		
BOUL	29	1640	1711		S07	W30	.507	10760	27.4	31	-N	2	V			1.00				
BOUL	29	1700	1713	1706	S07	W28	.478	10760	27.6	13	-N		V							
MCMA	29	1702	1710D	1705	S08	W32	.539	10760	27.3	8D	-N		C	1705	.52	.60		E		
GRP30292																				
CANR	29	1711	1742	1720	S06	W32	.534	10760	27.3	31	-B					.52		4 4 1 4		
BOUL	29	1708	1743	1717	S06	W31	.520	10760	27.4	35	-B	2	V			1.60				
BOUL	29	1710	1736	1719	S05	W30	.503	10760	27.5	26	1B		V	1719		3.00				
MCMA	29	1712	1744	1721	S07	W32	.537	10760	27.3	32	-B		C	1721	.52	.60		E		
LOCK	29	1712	1745	1723	S05	W34	.562	10760	27.2	33	1N							L		
GRP30293																				
CANR	29	1830	1924	1910	S08	W29	.496	10760	27.6	54	--F					1.55		3 2 1 4		
MCMA	29	1830	1903		S07	W28	.478	10760	27.7	33	-N	2	V			1.80				
MCMA	29	1835E	1945D		S08	W30	.510	10760	27.5	70D	-F		C	1850	1.55	1.80		E		
LOCK	29	1900	1920	1910	S07	W20	.355	10760	28.3	20	-F							JL		
GRP30295																				
BOUL	29	2210	2237	2219	S07	W32	.537	10760	27.5	27	-N					1.86		4 4 2 6		
CULG	29	2146E	2205	2146	S05	W31	.518	10760	27.6	19D	-N		S							
CULG	29	2204	2241	2222	S07	W31	.522	10760	27.6	37	1N		C	2222	2.48	2.81		H		
LOCK	29	2211	2240	2220	S07	W35	.579	10760	27.3	29	-F							J		
MANI	29	2212E	2227		S06	W32	.534	10760	27.5	15D	-N	2		2216	1.24	1.50				
BOUL	29	2212	2229	2214	S07	W28	.478	10760	27.8	17	-N		V							
BOUL	29	2230	2238	2232	S07	W28	.478	10760	27.8	8	-N		V							
GRP30296																				
LOCK	29	2248	2307	2251	N18	W20	.460	10761	28.5	19	--F					.41		3 3 1 6		
BOUL	29	2245	2305	2250	N18	W21	.471	10761	28.4	20	-F									
BOUL	29	2247E	2256D	2252	N18	W19	.449	10761	28.5	9D	-F		V							
MANI	29	2253	2308		N19	W20	.471	10761	28.5	15	-F	2		2255	.41	.47				
GRP30298																				
MANI	29	2349	0008	2356	N18	W20	.460	10761	28.5	19	--N					.83		3 3 2 5		
MITK	29	2346	0005		N19	W20	.471	10761	28.5	19	-N	2		2350	.83	.91				
MITK	29	2347	0005	2352	N17	W20	.450	10761	28.5	18	-N		C	2352	.83	.90		E		
LOCK	29	2355	0015	0000	N18	W21	.471	10761	28.4	20	-F									
GRP30299																				
LOCK	29	2359	0031	0003	S05	W36	.590	10760	27.3	32	-B					1.65		4 4 3 5		
MANI	29	2358	0030	0005	S04	W37	.603	10760	27.2	32	1N									
MANI	29	2358	0031		S05	W36	.590	10760	27.3	33	-B	2		0000	1.55	1.92				
CULG	29	2359	0036	0002	S06	W36	.591	10760	27.3	37	1B		C	0002	2.37	2.88		RL		
MITK	30	0000	0025	0003	S05	W35	.576	10760	27.4	25	-B		C	0003	1.03	1.20		E		
GRP30300																				
CULG	30	0032	0103	0033	S09	W22	.396	10760	28.4	31	-N					2.33		2 2 2 5		
MANI	30	0027	0110	0033	S09	W22	.396	10760	28.4	43	1N		C	0033	3.82	4.25		TL		
MANI	30	0037	0055		S09	W22	.396	10760	28.4	18	-N	2		0041	.83	.90				
8 STATIONS REPORTING GROUP 30302.															0 STATIONS OBSERVING AND NOT REPORTING.					
GRP30302	30	0248	0513	0320	S08	W32	.540	10760	27.7	145	2N					4.94		3 3 3 5		
MITK	30	0226	0510	0320	S08	W30	.511	10760	27.9	164	2N		C	0320	6.19	7.10		FK		
TACH	30	0248	0516	0318	S09	W34	.571	10760	27.6	148	2N		C	0318	5.56	6.66	1.96	117		
KODA	30	0321E	0325D	0321	S08	W33	.554	10760	27.7	4D	1B		V	0322	3.07	3.10	2.00			
30302																				
CULG	30	0218	0455	0338	S08	W30	.511	10760	27.8	157	*2B					7.79		2 2 2 4		
MANI	30	0218	0605	0334	S08	W30	.511	10760	27.8	227	2B		P	0334	9.08	10.12		LR		
MANI	30	0246E	0246D		S09	W29	.500	10760	27.9		-B	2		0246	1.55	1.81				
MANI	30	0320E	0455	0342	S08	W30	.511	10760	27.9	95D	2B	2		0342	6.50	7.62				



SOLAR FLARES  
Confirmed  
MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
	1970 MAY																	
30302	30	0447	0550		S08	W34	.568	10760	27.6	63	*1B							
TEHR	30	0440E	0555D		S08	W32	.540	10760	27.8	750	2B					2 2 1 9		
CRON	30	0453	0545		S09	W33	.557	10760	27.7	52	1N	2	V			B		
TEHR	30	0506	0515D	0510	S05	W39	.631	10760	27.3	90	-F			3.60				
30302	30	0405	0421	0407	S08	W33	.554	10760	27.7	16	*2B			9.98				
KODA	30	0405E	0421	0407	S08	W33	.554	10760	27.7	160	2B	P		0409	9.98	10.00	1.72	2 1 1 6
ONDR	30	0424E	0507D		S10	W35	.587	10760	27.6	430	3F	V		0426		2.90		IKU C
GRP30303	30	0453	0516	0459	S05	W38	.618	10760	27.4	23	-B			1.01				4 4 3 9
TEHR	30	0452	0515D	0456	S05	W38	.618	10760	27.4	230	1B	P						E
MANI	30	0453E	0515		S04	W39	.630	10760	27.3	220	-N	2		0454	.62	.81		
MITK	30	0453	0513	0457	S05	W38	.618	10760	27.4	20	-B			0457	.62	.80		
ABST	30	0501E	0525D	0503	S03	W40	.643	10760	27.2	240	-N	C		0503	.90	1.20		
ABST	30	0501E	0520	0501	S06	W33	.549	10760	27.7	190	-N	P		0501	.90	1.10		
GRP30307	30	0600	0618	0601	S06	W35	.578	10760	27.6	18	--N			.65				3 3 2 9
TEHR	30	0555	0605D	0600	S06	W32	.535	10760	27.8	100	-N							
ABST	30	0600	0610	0602	S05	W36	.590	10760	27.5	10	-N			0602	.90	1.10		
CRON	30	0604	0625		S07	W38	.621	10760	27.4	21	-F	2	V		.40			
TEHR	30	0605E	0615D		S06	W32	.535	10760	27.9	100	-N							
TEHR	30	0605E	0620D		S08	W33	.554	10760	27.8	150	-F							
GRP30316	30	0854	0906	0857	S06	W37	.605	10760	27.6	12	--F			.40				3 3 1 8
TEHR	30	0851	0906D	0857	S06	W36	.592	10760	27.7	150	-F							
CANR	30	0853	0903		S06	W36	.592	10760	27.7	10	-N	3	V		.30			
CRON	30	0857	0909		S07	W38	.621	10760	27.5	12	-F	2	V		.40			
317 HTPR	30	1004	1016	1006	N08	E10	.231	10763	31.2	12	--F		C	1006	.41	.40		
320 LOCK	30	2205	2222	2214	N14	W08	.291	10763	30.3	17	--F							
GRP30321	30	2255	2331	2304	S17	W66	.919	10759	26.0	36	-N			1.34				4 3 2 4
CULG	30	2252	2328D	2305	S17	W65	.913	10759	26.1	360	1B	P		2305	1.75			
LOCK	30	2255	2345	2304	S16	W67	.925	10759	25.9	50	-N							
MANI	30	2258	2320	2303	S17	W65	.913	10759	26.1	22	-N	2		2303	.93	2.02		
BOUL	30	2324E	2347	2324	S14	W67	.924	10759	25.9	230	-N	S						
323 MANI	31	0050	0108	0054	S07	W48	.746	10760	27.4	18	--F	2		0054	.62	.92		
324 MITK	31	0202	0212	0206	N15	E33	.591	10767	2.6	10	--N		C	0206	.52	.60		
GRP30327	31	0235	0329	0252	S08	W47	.736	10760	27.6	54	1N			1.52				3 3 3 6
CULG	31	0235E	0342D	0248	S08	W48	.747	10760	27.5	67D	1N	P		0248	1.65	2.40		
TACH	31	0249E	0345		S07	W48	.746	10760	27.5	56D	1N	C		0249	2.09	3.16		
MITK	31	0251E	0301	0255	S09	W44	.702	10760	27.8	100	-N	C		0255	.83	1.10		
GRP30328	31	0235	0442	0334	N14	E74	.965	10770	5.7	127	1N			1.96				3 1 1 6
CULG	31	0235E	0442	0334	N14	E74	.965	10770	5.7	127D	1N	P		0334	1.96			
MANI	31	0248E	0249D		N11	E81	.989	10770	6.2	10	1F	2		0248	1.03	2.70		
TACH	31	0249E	0420		N13	E80	.986	10770	6.1	910	2F	C		0306	3.28		2.16	60
GRP30329	31	0300	0323	0307	S20	E24	.505	10764	1.9	23	-B			1.16				2 2 2 5
TACH	31	0259	0320D	0306	S19	E23	.484	10764	1.8	210	-B			1.19	1.36			
MITK	31	0300	0323	0307	S20	E25	.516	10764	2.0	23	-N	C		0307	1.13	1.30		
GRP30337	31	0621	0640	0625	N19	W38	.672	10761	28.4	19	--F			.52				2 2 1 5
TEHR	31	0620	0650D		N19	W35	.638	10761	28.6	30D	-F							
MITK	31	0621	0630	0625	N18	W40	.690	10761	28.3	9	-F			0625	.52	.70		
GRP30344	31	0905	0916	0910	S09	W49	.760	10760	27.7	11	-N			.78				4 4 2 5
TEHR	31	0857	0909D	0909	S07	W48	.746	10760	27.8	120	1B							
KHAR	31	0906E	0915		S08	W48	.747	10760	27.8	90	1F	V		0910		2.10		
MONT	31	0909	0918	0910	S09	W50	.771	10760	27.6	9	-N	C		0910	.52			
HTPR	31	0909	0914	0910	S10	W50	.772	10760	27.6	5	-N	C		0910	1.03	1.50		
GRP30345	31	1007	1013	1009	N09	W06	.199	10763	31.0	6	--N			.78				2 2 2 5
HTPR	31	1006	1013	1009	N08	W06	.185	10763	31.0	7	-N			1009	.83	.80		
LOCA	31	1007	1013	1009	N09	W05	.191	10763	31.0	6	-N	V		1009	.73	.70		
GRP30346	31	1030	1055	1034	S11	W47	.740	10760	27.9	25	--F			.43				2 2 2 4
LOCA	31	1025	1050	1030	S11	W46	.729	10760	28.0	25	-N			1030	.55	.80		
HTPR	31	1035	1059	1037	S10	W48	.750	10760	27.8	24	-F			1037	.31	.40		
GRP30347	31	1044	1051	1045	S16	W79	.982	10759	25.5	7	--F							2 2 0 4
KHAR	31	1043E	1050D		S17	W76	.972	10759	25.7	70	-F			1044		1.80		
RAMY	31	1044	1051	1045	S14	W82	.990	10759	25.3	7	-F							

# SOLAR FLARES

## Confirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
1970 MAY																		
GRP30348	31	1112	1138	1117	S05	W58	.849	10760	27.1	26	1N						5 5 5 6	
KHAR	31	1107	1153	1123	S05	W57	.839	10760	27.2	46	2N	P	1109	2.11	6.43	3.80	EHLO	
RAMY	31	1107	1135	1112	S05	W56	.830	10760	27.3	28	-F	C		.93			DE	
HTPR	31	1108	1135	1112	S07	W58	.849	10760	27.1	27	-N	C	1112	1.24	2.00			
HTPR	31	1108	1135	1123	S07	W58	.849	10760	27.1	27	-N	C						
ABST	31	1116E	1123D	1116	S05	W58	.849	10760	27.1	7D	-N	P	1116	1.35	2.60		E	
KIEV	31	1121	1127	1123	S05	W59	.858	10760	27.0	6	1N	C	1123	3.61			65 DI	
GRP30352	31	1357	1415	1401	S05	W59	.858	10760	27.2	18	--F			.48			3 3 3 7	
MCMA	31	1354E	1400D		S06	W58	.849	10760	27.2	6D	-N	P	1356	.52	1.10		BEL	
RAMY	31	1358	1414	1401	S05	W59	.858	10760	27.2	16	-F	C		.52			DE	
HTPR	31	1358	1415	1400	S05	W60	.866	10760	27.1	17	-F	C	1400	.41	.80		E	
GRP30354	31	1448	1507	1453	S05	W60	.866	10760	27.1	19	--F			.57			3 2 2 6	
HTPR	31	1446	1506	1453	S05	W60	.866	10760	27.1	20	-F	C	1453	.41	.80		E	
RAMY	31	1450	1508	1453	S05	W59	.858	10760	27.2	18	-F	C		.72			DE	
HUAN	31	1502E	1555	1508	S06	W59	.858	10760	27.2	53D	-F	2 P	1508	.31	.60		D	
GRP30355	31	1453	1505	1455	S05	E73	.956	10771	6.1	12	--F			.67			2 2 2 5	
RAMY	31	1452	1509	1455	S02	E75	.966	10771	6.2	17	-F	C		.62			DE	
HTPR	31	1454	1500	1455	S07	E70	.940	10771	5.9	6	-N	C	1455	.72				
GRP30356	31	1708	1725	1713	S04	W60	.866	10760	27.2	17	--F			.83			2 2 1 3	
LOCK	31	1707	1725	1713	S03	W60	.866	10760	27.2	18	-F						J	
RAMY	31	1708	1724	1713	S05	W60	.866	10760	27.2	16	-F	C		.83			DE	
GRP30358	31	1815	1830	1817	S05	W61	.875	10760	27.2	15	--F			.62			2 2 2 3	
RAMY	31	1813	1830	1817	S05	W60	.866	10760	27.3	17	-F	C		.72			DE	
HTPR	31	1817	1820D		S05	W62	.883	10760	27.1	3D	-F	C	1818	.52				
GRP30359	31	1819	1846	1823	S09	E13	.264	10764	1.7	27	--F			1.55			2 2 1 3	
RAMY	31	1819	1846	1823	S08	E13	.256	10764	1.7	27	-F	C		1.55			F	
LOCK	31	1819	1845	1823	S09	E12	.250	10764	1.7	26	1F							
360	RAMY	31	1833	1850	1836	S16	W80	.985	10759	25.8	17	--F	C				DE	2
361	LOCK	31	2053	2103	2055	N27	W90	1.000	10753	25.1	10	--F						2

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

### DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
700501	36.14	24.0	700511	44.82	24.0	700522	174.79	24.0
700502	2.75	23.9	700512	49.24	24.0	700523	37.52	24.0
700503	48.98	24.0	700513	89.08	24.0	700524	31.91	24.0
700504	320.51	24.0	700514	450.36	24.0	700525	32.37	24.0
700505	22.74	24.0	700515	382.78	24.0	700526	560.95	22.9
700506	27.48	24.0	700516	337.20	24.0	700527	51.68	22.7
700507	68.48	24.0	700517	106.66	24.0	700528	17.90	24.0
700508	211.50	24.0	700518	69.31	24.0	700529	197.53	24.0
700509	151.30	23.9	700519	122.12	24.0	700530	172.31	24.0
700510	17.59	24.0	700521	123.67	24.0	700531	66.28	24.0

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



# SOLAR FLARES

## Unconfirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H <sub>g</sub>	MAX. INT. %
701 CAPS	04	0918E	0925D		S12	E25	.439	10720	6.3	7D	-N	V	0920	.41	.50	160	C	8	
702 CANR	04	0952	1002		N15	E23	.494	10722	6.1	10	-F	3 V			.30			8	
703 BOUL	04	1442	1459	1444	N17	E63	.911	10725	9.3	17	-F	V						7	
706 BOUL	04	1653	1714	1700	N19	W62	.907	10708	30.1	21	-N	V						6	
707 BOUL	04	1708	1717	1709	N16	E20	.470	10722	6.2	9	-N	V						5	
708 BOUL	04	1727	1739	1730	N19	W61	.900	10708	30.2	12	-N	V						4	
709 BOUL	04	1734	1738	1736	N16	E62	.902	10725	9.4	4	-F	V						4	
710 BOUL	04	1745	1753	1747	N19	W61	.900	10708	30.2	8	-N	V						5	
712 BOUL	04	1819	1834	1821	S23	E06	.342	10717	5.2	15	-F	V						4	
715 BOUL	04	1909	1921	1910	S23	E06	.342	10717	5.2	12	-N	V						4	
716 RAMY	04	1917E	1921	1917U	N17	E60	.889	10725	9.3	4D	-F	C		.41				DE	4
717 LOCK	04	2054	2119	2106	S13	W21	.385	10709	3.3	25	-F							4	
719 LOCK	04	2250	0050	2329	S04	W27	.453	10709	2.9	120	1F							4	
720 LOCK	04	2335	2359	2343	N19	W24	.543	10714	3.2	24	-F							4	
721 BOUL	04	2338	2344D	2344	N32	W11	.607	10714	4.2	6D	-F	S						4	
GRP29724	05	1142	1201	1146	N19	W71	.958	10708	30.2	19	-F			.57				2 2 1 7	
RAMY	05	1138	1207	1146	N19	W70	.954	10708	30.2	29	-F	C		.57				F	
CANR	05	1146	1154		N19	W72	.963	10708	30.1	8	-F	2 V			1.00				
727 BOUL	05	1417	1427	1418	S09	W53	.797	10709	1.6	10	-F	V						12	
731 MCMA	05	1647	1702	1649	N18	W78	.984	10708	29.8	15	-N	C	1649					E	5
732 BOUL	05	1650	1658	1653	S10	W01	.110	10720	5.6	8	-F	V						5	
GRP29733	05	1713	1722	1715	N18	E58	.876	10725	10.1	9	-B			.17				2 2 1 6	
BOUL	05	1713	1725	1715	N18	E57	.868	10725	10.0	12	-N	V							
SANM	05	1713	1719	1714	N18	E58	.876	10725	10.1	6	-B	2 C		.17	.33			D	
GRP29734	05	1803	1811	1804	N15	E57	.861	10725	10.0	8	-F			.49				1 1 1 6	
SANM	05	1803	1811	1804	N13	E58	.866	10725	10.1	8	-F	2 C		.17	.33			D	
SANM	05	1804	1810	1804	N18	E57	.868	10725	10.0	6	-F	2 C		.32	.64			E	
738 MANI	05	2254	2310		N17	W78	.984	10708	30.1	16	-F	2	2255	.31	.72			3	
744 MANI	06	0605	0645D		S12	W02	.149	10720	6.1	40D	-F	2	0624	.83	.83			3	
1 STATIONS REPORTING GROUP 29745. 4 STATIONS OBSERVING AND NOT REPORTING.																			
745 ISTA	06	0640	0746	0658	N21	W90	1.000	10708	29.5	66	-F							5	
745 ISTA	06	0640	0746	0735	N21	W90	1.000	10708	29.5	66	*-F							5	
746 ISTA	06	0649	0723		S11	W68	.925	10709	1.2	34	-F							5	
748 ISTA	06	0825	0844		N17	E51	.813	10725	10.2	19	-F							7	
750 RAMY	06	1017E	1021		N15	E90	1.000	10731	13.2	4D	-N	V						DE	6
751 HUAN	06	1132E	1146D	1133U	N14	E48	.775	10725	10.1	14D	-F	2 C	1133	.17	.30			E	5
753 CANR	06	1327	1346		N12	E47	.758	10725	10.1	19	-N	2 V			.50			4	
760 MANI	06	2253	2332	2255	N13	E36	.635	10725	9.7	39	-N	2	2255	.21	.31			3	
762 MANI	07	0138	0147	0140	N12	E35	.617	10725	9.7	9	-F	2	0140	.83	1.05			3	
765 MANI	07	0434	0445	0438	N11	E33	.587	10725	9.7	11	-N	2	0438	.41	.52			6	
766 ISTA	07	0540	0546		N17	W90	1.000	10708	30.5	6	-N							8	
767 TEHR	07	0600	0610D		S08	W76	.969	10709	1.6	10D	-F							7	
768 TEHR	07	0625E	0632D		N14	W10	.345	10722	6.5	7D	-F							6	

# SOLAR FLARES

## Unconfirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE DISTANCE	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %		
769 TEHR	07	0657E	0725D	0706	S12	W52	.789	10709	3.4	28D	-F						H	6
770 TEHR	07	0724E	0800D		N13	E40	.682	10725	10.3	36D	-F							8
GRP29771	07	0926	0938	(0930)	N12	E38	.654	10725	10.2	12	-F			.52			2 2 1	6
CANR	07	0926	0936		N13	E37	.647	10725	10.2	10	-N	2	V		.60			
MANI	07	0929E	0940		N10	E38	.646	10725	10.2	11D	-F	2	V	0930	.52	.69		
772 CANR	07	1008	1016		N15	E28	.550	10725	9.5	8	-N	2	V		.30			4
774 CANR	07	1103	1110		S17	W21	.416	10720	5.9	7	-F	2	V		.80			4
779 SANM	07	1429E	1448D		N13	E35	.623	10725	10.2	19D	-F	2	P	1436	.32	.40		D 7
GRP29780	07	1510	1518	1514	S10	W71	.944	10709	2.3	8	-F						2 2 0	8
LOCK	07	1509	1519	1514	S08	W70	.938	10709	2.4	10	-F							
BOUL	07	1511	1517	1513	S12	W72	.949	10709	2.2	6	-N		V					
783 BOUL	07	1553	1601	1555	S20	W29	.540	10717	5.5	8	-F		V					5
795 CRON	08	0255	0321		N13	E27	.522	10725	10.1	26	-F	2	V		.50			4
797 CRON	08	0527	0545	0529	N14	E25	.505	10725	10.1	18	-N	2	V	0529	1.00			5
799 MANI	08	0814	0823	0817	S06	W90	1.000	10709	1.6	9	-N	2		0817	.41	1.31		9
800 CAPS	08	1013E	1020		N13	E22	.459	10725	10.1	7D	-F	2	V	1015	.52	.60	155	E 4
801 CAPS	08	1044E	1044D		N19	E18	.479	10725	9.8		-N	1	S					4
GRP29803	08	1511	1518	1512	N21	E89	1.000	10734	15.3	7	-N						2 2 0	5
BOUL	08	1510	1515	1512	N23	E90	1.000	10734	15.4	5	-N		V					
CANR	08	1511	1521		N18	E88	1.000	10734	15.2	10	-N	2	V		1.20			
804 SANM	08	1514	1532	1516	N18	E19	.477	10725	10.1	18	-F	2	C		1.13	1.26		E 5
811 SANM	08	1852	1917D		S12	W76	.969	10709	3.1	25D	-F	2	P	1855	.17			D 6
815 BOUL	08	2216	2227	2217	N12	E19	.413	10725	10.4	11	-F		V	2217		.50		4
816 CRON	08	2342	2356		N11	E28	.521	10725	11.1	14	-F	2	V		.70			4
817 MANI	09	0029	0043	0032	N12	E14	.354	10725	10.1	14	-N	3		0032	.52	.56		5
822 WEND	09	0552	0608		N13	E04	.289	10725	9.5	16	-N							9
824 MONT	09	0801	0809	0803	N17	W39	.689	10722	6.4	8	-N		C	0803	.10			12
GRP29826	09	0846	0910	0850	N18	E79	.987	10734	15.3	24	-F				1.20		2 2 1	12
CANR	09	0844	0920		N19	E78	.984	10734	15.2	36	-F	2	V		.80			
CRON	09	0847	0900	0850	N16	E80	.989	10734	15.4	13	1N	3	V	0850	1.20			
GRP29827	09	0848	0856		N19	E09	.407	10725	10.0	8	-F				.30		2 2 1	12
CRON	09	0848	0853		N17	E08	.372	10725	10.0	5	-F	3	V		.30			
CANR	09	0850	0858		N20	E09	.422	10725	10.0	8	-F	2	V		.50			
828 TEHR	09	0902E	0906D		N10	E03	.237	10725	9.6	4D	-F							H 13
829 TEHR	09	0906E	0916D		S13	W43	.689	10720	6.2	10D	-F							13
830 TEHR	09	0920E	0920D		N17	W38	.678	10722	6.5		-F							H 13
832 CAPS	09	1008	1020		N15	E22	.477	10725	11.1	12	-N	2	V	1009	.52	.50	165	11
GRP29834	09	1224	1252	1231	N18	E09	.393	10725	10.2	28	-F				1.32		2 2 2	7
RAMY	09	1224	1252	1231	N15	E08	.342	10725	10.1	28	-F		C		.57		DE	
CAPS	09	1235E	1245D		N20	E10	.428	10725	10.3	10D	1N	2	V	1239	2.06	2.20	170	
836 RAMY	09	1630	1644	1633	S21	E74	.961	10740	15.2	14	-F		C		.31			DE 7
841 CULG	10	0136	0150	0140	S15	W52	.794	10720	6.2	14	1N		C	0140	1.24	2.16		R 4
842 CAPE	10	0846	0852	0849	S09	W90	1.000	10709	3.6	6	-N		C	0849	.92			6
847 CRON	11	0145	0154	0148	N18	E57	.866	10734	15.3	9	-N	2	V	0148	.60			3
848 TACH	11	0448	0452	0450	N24	E90	1.000	10743	18.0	4	-N		C	0450	.55		63	AD 5
849 MANI	11	0602	0611	0604	N15	E88	1.000	10743	17.9	9	-F	2		0604	.41	1.28		6

# SOLAR FLARES

## Unconfirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MGMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %			
					LAT.	MER. DIST.														
851 ABST	11	1006E	1011D	1006	S10	E46	.721	10740	14.9	50	-F	P	1006	1.07	1.60		48	E	4	
854 BOUL	11	1333	1341	1338	N13	W26	.507	10725	9.6	8	-F	V							6	
855 BOUL	11	1337	1342	1338	N05	E55	.825	10741	15.7	5	-F	V							6	
858 BOUL	11	1513	1521	1514	S08	E44	.695	10740	14.9	8	-N	V							6	
859 BOUL	11	1557	1604	1558	N15	E80	.988	10743	17.7	7	-N	V							8	
861 BOUL	11	1739E	1825	1747	N18	E90	1.000	10743	18.5	46D	-N	V	1747		2.00				5	
865 LOCK	12	0040	0043D	0042	N15	E82	.993	10743	18.2	3D	-F								4	
866 CRON	12	0145	0155		N18	E87	.999	10743	18.6	10	-N	3 V		.30					5	
868 CRON	12	0326	0330		N15	W80	.988	10722	6.1	4	1F	3 V		.60					6	
871 TEHR	12	0655E	0703D		N14	W78	.982	10722	6.4	8D	-F								9	
872 CAPS	12	0702	0715		S57	E22	.836	10000	13.9	13	-N	V	0704	.31				172	DGH	9
875 ABST	12	0959	1010	1004	N20	E40	.713	10734	15.4	11	1F	C	1004	2.25	3.20				E	6
876 CANR	12	1204	1207		S16	E80	.983	10746	18.5	3	-N	3 V							3	
877 BOUL	12	1253	1259	1255	S15	E75	.965	10746	18.2	6	-F	V							4	
878 HUAN	12	1358E	1406	1403	N01	E28	.474	10740	14.7	8D	-F	1 C	1403	.14	.20				D	7
GRP29879	12	1501	1509	1501	N17	E77	.980	10743	18.4	8	-F								2 2 0	6
CANR	12	1500	1508		N17	E77	.980	10743	18.4	8	-F	1 V		.80						
BOUL	12	1501	1510	1501	N17	E76	.976	10743	18.3	9	-N	S								
GRP29880	12	1606	1622	1610	N16	E76	.976	10743	18.4	16	-N			.34					2 2 1	5
CATA	12	1605	1625	1610	N15	E75	.972	10743	18.3	20	-B		1610	.34				209		
BOUL	12	1607	1618	1609	N17	E76	.976	10743	18.4	11	-F	V								
889 CRON	13	0216	0222		N18	E30	.591	10734	15.3	6	-F	3 V		.40					4	
890 TEHR	13	0500E	0535D		N14	W46	.750	10725	9.8	35D	-F								5	
891 TEHR	13	0520E	0535D		S17	E68	.928	10746	18.3	15D	-F								5	
892 MANI	13	0542	0601	0544	S26	W57	.859	10727	9.0	19	-N	2	0544	.52	.88				4	
893 TEHR	13	0600	0610D		N19	E79	.987	10743	19.2	10D	-F								6	
895 TEHR	13	0615E	0627D		N19	E79	.987	10743	19.2	12D	-F								5	
896 TEHR	13	0640E	0652D		S11	E54	.810	10744	17.3	12D	-F								Z	7
897 TEHR	13	0650E	0658D		N17	E71	.955	10743	18.6	8D	-F								7	
898 TEHR	13	0735	0800D	0745	S10	E18	.329	10740	14.7	25D	-F								6	
899 TEHR	13	0828	0831D		S08	E21	.367	10740	14.9	3D	-F								E	7
900 CAPS	13	0950E	1007D		S08	E35	.576	10741	16.0	17D	2F	1 S	0950	6.81	8.80			160	BK	4
909 CANR	13	1506	1517		S09	E19	.339	10740	15.1	11	-N	3 V		.20					7	
911 BOUL	13	1742	1748	1744	S06	E17	.296	10740	15.0	6	-N	V	1744		.30				4	
913 MITK	14	0026	0038	0031	S13	E45	.715	10744	17.4	12	-F	C	0031	1.13	1.60				E	6
915 ABST	14	0504	0545	0514	S07	E06	.127	10740	14.7	41	1F	P	0514	2.25	2.30				E	7
918 ABST	14	0541E	0554D	0541	N20	E15	.456	10734	15.4	13D	-F	P	0541	1.35	1.50				E	6
GRP29919	14	0821	0840		S09	E30	.507	10741	16.6	19	-F			1.95					2 2 2	9
CRON	14	0821	0835		S07	E29	.488	10741	16.5	14	-F	3 V		.80						
WEND	14	0826	0844		S10	E30	.510	10741	16.6	18	1F	V		3.09						
GRP29923	14	1353	1452	1409	N23	W63	.917	10725	9.9	59	1F			3.40					2 2 1	7
MONT	14	1353	1450	1412	N29	W61	.917	10725	10.0	57	1N	C	1412	3.40					H	
MONT	14	1404	1454	1431	N18	W62	.902	10725	9.9	50	-F	C	1431	1.55						
BOUL	14	1406E	1440D	1406	N23	W64	.923	10725	9.8	34D	1F	S								

# SOLAR FLARES Unconfirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg.	MAX. INT. %	
	1970 MAY																	
924 LOCK	14	1436E	1530	1436	N19	E46	.768	10743	18.1	540	-F							8
930 MITK	15	0238	0246	0239	N17	E46	.760	10743	18.6	8	-F	C	0239	.72	1.10			5
932 CRON	15	0505	0544		S08	W12	.226	10740	14.3	39	-N	3 V		1.40				6
GRP29933	15	0608	0633	(0610)	S08	W14	.257	10740	14.2	25	-F			.66				2 2 1 8
BUCA	15	0605	0635		S08	W14	.257	10740	14.2	30	-F	C	0610	.66	.60			D
ISTA	15	0611	0630		S08	W14	.257	10740	14.2	19	-N							
938 BOUL	15	1313	1342	1320	N14	E90	1.000	10750	22.3	29	1F	V						5
939 BOUL	15	1340	1346	1342	S07	W01	.077	10740	15.5	6	-F	V						7
GRP29940	15	1420	1425	1423	N20	W78	.984	10725	9.7	5	-F							1 1 0 6
BOUL	15	1420	1425	1423	N23	W77	.982	10725	9.8	5	-F	V						
BOUL	15	1421	1425	1423	N18	W80	.989	10725	9.6	4	-F	V						
941 BOUL	15	1421	1429	1425	S10	E22	.391	10744	17.2	8	-F	V						6
943 BOUL	15	1557	1603	1600	N21	E39	.706	10743	18.6	6	-F	V						7
944 BOUL	15	1621	1635	1627	N19	E90	1.000	10750	22.4	14	-F	V						8
950 BOUL	15	2220	2320	2232	N13	E88	1.000	10750	22.5	60	1F	V	2232		4.50			4
GRP29952	15	2359	0012	0002	S08	W24	.414	10740	14.2	13	-F			.62				2 2 1 6
MANI	15	2357	0012	0000	S09	W23	.402	10740	14.3	15	-N	1	0000	.62	.66			
BOUL	16	0001	0011	0003	S07	W24	.412	10740	14.2	10	-F	S	0003		1.20			
953 LOCK	16	0120	0135	0125	S08	W22	.384	10740	14.4	15	-F							4
956 MANI	16	0537	05420	0540	S09	W24	.418	10740	14.4	50	-N	2	0540	.62	.68			4
GRP29963	16	1553	1608	1555	N17	E23	.500	10743	18.4	15	-N			.69				2 2 1 8
LOCK	16	1550	1605	1555	N15	E20	.446	10743	18.2	15	-F							
CATA	16	1555	1610	1555	N18	E25	.531	10743	18.5	15	-B		1555	.69	.83		269	
GRP29968	16	2108	2123	2115	S11	W24	.427	10740	15.1	15	-F			.52				2 2 1 5
BOUL	16	2059	21250	2103	S18	W25	.484	10740	15.0	260	-F	V	2103		1.00			
BOUL	16	2105	2129	2116	S08	W26	.445	10740	14.9	24	-N	V	2116		1.00			
RAMY	16	2111	2120	2114	S08	W23	.399	10740	15.2	9	-F	V		.52				DE
970 MANI	17	0031	0051	0034	S22	E12	.387	10746	17.9	20	-N	2	0034	.41	.42			6
971 MANI	17	0325E	03300		S05	W35	.574	10740	14.5	50	-N	2	0327	.52	.67			4
973 MANI	17	0419E	0428		S11	E30	.514	10747	19.4	90	-N	2	0421	.26	.30			6
974 ABST	17	0520	0545	0524	S09	E31	.523	10747	19.5	25	-N	C	0524	.90	1.10			EK 5
975 ABST	17	0536	0600	0542	N20	E13	.436	10743	18.2	24	-F	P	0542	.90	1.00			DK 7
976 ABST	17	0600	0625	0603	S10	E30	.511	10747	19.5	25	-N	C	0603	.90	1.05			E 7
977 CRON	17	0606	0621		S17	E67	.923	10748	22.3	15	-F	3 V		.20				6
GRP29978	17	0620	0642	0626	N15	E75	.971	10750	22.9	22	1F			1.04				2 2 2 10
CULG	17	0620	06480	0626	N17	E75	.972	10750	22.9	280	1N	P	0626	.83				R
MANI	17	0620	0636	0625	N13	E75	.970	10750	22.9	16	1F	2	0625	1.24	3.00			
979 ISTA	17	0620	0700		S07	W36	.590	10740	14.6	40	-N							10
980 TEHR	17	0640E	07100		S05	E38	.616	10747	20.1	300	-F							11
981 ISTA	17	0645	0700		S05	W40	.643	10740	14.3	15	-N							11
982 TEHR	17	0700E	07150		S07	E33	.547	10747	19.8	150	-F							10
983 TEHR	17	0725E	07400	0730	N20	W12	.428	10734	16.4	150	-F							11
984 TEHR	17	0739	07430		S09	E36	.593	10747	20.0	40	-F	P						11
986 TEHR	17	0759	08200		S09	W29	.493	10740	15.2	210	-F							9
987 TEHR	17	0850	09050	0900	S09	W29	.493	10740	15.2	150	1F	P						E 8
988 TEHR	17	0900E	09150	0905	N17	W16	.424	10743	16.2	150	1N							E 7

# SOLAR FLARES Unconfirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %		
1970 MAY																			
990 TEHR	17	0917E	0917D		N17	W11	.379	10743	16.6		-N							Z	9
992 RAMY	17	1106E	1125		S06	E32	.531	10747	19.9	190	-N	V						DE	4
995 CANR	17	1350	1355	1351	S09	W37	.607	10740	14.8	5	-F	2 V		.40					5
997 CANR	17	1435	1450		S09	W39	.634	10740	14.7	15	-N	2 V		.40					5
998 RAMY	17	1521	1533	1523	N17	E66	.927	10750	22.6	12	-N	V		.31				DE	8
000 HUAN	17	1836E	1906D	1840	S08	W60	.866	10740	13.3	300	1B	2 C	1840	1.75	3.30			D	5
002 MANI	17	2313E	2322		N12	E60	.877	10750	22.5	90	-N	2	2314	.41	.77				5
004 CRON	18	0306	0334	0306	S08	W48	.744	10740	14.5	28	-F	4 V	0306	.60					3
005 TEHR	18	0530E	0538D		N19	W39	.693	10734	15.3	80	-F								8
006 TEHR	18	0540	0555D		N19	W39	.693	10734	15.3	150	-F								9
007 ABST	18	0542	0600	0551	S14	W46	.730	10740	14.8	18	-F	C	0551	.90	1.30		50	D	10
GRP30008	18	0625	0645		S08	W50	.767	10740	14.5	20	-F							2	2
ISTA	18	0625	0645		S09	W53	.800	10740	14.3	20	-N							0	11
TEHR	18	0645E	0645D		S06	W47	.731	10740	14.8		-F								
009 ABST	18	0832	0845	0838	N18	E02	.349	10743	18.5	13	-F	C	0838	.90	.95		48	D	10
012 CATA	18	1625E	1635D	1630	S16	W51	.788	10740	14.9	100	-B		1630	.69	1.16		351		7
GRP30013	18	1709	1731	1711	S09	W54	.810	10740	14.7	22	-N			.93				2	2
RAMY	18	1708	1726	1711	S06	W53	.798	10740	14.7	18	-N	V		.93				DE	1
CANR	18	1709	1735		S08	W57	.839	10740	14.4	26	-N	2 V		.70					6
CANR	18	1710	1740		S15	W52	.796	10740	14.8	30	-N	2 V		.50					
015 BOUL	18	1850E	1900D		N16	W14	.390	10743	17.7	100	-F	S							6
016 RAMY	18	2020E	2030	2020U	N18	E47	.772	10750	22.4	100	-F	V		.31				DE	4
022 MANI	19	0049	0103	0052	S13	W57	.842	10740	14.8	14	-N	3	0052	.41	.83				6
028 CRON	19	0517	0527		N18	W09	.376	10743	18.5	10	-F	3 V		.40					6
030 TEHR	19	0715	0715D		S16	W58	.854	10740	15.0		1N								10
032 TEHR	19	0735	0735D		N17	E77	.979	10753	25.1		-N								12
033 TEHR	19	0740	0749D		N14	E44	.726	10750	22.6	90	-F								12
035 CAPS	19	0752E	0759		N16	E80	.988	10753	25.3	70	-N	V	0755	.21					11
GRP30036	19	0837	0840	0838	S10	W61	.875	10740	14.8	3	-F			.52				2	2
TEHR	19	0836	0840D		S12	W60	.868	10740	14.9	40	-F							1	12
MONT	19	0837	0840	0838	S07	W62	.882	10740	14.7	3	-N	C	0838	.52					
GRP30037	19	0846	0849	0847	S09	W63	.891	10740	14.6	3	-F			.52				2	2
TEHR	19	0845	0847D		S10	W63	.891	10740	14.6	20	-F							1	10
MONT	19	0846	0849	0847	S07	W62	.882	10740	14.7	3	-N	C	0847	.52					
038 CAPS	19	0851E	0910D		N25	E90	1.000	10753	26.1	190	-N	V						C	10
039 CAPS	19	0913E	0918		N16	E80	.988	10753	25.4	50	-N	V	0915	.21					9
040 MONT	19	0922	0938	0925	S15	W60	.870	10740	14.9	16	-N	C	0925	1.13					9
041 CATA	19	1020	1025	1020	S16	W58	.854	10740	15.1	5	-N		1020	.58	1.12		162		10
GRP30042	19	1022	1035	1022	N14	E76	.974	10753	25.1	13	-N							2	2
HURB	19	1022E	1038D	1022	N13	E72	.956	10753	24.8	160	1N					2.10		0	10
CANR	19	1025	1032		N15	E80	.988	10753	25.4	7	-N	2 V		.50					
GRP30045	19	1205	1210	(1207)	N17	W18	.441	10743	18.2	5	-F			.41				2	2
CAPS	19	1205	1209		N15	W16	.397	10743	18.3	4	-F	V	1207	.41	.50		158	E	1
CANR	19	1205	1210		N19	W19	.474	10743	18.1	5	-N	3 V		.30					8
046 RAMY	19	1249	1302	1252U	N17	W15	.411	10743	18.4	13	-F	C		.52				F	9
048 BOUL	19	1329	1340	1335	S15	W64	.901	10740	14.8	11	-F	V							11



# SOLAR FLARES Unconfirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg.	MAX. INT. %		
	1970 MAY																		
053 RAMY	19	2100	2121	2100E	N18	W16	.433	10743	18.7	21	-F	C		.41				F	4
054 LOCK	19	2107	2130	2115	N12	E38	.647	10750	22.7	23	-F								5
055 RAMY	19	2108	2131	2112	S12	W36	.602	10744	17.2	23	-F	C		.72				F	5
056 CRON	20	0424	0427	0424	S11	W42	.677	10744	17.0	3	-N	3 V	0424	.20					5
057 CRON	20	0527	0556		N20	E77	.980	10753	26.0	29	-F	V		.40					4
058 ISTA	20	0705	0754		N15	E67	.930	10753	25.3	49	-N								5
059 HTPR	20	1053	1112	1105	N15	E68	.936	10753	25.6	19	-F	C	1105	.31					7
064 MCMA	20	2114	2125	2116	N18	W44	.740	10743	17.6	11	-N	C	2116	.36	.50			EH	4
067 CRON	21	0140	0145	0141	S13	W55	.824	10744	16.9	5	-F	2 V	0141	.20					3
068 CRON	21	0322	0333		N16	W47	.764	10743	17.6	11	-N	3 V		.50					4
071 CRON	21	0723	0735		N18	E88	1.000	10761	27.9	12	-N	3 V		.30					5
073 CATA	21	0825	0830	0825	N18	W38	.675	10743	18.5	5	-B		0825	.29	.40		219		10
074 MONT	21	0852	0904	0858	S11	W56	.832	10744	17.2	12	-N	C	0858	2.06					9
075 MONT	21	0907	0919	0911	S11	W56	.832	10744	17.2	12	-N	C	0911	1.55					9
GRP30078	21	1021	1049	(1035)	N15	E18	.417	10750	22.8	28	-F			1.96				2 2 1	10
CANR	21	1021	1053		N15	E17	.405	10750	22.7	32	-N	3 V			.50				
CAPS	21	1035E	1044		N15	E18	.417	10750	22.8	90	-F	V	1035	1.96	2.00		142		
079 MONT	21	1046	1101	1055	S05	W90	1.000	10740	14.7	15	-N	C	1055	.77					10
080 RAMY	21	1157	1216	1201	N13	W42	.698	10743	18.3	19	-F	C		.26				DE	11
GRP30081	21	1210	1225	1211	S10	E06	.173	10748	22.0	15	-N			.31				2 2 1	12
RAMY	21	1208	1226	1211	S10	E05	.164	10748	21.9	18	-N	C		.31				DE	
CANR	21	1212	1223		S09	E06	.160	10748	22.0	11	-N	2 V			.30				
082 SANM	21	1509	1518	1513	N16	E50	.794	10753	25.4	9	-F	1 C		.48	.52			E	11
083 BOUL	21	1522E	1529	1522	N23	W54	.850	10743	17.6	70	-F	V							11
084 BOUL	21	1536	1554	1547	N20	E87	.999	10761	28.2	18	-N	V							12
086 CRON	21	2346	0004		S11	W19	.357	10747	20.6	18	-F	2 V		.70					7
091 CULG	22	0151	0214	0154	N14	W51	.798	10743	18.3	23	1N	C	0154	1.65	2.56				5
GRP30092	22	0453	0518	0453	N15	E08	.320	10750	22.8	25	-F			1.47				2 2 2	5
ABST	22	0453E	0515	0453	N14	E08	.305	10750	22.8	220	-F	P	0453	1.43	1.60			EK	
CRON	22	0453	0521		N15	E08	.320	10750	22.8	28	-N	3 V		1.50					
095 MANI	22	0906	09350		N17	W60	.884	10743	17.9	290	-N	2	0909	.31	.60				5
098 BOUL	22	1357E	1401	1358	N20	W58	.874	10743	18.2	40	-N	V							7
099 BOUL	22	1429	1445	1434	N16	W62	.897	10743	18.0	16	-N	V							7
100 BOUL	22	1454	1459	1456	N17	W60	.884	10743	18.1	5	-N	V							9
101 BOUL	22	1504	1519	1509	N16	W62	.897	10743	18.0	15	-N	V							9
GRP30104	22	1612	1626	1615	N14	E01	.274	10750	22.8	14	-F			.72				2 2 1	6
RAMY	22	1612	1628	1616	N13	E00	.257	10750	22.7	16	-F	C		.72				F	
BOUL	22	1612	1624	1614	N14	E01	.274	10750	22.8	12	-N	V							
105 RAMY	22	1658	1715		N14	W65	.916	10743	17.8	17	-F	C						DE	4
108 LOCK	22	2106	2120	2110	N18	W66	.926	10743	17.9	14	-F							I	4
109 MANI	22	2157E	2212		N17	W63	.906	10743	18.2	150	-N	2	2201	.41	.84				4
112 MANI	23	0139	0148		N17	W67	.931	10743	18.0	9	-F	2	0143	.31	.63				4
113 CRON	23	0149	0220		N15	W06	.305	10750	22.6	31	-N	3 V		.30					3
114 CRON	23	0222	0225		S06	E70	.939	10760	28.3	3	-F	3 V		.30					4

# SOLAR FLARES Unconfirmed

MAY 1970

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 Hα	MAX. INT. %		
					LAT.	MER. DIST.													
	1970																		
	MAY																		
115 CROM	23	0224	0230		N18	W68	.938	10743	18.0	6	-F	3	V		.90				4
116 MANI	23	0248	0259	0252	N17	W68	.937	10743	18.0	11	-N	2		0252	.41	.84			6
121 CROM	23	0515	0540		N17	W09	.354	10750	22.5	25	-N	3	V		.60				5
122 CROM	23	0550	0558		S09	E70	.940	10760	28.5	8	-F	3	V		.60				3
123 CROM	23	0553	0558		S17	E40	.671	10759	26.2	5	-F	3	V		.40				3
127 TEHR	23	0803	0810D		S09	W20	.361	10748	21.8	7D	-N								10
128 TEHR	23	0814	0817D		S11	W47	.738	10747	19.8	3D	-F								8
129 TEHR	23	0821	0827D		N17	W72	.958	10743	17.9	6D	-F								7
130 TEHR	23	0830E	0845D	0831	N16	E25	.506	10753	25.2	15D	1F								E 7
131 TEHR	23	0857	0907D		N17	W72	.958	10743	18.0	10D	-F								H 9
132 TEHR	23	0903	0907D	0905	S15	E33	.576	10759	25.9	4D	-F								9
133 TEHR	23	0910	0917D		S11	W46	.726	10747	19.9	7D	-F								E 9
134 CATA	23	1030	1040	1030	N12	W05	.253	10750	23.1	10	-B			1030	.69	.72		232	5
GRP30137	23	1146	1158	1147	S10	W52	.791	10747	19.6	12	-F				.72				2 2 1 7
RAMY	23	1145	1158	1147	S10	W52	.791	10747	19.6	13	-F		C		.72				DE
CANR	23	1147	1147D		S10	W52	.791	10747	19.6		-F	3	V			1.20			
138 BOUL	23	1319	1327	1321	S05	E52	.788	10760	27.5	8	-F		V						9
GRP30139	23	1328	1412	1346	S12	W68	.928	10746	18.5	44	1F				2.68				2 2 1 7
BOUL	23	1328	1405	1346	S12	W67	.921	10746	18.5	37	2F		V						
RAMY	23	1333E	1418D	1346	S12	W68	.928	10746	18.5	45D	1F		C		2.68				F
140 BOUL	23	1333	1340	1334	S05	E52	.788	10760	27.5	7	-F		V						8
GRP30143	23	1545	1552	1545	N11	W38	.641	10757	20.8	7	-N								2 1 0 8
RAMY	23	1543	1556	1545	N16	W36	.639	10757	21.0	13	-F		C		.62				DE
BOUL	23	1545E	1552	1545	N11	W38	.641	10757	20.8	7D	-N		V						
146 RAMY	23	1656	1713	1658	S12	E30	.522	10759	26.0	17	-F		C		.52				DE 7
147 RAMY	23	1709	1721	1712	N17	W80	.988	10743	17.7	12	-F		C						DE 6
151 MANI	23	2302	2314	2306	N21	W80	.989	10743	18.0	12	-N	2		2306	.31	.81			5
152 CROM	24	0050	0100		N13	W81	.989	10743	18.0	10	-N	2	V		.30				3
153 CROM	24	0440	0450		N17	W82	.992	10743	18.0	10	-N	3	V		.30				3
155 TEHR	24	0716	0716D		N13	E12	.324	10753	25.2		-F								11
156 TEHR	24	0722	0730D		N13	W19	.405	10750	22.9	8D	-N								H 11
157 TEHR	24	0725E	0737D		S08	W31	.523	10748	22.0	12D	-N								10
158 TEHR	24	0727	0738D	0729	S15	E23	.444	10759	26.0	11D	-F								10
159 TEHR	24	0901	0904D	0904	S15	E23	.444	10759	26.1	3D	1N								H 11
161 CANR	24	0925	0925D		N16	E90	1.000	10763	31.1		-N	3	V			.80			8
GRP30162	24	1148	1213		N15	E12	.349	10753	25.4	25	-F				.83				2 2 1 8
RAMY	24	1148E	1213		N15	E12	.349	10753	25.4	25D	-F		C		.83				DE
CANR	24	1152	1200		N15	E12	.349	10753	25.4	8	-N	3	V						
163 HUAN	24	1202	1210	1205	S11	W70	.940	10747	19.3	8	-F	2	C	1205	.25				D 8
GRP30165	24	1453	1530	1455	N18	W89	1.000	10743	17.9	37	-F								2 2 0 10
RAMY	24	1452	1501		N18	W90	1.000	10743	17.9	9	-F		C						
CANR	24	1454	1600	1455	N17	W88	1.000	10743	18.0	66	-N	3	V			.40			F
CANR	24	1553	1559		N17	W88	1.000	10743	18.1	6	-N	2	V			.30			
166 BOUL	24	1456	1508	1457	S08	W37	.607	10748	21.8	12	-F		V						10
168 SANM	24	1632	1640	1636	N21	E43	.740	10761	27.9	8	-N	2	C		.48	.71			E 10

# SOLAR FLARES Unconfirmed

MAY 1970

OBSERVATORY	OBSERVED UT			MAX. PHASE	LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS								
	DATE	START	END		APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %									
1970 MAY																										
2 STATIONS REPORTING GROUP 30169.					6 STATIONS OBSERVING					AND NOT REPORTING.																
169 SANM	24	1726E	1731		S22	W32	.604	10751	22.3	5D	-N	2	P	1726	.80	1.01		CDG	8							
169 RAMY	24	1727E	1727D	1727U	S18	W16	.385	10751	23.5		*-N		C		.52			DE	8							
170 SANM	24	1807	1815	1809	N21	E42	.730	10761	27.9	8	-N	2	C		.65	.93		E	6							
173 MANI	25	0041	0056		S08	W76	.970	10747	19.3	15	-F	2		0048	.31	.78			3							
177 TEHR	25	0505E	0530D		S06	E35	.576	10760	27.8	25D	-F								7							
GRP30178	25	0520	0551		S08	W78	.978	10747	19.4	31	-F				3.09			2	2	1	9					
WEND	25	0520E	0549D		S08	W79	.981	10747	19.3	29D	1N		V		3.09											
TEHR	25	0544	0553D		S08	W77	.974	10747	19.5	9D	-F															
179 TEHR	25	0520E	0528D		S08	W47	.734	10748	21.7	8D	-F								9							
180 TEHR	25	0640E	0647D		N18	W35	.637	10750	22.7	7D	-F								12							
182 TEHR	25	0855	0905D	0857	N18	W35	.637	10750	22.7	10D	-N								10							
187 RAMY	25	1641	1700	1645	N11	E72	.955	10763	31.1	19	-F		C		.31			DE	4							
189 RAMY	25	1956	2007	1959	S08	W88	.999	10747	19.2	11	-N		C					DE	3							
192 RAMY	25	2118	2136	2119D	S07	E27	.461	10760	27.9	18	-F		C		.72			F	4							
194 CRON	26	0151	0202		S13	W02	.204	10759	25.9	11	-N		V		.30				4							
199 TEHR	26	0558	0606D	0602	S06	E24	.413	10760	28.0	8D	-F								8							
201 ISTA	26	0619	0627		S09	E90	1.000	10764	2.0	8	-F								9							
GRP30202	26	0640	0723		S08	W62	.884	10748	21.6	43	-F							2	2	0	7					
TEHR	26	0640E	0705D		S08	W60	.867	10748	21.8	25D	-F															
ISTA	26	0642	0740		S08	W63	.892	10748	21.6	58	-N															
GRP30203	26	0700	0715	0711	N10	E63	.897	10763	31.0	15	-F				.26			2	2	1	7					
MANI	26	0700	0715D		N08	E65	.910	10763	31.2	15D	-N	2		0710	.26	.52										
TEHR	26	0710E	0713D	0711	N11	E61	.882	10763	30.9	3D	-F		P													
204 ISTA	26	0711	0725		S07	E24	.416	10760	28.1	14	-F								8							
205 TEHR	26	0813E	0925D	0855	S08	W60	.867	10748	21.8	72D	-F								5							
206 TEHR	26	0813E	0856D	0856	S07	E23	.400	10760	28.1	43D	2N								5							
208 TEHR	26	0819E	0840D		N15	W47	.758	10750	22.8	21D	-F							H	6							
211 RAMY	26	1008E	1030		S05	E17	.298	10760	27.7	22D	-N		C					F	4							
214 LVOV	26	1154	1305	1212	S16	W10	.302	10759	25.7	71	1N		C	1216	2.17	2.25		67	EK	9						
216 ZURI	26	1411	1429	1419	S14	W08	.257	10759	26.0	18	-F		C	1419	.95	1.00			8							
217 LVOV	26	1414	1449	1432	S08	E16	.296	10760	27.8	35	1N		C	1438	3.61	3.76		70	EHK	8						
218 ZURI	26	1439	1502	1500	S14	W08	.257	10759	26.0	23	-F		C	1500	.95	1.00			9							
222 CANR	26	1553	1603	1555	S10	E79	.981	10764	1.6	10	-N	3	V			.50			7							
223 HUAN	26	1558	1614	1608	S15	W10	.289	10759	25.9	16	-F	2	C	1608	.14	.20		D	7							
224 HUAN	26	1600	1630	1609	S11	W68	.928	10748	21.6	30	-F	2	C	1609	.14			D	7							
225 MCMA	26	1603	1616	1608	S08	E15	.281	10760	27.8	13	-F		C	1608	.72	.80		E	7							
227 HUAN	26	1639	1655	1647	S11	W68	.928	10748	21.6	16	-F	2	C	1647	.25			D	5							
GRP30229	26	1655	1702	1656	S10	E79	.981	10764	1.6	7	-F							2	2	0	6					
CANR	26	1654	1701	1656	S10	E78	.978	10764	1.6	7	-F	2	V			.40										
RAMY	26	1656	1703		S09	E80	.985	10764	1.7	7	-N		C					F								
239 BOUL	26	2347	2350	2348	S07	E11	.213	10760	27.8	3	-N		V						4							
240 BOUL	26	2356E	0005	2359	S07	E11	.213	10760	27.8	9D	-F		V						4							
241 CRON	27	0040	0041		S06	E13	.239	10760	28.0	1	-N	3	V		1.50				5							

SOLAR FLARES  
Unconfirmed  
MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
243 MANI	1970 MAY 27	0303	0315		N08	E45	.717	10763	30.5	12	-F	2	0306	.93	1.34			5
244 MANI	27	0410	0420		N19	W25	.528	10753	25.3	10	-F	2	0411	.41	.49			3
247 TEHR	27	0705E	0705D		N16	E81	.990	10767	2.4		-F							5
GRP30248 TEHR ISTA	27	0745	0805	0753	S07	E08	.170	10760	27.9	20	1F							2 2 0 8
	27	0740	0753D	0753	S07	E06	.144	10760	27.8	13D	2N							E
	27	0750	0805		S07	E10	.199	10760	28.1	15	-F							
249 TEHR	27	0840E	0853D		S16	E82	.990	10764	2.5	13D	-B							4
250 TEHR	27	0843E	0922D		S13	W24	.446	10759	25.6	39D	1N							5
251 MONT	27	1036	1047	1040	N17	W69	.942	10750	22.3	11	-N	C	1040	.10				5
252 RAMY	27	1121	1137	1124	N14	W30	.551	10753	25.2	16	-F	C		.62				DE 7
260 ISTA	28	0620	0642	0635	S14	W34	.588	10759	25.7	22	-F							7
262 MEUD	28	1247	1255	1250	N25	W35	.680	10753	25.9	8	-F	C	1250	.41	.50			E 9
263 MEUD	28	1251	1254	1251	S07	W10	.200	10760	27.8	3	-F	C	1251	.52	.50			E 8
GRP30266 MEUD BOUL	28	1354	1404	1357	N13	W80	.986	10750	22.6	10	-F			.21				2 2 1 12
	28	1353	1403	1357	N12	W80	.986	10750	22.6	10	-F	C	1357	.21				D
	28	1354	1405	1356	N13	W80	.986	10750	22.6	11	-N	V						
271 MCMA	28	2141	2155D	2145	N13	W50	.783	10753	25.2	14D	-F	C	2145	.26	.40			DH 5
274 BOUL	29	0101	0116	0106	S07	W20	.355	10760	27.5	15	-F	V						5
276 MANI	29	0229	0247		S14	W42	.688	10759	26.0	18	-F	2	0231	.62	.86			3
278 MANI	29	0515	0535D		S06	W23	.398	10760	27.5	20D	-N	2	0518	.31	.33			6
280 ISTA	29	0710	0730	0714	S05	W25	.427	10760	27.4	20	-N							8
281 WEND	29	0810	0818		S06	W25	.429	10760	27.5	8	-N							9
GRP30283 WEND CANR	29	0848	0908		N16	W55	.838	10753	25.2	20	-N			3.09				2 2 1 10
	29	0848	0906D		N15	W55	.836	10753	25.2	18D	1N	V		3.09				
	29	0900	0909		N16	W55	.838	10753	25.3	9	-N	2	V		.90			
285 CATA	29	1050	1105	1055	S06	W31	.520	10760	27.1	15	-B		1055	.46	.55		316	7
294 BOUL	29	2029	2043	2032	N18	W18	.439	10761	28.5	14	-F	V						3
297 MANI	29	2337	2350		S06	W34	.563	10760	27.4	13	-F	2	2340	.31	.38			6
301 MANI	30	0130	0153		N19	W21	.480	10761	28.5	23	-N	2	0133	.62	.70			3
304 TEHR	30	0503	0515D	0505	N16	E42	.704	10767	2.4	12D	-F							9
305 TEHR	30	0506	0523D		N17	W24	.495	10761	28.4	17D	-F							9
306 TEHR	30	0555	0625D		N16	E42	.704	10767	2.4	30D	-F							10
308 ISTA	30	0645	0650		N19	W25	.524	10761	28.4	5	-F							10
309 TEHR	30	0715E	0722D	0717	S06	W31	.520	10760	28.0	7D	1F							9
310 TEHR	30	0719E	0739D		S06	W36	.592	10760	27.6	20D	-F							10
311 TEHR	30	0730E	0739D		S08	W29	.496	10760	28.1	9D	-F							EH 13
312 TEHR	30	0745	0754D	0746	S06	W31	.520	10760	28.0	9D	-N							H 13
313 TEHR	30	0749	0756D	0751	S04	W38	.617	10760	27.5	7D	-N							E 13
314 TEHR	30	0825E	0840D	0835	N17	W23	.483	10761	28.6	15D	-F							7
315 TEHR	30	0825E	0835D		N15	E42	.701	10767	2.5	10D	-F							H 8
318 RAMY	30	1602E	1614	1610	N21	W60	.887	10753	26.2	12D	-F	C		.31				DE 7
GRP30319 RAMY BOUL	30	1635	1650	1640	N10	E08	.234	10763	31.3	15	-F			.31				2 2 1 7
	30	1635	1651	1640	N10	E08	.234	10763	31.3	16	-F	C		.31				DE
	30	1635	1648	1639	N09	E08	.220	10763	31.3	13	-N	V						

# SOLAR FLARES Unconfirmed

MAY 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %			
					LAT.	MER. DIST.														
	1970																			
	MAY																			
322	VORO	30	2358	0021	0001	S08	W36	.596	10760	28.3	23	1B	P	0001	1.85	2.30		123	EJ	3
325	MANI	31	0205E	0227		S07	W48	.746	10760	27.5	220	-F	2	0205	.52	.77				4
326	CULG	31	0235E	0611D		N23	W02	.405	10763	31.0	2160	2F	P	0250	6.19	6.60			GLU	6
330	TEHR	31	0512	0523D	0514	S07	W48	.746	10760	27.6	11D	-N								7
331	TEHR	31	0523	0530D	0526	N19	W35	.638	10761	28.6	7D	-F								6
332	TEHR	31	0532	0600D	0545	S07	W48	.746	10760	27.6	28D	-N								6
333	TEHR	31	0550	0556D	0553	N22	W63	.910	10753	26.5	6D	1F							E	6
GRP30334	TEHR	31	0605	0620	0606	N15	E30	.554	10767	2.5	15	-N								
	ISTA	31	0604E	0610D	0606	N14	E30	.548	10767	2.5	6D	-N							2 2 0	6
	ISTA	31	0605	0620		N15	E29	.541	10767	2.4	15	-N								
335	ISTA	31	0617	0635		S15	W73	.958	10759	25.8	18	-N								5
336	ISTA	31	0620	0720		S12	W90	1.000	10759	24.5	60	-N								5
338	TEHR	31	0642	0652D		S08	W45	.712	10760	27.9	10D	-F							H	5
339	TEHR	31	0708	0727D	0727	N19	W35	.638	10761	28.7	19D	1F								4
340	TEHR	31	0716	0752D	0725	S09	W45	.714	10760	27.9	36D	-F							H	4
341	TEHR	31	0834	0835D		S05	W52	.789	10760	27.5	1D	-N								5
342	TEHR	31	0840	0855D		S05	W49	.756	10760	27.7	15D	1N								5
343	TEHR	31	0842E	0905D		N18	W33	.609	10761	28.9	23D	1N							W	5
349	RAMY	31	1207	1217	1210	S22	E28	.567	10764	2.6	10	-F	C		.41				DE	6
350	RAMY	31	1252	1306	1256	S05	W58	.849	10760	27.2	14	-F	C		.62				DE	6
351	HTPR	31	1315	1321	1316	N17	W42	.708	10761	28.4	6	-F	C	1316	.31	.50				5
353	RAMY	31	1422	1439	1426	S06	E10	.195	10764	1.3	17	-F	C		.52				DE	7
357	HUAN	31	1736E	1751D	1740	S06	W61	.875	10760	27.2	15D	-N	2 C	1740	.50	1.00			E	4
362	LOCK	31	2300	2318	2307	N14	E16	.370	10767	2.2	18	-F								5
363	LOCK	31	2319	2332	2322	N27	W90	1.000	10753	25.2	13	-F								5
364	LOCK	31	2325	2340	2330	S11	W90	1.000	10759	25.2	15	-F								5

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 &gt;90°<br/>         B = Probably the end of a more important flare.<br/>         C = Invisible 10 minutes before.<br/>         D = Brilliant point.<br/>         E = Two or more brilliant points.<br/>         F = Several eruptive centers.<br/>         G = No spots visible in the neighborhood.<br/>         H = Flare with high velocity dark surge.<br/>         I = Very extensive active region.<br/>         J = Flare with flare shows marked intensity variations.<br/>         K = Several intensity maxima.<br/>         L = Filaments show effects of sudden activation.<br/>         M = White-light flare.</p> | <p>N = Continuous spectrum shows effects of polarization.<br/>         O = Observations have been made in the calcium II lines H or K.<br/>         P = Flare shows helium D<sub>3</sub> in emission.<br/>         Q = Flare shows the Balmer continuum in emission.<br/>         R = Marked asymmetry in H<math>\alpha</math> line.<br/>         S = Brightening follows disappearance of filament (same position).<br/>         T = Region active all day.<br/>         U = Close and somewhat parallel bright filaments (    or Y shape).<br/>         V = Occurrence of an explosive phase.<br/>         W = Great increase in area after time of maximum intensity.<br/>         X = Unusually wide H<math>\alpha</math> emission.<br/>         Y = Onset of a system of loop-type prominences.<br/>         Z = Major sunspot umbra covered by flare.</p> |
|--|---|