

SOLAR FLARES

Confirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IM-POR-TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION					CMP DAY	MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Hc	MAX. INT. %
					LAT.	MER. DIST.														
GRP32206	03	1620	1654	1633	N17	W90	1.000	10846	27.9	34	-N						4 4 0 7			
LOCK	03	1617	1708	1632	N19	W90	.999	10846	27.9	51	1N									
RAMY	03	1619E	1658	1633	N19	W90	.999	10846	27.9	390	-B	V					DE			
MEUD	03	1625	1645	1633	N13	W90	1.000	10846	27.9	20	-N	C								
MCMA	03	1627E	1646D		N16	W90	1.000	10846	27.9	190	-F	C	1631							
215 LOCK	04	1935	1945	1938	N16	E61	.870	10865	9.4	10	--F						3			
	04	2105	2120	NO FLARE PATROL																
216 CULG	05	0442	0529	0452	S13	W64	.916	10853	31.4	47	1N	C	0452	1.44			4			
GRP32217	05	0734	0953	0747	N15	E44	.696	10865	8.6	139	--F			1.45			4 2 2 10			
TEHR	05	0730	0945	0832	N18	E43	.690	10865	8.5	135	-F	C		1.45						
TEHR	05	0730	0945	0754	N18	E43	.690	10865	8.5	135	-F	C		.55						
ARCE	05	0731	0815	0740	N18	E50	.768	10865	9.1	44	-F	C	0740	.45						
HTPR	05	0740	1000		N12	E45	.704	10865	8.7	140	-F	C	0810	1.44	2.00		170			
CATA	05	0815E	0910	0830	N13	E40	.643	10865	8.3	550	1N		0830	2.02	2.73					
GRP32218	05	0750	0812	0756	N15	W04	.170	10860	5.0	22	--F	C	0759	.35			3 3 3 11			
ARCE	05	0748	0826	0759	N15	W03	.164	10860	5.1	38	-F	C		.45	.50					
TEHR	05	0751	0807	0754	N15	W05	.177	10860	5.0	16	-N	C		.36						
CRON	05	0752	0803	0754	N16	W04	.186	10860	5.0	11	-F	2 C	0754	.23	.22					
GRP32219	05	1007	1038	1011	N18	E56	.828	10865	9.6	31	-N			.85			3 3 3 10			
TEHR	05	1007	1034	1010	N18	E56	.828	10865	9.6	27	-N	C		.36						
MONT	05	1007	1034	1011	N17	E56	.827	10865	9.6	27	-N	C	1011	1.55						
CANR	05	1009E	1045	1012	N18	E55	.818	10865	9.5	360	-N	2 C	1012	.64	1.11					
GRP32220	05	1329	1334	1331	N18	E52	.789	10865	9.5	5	--F	1 C	1332	.37			3 3 3 12			
BOUL	05	1328	1334	1332	N19	E51	.780	10865	9.4	6	-F	1 C		.54	.89					
TEHR	05	1329	1331	1331	N18	E51	.778	10865	9.4	2	-F	C		.27						
RAMY	05	1329E	1336	1331U	N16	E53	.797	10865	9.5	70	-F	C		.31			DE			
GRP32222	05	2329	2342	2335	N18	E46	.724	10865	9.4	13	--N	1 C	2331	.58	.33		3 3 2 4			
BOUL	05	2321	2335D	2331	N18	E47	.735	10865	9.5	140	-F	1 C		.22						
LOCK	05	2330	2343	2336	N17	E45	.711	10865	9.4	13	-F	C		.34						
VORO	05	2336	2341	2337	N20	E46	.728	10865	9.4	5	-B	C	2337	.93	1.30		80 DJ			
GRP32224	06	0416	0423	0419	N18	E44	.701	10865	9.5	7	--N			.66			3 3 3 5			
KODA	06	0316	0423	0420	N19	E47	.737	10865	9.7	67	-N	P	0415	.96	.96	1.72	CD			
CRON	06	0415	0423	0420	N17	E42	.675	10865	9.3	8	-N	2 C	0420	.66	.87					
TEHR	06	0417	0424	0418	N18	E42	.677	10865	9.3	7	-N	C		.36						
GRP32225	06	0607	0615	0609	N18	E42	.677	10865	9.4	8	--F			.74			4 4 3 11			
HTPR	06	0605	0615	0608	N17	E42	.675	10865	9.4	10	-N	C	0608	.83	1.10					
CRON	06	0605	0612U	0610	N17	E42	.675	10865	9.4	70	-N	2 V	0612	.33	.44					
CRIM	06	0606E	0612D		N18	E42	.677	10865	9.4	60	-F	C	0609	1.07	1.48		DI			
ISTA	06	0610	0615		N18	E43	.689	10865	9.5	5	-F									
GRP32233	06	1353	1400	1355	N18	E38	.628	10865	9.4	7	--F	1 C	1354	.43	.28		5 5 5 11			
CANR	06	1353U	1400	1354U	N19	E37	.619	10865	9.4	70	-F	C		.22						
RAMY	06	1353	1400	1354	N18	E37	.616	10865	9.4	7	-F	C		.41			DE			
HTPR	06	1353	1400	1355	N17	E40	.650	10865	9.6	7	-N	C	1355	.83	1.10					
MEUD	06	1353	1359	1355	N18	E38	.628	10865	9.4	6	-F	C	1355	.41	.50		D			
CATA	06	1355	1400	1355	N18	E38	.628	10865	9.4	5	-N		1355	.29	.38		178			
GRP32236	06	1458	1515	1500	N16	E43	.685	10865	9.8	17	--F			.31			3 3 3 11			
MEUD	06	1458	1515	1459	N16	E43	.685	10865	9.8	17	-N	C	1459	.31	.40		D			
RAMY	06	1458	1521D	1459	N16	E42	.673	10865	9.8	230	-F	C		.31			DE			
BOUL	06	1459	1509	1501	N17	E43	.687	10865	9.8	10	-F	2 C	1501	.32	.44					
GRP32238	06	1636	1646	1639	N19	E36	.606	10865	9.4	10	--N			.36			5 5 4 9			
LOCK	06	1635	1651	1638	N19	E36	.606	10865	9.4	16	-F									
RAMY	06	1636	1645	1638	N18	E36	.603	10865	9.4	9	-N	C		.41			DE			
MCMA	06	1637	1643	1639	N19	E37	.619	10865	9.5	6	-N	C	1639	.41	.50		D			
BOUL	06	1637	1646	1640	N19	E36	.606	10865	9.4	9	-N	2 C	1640	.32	.40					
MEUD	06	1637	1643	1638	N18	E37	.616	10865	9.5	6	-F	C	1638	.31	.40		D			
GRP32241	07	0238	0256	0240	S06	E21	.411	10871	8.7	18	--N			.72			3 3 3 4			
CRON	07	0234	0300	0237	S06	E22	.424	10871	8.8	26	-N	2 C	0237	.66	.72					
TEHR	07	0237E	0259	0237	S06	E22	.424	10871	8.8	220	-B	C		.45						
KODA	07	0244	0249	0247	S07	E18	.379	10871	8.5	5	-N	V	0244	1.04	1.04	1.92	CE			

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %	
					LAT.	MER. DIST.													
GRP32274	08	1156	1220	1201	S06	E03	.218	10871	8.7	24	--N							5 5 5 7	
TEHR	08	1155	1211	1201	S07	E01	.230	10871	8.6	16	-N								
CANR	08	1156	1215	1200	S07	E03	.235	10871	8.7	19	-B	2	C	1200	.75				
MONT	08	1156	1211	1201	S07	E03	.235	10871	8.7	15	-N		C	1201	2.06				
RAMY	08	1157	1226	1203	S05	E04	.207	10871	8.8	29	-N		V		1.03				
CAPS	08	1203E	1238D		S03	E05	.182	10871	8.9	350	-N		S	1204	.60	.60		189	
8 STATIONS REPORTING GROUP 32276. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP32276	08	1407	1435	1409	S06	E03	.218	10871	8.8	28	--N				.80				7 7 7 7
RAMY	08	1405	1436	1410	S05	E03	.202	10871	8.8	31	-N		V		1.34				
TEHR	08	1405	1433	1408	S08	E01	.247	10871	8.7	28	-N		C		.55				
CANR	08	1406	1440D	1408U	S06	E02	.215	10871	8.7	340	-B	1	C	1408	1.18	1.18			
MOMA	08	1407	1443	1409	S07	E03	.235	10871	8.8	36	-N		C	1409	.62	.60			
HUAN	08	1407	1414	1408	S06	E03	.218	10871	8.8	7	-N	1	C	1408	.21	.20			
CAPS	08	1408	1443D		S03	E04	.175	10871	8.9	350	-B	3	V	1409	.80	.80		266	
CATA	08	1410	1435	1410	S06	E02	.215	10871	8.7	25	-B			1410	.93	.95		209	
32276	08	1419	1431	1420	S07	E03	.235	10871	8.8	12	*-F				.64				
MONT	08	1416E	1432	1416	S07	E03	.235	10871	8.8	16D	-N		C	1416	1.13				
HUAN	08	1421	1430	1423	S06	E03	.218	10871	8.8	9	-F	1	C	1423	.14	.14			
GRP32279	08	1618	1640	1622	S06	E01	.213	10871	8.8	22	--N				.72				
BOUL	08	1613	1640D	1622	S06	E01	.213	10871	8.8	27D	-B	2	C	1622	.86	.86			
CANR	08	1616	1642	1621	S06	E01	.213	10871	8.8	26	-N	1	C	1621	.64	.64			
LOCK	08	1617	1640	1622	S06	E00	.212	10871	8.7	23	-N				.52				
MOMA	08	1619	1645	1622	S07	E02	.232	10871	8.8	26	-N		C	1622	.52	.50			
HUAN	08	1619	1635	1621	S06	E02	.215	10871	8.8	16	-N	2	C	1621	.31	.30			
RAMY	08	1620E	1646	1621	S05	E02	.198	10871	8.8	26D	-N		V		1.34				
CATA	08	1620	1635D	1625	S06	E01	.213	10871	8.8	15D	-B			1625	.63	.65		229	
GRP32281	08	1821	1908	1852	S06	E00	.212	10871	8.8	47	-N				1.61				
BOUL	08	1821	1908	1852	S06	E00	.212	10871	8.8	47	-N	2	C	1852	1.61	1.61			
RAMY	08	1837E	1842D	1837U	S05	E01	.196	10871	8.9	5D	-F		V		.83				
GRP32282	08	2041	2057	2044	S07	E00	.229	10871	8.9	16	--N				.41				
LOCK	08	2040	2055	2045	S06	W01	.213	10871	8.8	15	-N				.41				
MOMA	08	2042	2058	2043	S07	E01	.230	10871	8.9	16	-N		C	2043	.41	.40			
GRP32283	08	2312	2350	2325	S07	W03	.235	10871	8.7	38	--F				.50				
LOCK	08	2312	2350	2325	S06	W03	.218	10871	8.7	38	-F				.50				
CRON	08	2332	2346		S07	W03	.235	10871	8.8	14	-F	2	V		.50				
GRP32284	09	0054	0117	0104	S06	W04	.224	10871	8.7	23	-N				1.24				
LOCK	09	0054	0120	0105	S06	W04	.224	10871	8.7	26	-N				1.34	1.40			
MITK	09	0101E	0114	0103	S06	W03	.219	10871	8.8	13D	-N		C	0103	1.34	1.40			
MANI	09	0102E	0103D		S07	W04	.240	10871	8.7	1D	-N	1		0102	1.13	1.14			
GRP32285	09	0145	0213	0151	S07	W04	.240	10871	8.8	28	-N				1.16				
MITK	09	0143	0210	0152	S06	W03	.219	10871	8.8	27	-N		C	0152	1.44	1.50			
CRON	09	0146	0215	0149	S07	W03	.236	10871	8.8	29	-N	2	V		.60				
MANI	09	0150E	0155D	0152	S07	W07	.259	10871	8.6	5D	-N	1		0152	1.44	1.46			
GRP32286	09	0615	0631	0618	S08	W09	.290	10871	8.6	16	--F				1.16				
MANI	09	0613	0629	0615	S09	W11	.323	10871	8.4	16	-F	2		0615	.52				
TEHR	09	0613	0629	0617	S08	W08	.282	10871	8.7	16	-N			0617	.28	.27			
ABST	09	0618	0635	0621	S07	W08	.267	10871	8.7	17	1F		C	0621	2.69	2.80		48	
GRP32288	09	0748	0802	0751	S06	W07	.244	10871	8.8	14	--N				.47				
TEHR	09	0746	0800	0748	S07	W08	.267	10871	8.7	14	-N			0748	.28	.27			
MANI	09	0747	0806	0753	S06	W06	.237	10871	8.9	19	-N	2		0753	.62	.62			
CRON	09	0751	0800		S06	W06	.237	10871	8.9	9	-F	2	V		.50				
GRP32289	09	0810	0829	0814	N19	E41	.667	10868	12.4	19	--N				.40				
MANI	09	0809	0827	0812	N19	E41	.667	10868	12.4	18	-N	2		0812	.31	.43			
CATA	09	0810E	0835D	0815	N19	E40	.655	10868	12.3	25D	-N			0815	.58	.78		186	
CRON	09	0812	0824		N20	E42	.682	10868	12.5	12	-F	2	V		.30				
GRP32291	09	1409	1429	1415	S06	W11	.284	10871	8.8	20	--N				.77				
TEHR	09	1403	1429	1415	S05	W12	.283	10871	8.7	26	-N			1425	.36	.35			
TEHR	09	1403	1429	1408	S05	W12	.283	10871	8.7	26	-N			1408	.19	.18			
RAMY	09	1408	1427D	1408U	S05	W12	.283	10871	8.7	19D	-N		V		.72				
HUAN	09	1408	1430	1415	S06	W12	.295	10871	8.7	22	-F	1	C	1415	.21	.20			
CAPS	09	1409E	1435D		S06	W08	.253	10871	9.0	26D	-N		V	1421	.50	.50		164	
LVOV	09	1410	1425	1413	S07	W12	.307	10871	8.7	15	1F		C	1413	2.68	2.79		61	
CANR	09	1412	1427	1415	S05	W11	.272	10871	8.8	15	-N	1	C	1415	.54	.54			
MOMA	09	1413	1505	1416	S07	W12	.307	10871	8.7	52	-B		C	1416	.41	.40			
LVOV	09	1435	1500	1437	S05	W14	.309	10871	8.6	25	1F		C	1437	2.06	2.15		64	
293 BOUL	09	1835	1844	1838	N21	E32	.563	10868	12.2	9	--F	1	C	1838	.75	.80			

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	DATE 1970 AUG	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %	
					LAT.	MER. DIST.													
294 BOUL	09	1927	2001	1950	S06	W14	.319	10871	8.8	34	--F	2	C	1950	.22	.23			3
GRP32295	09	2057	2117	2104	N18	W08	.243	10865	9.3	20	--N				.54				2 2 1 2
BOUL	09	2054	2120	2104	N17	W07	.220	10865	9.3	26	-N	2	C	2104	.54	.56			
LOCK	09	2100	2113	2104	N18	W08	.243	10865	9.3	13	-N								
GRP32296	09	2143	2203	2147	N18	W09	.253	10865	9.2	20	--N				.45				3 3 2 3
BOUL	09	2143	2207	2147	N18	W08	.243	10865	9.3	24	-N	2	C	2147	.64	.67			
HUAN	09	2143	2152D	2146	N18	W10	.263	10865	9.2	9D	-F	1	C	2146	.25	.30			E
LOCK	09	2144	2158	2148	N17	W08	.229	10865	9.3	14	-N								
GRP32297	09	2307	2323	2313	N18	W08	.243	10865	9.4	16	--N				.31				3 3 2 3
LOCK	09	2306	2320	2313	N18	W07	.234	10865	9.4	14	-N								
BOUL	09	2306	2324	2312	N19	W08	.257	10865	9.4	18	-N	2	C	2312	.32	.33			
CRON	09	2310	2325	2312	N18	W08	.243	10865	9.4	15	-N	1	V		.30				
GRP32298	09	2333	2350	2338	N04	W26	.438	10863	8.0	17	--F				.34				3 3 2 3
BOUL	09	2333	2350	2337	N04	W25	.423	10863	8.1	17	-N	2	C	2337	.16	.18			
LOCK	09	2333	2350	2339	N05	W26	.437	10863	8.0	17	-F								
MANI	09	2334E	2350D		N04	W26	.438	10863	8.0	16D	-F	1		2337	.52	.57			
GRP32299	10	0042	0128	0044	N16	W05	.188	10865	9.7	46	-N				1.66				2 1 1 3
CRON	10	0042	0128	0044	N16	W05	.188	10865	9.7	46	-N	2	C	0044	1.66	1.61			
MITK	10	0045E	0126	0101	N16	W04	.181	10865	9.7	41D	-N		C	0101	1.65	1.70			E
GRP32300	10	0252	0320	0253	N18	W12	.284	10865	9.2	28	-N				.99				3 3 3 5
TEHR	10	0251	0334	0253	N18	W13	.296	10865	9.1	43	-N			0253	.64	.63			
MITK	10	0252E	0300D	0253	N18	W12	.284	10865	9.2	8D	-B		C	0253	1.34	1.40			
CRON	10	0252	0305	0253	N18	W12	.284	10865	9.2	13	-N	2	C	0253	1.00	.97			
GRP32302	10	0419	0447	0425	N21	E28	.512	10868	12.3	28	-N				1.33				2 2 2 3
TEHR	10	0419	0447	0425	N21	E28	.512	10868	12.3	28	-N			0425	1.00	1.04			
CRON	10	0419	0447	0425	N20	E28	.506	10868	12.3	28	-N	2	C	0425	1.66	1.87			
GRP32303	10	0516	0546	0527	N21	E24	.461	10868	12.0	30	-N				1.20				4 4 4 4
CRON	10	0516	0542	0522	N21	E23	.449	10868	11.9	26	-N	2	C	0522	1.55	1.69			
TEHR	10	0516	0543	0523	N22	E22	.444	10868	11.9	27	-N			0523	.91	.92			
MANI	10	0529E	0549D		N21	E26	.487	10868	12.2	20D	-F	1		0532	.62	.71			
CATA	10	0530E	0550	0535	N21	E23	.449	10868	12.0	20D	-N			0535	1.73	1.95			158
GRP32304	10	0628	0643	0631	N16	W08	.215	10865	9.7	15	--F				.57				3 3 3 8
CRON	10	0627	0638	0631	N17	W09	.239	10865	9.6	11	-F	2	G	0631	.44	.43			
ABST	10	0629	0644D	0631	N15	W07	.191	10865	9.7	15D	-F		P	0631	.90	.90			45
TEHR	10	0629	0646	0631	N16	W09	.226	10865	9.6	17	-F			0631	.36	.36			E
GRP32306	10	0859	0922	0903	N18	W15	.321	10865	9.2	23	--F				.82				6 4 4 9
CAPS	10	0840E	0933D		N18	W16	.333	10865	9.2	53D	-N	1	V	0840	.50	.50			
TEHR	10	0854	0921	0902	N18	W16	.333	10865	9.2	27	-F			0902	.36	.36			
CRIM	10	0858E	0912D		N18	W15	.321	10865	9.2	14D	-F		C	0902	.99	1.00			DI
CANR	10	0858	0858D		N19	W17	.355	10865	9.1		-N	3	V		.50	.50			
HTPR	10	0900	0915	0902	N18	W17	.346	10865	9.1	15	-F		C	0902	1.24	1.20			
CATA	10	0905	0930	0905	N19	W15	.331	10865	9.3	25	-B			0905	.69	.74			204
HTPR	10	0906	0930	0910	N15	W12	.252	10865	9.5	24	-F		C	0910	.41	.40			T
GRP32309	10	1155	1215	1158	N12	W75	.962	10860	4.9	20	--F				.54				3 3 3 10
RAMY	10	1154	1224	1159	N13	W75	.961	10860	4.9	30	-F		C		.83				DE
TEHR	10	1155	1210	1157	N11	W76	.966	10860	4.8	15	-F			1157	.55	1.15			
CANR	10	1157	1210		N13	W75	.961	10860	4.9	13	-F	2	V		.25	.60			
7 STATIONS REPORTING GROUP 32311. 5 STATIONS OBSERVING AND NOT REPORTING.																			
GRP32311	10	1345	1401	1346	S07	W26	.488	10871	8.6	16	--N				.66				5 5 5 12
RAMY	10	1338	1407	1340	S07	W28	.515	10871	8.5	29	-F		C		.52				DE
BOUL	10	1346	1422	1348	S08	W26	.495	10871	8.6	36	-F	1	C	1348	.65	.75			
LVOV	10	1346	1351	1347	S07	W26	.488	10871	8.6	5	1B		C	1347	1.65	1.88			78
LVOV	10	1346	1352	1347	S08	W28	.521	10871	8.5	6	1F		C	1347	1.86	2.30			52
CANR	10	1347	1353	1348	S06	W25	.467	10871	8.7	6	-N	2	C	1348	.32	.36			DG
MCMA	10	1347	1351	1348	S07	W25	.474	10871	8.7	4	-F		C	1348	.15	.20			D
32311	10	1345	1418	1348	S08	W16	.366	10871	9.4	33	*-F				.28				2 1 1 12
TEHR	10	1345	1418	1348	S08	W16	.366	10871	9.4	33	-F			1348	.28	.28			
HUAN	10	1415	1435	1419	S08	W27	.508	10871	8.6	20	-F	1	C	1419	.21	.20			D
GRP32312	10	1450	1517	1454	S08	W27	.508	10871	8.6	27	--N				.68				6 6 6 8
HUAN	10	1449	1515D	1454	S08	W27	.508	10871	8.6	26D	-F	1	C	1454	.21	.20			E
RAMY	10	1449	1517	1452	S07	W28	.515	10871	8.5	28	-N		C		.72				DE
MCMA	10	1450	1522	1451	S08	W27	.508	10871	8.6	32	-N		C	1451	.41	.50			E
CANR	10	1450	1510	1451	S07	W27	.501	10871	8.6	20	-N	2	C	1451	.54	.63			
HTPR	10	1450	1515	1455	S08	W28	.521	10871	8.5	25	-F		C	1455	1.55	1.70			
BOUL	10	1458E	1520	1458E	S07	W27	.501	10871	8.6	22D	-N	1	C	1458	.65	.75			

10
Aug 70

SOLAR FLARES

Confirmed

AUGUST 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 H _z	MAX. INT. %		
					LAT.	MER. DIST.													
GRP32337	11	1619	1629	1622	N18	E02	.204	10868	11.8	10	--N							8 8 7 10	
LOCK	11	1617	1630	1622	N18	E01	.201	10868	11.8	13	-N								
BOUL	11	1618	1623D	1623D	N18	E02	.204	10868	11.8	5D	-N	1	C	1623	.64	.66			
CANR	11	1618	1630	1620	N19	E01	.218	10868	11.8	12	-F	1	C	1620	.22	.22			
RAMY	11	1618	1630	1622	N19	E02	.220	10868	11.8	12	-N		V		.83			DE	
HUAN	11	1619	1627	1624	N17	E03	.190	10868	11.9	8	-N	2	C	1624	.25	.25		D	
MCHA	11	1619	1632	1621	N18	E03	.207	10868	11.9	13	-N		C	1621	.72	.80		E	
HTPR	11	1619	1625	1621	N18	E01	.201	10868	11.8	6	-N		C	1621	1.13	1.10			
CATA	11	1625	1630	1625	N18	E02	.204	10868	11.8	5	-B			1625	.52	.53		216	
GRP32341	11	1833	1848	1840	N18	E02	.204	10868	11.9	15	--F				.41			4 4 4 5	
BOUL	11	1829	1851	1840	N19	E02	.220	10868	11.9	22	-N	2	C	1840	.75	.80			
CANR	11	1833	1848	1839	N17	E01	.184	10868	11.8	15	-F	1	C	1839	.32	.32			
MCHA	11	1835	1846	1840	N18	E03	.207	10868	12.0	11	-N		C	1840	.31	.30		E	
HUAN	11	1836	1845	1839	N17	E03	.190	10868	12.0	9	-F	1	C	1839	.25	.25		E	
GRP32343	11	2131	2149	2135	N18	W35	.588	10865	9.3	18	--N				.71			3 3 2 4	
BOUL	11	2131	2145	2135	N18	W35	.588	10865	9.3	14	-N	2	C	2135	.64	.79			
LOCK	11	2131	2147	2135	N19	W36	.605	10865	9.2	16	-N		C		.77	.90		E	
MCHA	11	2132	2155D	2135	N18	W35	.588	10865	9.3	23D	-N		C	2135	.77	.90			
GRP32344	11	2219	2242	2225	N21	W03	.257	10868	11.7	23	--F				.23			4 4 3 4	
BOUL	11	2215	2242	2222	N20	W03	.240	10868	11.7	27	-F	1	C	2222	.22	.23			
LOCK	11	2220	2240	2225	N21	W03	.257	10868	11.7	20	-F				.26	.30		D	
MCHA	11	2220	2245	2227	N21	W03	.257	10868	11.7	25	-N		C	2227	.26	.30		E	
HUAN	11	2222	2230D	2225	N22	W03	.273	10868	11.7	8D	-N	2	C	2225	.21	.20			
GRP32345	11	2317	2338	2325	N18	E00	.201	10868	12.0	21	--F				.51			3 3 3 4	
BOUL	11	2315	2340	2325	N19	W01	.218	10868	11.9	25	-F	1	C	2325	.43	.44			
CRON	11	2319	2336	2325	N16	E00	.166	10868	12.0	17	-F	1	V		.70				
MANI	11	2325E	2329D		N20	E01	.235	10868	12.1	40	-N	1		2327	.41	.43			
GRP32346	12	0028	0043	0034	N23	E04	.292	10868	12.3	15	--F				.97			2 2 1 3	
BOUL	12	0027	0046	0033	N23	E04	.292	10868	12.3	19	-F	1	C	0033	.97	1.00			
LOCK	12	0028	0040	0034	N23	E03	.289	10868	12.2	12	-F								
347 CRON	12	0151	0202	0155	S10	W58	.867	10870	7.7	11	--F	1	C	0155	.23	.42		2	
348 VORO	12	0304	0308	0305	N18	W09	.250	10868	11.5	4	-B		C	0305	1.02	1.00		93 DJL 3	
GRP32350	12	0429	0444	0431	N19	W42	.678	10865	9.0	15	--F				.45			2 2 2 4	
MANI	12	0428E	0444D		N19	W41	.666	10865	9.1	16D	-N	1		0429	.62	.87			
TEHR	12	0429	0444	0431	N18	W42	.676	10865	9.0	15	-F			0431	.28	.31			
GRP32352	12	0500	0520	0504	N23	W03	.289	10868	12.0	20	--N				.44			3 2 2 4	
TEHR	12	0459	0520	0503	N22	W04	.276	10868	11.9	21	-N			0503	.55	.54			
CRON	12	0500	0520U	0505U	N23	W01	.285	10868	12.1	20D	-N	1	C	0505	.33	.32			
CATA	12	0510E	0550	0520	N23	W02	.286	10868	12.1	40D	-N			0520	.58	.61		158	
GRP32355	12	0637	0654	0640	N18	W44	.700	10865	9.0	17	--F				.97			3 2 2 8	
ABST	12	0636	0647	0639	N17	W44	.698	10865	9.0	11	-N		C	0639	.90	1.20		58 D	
HTPR	12	0637	0700	0641	N19	W43	.690	10865	9.1	23	-F		C	0641	1.03	1.30			
TEHR	12	0700	0723	0706	N17	W45	.709	10865	8.9	23	-F			0706	.83	.97			
11 STATIONS REPORTING GROUP 32357. 3 STATIONS OBSERVING AND NOT REPORTING.																			
GRP32357	12	0802	0839	0807	N16	W41	.659	10865	9.3	37	-N				.75			7 7 7 14	
MONI	12	0757	0925	0812	N16	W40	.647	10865	9.3	88	-N		C	0812	.83				
ARCE	12	0800	0829D	0806	N14	W40	.643	10865	9.3	29D	-F		C	0806	.67	.90			
CANR	12	0802	0848	0805	N16	W40	.647	10865	9.3	46	-N	2	C	0805	.54	.72			
UCCL	12	0803	0829	0806	N18	W42	.676	10865	9.2	26	1N		C	0806	1.03	2.10		E	
TEHR	12	0803	0830	0805	N16	W41	.659	10865	9.3	27	-N			0805	.64	.73			
CRON	12	0803	0825		N18	W42	.676	10865	9.2	22	-N	1	V		1.10				
CATA	12	0805	0910	0810	N17	W40	.649	10865	9.3	65	-N			0810	.46	.62		188	
32357	12	0808	0853	0818	N18	W42	.676	10865	9.2	45	*-B				1.55			4 4 4 13	
CAPE	12	0803	0843	0816	N19	W42	.678	10865	9.2	40	-N		C	0816	1.33	1.80			
CAPS	12	0803	0852D		N18	W39	.639	10865	9.4	49D	-B	3	P	0818	1.30	1.70		220	
BUCA	12	0810	0904		N18	W43	.688	10865	9.1	54	1N		P	0816	2.21	3.00			
ARCE	12	0815	0853	0820	N16	W45	.708	10865	9.0	38	-B		C	0820	1.35	1.90			
32357	12	0840	0901	0842	N17	W47	.732	10865	8.8	21	*-F				.90			2 1 1 13	
ABST	12	0840	0854	0842	N16	W47	.731	10865	8.8	14	-F			0842	.90	1.30		45 DZ	
CRON	12	0902	0908		N17	W47	.732	10865	8.9	6	-N	1	V		.40				

SOLAR FLARES
Confirmed
AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
391 BOUL	12	2244	2300	2249	N17	W51	.776	10865	9.1	16	-N	1	C	2249	1.18	1.91			4
392 BOUL	12	2323	2359	2332	N17	W51	.776	10865	9.1	36	--F	1	C	2333	.86	1.36			3
GRP32393	13	0016	0032	0022	N22	W12	.331	10868	12.1	16	--B				.76				2 2 2 3
CRON	13	0001E	0012	0002	N19	W18	.366	10868	11.7	110	-F	3	C	0002	.23	.24			
CRON	13	0010	0029	0014	N22	W09	.305	10868	12.3	19	-B	3	C	0014	.66	.67			
BOUL	13	0021	0035	0029	N23	W10	.327	10868	12.3	14	-N	1	C	0029	.86	.91			
GRP32394	13	0116	0127	0118	N15	W57	.834	10865	8.8	11	--F				.85				2 2 2 4
CRON	13	0116	0125	0118	N14	W57	.833	10865	8.8	9	-F	3	C	0118	.56	.95			
MITK	13	0116	0128	0117	N16	W56	.825	10865	8.9	12	-N		C	0117	1.13	2.00			E
395 CRON	13	0205	0218	0207	N18	W19	.371	10868	11.7	13	--F	3	C	0207	.23	.24			3
396 MITK	13	0206	0210	0207	N18	W52	.787	10865	9.2	4	--F		C	0207	1.13	1.80			E 3
2 STATIONS REPORTING GROUP 32400. 3 STATIONS OBSERVING AND NOT REPORTING.																			
GRP32400	13	0354	0406	0356	N23	W11	.335	10868	12.3	12	--F				.40				2 2 2 5
CRON	13	0353	0402	0355	N22	W11	.322	10868	12.3	9	-F	3	C	0355	.44	.45			
TEHR	13	0354	0410	0356	N23	W11	.335	10868	12.3	16	-F				.36	.36			
400 TEHR	13	0344	0425	0403	N21	W20	.409	10868	11.7	41	*-F			0403	.36	.36			5
GRP32403	13	0436	0449	0438	N23	W11	.335	10868	12.4	13	--F				.51				3 3 3 5
CRON	13	0434	0447	0439	N22	W11	.322	10868	12.4	13	-F	3	C	0439	.56	.57			
MITK	13	0436	0448	0437	N23	W11	.335	10868	12.4	12	-F		C	0437	.62	.70			E
TEHR	13	0437	0452	0439	N23	W11	.335	10868	12.4	15	-F			0439	.36	.36			
GRP32405	13	0523	0538	0526	N19	W21	.406	10868	11.6	15	--N				.74				5 5 5 10
CRON	13	0522	0531	0524	N19	W21	.406	10868	11.6	9	-N	3	C	0524	.66	.70			
MITK	13	0523	0536	0525	N19	W20	.392	10868	11.7	13	-N		C	0525	.83	.90			E
TEHR	13	0523	0542	0526	N20	W21	.414	10868	11.6	19	-N			0526	.36	.37			
HPR	13	0524E	0543		N18	W22	.412	10868	11.6	19D	-N		C	0525	.83	.80			E
AROS	13	0524	0540	0530	N19	W21	.406	10868	11.6	16	-N		P	0530	1.03	1.10			
GRP32406	13	0602	0612	0606	N16	W62	.877	10865	8.6	10	-N				.53				5 5 4 9
BUCA	13	0600	0615		N16	W60	.861	10865	8.8	15	-B		C	0605	.66	1.30			D
TEHR	13	0602	0613	0606	N15	W62	.877	10865	8.6	11	-N			0606	.27	.42			4.00
ONDR	13	0602E	0611		N16	W61	.869	10865	8.7	9D	1N		V	0605					CD
CRON	13	0602	0610	0605	N15	W62	.877	10865	8.6	8	-N	2	C	0605	.56	1.07			
MITK	13	0603	0610	0606	N16	W64	.893	10865	8.5	7	-N		C	0606	.62	1.30			D
GRP32410	13	0732	0747	0738	N17	W57	.835	10865	9.0	15	-N				2.27				2 2 1 11
MONT	13	0730	0744	0737	N17	W60	.861	10865	8.8	14	-N		C	0737	2.27				
HURB	13	0733	0750	0738	N17	W54	.806	10865	9.3	17	-N								2.08
32410	13	0742	0807	0749	N17	W55	.816	10865	9.2	25	*-N				.39				3 2 2 12
MONT	13	0741	0805	0751	N17	W57	.835	10865	9.0	24	-N		C	0751	.41				
TEHR	13	0743	0810	0746	N17	W53	.796	10865	9.3	27	-N			0746	.36	.48			
CANR	13	0755	0805		N18	W55	.817	10865	9.2	10	-N	2	V		.40	.70			
15 STATIONS REPORTING GROUP 32411. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP32411	13	0802	0846	0822	N21	W14	.339	10868	12.3	44	1B				2.26				14 14 11 15
MONT	13	0742	0936	0821	N21	W14	.339	10868	12.3	114	1B		C	0821	5.16				
CRON	13	0751	0827D	0812	N22	W14	.351	10868	12.3	36D	-N	2	C	0812	1.77	1.82			
TEHR	13	0752	0904	0819	N23	W16	.384	10868	12.1	72	-B			0819	1.92	1.91			
HPR	13	0754	0850	0825	N19	W13	.305	10868	12.4	56	1B		C	0825	3.20	3.10			E
CAPE	13	0755	0829D	0823	N22	W14	.351	10868	12.3	34D	1B		P	0823	2.16	2.30			
CANR	13	0755	0855		N21	W14	.339	10868	12.3	60	-N	3	V		1.25	1.50			
ONDR	13	0758	0843	0821	N23	W14	.363	10868	12.3	45	2N		V	0821					3.70
ISTA	13	0807	0844	0815	N22	W12	.331	10868	12.4	37	1F								
AROS	13	0810E	0840D	0825	N20	W13	.317	10868	12.4	30D	2N		P	0825	4.95	5.20			
MANI	13	0813E	0834D		N19	W16	.341	10868	12.1	21D	-B	1		0824	1.75	1.85			
CAPS	13	0815E	0848D		N20	W13	.317	10868	12.4	33D	-B	3	V	0825	1.10	1.10			189
CATA	13	0820	0845	0828	N22	W13	.341	10868	12.4	25	-B			0828	.58	.61			263
ARCE	13	0820E	0837D		N20	W14	.328	10868	12.3	17D	-N		P	0820	.97	1.00			
HURB	13	0820	0835	0827	N21	W16	.362	10868	12.1	15	1B								2.84
32411	13	0754	0855	0806	N22	W15	.361	10868	12.2	61	*-N				.61				3 3 3 12
TEHR	13	0752	0904	0802	N23	W16	.384	10868	12.1	72	-N			0802	.64	.64			
CATA	13	0755	0845	0810	N22	W14	.351	10868	12.3	50	-B			0810	.58	.62			
CANR	13	0755	0855		N21	W14	.339	10868	12.3	60	-N	2	V		.60	.70			219
32411	13	0826	0855	0835	N23	W12	.344	10868	12.5	29	*-N				2.18				2 2 2 13
WEND	13	0826E	0852D		N23	W13	.353	10868	12.4	26D	1N		V		4.13				
CRON	13	0835E	0855	0835E	N22	W11	.322	10868	12.5	20D	-N	2	C	0835	.23	.23			

SOLAR FLARES
Confirmed
AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc		MAX. INT. %
					LAT.	MER. DIST.												
GRP32412	13	0811	0822	0813	N17	W59	.853	10865	8.9	11	-N							7 6 5 13
CRON	13	0808	0816	0808	N18	W58	.844	10865	9.0	8	-F	2	V		.62			
CANR	13	0809	0829		N18	W59	.853	10865	8.9	20	-N	3	V		.30	.60		
CAPE	13	0810	0820	0813	N18	W57	.835	10865	9.1	10	-N		C	0813	1.01	1.90		
TEHR	13	0810	0900	0812	N17	W59	.853	10865	8.9	50	-N		C	0812	.36	.53		
MANI	13	0813E	0826		N17	W58	.844	10865	9.0	130	-N	1		0814	1.13	2.00		
ISTA	13	0815	0821		N16	W60	.861	10865	8.8	6	-F							
CATA	13	0842	09000	0842	N22	W54	.812	10865	9.3	180	-B			0842	.52	.89	209	Z
GRP32413	13	0946	1020	0953	N17	W59	.853	10865	9.0	34	--F				.97			3 3 3 10
TEHR	13	0943	1048	0952	N17	W59	.853	10865	9.0	65	-F			0952	.45	.67		
MONT	13	0946	1014	0956	N17	W61	.870	10865	8.8	28	-N		C	0956	2.06			
MEUD	13	0948	0959	0952	N17	W58	.844	10865	9.1	11	-F		C	0952	.41	.80		
GRP32414	13	1118	1142	1121	N18	W55	.817	10865	9.3	24	-N				.50			4 4 4 13
TEHR	13	1118	1142	1121	N18	W55	.817	10865	9.3	24	-N			1121	.36	.50		
RAMY	13	1118	1141	1121	N16	W53	.795	10865	9.5	23	-N		C		.52			F
CANR	13	1118	11180		N19	W59	.854	10865	9.0		-N	2	V		.50	1.00		
CAPS	13	1120E	11400		N18	W53	.797	10865	9.5	200	-N	2	V	1123	.60	1.00	176	C
GRP32415	13	1156	1207	1200	N18	W56	.826	10865	9.3	11	-F				.60			7 6 5 12
ONDR	13	1154E	12220		N17	W57	.835	10865	9.2	280	1N		V	1200			3.20	CDE
TEHR	13	1156	1212	1200	N18	W55	.817	10865	9.4	16	-F			1200	.27	.37		
RAMY	13	1156	12050	1159	N16	W53	.795	10865	9.5	90	-N		C		.41			DE
MEUD	13	1157	1201	1159	N17	W58	.844	10865	9.1	4	-F		C	1159	.31	.60		E
UCCL	13	1158	1201	1200	N20	W57	.837	10865	9.2	3	1N		C	1200	1.03			D
CAPS	13	1200E	1203		N18	W53	.797	10865	9.5	30	-F	2	V	1201	1.00	1.60		C
HURB	13	1217	1228	1218	N14	W59	.852	10865	9.1	11	-F						1.71	158
GRP32416	13	1304	1323	1310	N17	W60	.861	10865	9.0	19	--F				.42			4 4 3 16
HUAN	13	1300	1316	1309	N17	W62	.878	10865	8.9	16	-F	1	C	1309	.21	.40		E
MEUD	13	1305	1323	1310	N17	W58	.844	10865	9.2	18	-F		C	1310	.52	1.00		
HTPR	13	1305E	13250		N18	W58	.844	10865	9.2	200	-N		C					
MCMA	13	1306	1329	1310	N15	W62	.877	10865	8.9	23	-N		C	1310	.52	1.10		E
GRP32419	13	1353	1424	1402	N11	E90	1.000	10882	20.3	31	1B				1.11			7 6 3 15
MEUD	13	1352	1420		N10	E90	1.000	10882	20.3	28	1B		C	1358	1.03			A
HTPR	13	1352	1420	1400	N10	E90	1.000	10882	20.3	28	1B		C					
RAMY	13	1352	1431	1359	N12	E90	1.000	10882	20.3	39	1N		C					F
MCMA	13	1352	1420	1359	N10	E90	1.000	10882	20.3	28	1B		C	1359				
TEHR	13	1353	1430	1400	N09	E90	1.000	10882	20.3	37	1N		C	1400	1.73			
CATA	13	1355	14200	1400	N13	E90	1.000	10882	20.3	250	1B		C	1400	.58		229	
BOUL	13	1406	1440	1415	N12	E83	.990	10882	19.8	34	2B	1	C	1415	1.94	6.40		
GRP32421	13	1447	1459	1451	N18	W58	.844	10865	9.3	12	--F				.43			5 5 4 11
TEHR	13	1446	1454	1448	N18	W56	.826	10865	9.4	8	-F			1448	.27	.38		
HUAN	13	1447	1506	1452	N17	W63	.886	10865	8.9	19	-F	2	C	1452	.21	.40		D
HTPR	13	1447	14580		N18	W57	.835	10865	9.3	110	-N		C					
CAPS	13	1448E	14550		N18	W54	.807	10865	9.6	70	-N	2	V	1449	.70	1.10	182	
MEUD	13	1448	1500	1454	N17	W58	.844	10865	9.3	12	-F		C	1454	.52	1.00		
GRP32422	13	1518	1528	1520	N17	W60	.861	10865	9.1	10	--F				.31			3 2 2 10
HUAN	13	1517	1527	15200	N17	W61	.870	10865	9.1	10	-F	1	C	1520	.21	.40		D
MEUD	13	1519	1529	1520	N17	W58	.844	10865	9.3	10	-F		C	1520	.41	.80		
BOUL	13	1529	1544	1535	N17	W61	.870	10865	9.1	15	-F	1	C	1536	.32	.61		
GRP32424	13	1645	1703	1648	N17	W61	.870	10865	9.1	18	-N				.72			3 2 1 9
MCMA	13	1645	1705	1648	N15	W64	.893	10865	8.9	20	-N		C	1648	.72	1.70		E
HTPR	13	1645	1700		N18	W57	.835	10865	9.4	15	-N		C					
BOUL	13	1659	1721	1705	N19	W59	.854	10865	9.3	22	-N	1	C	1705	.43	.80		
GRP32425	13	1726	1835	1739	N16	W58	.843	10865	9.4	69	-N				.65			2 2 2 6
MCMA	13	1726	17590	1739	N17	W60	.861	10865	9.2	330	-N		C	1739	.77	1.50		EK
RAMY	13	1739E	1801	17390	N15	W55	.815	10865	9.6	220	-N		C		.52			DE
MCMA	13	1800	1835	1805	N17	W60	.861	10865	9.3	35	1N		C	1805	1.55	3.10		F
GRP32428	13	1833	1925	1844	N20	W19	.388	10868	12.3	52	1B				2.61			5 5 4 5
CANR	13	1830	1856	1846	N20	W19	.388	10868	12.3	26	1B	1	V	1846	2.40	2.60		
CANR	13	1830	1856	1837	N20	W19	.388	10868	12.3	26	1B	1	V	1837	2.10	2.30		
MCMA	13	1834	1945	1837	N19	W20	.392	10868	12.3	71	1B		C	1837	2.06	2.30		F
BOUL	13	1834	1924	1852	N19	W19	.379	10868	12.3	50	1B	2	C	1853	2.46	2.66		
LOCK	13	1834	1925	1840	N20	W19	.388	10868	12.3	51	1N							
HUAN	13	1835	1935	1844	N22	W19	.407	10868	12.3	60	1B	2	C	1844	3.51	3.80		E
GRP32429	13	1855	1940	1913	N18	W63	.886	10865	9.1	45	-B				.87			2 2 2 4
MCMA	13	1855	1940	1916	N17	W64	.893	10865	9.0	45	-N		C	1916	.83	1.90		E
HUAN	13	1855	1933	1909	N19	W65	.901	10865	8.9	38	1B	2	C	1909	.90	2.10		E
HUAN	13	1933	1939	1935	N17	W60	.861	10865	9.3	6	-F	2	C	1935	.25	.50		D

SOLAR FLARES Confirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMTPLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %	
					LAT.	MER. DIST.													
	1970 AUG																		
32470	14	1604	1704	1635	N10	E75	.962	10882	20.3	60	*2B								4 4 3 9
LOCK	14	1600	1642	1630	N11	E73	.952	10882	20.1	42	1N								
MCMA	14	1602	1810D	1633	N10	E74	.957	10882	20.2	128D	2B	C	1633	2.06	8.00				FK
SANM	14	1602	1710D		N08	E76	.967	10882	20.4	68D	3B	2 P	1637	8.74					IZ
BOUL	14	1610	1657	1643	N09	E79	.979	10882	20.6	47	2B	2 C	1644	4.08	12.24				
SANM	14	1736E	1909D		N11	E70	.935	10882	20.0	93D	1B	2 P	1805	1.13					D
GRP32471	14	1702	2116	1714	N17	W74	.955	10865	9.2	254	1B			1.17					4 3 3 5
HTPR	14	1655	1754D	1713	N18	W75	.960	10865	9.1	59D	1N	C	1713	1.55					
MCMA	14	1700E	2130D	1714	N16	W73	.950	10865	9.2	270D	2B	C	1714	1.34	5.30				KUV
HUAN	14	1710	1820	1714	N17	W77	.969	10865	8.9	70	-B	1 C	1714	.62					E
SANM	14	1736E	1909D		N16	W77	.969	10865	9.0	93D	3B	1 P	1737	10.03					FI
HUAN	14	1934	1940	1935	N17	W79	.977	10865	8.9	6	-B	2 C	1935	.50					E
HUAN	14	2101E	2103D	2102U	N18	W68	.921	10865	9.8	20	-N	1 P	2102	.17					D
	14	2122	2127	NO FLARE PATROL															
GRP32473	14	2305	2337	2331	N18	W82	.986	10865	8.8	32	-N				.62				3 3 2 3
CULG	14	2305	2347	2332	N19	W80	.980	10865	9.0	42	1N	C	2332	.83					
LOCK	14	2305	2319	2307	N17	W84	.991	10865	8.7	14	-F								
CRON	14	2323	2330		N18	W82	.986	10865	8.8	7	-N	1 V		.40					
LOCK	14	2329	2333	2330	N18	W84	.991	10865	8.7	4	-F								
475 MITK	15	0034	0043	0037	N17	W79	.977	10865	9.1	9	1F	C	0037	.93					E 4
GRP32481	15	0316	0319	0317	N19	W80	.980	10865	9.1	3	--F			.25					2 2 2 4
CRON	15	0313	0320	0315	N19	W77	.969	10865	9.4	7	-F	1 C	0315	.23	.63				
TEHR	15	0318	0318	0318	N18	W82	.986	10865	9.0		-N		0318	.27					
GRP32482	15	0349	0407	0355	N23	W38	.643	10868	12.3	18	--N			.47					3 3 3 4
TEHR	15	0342	0414	0357	N22	W37	.627	10868	12.4	32	-F		0357	.45	.50				
CRON	15	0349	0400	0353	N23	W37	.632	10868	12.4	11	-F	1 C	0353	.33	.42				
TACH	15	0355	0408	0356	N23	W39	.655	10868	12.2	13	-B	C	0356	.64	.84		100		D
GRP32483	15	0356	0408	0401	N19	W80	.980	10865	9.2	12	-N			.45					2 1 1 4
TACH	15	0356	0408	0401	N19	W80	.980	10865	9.2	12	-N	C	0401	.45		4.70	84		DTXY
TEHR	15	0357	0407	0401	N17	W90	.999	10865	8.4	10	-N		0401	.32					
GRP32485	15	0436	0503	0444	N22	W40	.663	10868	12.2	27	-N			1.04					4 4 4 4
CULG	15	0433	0516	0447	N24	W40	.670	10868	12.2	43	1N	C	0447	1.55	2.10				
CRON	15	0435	0450	0441	N16	W38	.620	10868	12.3	15	-N	2 C	0441	.44	.55				
CRON	15	0435	0450	0440	N25	W46	.739	10868	11.7	15	-F	1 C	0440	.33	.48				
TEHR	15	0437	0507	0445	N20	W37	.620	10868	12.4	30	-N		0445	.55	.60				
TACH	15	0439	0458	0444	N24	W42	.693	10868	12.0	19	-N	C	0444	1.28	1.75	2.10	54		E
GRP32487	15	0553	0603	0556	N21	W38	.635	10868	12.4	10	--F			.44					3 3 3 9
TEHR	15	0530	0606	0556	N21	W37	.623	10868	12.5	36	-F		0556	.36	.40				
CRON	15	0551	0600	0556	N21	W38	.635	10868	12.4	9	-F	1 C	0556	.56	.71				
HTPR	15	0555	0602	0557	N22	W39	.651	10868	12.3	7	-N	C	0557	.41	.50				
GRP32488	15	0620	0700	0653	N18	W89	.999	10865	8.6	40	-N			.43					4 4 2 8
CATA	15	0620	0705	0653	N18	W90	.999	10865	8.5	45	-B			.52				251	
ISTA	15	0621	0659		N17	W90	.999	10865	8.5	38	1F								
CRON	15	0645	0657	0652	N17	W84	.991	10865	9.0	12	-F	1 C	0652	.33	1.06				
HTPR	15	0650	0700	0654	N18	W90	.999	10865	8.5	10	-B	C							
GRP32489	15	0728	0741	0731	N19	W76	.964	10865	9.6	13	-N			.58					7 7 6 9
TEHR	15	0725	0742	0731	N18	W74	.955	10865	9.8	17	-N		0731	.36	.77				
CANR	15	0725	0743	0730	N18	W75	.960	10865	9.7	18	-N	1 C	0730	.65	2.02				
CRON	15	0727	0739	0730	N19	W77	.969	10865	9.5	12	-N	1 C	0730	.77	1.82				
ISTA	15	0728	0736		N19	W76	.964	10865	9.6	8	-F								
HTPR	15	0729	0740	0731	N17	W82	.986	10865	9.2	11	-N	C	0731	.72					
BUCA	15	0730	0740		N19	W75	.960	10865	9.7	10	-N	C	0730	.55					D
CATA	15	0730	0745	0732	N20	W75	.960	10865	9.7	15	-B		0732	.46				269	
GRP32491	15	0800	0820	0804	N18	W89	.999	10865	8.7	20	-N			.51					5 5 4 9
TEHR	15	0800	0815	0803	N17	W90	.999	10865	8.6	15	-N		0803	.27					
HTPR	15	0800	0810	0804	N18	W90	.999	10865	8.6	10	-N	C							
CATA	15	0800	0815	0805	N18	W90	.999	10865	8.6	15	-B		0805	.29				229	
CAPE	15	0801	0810	0803	N18	W90	.999	10865	8.6	9	-N	C	0803	.92					
CANR	15	0805E	0850U	0807U	N17	W84	.991	10865	9.0	45D	-N	1 C	0807	.54	1.79				
GRP32492	15	0849	0906	0852	N22	W39	.651	10868	12.4	17	--N			.70					5 5 5 6
CANR	15	0847	0900	0850U	N22	W39	.651	10868	12.4	13	-N	1 C	0850	.64	.86				
CAPE	15	0848	0907	0854	N23	W40	.666	10868	12.4	19	-N	C	0854	1.37	1.80				
TEHR	15	0849	0919	0854	N22	W40	.663	10868	12.4	30	-N		0854	.36	.41				
HTPR	15	0850	0908	0851	N22	W39	.651	10868	12.4	18	-N	C	0851	.41	.50				
CRON	15	0852	0856		N22	W38	.639	10868	12.5	4	-F	1 V		.70					

SOLAR FLARES
Confirmed
AUGUST 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.												
6 STATIONS REPORTING GROUP 32594. 4 STATIONS OBSERVING AND NOT REPORTING.																		
GRP32594	17	1351	1433	1402	S11	W48	.777	10875	14.0	42	--N					5 5 5 9		
MCMA	17	1349	1443	1406	S12	W48	.780	10875	14.0	54	-N		1406	.52	.80			
BOUL	17	1350	1425	1358	S12	W48	.780	10875	14.0	35	-N	2	C	1359	.43	.70		
TEHR	17	1351	1443	1405	S11	W47	.766	10875	14.1	52	-N			1405	.45	.57		
TEHR	17	1351	1443	1357	S11	W47	.766	10875	14.1	52	-N			1357	.36	.45		
MEUD	17	1354	1409	1405	S10	W50	.794	10875	13.8	15	-N		C	1405	.62	.90	E	
RAMY	17	1356E	1445	1356E	S10	W47	.763	10875	14.1	490	-N		C		.52		DE	
32594	17	1352	1444	1425	S11	W48	.777	10875	14.0	52	*-N				.47		4 4 4 10	
MCMA	17	1349	1443	1425	S12	W48	.780	10875	14.0	54	-N		C	1425	.52	.80	DK	
RAMY	17	1356E	1445	1426	S10	W47	.763	10875	14.1	490	-N		C		.41		DE	
MEUD	17	1420	14360		S10	W50	.794	10875	13.8	160	-B		C	1426	.62	.90		
HTRP	17	1421	1445	1425	S10	W45	.741	10875	14.2	24	-F		C	1425	.31	.60		
GRP32596	17	1524	1559	1545	N10	E37	.598	10882	20.4	35	--N				.32		4 4 4 9	
RAMY	17	1503	1607D	1558	N08	E37	.598	10882	20.4	64D	-N		C		1.65		DE	
RAMY	17	1522	1758	1545	N10	E38	.612	10882	20.5	156	-N		C		.36		DE	
BOUL	17	1524	1659	1547	N11	E37	.599	10882	20.4	95	-N	2	C	1547	.32	.40		
CATA	17	1525	1555	1540	N09	E37	.598	10882	20.4	30	-N			1540	.29	.37	174	
MEUD	17	1545	1556	1547	N09	E36	.584	10882	20.4	11	-F		C	1547	.31	.40		
605 BOUL	17	1917	1943	1929	N21	W75	.959	10868	12.2	26	--F	1	C	1929	.32	.84	3	
606 BOUL	17	1923	1943	1934	N09	E35	.570	10882	20.4	20	--N	1	C	1935	.32	.39	3	
607 BOUL	17	1932	1943	1938	S08	W59	.872	10875	13.4	11	--N	1	C	1938	.64	1.24	3	
GRP32608	17	1933	1954	1939	S16	W26	.564	10883	15.9	21	--N				.58		2 2 2 3	
BOUL	17	1932	1943	1938	S15	W25	.544	10883	15.9	11	-N	1	C	1938	.54	.65		
MCMA	17	1934	2005	1939	S17	W27	.584	10883	15.8	31	-N		C	1939	.62	.70	E	
GRP32609	17	2331	2346	2336	N13	E23	.399	10882	19.7	15	--N				.32		1 1 1 3	
BOUL	17	2331	2346	2336	N11	E23	.393	10882	19.7	15	-N	2	C	2336	.32	.35		
BOUL	17	2334	2344	2337	N15	E23	.407	10882	19.7	10	-N	2	C	2337	.32	.38		
610 BOUL	17	2346	2358	2350	N02	E34	.562	10882	20.5	12	--N	2	C	2351	.32	.39	3	
	17	2400	0002	NO FLARE PATROL														
	18	0209	0226	NO FLARE PATROL														
611 TEHR	18	0230	0241	0232	S10	W57	.859	10875	13.8	11	--N			0232	.28	.41	1	
GRP32612	18	0338	0356	0341	N13	E21	.368	10882	19.7	18	-N				1.62		3 3 3 3	
TEHR	18	0335	0401	0340	N13	E21	.368	10882	19.7	26	-N			0340	1.37	1.35		
MITK	18	0337	0358	0340	N13	E21	.368	10882	19.7	21	-N		C	0340	1.75	1.90	E	
TACH	18	0342	0350	0344	N13	E22	.383	10882	19.8	8	-B		C	0344	1.73	1.87	2.10 75	
GRP32617	18	0646	0708	0648	S18	W37	.696	10883	15.5	22	--N				.63		4 4 3 12	
TEHR	18	0645	0705	0647	S18	W37	.696	10883	15.5	20	-N			0647	.28	.31		
HTRP	18	0645	0715	0647	S17	W36	.679	10883	15.6	30	-N		C	0647	.52	.70		
CRIM	18	0646E	0657D		S18	W36	.686	10883	15.6	11D	-F		C	0647	1.08	1.49	E	
ISTA	18	0646	0703	0650	S18	W37	.696	10883	15.5	17	-N							
GRP32618	18	0926	0941	0929	N13	E68	.921	10888	23.5	15	--N				.43		6 6 6 12	
TEHR	18	0918	0943	0927	N15	E68	.921	10888	23.5	25	-N			0927	.45	.79		
HTRP	18	0924	0940	0930	N12	E70	.934	10888	23.6	16	-N		C	0930	.41			
UCCL	18	0924	0938	0930	N12	E70	.934	10888	23.6	14	-N		C	0930	.52		D	
CAPS	18	0928E	0943D		N13	E64	.893	10888	23.2	15D	-N	3	V	0930	.30	.70	180	
CROW	18	0928	0940		N12	E67	.915	10888	23.4	12	-F	1	V		.50			
CANR	18	0933	0933D		N12	E69	.928	10888	23.6		-F	2	V		.40	1.00		
GRP32621	18	1110	1119	1112	N11	E26	.439	10882	20.4	9	--N				.65		8 8 8 13	
CATA	18	1108E	1115D	1108	N11	E25	.423	10882	20.3	7D	-N			1108	.14	.16	166	
RAMY	18	1109	1120	1111	N10	E25	.422	10882	20.3	11	-N		C		.93		DE	
TEHR	18	1109	1120	1111	N11	E26	.439	10882	20.4	11	-N			1111	.45	.46		
HTRP	18	1109	1119	1112	N10	E26	.437	10882	20.4	10	-B		C	1112	.93	1.00		
CAPE	18	1110	1118	1112	N12	E26	.441	10882	20.4	8	-N		C	1112	1.10	1.20		
MCMA	18	1110	1117	1112	N12	E24	.410	10882	20.3	7	-N		C	1112	.62	.70	E	
CANR	18	1112	1120		N10	E28	.468	10882	20.6	8	-N	3	V		.50	.50		
UCCL	18	1115E	1115D		N10	E25	.422	10882	20.3		-N		P	1115	.52	.60	D	

22
Aug 70

SOLAR FLARES

Confirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970 AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
GRP32625	18	1212	1235	1217	N14	E17	.312	10882	19.8	23	-N							10 10 10 13
RAMY	18	1210	1236E	1217	N13	E17	.307	10882	19.8	26D	-N	C			1.43			F
TEHR	18	1210	1240	1214	N15	E17	.319	10882	19.8	30	-N		1214		.73			
CANR	18	1210	1235		N13	E18	.322	10882	19.9	25	-N	3 V			.90	1.00		
UCCL	18	1211	1232	1216	N12	E18	.317	10882	19.9	21	1F	C	1216		2.58	3.00		EI
HTPR	18	1212	1217D		N14	E16	.297	10882	19.7	5D	-N	C	1217		1.24	1.30		
HUAN	18	1214	1225	1216	N12	E16	.286	10882	19.7	11	-F	2 C	1216		.17	.20		E
CAPE	18	1215	1230	1218	N14	E17	.312	10882	19.8	15	-F	C	1218		1.28	1.30		
CATA	18	1215	1245	1220	N15	E17	.319	10882	19.8	30	-N		1220		1.39	1.47		186
CAFF	18	1215E	1222D		N15	E17	.319	10882	19.8	7D	1N	P	1219		2.89	3.08		
CAPS	18	1218E	1240D		N13	E15	.276	10882	19.6	22D	-F	3 V	1220		1.50	1.50		152
GRP32631	18	1627	1647	1640	S16	W37	.684	10883	15.9	20	--F				.64			2 2 2 5
BOUL	18	1627	1644	1639	S17	W37	.690	10883	15.9	17	-N	1 C	1639		.65	.81		
RAMY	18	1638E	1650	1641U	S15	W36	.667	10883	16.0	12D	-F	C			.62			DE
GRP32632	18	1644	1705	1649	N07	E23	.388	10882	20.4	21	-B				1.12			5 5 4 6
CANR	18	1640	1722	1647	N08	E23	.388	10882	20.4	42	-N	2 V	1647		1.10	1.30		
RAMY	18	1643	1656	1645	N07	E23	.388	10882	20.4	13	-N	C			1.34			DE
LOCK	18	1643	1710	1648	N07	E23	.388	10882	20.4	27	-B							Y
HUAN	18	1644	1655	1648	N07	E23	.388	10882	20.4	11	-B	2 C	1648		.41	.50		D
CATA	18	1650	1700	1655	N08	E23	.388	10882	20.4	10	-B		1655		1.62	1.78		229
GRP32633	18	1735	1831	1753	N08	E18	.307	10882	20.1	56	--N				.88			4 4 3 4
LOCK	18	1730	1830	1750	N07	E18	.307	10882	20.1	60	-F							
RAMY	18	1736	1816E	1756	N09	E19	.325	10882	20.2	40D	-F	C			1.39			DE
RAMY	18	1736	1816E	1740	N09	E19	.325	10882	20.2	40D	-F	C			.83			
HUAN	18	1740	1832	1753	N07	E17	.290	10882	20.0	52	-B	2 C	1753		.62	.60		D
MCMA	18	1745E	1820D		N08	E18	.307	10882	20.1	35D	-N	C	1757		.62	.70		EL
GRP32637	18	1845	1859	1850	N21	W87	.996	10868	12.3	14	--F				.37			2 2 1 3
LOCK	18	1844	1900	1850	N22	W84	.990	10868	12.5	16	-F							
HUAN	18	1845	1857	1850	N20	W90	.999	10868	12.0	12	-N	2 C	1850		.37			D
GRP32638	18	1854	1903	1856	N09	E23	.389	10882	20.5	9	--F				.46			2 2 1 3
LOCK	18	1854	1903	1856	N09	E23	.389	10882	20.5	9	-F							
RAMY	18	1855E	1903	1856	N08	E22	.372	10882	20.4	8D	-N	C			.46			DE
639 LOCK	18	1925	1950	1933	N15	E62	.877	10888	23.5	25	--F							3
GRP32640	18	2027	2047	2030	N08	E21	.356	10882	20.4	20	--F				.21			2 2 1 3
LOCK	18	2025	2040	2031	N08	E21	.356	10882	20.4	15	-F							
MCMA	18	2028	2045D	2029	N08	E21	.356	10882	20.4	17D	-N	C	2029		.21	.20		DH
LOCK	18	2040	2047	2042	N09	E21	.357	10882	20.4	7	-N							
641 LOCK	18	2125	2135	2128	S08	W72	.958	10875	13.5	10	--F							2
GRP32642	18	2204	2228	2208	N07	E18	.307	10882	20.3	24	1B				2.46			4 4 3 4
VORO	18	2202	2218	2206	N07	E18	.307	10882	20.3	16	1B	C	2206		2.12	2.20		165
BOUL	18	2204	2215	2208	N07	E18	.307	10882	20.3	11	1B	2 C	2208		2.68	2.81		
LOCK	18	2205	2235	2210	N07	E19	.323	10882	20.3	30	1B							VY
CULG	18	2210E	2244		N08	E18	.307	10882	20.3	34D	1N	P	2210		2.58	2.63		HR
GRP32643	18	2246	2252	2248	N10	E21	.359	10882	20.5	6	--B				.84			2 2 1 3
VORO	18	2245	2249	2246	N10	E20	.343	10882	20.4	4	-B	C	2246		.84	.90		94
LOCK	18	2246	2254	2249	N09	E21	.357	10882	20.5	8	-N							
GRP32644	18	2304	2312	2307	N09	E21	.357	10882	20.5	8	-B				1.20			2 2 1 2
VORO	18	2303	2307	2304	N09	E20	.341	10882	20.5	4	-B	C	2304		1.20	1.30		93
LOCK	18	2305	2316	2309	N09	E21	.357	10882	20.5	11	-N							
GRP32645	18	2307	2335	2310	S11	W73	.965	10875	13.5	28	--F				.60			2 2 1 3
LOCK	18	2300	2330	2310	S12	W74	.970	10875	13.4	30	-F							
CRON	18	2314	2340		S09	W72	.959	10875	13.6	26	-F	1 V			.60			
GRP32648	19	0401	0426	0410	S15	W03	.375	10880	18.9	25	--F				.57			2 2 2 5
TEHR	19	0401	0427	0405	S15	W03	.375	10880	18.9	26	-F		0405		.36			
CRON	19	0406E	0424	0415U	S15	W03	.375	10880	18.9	18D	-N	1 C	0415		.77	.81		
GRP32655	19	0700	0707	0702	N08	E16	.274	10882	20.5	7	-N				1.14			3 3 3 11
CRON	19	0700	0708	0703	N08	E16	.274	10882	20.5	8	-B	1 C	0703		2.10	2.04		
CATA	19	0700	0705	0700	N07	E16	.274	10882	20.5	5	-N		0700		.58	.60		195
TEHR	19	0700	0707	0703	N08	E16	.274	10882	20.5	7	-N		0703		.73	.72		

26
Aug 70

SOLAR FLARES

Confirmed

AUGUST 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 H α	MAX. INT. %	
					LAT.	MER. DIST.												
GRP32762 LOCK BOUL	22	2015	2032	2018	N20	E21	.410	10894	24.4	17	--F							2 2 1 3
	22	2013	2036	2017	N20	E20	.397	10894	24.3	23	-F							
	22	2016	2028	2018	N20	E21	.410	10894	24.4	12	-N	1	C	2018	.54	.64		
763 LOCK	22	2252	2305	2257	N16	E09	.219	10888	23.6	13	--F							2
764 CRON	23	0120	0142	0128	N12	W34	.558	10882	20.5	22	--N	2	C	0128	.44	.52		3
GRP32774 HTPR TEHR CANR CATA	23	0823	0851	0836	N21	W22	.430	10887	21.7	28	--N				.88			4 4 4 6
	23	0820	0845	0837	N20	W23	.436	10887	21.6	25	-F		C	0837	1.24	1.30		
	23	0824	0853	0837	N20	W22	.423	10887	21.7	29	-N			0837	.64	.64		
	23	0824	0845		N21	W23	.443	10887	21.6	21	-N	3	V		.60	.60		
23	0825	0900	0835	N22	W21	.426	10887	21.8	35	-N			0835	1.04	1.16	166		
GRP32777 TEHR CANR CRON	23	0923	0954	0928	N14	E57	.833	10903	27.7	31	-F				1.80			3 2 2 7
	23	0921	0958	0928	N17	E58	.843	10903	27.7	37	1F			0928	2.19	3.08		
	23	0924	0958		N14	E57	.833	10903	27.7	34	-F	3	V		1.40	1.90		
	23	0935	0947		N12	E55	.813	10903	27.5	12	1F	1	V		1.80			
GRP32781 RAMY TEHR CATA	23	1101	1131	1105	N19	E11	.277	10894	24.3	30	--N				.75			3 3 3 6
	23	1058	1126	1104	N19	E11	.277	10894	24.3	28	-N		C		1.13			DE
	23	1100	1132	1106	N19	E11	.277	10894	24.3	32	-F			1106	.36	.36		
	23	1105	1135	1105	N18	E11	.265	10894	24.3	30	-N			1105	.75	.78	172	
GRP32782 RAMY TEHR CATA	23	1123	1156	1130	N17	E08	.220	10894	24.1	33	--N				.40			3 3 3 4
	23	1122	1142D	1127	N18	E08	.234	10894	24.1	20D	-N		C		.36			DE
	23	1123	1156	1127	N17	E08	.220	10894	24.1	33	-N			1127	.27	.27		
	23	1125	1155	1135	N17	E08	.220	10894	24.1	30	-N			1135	.58	.59	178	
GRP32785 TEHR RAMY	23	1211	1246	1220	N20	W85	.992	10885	17.1	35	--F				.36			2 2 1 6
	23	1206	1250	1218	N20	W84	.990	10885	17.2	44	-N			1218	.36			DE
	23	1215	1241	1222	N20	W85	.992	10885	17.1	26	-F		C					
GRP32789 HUAN TEHR CATA	23	1341	1358	1344	N19	E09	.257	10894	24.2	17	--N				.46			3 3 3 5
	23	1336	1355	1344U	N19	E10	.267	10894	24.3	19	-F	1	C	1344	.37	.40		E
	23	1341	1400	1344	N19	E09	.257	10894	24.2	19	-N			1344	.73	.72		
	23	1345	1400	1345	N20	E09	.270	10894	24.2	15	-N			1345	.29	.30	200	
793 RAMY	23	1504E	1519D		N20	W87	.996	10885	17.1	150	-N		C					DE 4
GRP32795 RAMY CANR BOUL	23	1602	1616	1605	N19	E09	.257	10894	24.3	14	--F				.60			3 3 3 6
	23	1559	1620	1605	N19	E09	.257	10894	24.3	21	-F		C		.83			DE
	23	1602	1615	1604	N19	E09	.257	10894	24.3	13	-F	2	C	1604	.64	.64		
	23	1604	1613	1606	N19	E08	.248	10894	24.3	9	-F	1	C	1606	.32	.32		
GRP32796 RAMY CANR BOUL	23	1609	1628	1612	N20	W84	.990	10885	17.4	19	--N				.27			3 3 2 6
	23	1606	1630	1612	N20	W87	.996	10885	17.1	24	-N		C					DE
	23	1608	1633	1610	N20	W80	.979	10885	17.7	25	-N	2	C	1610	.22	.67		
	23	1614	1621	1615	N19	W84	.990	10885	17.4	7	-N	1	C	1615	.32	1.09		
GRP32801 LOCK BOUL MCMA	23	1810	1827	1816	N14	W04	.140	10888	23.5	17	--N				.48			3 3 2 4
	23	1810	1822	1814	N14	W04	.140	10888	23.5	12	-F							
	23	1810	1824D	1817	N14	W03	.133	10888	23.5	14D	-N	2	C	1817	.54	.54		
	23	1822E	1834D		N13	W04	.126	10888	23.5	12D	-N		P	1823	.41	.40		E
802 MCMA	23	1941E	1950D		S04	W36	.610	10890	21.1	9D	--N		C	1942	.31	.40		D 2
5 STATIONS REPORTING GROUP 32811. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP32811 MITK TEHR CRON	24	0656	0747	0706	N19	W35	.589	10887	21.7	51	--N				.64			3 3 3 6
	24	0651	0737D	0708	N18	W32	.545	10887	21.9	46D	-F		C	0708	.62	.70		E
	24	0654	0750	0704	N19	W33	.563	10887	21.8	56	-N			0704	.73	.77		
	24	0704	0743	0707	N20	W41	.666	10887	21.2	39	-N	2	C	0707	.56	.72		
32811 ISTA CAPS	24	0700	0724	(0718)	N20	W32	.554	10887	21.9	24	*-F				1.10			2 2 1 8
	24	0700	0718		N20	W32	.554	10887	21.9	18	-N							
	24	0716E	0729D		N19	W31	.536	10887	22.0	13D	-F	2	S	0718	1.10	1.20	152	
GRP32823 SANM BOUL RAMY	24	1616	1635	1620	N11	W57	.833	10882	20.4	19	--N				.37			3 3 3 9
	24	1610	1637	1615	N12	W57	.832	10882	20.4	27	-N	2	C		.48	.89		D
	24	1619	1632	1624	N10	W57	.833	10882	20.4	13	-N	1	C	1624	.32	.56		
	24	1619	1635	1622	N12	W56	.823	10882	20.5	16	-F		C		.31			DE
GRP32824 SANM MCMA BOUL	24	1632	1644	1637	S10	E59	.876	10905	29.1	12	-N				.79			3 3 3 8
	24	1609E	1639D		S12	E58	.872	10905	29.0	30D	1F	2	P	1635	1.62	3.05		E
	24	1631	1645		S09	E60	.882	10905	29.2	14	-N		C	1635	.31	.60		E
	24	1632	1643	1637	S10	E58	.868	10905	29.0	11	-N	1	C	1637	.43	.83		

SOLAR FLARES
Confirmed
AUGUST 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 H α	MAX. INT. %		
					LAT.	MER. DIST.													
GRP32827	24	1958	2007	2001	N22	W37	.625	10887	22.1	9	--N							4 4 3 4	
HUAN	24	1957	2005	1959	N22	W37	.625	10887	22.1	8	-N	1	C	1959	.45	.40		E	
LOCK	24	1958	2006	2001	N22	W37	.625	10887	22.1	8	-F								
BOUL	24	1958	2008	2002	N21	W35	.596	10887	22.2	10	-N	1	C	2003	.64	.81		E	
MCMA	24	1959	2009	2000	N21	W37	.621	10887	22.1	10	-N		C	2000	.41	.50			
GRP32829	25	0643	0656	0645	N06	W68	.924	10882	20.2	13	-F				.78			4 4 3 13	
ABST	25	0640	0700	0643	N08	W66	.909	10882	20.3	20	1F		C	0643	1.35		56	EK	
CRON	25	0641	0654	0645	N06	W69	.930	10882	20.1	130	-N	1	C	0645	.23	.49			
MONT	25	0645E	0654	0646	N05	W69	.931	10882	20.1	90	-N		C	0646	.77				
ISTA	25	0645	0656		N05	W68	.925	10882	20.2	11	-F								
GRP32836	25	1559	1624	1605	N20	W19	.383	10894	24.2	25	--N				.51			3 3 2 11	
LOCK	25	1557	1620	1607	N19	W19	.375	10894	24.2	23	-F								
CATA	25	1600	1635	1605	N20	W18	.370	10894	24.3	35	-N			1605	.69	.76	158		
BOUL	25	1601	1618	1604	N20	W19	.383	10894	24.2	17	-N	1	C	1604	.32	.35			
GRP32838	25	1836	1847	1839	N17	W57	.833	10887	21.5	11	--N				.46			3 3 3 5	
RAMY	25	1835	1853	1837	N17	W56	.824	10887	21.6	18	-F		C		.52			DE	
SANM	25	1835	1843	1839	N16	W57	.833	10887	21.5	8	-N	1	C		.65	1.19		D	
MCMA	25	1839	1845	1840	N17	W58	.842	10887	21.4	6	-N		C	1840	.21	.40		D	
GRP32839	25	1912	1939	1915	N19	W20	.388	10894	24.3	27	--N				.63			4 4 3 4	
MCMA	25	1911	1940	1914	N19	W21	.401	10894	24.2	29	-B		C	1914	.52	.60		E	
BOUL	25	1911	1930	1914	N18	W19	.367	10894	24.4	19	-N	2	C	1914	.54	.58			
LOCK	25	1912E	1930	1917	N19	W21	.401	10894	24.2	180	-N							DE	
RAMY	25	1913	1955	1915	N19	W20	.388	10894	24.3	42	-N		C		.83				
GRP32841	25	2347	0003	2352	N15	W35	.577	10888	23.4	16	--F				.32			2 2 1 2	
LOCK	25	2345	0003	2351	N15	W35	.577	10888	23.4	18	-F								
BOUL	25	2348	0000	2352	N14	W34	.561	10888	23.4	120	-F	1	C	2352	.32	.39			
GRP32842	26	0054	0110	0059	N15	E61	.868	10906	30.6	16	--F				.54			2 2 1 3	
LOCK	26	0053	0110	0100	N14	E61	.868	10906	30.6	17	-F								
BOUL	26	0054	01020	0058	N15	E60	.860	10906	30.5	80	-N	1	C	0058	.54	1.07			
GRP32843	26	0335	0355	0337	N14	W36	.588	10888	23.4	20	--F				.51			3 3 3 5	
MANI	26	0335	0345	0337	N14	W37	.602	10888	23.4	100	-F	2		0337	.93	1.18			
TEHR	26	0335	0355	0337	N13	W36	.586	10888	23.4	20	-N			0337	.28	.30			
CRON	26	0335	03420	0336	N14	W35	.574	10888	23.5	70	-F	1	C	0336	.33	.40			
GRP32845	26	0451	0528	0456	N20	W26	.475	10894	24.3	37	-F				1.17			2 2 2 4	
TEHR	26	0451	0525	0456	N18	W26	.463	10894	24.3	34	-F			0456	.55	.56			
ABST	26	0454E	0530	0455	N21	W26	.481	10894	24.3	360	1N		P	0455	1.79	2.10		E	
GRP32848	26	1437	1506	1439	S07	W73	.962	10890	21.1	29	-F				.66			4 4 4 7	
RAMY	26	1431	1530	1437	S08	W73	.963	10890	21.1	59	-F		C		.77			DE	
MEUD	26	1436	1455		S08	W75	.971	10890	21.0	190	-N		C	1440	.72				
TEHR	26	1440	1448	1440	S07	W74	.967	10890	21.1	8	-N			1440	.36	.77			
CAPS	26	1440E	1509		S05	W70	.945	10890	21.4	290	-F	3	V	1440	.78				
32848	26	1454	1517	1454	S08	W76	.975	10890	20.9	23	*-F				.37			2 2 2 7	
BOUL	26	1454E	1508	1454	S07	W77	.978	10890	20.8	140	-N	1	C	1454	.21	.64			
MEUD	26	1504E	1525		S08	W75	.971	10890	21.0	210	-F		C	1504	.52				
	27	0050	0115	NO FLARE PATROL															
	27	0118	0157	NO FLARE PATROL															
851 TACH	27	0353	0357	0355	N22	E90	.999	10913	2.9	4	-N		C	0355	.64		60	D	3
GRP32855	27	1429	1505	1441	N11	W54	.803	10916	23.6	36	-F				.77			6 6 5 10	
CATA	27	1425	1530	1445	N12	W54	.803	10916	23.6	65	-N			1445	.98	1.76	158		
BOUL	27	1429	1458	1438	N12	W55	.813	10916	23.5	29	-N	1	C	1438	.43	.73			
TEHR	27	1430	1449	1438	N12	W55	.813	10916	23.5	19	-N			1438	.41	.56			
SANM	27	1430	1504	1444	N12	W55	.813	10916	23.5	34	1F	1	C		1.29	2.19		E	
CANR	27	1433	1506	1442	N10	W55	.813	10916	23.5	33	-F	1	C	1442	.75	1.28			
CAPS	27	1444E	1500		N10	W50	.760	10916	23.9	160	1F		V						
858 LOCK	27	1938	1953	1941	N21	E84	.990	10913	3.1	15	--F							3	
859 LOCK	27	2023	2032	2027	N21	E84	.990	10913	3.1	9	--F							3	
860 LOCK	27	2055	2115	2100	N21	E84	.990	10913	3.2	20	--F							3	
861 HUAN	27	2207E	2227	2215	N20	E88	.997	10913	3.5	200	--F	1	C	2215	.17			D	3
862 CRON	27	2304	2308		N21	E88	.997	10913	3.6	4	-N	1	V		.30			3	

28
Aug 70

SOLAR FLARES

Confirmed

AUGUST 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.													
GRP32865	28	0417	0443	0425	N20	E79	.975	10913	3.1	26	-N							2 2 2 6	
CULG	28	0414	0454	0426	N19	E78	.972	10913	3.0	40	1N	C	0426	.56				RJ	
TEHR	28	0420	0431	0423	N21	E79	.975	10913	3.1	11	-N		0423	.83					
GRP32868	28	0602	0617	0606	S07	E08	.279	10905	28.9	15	--N			.55				3 3 3 7	
CATA	28	0600	0620	0605	S07	E08	.279	10905	28.9	20	-N		0605	.41	.43		166		
TEHR	28	0603	0614	0606	S07	E09	.288	10905	28.9	11	-N		0606	.45	.45				
CAPS	28	0604	0612D		S07	E07	.271	10905	28.8	8D	-F	V	0610	.80	.80		140		
GRP32869	28	0614	0652	0620	N19	E81	.982	10913	3.3	38	1N			.99				4 3 3 9	
CATA	28	0610	0710	0620	N19	E80	.979	10913	3.3	60	1B		0620	1.16			224		
TEHR	28	0615	0634	0619	N21	E81	.982	10913	3.3	19	-N		0619	.91					
CRON	28	0617	0632U	0620	N17	E80	.980	10913	3.3	15D	1N	2	C	0620	.89	2.61			
ISTA	28	0630	0651		N19	E82	.985	10913	3.4	21	-N								
GRP32873	28	0838	0912	0842	N20	E79	.975	10913	3.3	34	-N			.71				4 4 4 12	
MONT	28	0814	0939	0842	N20	E80	.979	10913	3.3	85	-N		0842	1.55					
ARCE	28	0835E	0840D	0840	N19	E82	.985	10913	3.5	5D	-F	C	0840	.22	.80				
CRON	28	0837	0847	0842	N20	E80	.979	10913	3.4	10	-B	2	C	0842	.33	.97			
MEUD	28	0841	0910	0843	N20	E75	.959	10913	3.0	29	-N		0843	.72					
GRP32875	28	0943	0952	0947	N21	E78	.972	10913	3.3	9	-N			.61				3 2 2 9	
MONT	28	0943	1028	1009	N20	E80	.979	10913	3.4	45	-N	C	1009	1.55					
MEUD	28	0945	0953	0947	N20	E75	.959	10913	3.0	8	-N	C	0947	.83				E	
CAPS	28	0946E	0951		N21	E80	.979	10913	3.4	5D	-N	3	V	0947	.39			189	C
GRP32876	28	1119	1128	1121	N20	E79	.975	10913	3.4	9	-N			.46				5 5 4 8	
CATA	28	1105	1130	1120	N18	E80	.979	10913	3.5	25	-N		1120	.40				166	
WEND	28	1118	1126		N21	E78	.972	10913	3.3	8	-N			.46					
CANR	28	1119	1126		N22	E78	.971	10913	3.3	7	-N	2	C	1122	.32	.91			
CAPE	28	1120	1128	1122	N20	E80	.979	10913	3.5	8	-N	C	1122	.92					
CAPS	28	1121E	1129D		N21	E79	.975	10913	3.4	8D	-N	V	1121	.19				182	C
GRP32877	28	1439	1448	1442	N20	E76	.963	10913	3.3	9	-N			.64				5 5 4 9	
LVOV	28	1438	1449	1443	N20	E72	.944	10913	3.0	11	1B	C	1443	1.03	3.97		77	D	
CANR	28	1439	1450	1442	N20	E78	.972	10913	3.5	11	-N	2	C	1442	.32	.91			
MCHA	28	1440	1447	1442	N20	E78	.972	10913	3.5	7	-B	C	1442					D	
CAPE	28	1440	1449	1442	N20	E77	.968	10913	3.4	9	-N	C	1442	.92					
TEHR	28	1440	1446	1442	N22	E77	.967	10913	3.4	6	-N		1442	.28	.62				
GRP32878	28	1717	1728	1721	N22	E77	.967	10913	3.5	11	-B			.64				2 2 1 3	
BOUL	28	1716	1727	1721	N22	E78	.971	10913	3.6	11	-N	2	C	1721	.64	1.79			
MCHA	28	1717	1729	1721	N21	E75	.959	10913	3.3	12	-B	C	1721					D	
GRP32879	28	1738	1752	1741	N22	E77	.967	10913	3.5	14	--F			.22				2 2 1 3	
MCHA	28	1737	1752	1742	N21	E75	.959	10913	3.4	15	-N	C	1742					D	
BOUL	28	1738	1742U	1740	N22	E78	.971	10913	3.6	4D	-F	1	C	1740	.22	.62			
	28	1811	1821		NO FLARE PATROL														
	28	1830	1843		NO FLARE PATROL														
	28	1853	1912		NO FLARE PATROL														
	28	1936	1940		NO FLARE PATROL														
	28	1946	2006		NO FLARE PATROL														
880 BOUL	28	2007	2015	2011U	N19	E70	.932	10913	3.1	8	--F	1	C	2011	.22	.51			3
	28	2024	2037		NO FLARE PATROL														
	28	2042	2055		NO FLARE PATROL														
	28	2108	2130		NO FLARE PATROL														
GRP32883	29	0314	0327	0318	N19	E68	.920	10913	3.2	13	--N			.47					3 3 3 6
MANI	29	0312E	0318D		N17	E68	.920	10913	3.2	6D	-F	1	0312	.52	1.05				
TEHR	29	0314	0330	0317	N20	E67	.914	10913	3.2	16	-N		0317	.55	.92				
CRON	29	0315	0320	0318	N18	E68	.920	10913	3.2	5	-N	2	V	0318	.33	.71			
MANI	29	0326E	0331D		N19	E69	.926	10913	3.3	5D	-N	1	0327	.52	1.07				
GRP32885	29	0649	0705	0650	N23	E90	.999	10918	5.0	16	-N			.34				3 3 3 8	
MANI	29	0648	0658	0650	N22	E90	.999	10918	5.0	10	-B	2	0650	.52	1.50				
TEHR	29	0648	0656	0651	N24	E90	.999	10918	5.0	8	-B		0651	.27					
CATA	29	0650	0720	0650	N23	E90	.999	10918	5.0	3D	-F		0650	.23				144	

SOLAR FLARES
Confirmed
AUGUST 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 FLARE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg		MAX. INT. %	
924 RAMY	30	1858	1908	1901	N19	E76	.964	10918	5.5	10	--F	C						DE 3	
GRP32925	30	2006	2017	2010	S07	H28	.520	10905	28.7	11	--F			.36				2 2 1 2	
LOCK	30	2004	2017	2009	S06	H27	.500	10905	28.8	13	-F							E	
MOMA	30	2007	2017D	2011	S08	H28	.526	10905	28.7	10D	-F	C	2011	.36	.40			2 2 1 3	
GRP32926	31	0244	0252	0246	N20	E69	.926	10918	5.3	8	-N			.44				7 7 6 11	
CRON	31	0242	0252	0246	N20	E68	.920	10918	5.2	10	-N	2	C	0246	.44	.96			
TEHR	31	0245	0251		N19	E69	.926	10918	5.3	6	-N								
GRP32929	31	0736	0755	0739	N18	E67	.913	10918	5.3	19	-N			.58					
MONT	31	0734	0759	0742	N19	E66	.907	10918	5.3	25	-N	C	0742	.77					
ISTA	31	0735	0745		N18	E68	.920	10918	5.4	10	-N								
CRIM	31	0736E	0753D	0740	N18	E67	.913	10918	5.3	17D	-F	C	0740	.90				I	
CANR	31	0736	0757	0738	N18	E62	.876	10918	5.0	21	-N	2	C	0738	.43	.91			
HTRP	31	0736	0800	0737	N17	E70	.933	10918	5.6	24	-F	C	0737	.41				E	
MEUD	31	0737	0755	0739	N18	E70	.932	10918	5.6	18	-F	C	0739	.52					
CRON	31	0737	0758	0738	N17	E65	.899	10918	5.2	21	-N	2	C	0739	.44	.90			
CRON	31	0737	0758	0744	N17	E65	.899	10918	5.2	21	-N			.44	.90				
GRP32930	31	0922	0938	0930	N20	E68	.920	10918	5.5	16	-N			.79				3 3 3 9	
CATA	31	0915	0930D	0925	N20	E63	.885	10918	5.1	15D	-N			.925	1.15		155		
MONT	31	0924	0932	0926	N21	E65	.900	10918	5.3	8	-N	C	0926	.77					
CANR	31	0927	0937	0928	N21	E70	.932	10918	5.6	10	-F	2	C	0928	.32	.74			
MONT	31	0928	0933	0929	N20	E73	.949	10918	5.9	5	-N	C	0929	.77					
CATA	31	0935E	0945	0935	N19	E69	.926	10918	5.6	10D	-N			.80			170		
GRP32931	31	1106	1119	1108	N17	H55	.814	10903	27.3	13	--F			.35				3 3 3 10	
TEHR	31	1103	1117	1105	N18	H56	.824	10903	27.3	14	-F			.28	.38				
CANR	31	1105	1121	1108	N15	H55	.813	10903	27.3	16	-F	2	C	1108	.32	.55			
CATA	31	1110	1120	1110	N18	H54	.805	10903	27.4	10	-N			.46	.81		157		
GRP32935	31	1616	1623	1618	N18	E65	.899	10918	5.6	7	--F			.49				3 3 3 7	
RAMY	31	1615	1622D	1617	N17	E63	.884	10918	5.4	7D	-F	C		.62				DE	
MEUD	31	1616	1622	1618	N18	E70	.932	10918	5.9	6	-F	C	1618	.52				E	
BOUL	31	1616	1625	1618	N18	E62	.876	10918	5.3	9	-F	1	C	1618	.32	.64			
GRP32937	31	1801	1807	1803	N08	H71	.941	10917	26.4	6	-N			.51				4 4 4 5	
BOUL	31	1800	1807	1803	N07	H71	.942	10917	26.4	7	-F	1	C	1803	.64	1.55			
SANM	31	1801	1805	1803	N08	H69	.929	10917	26.6	4	-B	1	C		.80			D	
CANR	31	1801	1807	1803	N08	H72	.947	10917	26.4	6	-N	1	C	1803	.32	.71			
MOMA	31	1802	1807	1803	N10	H70	.935	10917	26.5	5	-F	C	1803	.26	.80			D	
GRP32939	31	1821	1835	1825	N20	E43	.689	10913	4.0	14	-N			1.28				3 3 2 6	
LOCK	31	1820	1835	1825	N21	E43	.692	10913	4.0	15	-F								
RAMY	31	1820E	1835D	1825	N20	E44	.701	10913	4.1	15D	-N	C		.93				DE	
SANM	31	1822	1835	1826	N20	E43	.689	10913	4.0	13	1N	1	C	1.62	2.25			D	
940 BOUL	31	1958	2005	2001	N09	H75	.962	10917	26.2	7	--F	1	C	2001	.32	.85			3
941 BOUL	31	2035	2105	2041	N15	H57	.832	10903	27.6	30	--F	1	C	2041	.43	.75			3
942 BOUL	31	2146	2155	2149	N19	E64	.892	10918	5.7	9	--F	1	C	2149	.43	.57			3
GRP32943	31	2202	2222	2208	S07	E33	.585	10915	3.4	20	--F			.32				2 2 1 2	
LOCK	31	2200	2218	2208	S07	E32	.572	10915	3.3	18	-F								
BOUL	31	2204	2225D	2208	S07	E33	.585	10915	3.4	21D	-N	1	C	2208	.32	.40			
944 BOUL	31	2226	2231	2227	N19	E62	.877	10918	5.6	5	--F	1	C	2227	.54	1.07			3
945 CRON	31	2355	0000D	2356	N16	H59	.851	10903	27.6	5D	--F	1	C	2356	.11	.20			3

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
700801	94.82	24.0	700812	55.98	24.0	700823	17.94	24.0
700802	1.69	24.0	700813	114.81	24.0	700824	3.29	24.0
700803	9.74	24.0	700814	96.43	23.9	700825	3.21	24.0
700804	0.00	23.8	700815	59.54	24.0	700826	9.52	24.0
700805	14.76	24.0	700816	26.93	24.0	700827	5.78	22.9
700807	23.77	24.0	700817	1.54	24.0	700828	10.89	22.1
700808	15.00	24.0	700818	70.80	23.7	700829	5.17	24.1
700809	15.22	24.0	700819	25.78	24.0	700830	9.11	24.0
700810	36.65	24.0	700820	72.05	24.0	700831	10.11	24.0
700811	12.98	24.0	700822	14.45	24.0			

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

SOLAR FLARES

Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.													
166 CRON	01	0720	0727	0721	N06	W39	.626	10851	29.4	7	-N	3	C	0721	.23	.28			11
GRP32167	01	0824	0833	0826	N25	W58	.854	10846	28.0	9	-B				.33				2 2 1 10
CRON	01	0824	0831	0826	N25	W58	.854	10846	28.0	7	-N	3	C	0826	.33	.59			
ONDR	01	0825E	0835		N25	W57	.846	10846	28.1	10D	-B		V	0828			2.90		CE
168 CRON	01	0828	0834	0830	N20	W65	.903	10846	27.5	6	-N	3	C	0830	.23	.46			10
169 CRON	01	0857	0904	0900	N25	W58	.854	10846	28.0	7	-N	3	C	0900	.33	.59			11
GRP32170	01	0920	0932	0923	N25	W58	.854	10846	28.0	12	-F				.41				2 2 2 9
MONTE	01	0920	0931	0923	N25	W60	.870	10846	27.9	11	-N		C	0923	.41				
CAPS	01	0921E	0932D		N25	W55	.829	10846	28.3	11D	-F		V	0925	.40	.70		147	
171 CAPS	01	1021E	1044D		N06	E90	1.000	10863	8.2	23D	-N		V						10
177 RAMY	01	1643	1702	1646	N05	W44	.692	10851	29.4	19	-F		C		.93				DE 8
178 CANR	01	1644	1704	1647	N05	W31	.513	10852	30.4	20	-N	1	C	1647	.64	.76			8
179 RAMY	01	1652	1708	1656	N19	E63	.888	10861	6.4	16	-F		C		.41				DE 6
180 LOCK	01	2358	0040	0015	N13	E41	.657	10860	5.1	42	-F								4
181 CRON	02	0109	0127	0113	N13	E41	.656	10860	5.1	18	-F	3	C	0113	.23	.30			5
182 CRON	02	0241	0247	0243	N26	W71	.942	10846	27.8	6	-N	3	C	0243	.33	.77			4
184 CRON	02	0341	0347	0344	N26	W71	.942	10846	27.8	6	-N	3	C	0344	.23	.53			4
186 TEHR	02	0621	0641	0623	S08	E90	1.000	10871	9.0	20	-F		C		.28				10
187 CRON	02	0623	0641		N03	E85	.996	10863	8.6	18	-F	1	V		.20				10
GRP32189	02	0825	0834	0828	N03	E81	.987	10863	8.4	9	-F				.35				2 2 2 11
CRON	02	0824	0835	0828	N02	E79	.981	10863	8.3	11	-F	3	C	0828	.33	.97			
TEHR	02	0825	0832	0827	N03	E83	.992	10863	8.6	7	-F		C		.36				
193 CRON	03	0500E	0508	0501	N27	W84	.990	10846	27.9	8D	-N	2	C	0501	.33	1.06			5
194 CRON	03	0545	0640	0553	N16	E83	.989	10865	9.5	55	-F	2	C	0553	.23	.73			7
195 CRON	03	0613	0630	0617	S11	E42	.708	10864	6.4	17	-N	2	V	0617	.33	.46			8
196 MEUD	03	0930	1055		N12	E23	.399	10860	5.1	85	-F		C						8
GRP32197	03	1028	1036	1030	N02	E65	.906	10863	8.3	8	-B				.31				2 2 1 9
MEUD	03	1025	1036	1030	N02	E65	.906	10863	8.3	11	-N		C	1030	.31				D
WEND	03	1030	1035		N02	E64	.898	10863	8.2	5	-B								
198 HUAN	03	1245E	1248	1246U	N13	E21	.373	10860	5.1	30	-F	1	C	1246	.17	.20			D 10
199 HUAN	03	1334	1354D	1344	N13	E21	.373	10860	5.1	20D	-F	1	C	1344	.21	.20			E 9
200 CANR	03	1349	1402	1350	N19	E83	.989	10865	9.8	13	-F	1	C	1351	.22	.73			10
201 HUAN	03	1412	1502	1424U	N13	E21	.373	10860	5.2	50	-F	1	P	1424	.14	.20			D 10
GRP32202	03	1438	1449	1439	S11	W44	.731	10853	31.3	11	-F				.35				2 2 2 9
RAMY	03	1437	1450	1438	S11	W43	.720	10853	31.4	13	-F		C		.26				
CANR	03	1438	1448	1439	S11	W45	.742	10853	31.2	10	-F	2	C	1439	.43	.65			DE
GRP32203	03	1511	1541	1516	N05	W74	.959	10851	29.1	30	-F				.32				2 2 2 10
RAMY	03	1510	1540	1514	N05	W75	.964	10851	29.0	30	-F		C		.31				DE
CANR	03	1512	1542	1517	N04	W72	.949	10851	29.2	30	-N	2	C	1517	.32	.81			
204 HUAN	03	1525	1539	1530	N13	E21	.373	10860	5.2	14	-F	1	C	1530	.14	.20			E 10
205 MEUD	03	1614	1622		N16	E90	1.000	10865	10.4	8	-F		C						9
207 CANR	03	1713	1736	1723	N18	E80	.981	10865	9.7	23	-F	1	C	1723	.22	.67			5
208 LOCK	03	2115	2140	2130	N30	W90	.999	10846	28.1	25	1F								5
209 TEHR	04	0725	0735	0727	N08	W57	.835	10852	31.0	10	-F		C		.45				11
210 ONDR	04	1230E	1244D		N19	E66	.909	10865	9.5	14D	1N		V	1243			2.60		C 10

SOLAR FLARES

Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP32211	04	1240	1258	1244	N08	W59	.853	10852	31.1	18	-F								2 2 2 10
CANR	04	1239	1252	1244	N08	W59	.853	10852	31.1	13	-N	2	C	1244	.29	.41			
TEHR	04	1240	1303	1243	N08	W59	.853	10852	31.1	23	-F		C		.22				
212 MONT	04	1305	1316	1309	N08	W59	.853	10852	31.1	11	-N		C	1309	1.55				8
213 HUAN	04	1719	1748	1737	N14	E06	.173	10860	5.2	29	-F	1	C	1737	.17	.20			D 5
214 HUAN	04	1720	1735	1722	N17	E65	.902	10865	9.6	15	-F	1	C	1722	.21	.40			E 4
221 CANR	05	1653	1720		N15	E60	.862	10865	10.2	27	-N	2	V		.40	.70			5
223 KODA	06	0222	0228	0228	N19	E47	.737	10865	9.6	6	-N		V	0224	.96	.96	1.36		CD 4
226 CATA	06	0610E	0640	0630	N10	W90	1.000	10852	30.5	300	1N			0630	1.04			126	A 11
227 CANR	06	0823	0831	0825	N18	E41	.665	10865	9.4	8	-F	1	C	0825	.22	.30			11
228 CANR	06	0830	0930		N20	E33	.572	10865	8.8	60	-F	3	V		.60	.80			11
GRP32229	06	0944	0953	0948	N17	E41	.663	10865	9.5	9	-F				.20				2 2 2 9
CANR	06	0942	0951	0945	N18	E41	.665	10865	9.5	9	-F	1	C	0945	.22	.30			
CATA	06	0945	0955	0950	N16	E40	.648	10865	9.4	10	-N			0950	.17	.23		178	
230 CANR	06	1001U	1020U	1002U	S19	E79	.989	10872	12.3	190	-F	1	C	1002	.22	.73			9
GRP32231	06	1317	1327	1320	N16	E43	.685	10865	9.8	10	-F				.22				2 2 2 14
RAMY	06	1316	1327	1318	N16	E43	.685	10865	9.8	11	-F		C		.21				DE
BOUL	06	1318	1326	1322	N16	E43	.685	10865	9.8	8	-N	2	C	1323	.22	.30			
232 CANR	06	1334U	1351U	1335U	S18	E76	.981	10872	12.3	170	-F	1	C	1335	.22	.68			13
234 WEND	06	1410E	14460		S19	E79	.989	10872	12.5	360	1N		V		4.13				12
235 WEND	06	1424	1450		S07	E28	.513	10871	8.7	26	1F		V		3.09				12
GRP32237	06	1607	1615	1610	N19	E37	.619	10865	9.4	8	-F				.42				2 2 2 10
BOUL	06	1605	1614	1610	N19	E37	.619	10865	9.4	9	-F	2	C	1610	.42	.55			
MEUD	06	1608	1615	1609	N18	E37	.616	10865	9.4	7	-F		C	1609	.41	.50			D
239 BOUL	06	1837	1845	1837U	S05	E23	.431	10871	8.5	8	-F	2	C	1837	.64	.70			4
240 LOCK	06	2055	2105	2058	S09	E22	.448	10871	8.5	10	-F								4
244 MONT	07	0706	0814	0729	S06	E18	.370	10871	8.6	68	1N		C	0729	3.09				H 11
246 CANR	07	0822	0822D		N07	E19	.324	10865	8.8		-N	2	V		.60	.60			10
247 ARCE	07	0826	0835	0830	N18	E30	.523	10865	9.6	9	-N		C	0830	.86	1.00			9
248 RAMY	07	1109E	1116	1109U	N16	E31	.529	10865	9.8	70	-F		C		.62				DE 9
GRP32250	07	1225	1306	1226	S05	E15	.320	10871	8.6	41	-F				.36				2 2 1 9
TEHR	07	1224	1236	1226	S05	E16	.334	10871	8.7	12	-F		V						
RAMY	07	1225	1335	1226	S05	E14	.307	10871	8.6	70	-N		V		.36				DE
252 RAMY	07	1433E	14450		S03	E16	.316	10871	8.8	120	-F		V						DE 9
253 LOCK	07	1503E	1515	1503	S06	E12	.294	10871	8.5	120	-F								9
254 LOCK	07	1615	1630	1620	S06	E12	.294	10871	8.6	15	-F								4
255 LOCK	07	1638	1643	1640	S06	E12	.294	10871	8.6	5	-F								5
260 LOCK	07	2013	2025	2017	N16	E24	.430	10865	9.6	12	-F								4
263 CRON	08	0045	0058	0047	N14	E24	.420	10865	9.8	13	-F	2	C	0047	.23	.24			4
264 CRON	08	0104	0120	0111	N14	E24	.420	10865	9.8	16	-F	2	C	0112	.10	.11			4
265 TEHR	08	0316	0331	0320	N16	E65	.901	10868	13.0	15	-F		C		.28				7
266 KODA	08	0328E	0338	0328	N13	W42	.668	10860	5.0	100	-N		P	0334	1.75	1.80	1.84		CO 7
268 CRON	08	0443	0453	0446	S07	E07	.258	10871	8.7	10	-F	1	C	0447	.11	.11			6
270 ISTA	08	0604	0615		N20	W53	.800	10860	4.3	11	-N								7
271 CATA	08	0715	0720	0715	N17	E51	.777	10868	12.1	5	-B			0715	.40	.64		204	10

SOLAR FLARES

Unconfirmed

AUGUST 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 Hg		MAX. INT. %
					LAT.	MER. DIST.												
272 MONT	08	0739	0804	0744	N18	E20	.387	10865	9.8	25	-F	C	0744	.77				11
273 CATA	08	1115	1150	1115	N17	E17	.339	10865	9.7	35	-N		1115	.46	.49	174	T	6
GRP32275	08	1402	1408	1402	N19	E53	.799	10868	12.6	6	-F			.34				2 2 2 8
TEHR	08	1400	1406	1402	N19	E50	.769	10868	12.3	6	-F	C		.28				
CANR	08	1403	1409		N18	E55	.818	10868	12.7	6	-N	3	V	.40				
277 RAMY	08	1421	1430	1423	N19	E52	.789	10868	12.5	9	-F		V	.31				DE 8
278 CANR	08	1509	1520	1512	N21	E50	.772	10868	12.4	11	-N	1	C	1512	.22	.35		8
280 RAMY	08	1814	1826D	1818U	N17	E15	.312	10865	9.9	12D	-F		V	.67				DE 4
GRP32287	09	0630	0649	0631	N18	W01	.203	10865	9.2	19	-F			.36				2 2 2 7
MANI	09	0629	0658	0631	N17	W01	.186	10865	9.2	29	-N	2		0631	.41	.42		
CRON	09	0630	0640		N18	W01	.203	10865	9.2	10	-F	2	V	.30				
GRP32290	09	0831	0925	0835	N18	W02	.206	10865	9.2	54	-N			.41				2 1 1 7
MANI	09	0831	0925	0835	N18	W02	.206	10865	9.2	54	-N	2		0835	.41	.42		
CATA	09	0925	1025D	0935	N10	W01	.067	10865	9.3	60D	-N			0935	.58	.58	162	
292 BOUL	09	1731	1751D	1742	N20	E31	.545	10868	12.1	20D	-F	1	C	1742	.75	.80		4
301 TEHR	10	0354	0408	0357	N08	W70	.936	10860	4.9	14	-F			0357	.28	.47		6
GRP32305	10	0718	0730	0719	N21	E30	.538	10868	12.6	12	-F			.31				2 2 2 12
CRON	10	0716	0730	0718	N21	E30	.538	10868	12.6	14	-F	2	C	0718	.44	.51		
CATA	10	0720	0730	0720	N20	E29	.519	10868	12.5	10	-N			0720	.17	.20	164	
307 TEHR	10	0952	1023	0959	N11	W75	.962	10860	4.8	31	-N			0959	.45	.96		6
308 HTPR	10	1010	1025	1010	N18	W18	.359	10865	9.1	15	-F		C	1010	.93	.90		7
GRP32310	10	1238	1259	1247	N18	W19	.373	10865	9.1	21	-F			.55				2 2 2 12
BOUL	10	1233	1258	1248	N18	W18	.359	10865	9.2	25	-N	1	C	1248	.65	.69		
TEHR	10	1243	1300	1246	N18	W19	.373	10865	9.1	17	-F			1246	.45	.45		
313 RAMY	10	1658	1718	1703	N20	E18	.377	10868	12.1	20	-F		C	.52				DE 8
314 CANR	10	1715	1721	1717	S17	E23	.539	10872	12.4	6	-F	1	C	1717	.43	.51		7
316 LOCK	10	1850	1905	1855	N20	W23	.441	10865	9.1	15	-F							5
319 LOCK	10	1924	1935	1928	N20	E15	.341	10868	11.9	11	-F							5
320 RAMY	10	1934	1940D	1935	N19	W20	.394	10865	9.3	6D	-F		C	.83				DE 5
325 TEHR	11	0739	0745	0740	N20	E17	.364	10868	12.6	6	-N		V	0740				9
327 CRON	11	0825	0836	0827U	N20	E16	.352	10868	12.6	11	-F	1	C	0827	.33	.34		12
328 CANR	11	1013	1020	1014	N19	E04	.228	10868	11.7	7	-F	1	C	1014	.22	.22		12
GRP32329	11	1157	1214	1201	N18	W29	.508	10865	9.3	17	-F			.28				2 2 2 11
CATA	11	1155	1215	1200	N18	W29	.508	10865	9.3	20	-N			1200	.29	.33	176	
RAMY	11	1159	1213	1202	N18	W28	.495	10865	9.4	14	-F		V	.26				DE
331 RAMY	11	1234	1253	1237	N19	E05	.233	10868	11.9	19	-F		V	.57				DE 10
332 RAMY	11	1332	1335D	1334U	N20	E05	.249	10868	11.9	3D	-F		V	.41				DE 10
335 RAMY	11	1401	1414	1403	N05	E48	.740	10876	15.2	13	-F		V	.31				DE 10
336 RAMY	11	1514	1525	1516	N05	E48	.740	10876	15.2	11	-F		V	.21				DE 9
338 MCMA	11	1627	1655	1635	N16	W33	.555	10865	9.2	28	-F		C	1635	.52	.60		E 8
339 SANM	11	1715E	1752D		N17	W34	.572	10865	9.2	37D	-N	2	P	1730	1.13	1.37		E 7
340 LOCK	11	1720	1745	1730	N20	E00	.235	10868	11.7	25	-F							7
342 LOCK	11	2005	2025	2010	N18	W38	.627	10865	9.0	20	-F							4
349 TEHR	12	0355	0412	0357	N17	W44	.698	10865	8.9	17	-F			0357	.36	.43		4
351 TEHR	12	0453	0506	0455	N17	W45	.709	10865	8.8	13	-F			0455	.28	.32		4
353 HTPR	12	0553	0603	0558	N19	W44	.702	10865	8.9	10	-F		C	0558	.83	1.10		9

SOLAR FLARES
Unconfirmed
AUGUST 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 REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
423 HUAN	13	1603	1614	1609	N17	W62	.878 10865	9.0	11	-F 1	C	1609	.14	.30			D	12
426 MCMA	13	1730	1736	1731	N18	W25	.453 10868	11.9	6	-N	C	1731	.26	.30			DH	5
427 CANR	13	1747	1802		N08	E86	.996 10882	20.2	15	-N 1	V		.10	.40				6
434 CRON	13	2328	0014		N18	W65	.901 10865	9.1	46	-F 1	V		.80					3
435 CRON	13	2344	2350		N17	W55	.816 10865	9.9	6	-F 2	V		.40					3
438 CRON	14	0113	0120	0116	N19	W56	.827 10865	9.9	7	-F 1	C	0116	.33	.56				4
GRP32442	14	0549	0609	0551	N17	W71	.939 10865	8.9	20	-N			.28				2 1 1	7
TEHR	14	0549	0604	0551	N16	W70	.934 10865	9.0	15	-N		0551	.28	.47				
ISTA	14	0600	0614		N18	W72	.945 10865	8.8	14	-N								
444 ISTA	14	0625	0638		S12	E66	.928 10880	19.2	13	-F								13
446 CRON	14	0818	0824	0820	S13	E61	.896 10880	18.9	6	-F 2	C	0820	.23	.46				10
448 CRON	14	0848	0857	0850	N07	E83	.991 10882	20.6	9	-N 2	C	0850	.23	.73				9
449 ONDR	14	0901E	0907		N14	W70	.934 10865	9.1	60	-F	V	0904			1.80		CD	8
GRP32450	14	0914	0933	(0915)	N18	W70	.934 10865	9.1	19	2N			.40				2 1 1	10
ONDR	14	0914E	0932		N17	W70	.934 10865	9.1	180	2N	V	0915			3.30		CJ	
CRON	14	0928	0934		N19	W70	.934 10865	9.1	6	-N 2	V		.40					
451 MEUD	14	1006	1015	1012	N18	W70	.934 10865	9.2	9	-F	C	1012	.62				C	7
452 RAMY	14	1028	1052	1032	N20	W37	.620 10868	11.7	24	-F	C		.31				DE	9
GRP32453	14	1055	1105	1100	N18	W71	.939 10865	9.1	10	-B			.58				2 2 1	9
CATA	14	1055	1105	1100	N20	W73	.950 10865	9.0	10	-B		1100	.58			219	T	
ONDR	14	1056E	11020		N15	W68	.921 10865	9.4	60	1N	V	1057			2.50		DCF	
455 ONDR	14	1146E	1153		N15	W72	.945 10865	9.1	70	-B	V	1147			2.70		DCF	9
GRP32457	14	1158	1216	1201	S13	E61	.896 10880	19.1	18	-F			.83				2 2 2	10
RAMY	14	1156	1216	1200	S13	E58	.873 10880	18.8	20	-F	C		.62				DE	
LVOV	14	1200	1215	1202	S13	E63	.910 10880	19.2	15	1F	C	1202	1.03	2.58		52	EG	
461 RAMY	14	1310	1325	1313	N06	E75	.964 10882	20.2	15	-F	C		.41				DE	12
463 RAMY	14	1323	1332	1326	S06	W85	.997 10871	8.2	9	-F	C		.52				DE	12
464 BOUL	14	1356	1437	1410	N05	E74	.959 10882	20.1	41	1F 1	C	1410	1.40	3.60				10
465 RAMY	14	1407E	1430	1407E	S09	E52	.810 10880	18.5	230	-N	V		.31				DE	10
472 SANM	14	1830	1901	1835	N20	W31	.544 10868	12.4	31	-B 2	C		.32	.38			DZ	5
474 MITK	15	0017E	0025	0018	S09	W16	.380 10875	13.8	80	-F	C	0018	.83	.90			E	5
476 CRON	15	0210	0215		N18	W83	.989 10865	8.9	5	-N 1	V		.40					3
477 CRON	15	0214	0220		S09	W19	.416 10875	13.7	6	-N 1	V		.30					4
478 TEHR	15	0217	0241	0221	N14	W82	.987 10865	8.9	24	-N		0221	.27					4
479 TEHR	15	0256	0258	0258	N22	W36	.615 10868	12.4	2	-F		0258	.36	.40				4
480 CRON	15	0258	0307U	0259U	N18	W77	.969 10865	9.3	90	-F 1	C	0259	.11	.31				4
484 TACH	15	0423	0440	0428	N18	W80	.980 10865	9.2	17	-N	C	0428	.55		2.20	54	ETY	4
486 CRON	15	0453	0459		N18	W85	.993 10865	8.8	6	-F 2	V		.40					4
GRP32490	15	0740	0748	0742	N22	W40	.663 10868	12.3	8	-F			.34				2 2 2	9
HTPR	15	0740	0745	0741	N21	W39	.648 10868	12.4	5	-F	C	0741	.41	.50				
TEHR	15	0740	0751	0742	N22	W40	.663 10868	12.3	11	-F		0742	.27	.31				
493 CRON	15	0855	0912	0857	N18	W85	.993 10865	9.0	17	-N 1	V		.30					7
494 CRON	15	0906	0913	0906	S17	E09	.427 10883	16.1	7	-N 1	V		.30					8
496 CANR	15	1009	1019	1014	N19	W84	.991 10865	9.1	10	-N 2	C	1014	.22	.73				8

SOLAR FLARES

Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE 1970 AUG	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. %			
GRP32499	15	1119	1130	1120	S11	E46	.755	10880	18.9	11	-B							2 2 2 6		
TEHR	15	1118	1134	1119	S11	E47	.766	10880	19.0	16	-N	1119	.45	.56						
CATA	15	1120	1125	1120	S11	E45	.745	10880	18.8	5	-B	1120	.58	.87			234	E		
GRP32504	15	1345	1415	1345	N17	W90	.999	10865	8.8	30	1N		.58					2 1 1 8		
CATA	15	1345	1415	1345	N17	W90	.999	10865	8.8	30	1N	1345	.58				170			
TEHR	15	1356	1413	1359	N14	W90	1.000	10865	8.8	17	-F	1359	.27							
507 LVOV	15	1434	1444	1435	N22	W43	.697	10868	12.4	10	1F	C	1435	1.55	2.16		51	E	8	
508 LVOV	15	1435	1510	1448	S17	E03	.404	10883	15.8	35	1B	C	1448	1.86	2.06		67	E	7	
510 RAMY	15	1446	15080	1449	N18	W87	.996	10865	9.1	220	-N	C						DE	7	
511 MCMA	15	1520	1537	1528	N15	W90	1.000	10865	8.9	17	-N	C	1528						5	
512 RAMY	15	1606	16210	1610	N22	W44	.708	10868	12.4	150	-F	C		.41				DE	5	
515 RAMY	15	1710	1737	1714	N09	E60	.861	10882	20.2	27	-F	C		.93				DE	5	
516 RAMY	15	1817	1839	1820	N21	W44	.706	10868	12.5	22	-F	C		.52				DE	4	
517 RAMY	15	1852	1918	1856	N19	W88	.998	10865	9.2	26	-N	C						DE	4	
529 MANI	15	2345E	23540		N18	W86	.995	10865	9.5	90	-N	1	2348	.31	.78				3	
533 TEHR	16	0223	0235	0225	N20	W51	.779	10868	12.3	12	-N		0225	.28	.35				4	
534 CRON	16	0225	0240		S08	W35	.614	10875	13.5	15	-N	1	V		.30				4	
535 TEHR	16	0313	0336	0315	N19	W60	.862	10868	11.6	23	-F		0315	.45	.67				5	
536 TACH	16	0332	0350		N16	W90	.999	10865	9.4	18	-N	C	0332	.73		2.80	72	DY	6	
538 TEHR	16	0423	0444	0425	N20	W54	.809	10868	12.1	21	-F		0425	.28	.36				5	
541 CRON	16	0518	0528	0520	S16	W03	.389	10883	16.0	10	-F	1	C	0520	.56	.58				5
542 CRON	16	0534	0544	0538	S15	W03	.373	10883	16.0	10	-N	1	C	0538	.44	.46				6
GRP32543	16	0540	0600	0550	N17	W90	.999	10865	9.5	20	1N			.63				2 1 1 8		
CATA	16	0540E	0600	0550	N17	W90	.999	10865	9.5	200	1N		0550	.63			162	AT		
ISTA	16	0600	0800	0655	N17	W90	.999	10865	9.5	120	1B									
545 TEHR	16	0640	0656	0643	S17	W07	.417	10883	15.8	16	-N		0643	.36	.37				8	
547 CRON	16	0800	0805		N08	E56	.824	10882	20.5	5	-N	1	V		.20				9	
GRP32549	16	1019	1037	1019	N18	W90	.999	10865	9.7	18	-F			.46				2 1 1 6		
HERS	16	1019E	10270	1019	N17	W90	.999	10865	9.7	80	-F		1019	.46				AD		
CANR	16	1025	1047		N18	W90	.999	10865	9.7	22	-N	2	V		.15	.60				
550 TEHR	16	1028	1035	1030	N08	W16	.274	10876	15.2	7	-N		1030	.28	.27				6	
552 RAMY	16	1105	1119	1108	N17	W90	.999	10865	9.7	14	-N	C						DE	6	
GRP32553	16	1112	1123	1115	N25	W61	.874	10868	11.9	11	-F			.31				2 2 1 6		
RAMY	16	1112	1123	1115	N23	W62	.880	10868	11.8	11	-N	C		.31				DE		
CAPS	16	1116E	11220		N26	W60	.868	10868	12.0	60	-F	3	V							
554 CATA	16	1140	1155	1145	N17	W90	.999	10865	9.7	15	1N		1145	.93			186	A	6	
556 RAMY	16	1241	1304	1244	N20	W53	.799	10868	12.6	23	-F	C		.31				DE	6	
GRP32557	16	1252	1339	1258	N07	E54	.805	10882	20.6	47	-F			.43				2 2 2 7		
TEHR	16	1248	1353	1256	N08	E52	.783	10882	20.4	65	-F		1256	.45	.59					
RAMY	16	1256	1325	1259	N06	E55	.816	10882	20.7	29	-F	C		.41				DE		
558 RAMY	16	1323	1345	1327	N17	W90	.999	10865	9.8	22	-F	C						DE	9	
GRP32559	16	1432	1443	1435	N16	W87	.997	10865	10.1	11	-N			.22				2 2 1 8		
CANR	16	1432	1443	1435U	N16	W84	.991	10865	10.3	11	-N	1	C	1435	.22	.73			DE	
RAMY	16	1435E	1443	1435	N16	W90	.999	10865	9.9	80	-N	C								
560 TEHR	16	1442	1458	1444	N16	E90	.999	10888	23.4	16	-N		1444	.28					7	
561 RAMY	16	1513	1525	1515	N18	W90	.999	10865	9.9	12	-F	C						DE	8	
563 RAMY	16	1611	1627	1615	N18	W90	.999	10865	9.9	16	-N	C						DE	6	

SOLAR FLARES
Unconfirmed
AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS			
	DATE 1970 AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %				
565 BOUL	16	1744	1748	1746	S17	W12	.446	10883	15.8	4	-N	1	C	1747	.22	.24			4		
568 LOCK	16	1948	2010	1955	N19	W90	.999	10865	10.1	22	-F								4		
572 VORO	16	2357	0000	2358	S09	E28	.530	10880	19.1	3	-B		C	2358	1.02	1.20	87	EJ	4		
574 CRON	17	0229	0240		N08	E35	.570	10882	19.7	11	-N	2	V		.30				4		
575 CRON	17	0241	0247		S10	W36	.637	10875	14.4	6	-F	2	V		.40				4		
576 CRON	17	0242	0247		N13	E80	.981	10888	23.1	5	-F	2	V		.20				4		
579 CULG	17	0411	0432	0416	N21	W63	.886	10868	12.4	21	1N		C	0416	1.13	2.48			5		
580 CRON	17	0631	0638	0633U	N20	W68	.921	10868	12.2	7	-F	1	C	0634	.33	.81			8		
583 MONT	17	0906	0914	0908	N22	W69	.927	10868	12.2	8	-N		C	0908	.77				9		
GRP32584	17	0919	0935	0923	N10	E41	.652	10882	20.5	16	-N				.32			2	2	2	8
MEUD	17	0918	0935	0923	N09	E41	.652	10882	20.5	17	-N		C	0923	.31	.40					
CRON	17	0919	0928D	0922	N10	E40	.639	10882	20.4	9D	-N	1	C	0922	.33	.42					
587 RAMY	17	1058	1135	1105	N12	E80	.981	10888	23.5	37	-N		C						DE	8	
GRP32588	17	1123	1158	1132	S10	W51	.804	10875	13.6	35	-N				.36			2	1	1	8
TEHR	17	1123	1158	1132	S10	W51	.804	10875	13.6	35	-N			1132	.36	.47					
CATA	17	1140E	1210	1150	S08	W53	.818	10875	13.5	30D	-N			1150	.63	1.11	178				
590 MCMA	17	1151	1157	1154	N10	E39	.625	10882	20.4	6	-N		C	1154	.21	.30		D		7	
593 BOUL	17	1332	1350	1333	N08	E37	.598	10882	20.3	18	-F	2	C	1333	.54	.68				7	
GRP32595	17	1503	1757		N12	E37	.600	10882	20.4	174	-F				.26			2	2	1	9
RAMY	17	1503	1607D	1508	N08	E37	.598	10882	20.4	64D	-N		C		.62			DE			
RAMY	17	1522	1758	1526	N10	E38	.612	10882	20.5	156	-F		C		.26			DE			
LOCK	17	1748	1755	1750	N14	E36	.589	10882	20.4	7	-F										
597 RAMY	17	1635	1702	1639	N23	W69	.928	10868	12.5	27	-F		C		.41			DE		8	
GRP32598	17	1653	1705	1657	N03	E42	.669	10890	20.9	12	-F				.52			2	2	1	8
RAMY	17	1651	1708	1657	N02	E42	.671	10890	20.9	17	-F		C		.52			DE			
LOCK	17	1654	1701	1657	N04	E41	.655	10890	20.8	7	-F										
599 LOCK	17	1705	1740	1712	N22	W69	.927	10868	12.5	35	-F									7	
600 BOUL	17	1712	1752	1752	S10	W56	.850	10875	13.5	40	-F	1	C	1752	.54	1.00				6	
601 CANR	17	1742	1747	1744	S15	E80	.991	10889	23.7	5	-F	1	C	1744	.11					6	
602 LOCK	17	1835	1845	1837	N07	E33	.541	10882	20.2	10	-F									4	
603 BOUL	17	1846	1855	1846	N07	E34	.556	10882	20.3	9	-F	1	C	1847	.64	.77				4	
604 BOUL	17	1856	1906	1900	N22	W69	.927	10868	12.6	10	-F	1	C	1901	.22	.50				4	
GRP32613	18	0535	0650	(0602)	S17	W32	.637	10883	15.8	75	-F				1.55			2	2	1	10
HTPR	18	0535	0715		S17	W33	.648	10883	15.8	100	-F		C	0602	1.55	1.90					
ISTA	18	0600	0625		S16	W31	.619	10883	15.9	25	-N										
614 ISTA	18	0600	0608		N13	E69	.928	10888	23.4	8	-N									10	
615 ISTA	18	0621	0630		S10	W64	.913	10875	13.5	9	-N									11	
616 CRIM	18	0645	0659D		N14	E70	.934	10888	23.5	14D	-F		C	0647	.63			E		12	
619 TEHR	18	0953	1005	0957	S17	W37	.690	10883	15.6	12	-N			0957	.28	.30				9	
620 ONDR	18	1045E	1100D		S09	W64	.911	10875	13.6	15D	1F		V	1045			3.00	CE		12	
622 TEHR	18	1142	1155	1143	N19	W79	.976	10868	12.6	13	-F			1143	.45	1.04				8	
GRP32623	18	1159	1218	1202	N24	W83	.987	10868	12.3	19	-N				.52			2	2	1	12
RAMY	18	1157	1223	1202	N23	W85	.992	10868	12.1	26	-N		C					DE			
UCCL	18	1201	1212	1201	N25	W80	.979	10868	12.5	11	-N		C	1201	.52			D			
624 RAMY	18	1207	1230	1212	N08	E88	.999	10896	25.1	23	-N		C					DE		12	
626 HUAN	18	1315	1326	1323	N21	W90	.999	10868	11.8	11	-N	2	C	1323	.25			D		9	

SOLAR FLARES Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	OMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
GRP32627 TEHR CANR	18	1328	1343	1330	S10	E05	.301	10880	18.9	15	-F							2 2 2 10
	18	1328	1346	1330	S09	E04	.280	10880	18.9	18	-N		1330	.32	.27			
	18	1328	1340		S10	E05	.301	10880	18.9	12	-F	3 V		.35	.40			
628	RAMY	18	1359	1413	1401	N07	E24	.404	10882	20.4	14	-N	C		.36			DE 8
629	RAMY	18	1433	1447	1436	S12	W49	.790	10883	14.9	14	-F	C		.26			DE 9
630	BOUL	18	1627	1632	1627	N15	E65	.900	10888	23.6	5	-F	1 C	1628	.43	.89		7
634	RAMY	18	1803	1812		N21	W90	.999	10868	12.0	9	-N	C					DE 4
635	RAMY	18	1808	1818E	1812	S08	W70	.947	10875	13.5	10D	-F	C					DE 4
636	BOUL	18	1835	1840	1835	N09	E19	.325	10882	20.2	5	-N	2 C	1835	1.61	1.71		3
646	CRON	18	2314	2321		N21	W87	.996	10868	12.4	7	-N	1 V		.30			4
647	CRON	18	2358	0015		N21	W87	.996	10868	12.5	17	-N	1 V					5
649	CRON	19	0450	0501	0453	N11	E17	.297	10882	20.5	11	-F	1 C	0453	.23	.22		5
650	CRON	19	0501	0506	0502	N06	E16	.274	10882	20.4	5	-F	1 C	0502	.56	.54		5
651	CRON	19	0502	0507D	0503	N22	E33	.577	10887	21.7	5D	-F	1 C	0503	.23	.27		5
GRP32652 TEHR CRON	19	0541	0551	0545	N08	E17	.291	10882	20.5	10	-N			.70				2 2 2 8
	19	0540	0553	0545	N09	E17	.292	10882	20.5	13	-F		0545	.28	.27			
	19	0541	0549	0544	N07	E16	.274	10882	20.4	8	-B	1 C	0544	1.11	1.08			
653	ISTA	19	0631	0637		N10	E16	.278	10882	20.5	6	-F						11
654	CRON	19	0648	0704	0653	N15	E57	.833	10888	23.6	16	-N	1 C	0653	.33	.56		11
656	CRON	19	0733	0738	0734	S18	W46	.785	10883	15.9	5	-N	1 C	0734	.33	.52		14
GRP32657 CRON TEHR	19	0740	0748	0742	S16	W05	.396	10880	18.9	8	-N			.61				2 2 2 12
	19	0740	0747	0741	S16	W06	.400	10880	18.9	7	-N	1 C	0741	.77	.82			
	19	0740	0749	0742	S15	W04	.377	10880	19.0	9	-N		0742	.45	.45			
658	CRON	19	0815	0824	0817	S18	W46	.785	10883	15.9	9	-F	1 C	0817	.33	.52		14
659	CRON	19	0835	0850	0840	S18	W46	.785	10883	15.9	15	-F	1 C	0840	.56	.89		14
663	CAPS	19	1217E	1237D		N23	W90	.999	10868	12.8	20D	-N	2 V					10
665	TEHR	19	1434	1446	1435	N11	E11	.202	10882	20.4	12	-F		1435	.28	.27		7
666	CAPP	19	1510E	1650D		N24	W86	.994	10868	13.2	100D	1N	C	1514	1.03			A 8
667	CATA	19	1650	1655	1650	N15	E49	.751	10888	23.4	5	-N		1650	.14	.22		195 7
668	LOCK	19	1740	1755	1745	N15	E50	.762	10888	23.5	15	-F						4
677	CRON	20	0033	0036	0034	S11	W68	.940	10883	14.9	3	-N	2 C	0034	.33	.77		4
679	CRON	20	0205	0235	0213	N21	E28	.508	10887	22.2	30	-N	2 C	0213	.33	.37		6
680	CRON	20	0227	0234	0230	N07	E04	.069	10882	20.4	7	-N	2 C	0230	.33	.32		5
682	CRON	20	0413	0416		N27	E25	.517	10887	22.1	3	-F	2 V		.40			4
GRP32685 TEHR CATA	20	0545	0553	0545	N22	E23	.452	10887	22.0	8	-F			.46				2 2 1 7
	20	0544	0550	0545	N23	E22	.448	10887	21.9	6	-F	V						
	20	0545	0555	0545	N21	E23	.444	10887	22.0	10	-N		0545	.46	.52		182	
GRP32690 CANR TEHR	20	0817	0823	0818	N08	E01	.026	10882	20.4	6	-F			.22				2 2 1 11
	20	0815	0822	0817	N07	E00	.003	10882	20.3	7	-F	1 C	0817	.22	.22			
	20	0818	0824	0819	N08	E01	.026	10882	20.4	6	-F	V						
691	TEHR	20	0831	0836	0832	N08	E01	.026	10882	20.4	5	-F	V					10
693	TEHR	20	1104	1117	1105	N22	E22	.440	10887	22.1	13	-F	V					7
694	RAMY	20	1111E	1119	1111E	N02	E65	.906	10896	25.3	8D	-F	C		.41			DE 6
695	TEHR	20	1147	1155	1149	N09	W01	.041	10882	20.4	8	-F	V					8
696	TEHR	20	1158	1221	1200	N23	E21	.436	10887	22.1	23	-N	V					10

SOLAR FLARES

Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 AUG	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 H _g	MAX. INT. %		
697	TEHR	20	1200	1224	1204	N13	E40	.641	10888	23.5	24	-N	V						10
698	RAMY	20	1233	1246	1235	N16	E70	.933	10895	25.8	13	-F	C	.62					DE 9
699	TEHR	20	1308	1312		N08	E02	.040	10882	20.7	4	-N	V						10
700	TEHR	20	1346	1413	1347	N08	W01	.026	10882	20.5	27	-F	V						10
701	RAMY	20	1351E	1356D	1356U	N12	E40	.640	10888	23.6	50	-F	C	1.03					DE 8
702	TEHR	20	1355	1413	1357	N15	E41	.656	10894	23.7	18	-N	V						9
703	CAPS	20	1400E	1411D		N11	E37	.598	10888	23.4	110	-F	V	1405	1.00	1.20		152	9
704	TEHR	20	1409	1415	1411	N06	E11	.190	10890	21.4	6	-F	V						10
GRP32705	RAMY	20	1424	1434	1425	N22	E53	.801	10894	24.6	10	-N	C	.29					3 2 2 9
	TEHR	20	1422	1430D	1424U	N19	E54	.807	10894	24.6	80	-N	C	.36					DE
	CANR	20	1424	1435	1428	N15	E65	.900	10894	25.5	11	-N	V						
		20	1425	1434	1425	N24	E52	.795	10894	24.5	9	-N	1 C	1425	.22	.36			
706	CAPP	20	1502E	1510D		N12	W86	.996	10876	14.2	80	1N	P	1504	1.65				A 11
707	RAMY	20	1558	1610	1600	N07	W03	.052	10882	20.4	12	-F	C	.31					DE 9
708	RAMY	20	1621	1634	1625	N02	E62	.883	10896	25.3	13	-F	C	.26					DE 10
709	RAMY	20	1638	1657	1642	N24	E11	.344	10887	21.5	19	-F	C	.31					DE 8
711	RAMY	20	1800	1837	1805	N19	E45	.712	10894	24.1	37	-F	C	.46					DE 5
712	RAMY	20	1812	1832	1822	N19	E52	.787	10894	24.7	20	-F	C	.31					DE 5
713	RAMY	20	1927E	1935		N20	E48	.747	10894	24.4	80	-F	V	.62					DE 4
714	RAMY	20	2027	2044	2030	N19	W09	.258	10882	20.2	17	-F	C	.52					DE 4
717	CRON	20	2348	2359		S16	W88	1.000	10875	14.4	11	-N	2 V	.30					4
718	MANI	21	0007E	0012D		N05	E40	.640	10916	24.0	50	-N	1	0007	.41	.54			3
720	CRON	21	0330	0340	0332	N06	W09	.156	10882	20.5	10	-N	2 C	0332	.33	.32			6
GRP32721	TEHR	21	0419	0526	0422	S14	W70	.954	10883	15.9	67	-F			.34				2 2 2 5
	MANI	21	0418	0526	0422	S17	W68	.947	10883	16.1	68	-F		0422	.27	.52			
		21	0420	0500D		S11	W72	.961	10883	15.8	400	-F	1	0428	.41	.92			
722	TEHR	21	0431	0436	0433	N21	E38	.634	10894	24.0	5	-N		0433	.36	.39			5
GRP32724	TEHR	21	0516	0539	0524	N25	E12	.366	10887	22.1	23	-F			.54				2 2 2 6
	CRON	21	0514	0541	0525	N26	E12	.379	10887	22.1	27	-F		0525	.64	.64			
	TEHR	21	0517	0537	0523	N25	E12	.366	10887	22.1	20	-F	2 C	0523	.44	.46			
		21	0529	0551	0533	N22	E13	.336	10887	22.2	22	-F		0533	.27	.27			
725	TEHR	21	1007	1020	1009	N06	W14	.241	10882	20.4	13	-F		1009	.27	.27			6
GRP32726	CANR	21	1123	1200	1131	N11	E24	.408	10888	23.3	37	-N			.39				2 2 2 6
	TEHR	21	1122	1133	1126	N11	E24	.408	10888	23.3	11	-N	2 C	1126	.32	.35			
	TEHR	21	1123	1200	1136	N11	E24	.408	10888	23.3	37	-N		1136	.45	.46			
	TEHR	21	1123	1200	1127	N11	E24	.408	10888	23.3	37	-N		1127	.27	.27			
	CANR	21	1134	1200		N12	E25	.425	10888	23.4	26	-F	3 V		.70	.80			
727	TEHR	21	1331	1342	1334	N06	W45	.704	10881	18.2	11	-F		1334	.27	.32			7
729	RAMY	21	1620	1627D	1622	N09	E85	.995	10903	28.1	70	-F	C						DE 6
731	RAMY	21	1851	1853D	1853D	N11	E20	.345	10888	23.3	20	-N	V	.31					DE 3
742	CRON	22	0040	0100	0042	N21	W02	.245	10887	21.9	20	-F	1 C	0042	.23	.22			4
743	CRON	22	0056	0105	0058	S01	E27	.471	10889	24.1	9	-F	1 C	0058	.11	.13			4
745	CRON	22	0344	0351	0345	N19	E30	.523	10894	24.4	7	-F	2 C	0345	.11	.13			6
746	CRON	22	0404	0411	0407	N10	E13	.229	10888	23.1	7	-F	2 C	0407	.11	.11			5
747	TEHR	22	0416	0438	0418	N12	W33	.543	10882	19.7	22	-F		0418	.27	.29			5
750	CRON	22	0524	0533	0526	S07	W13	.326	10890	21.3	9	-F	2 C	0526	.11	.12			5

SOLAR FLARES Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT			LOCATION				DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970 AUG	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 Hd
751 TEHR	22	0615	0632	0618	N08 W32	.526	10882	19.9	17	-F		0618	.27	.28		7
752 TEHR	22	0841	0855	0847	N21 W03	.248	10887	22.1	14	-F		0847	.27	.27		7
753 TEHR	22	0945	1145	1031	N19 W48	.745	10881	18.8	120	-F		1031	.27	.34		7
755 TEHR	22	1053	1105	1056	N19 W53	.797	10881	18.5	12	-F		1056	.27	.35		7
757 TEHR	22	1256	1341	1301	N12 E75	.961	10903	28.2	45	-F		1301	.27	.54		9
758 TEHR	22	1300	1319	1306	N18 E78	.972	10903	28.4	19	-F		1306	.55	1.25		8
765 CRON	23	0302	0320	0308	N21 W19	.393	10887	21.7	18	-F	2 C	0308	.56	.58		5
766 CRON	23	0353	0359	0356	N20 E18	.371	10894	24.5	6	-N	2 C	0356	.33	.35		4
GRP32767	23	0415	0429	0417	N11 W37	.598	10882	20.4	14	-F			.30			2 2 2 6
TEHR	23	0414	0435	0418	N10 W37	.598	10882	20.4	21	-F		0418	.27	.30		
CRON	23	0415	0423	0416	N11 W36	.584	10882	20.5	8	-F	2 C	0416	.33	.40		
768 TEHR	23	0449	0520	0505	S07 E02	.244	10889	23.4	31	-F		0505	.45	.45		4
769 TEHR	23	0505	0526	0508	S06 W27	.498	10890	21.2	21	-N		0508	.27	.28		4
GRP32770	23	0508	0528	0515	N19 E15	.324	10894	24.3	20	-F			.35			2 2 2 6
TEHR	23	0506	0529	0514	N19 E15	.324	10894	24.3	23	-N		0514	.36	.36		
CRON	23	0509	0527	0516	N18 E15	.314	10894	24.3	18	-F	2 C	0516	.33	.34		
GRP32771	23	0556	0610	0601	N19 E14	.312	10894	24.3	14	-N			.65			2 2 2 7
HTPR	23	0556	0610	0601	N19 E13	.300	10894	24.2	14	-N	C	0601	.72	.70		
CATA	23	0600E	0610	0600	N19 E14	.312	10894	24.3	100	-N		0600	.58	.61	190	
GRP32772	23	0656	0718	0703	N21 W20	.405	10887	21.8	22	-F			.43			2 2 2 8
TEHR	23	0648	0726	0703	N21 W21	.418	10887	21.7	38	-F		0703	.55	.55		
CRON	23	0704	0710		N21 W19	.393	10887	21.9	6	-F	2 V		.30			
773 TEHR	23	0756	0808	0757	N12 W38	.613	10882	20.5	12	-F		0757	.27	.33		7
GRP32775	23	0857	0909	0859	N06 W52	.784	10882	19.5	12	-N			.39			2 2 2 7
TEHR	23	0857	0910	0859	N07 W52	.784	10882	19.5	13	-N		0859	.45	.59		
CANR	23	0858U	0907	0858U	N05 W51	.774	10882	19.5	90	-N	2 C	0858	.32	.51		
776 CRON	23	0910	0919	0912	N20 W80	.979	10885	17.4	9	-F	1 C	0912	.23	.67		7
778 TEHR	23	0938	1004	0943	S15 W90	1.000	10883	16.7	26	-N		0943	.27			4
779 TEHR	23	1040	1059	1045	S13 W63	.911	10880	18.7	19	-F		1045	.36	.61		5
780 RAMY	23	1051E	1140	1054	N17 E59	.852	10903	27.9	490	-F	C		.31			DE 6
783 RAMY	23	1135	1154	1140	N20 W85	.992	10885	17.1	19	-N	C					DE 4
784 TEHR	23	1143	1209	1146	N12 W41	.652	10882	20.4	26	-F		1146	.27	.31		6
786 RAMY	23	1221	1231D	1223	S07 W32	.571	10890	21.1	100	-F	C		.41			DE 5
787 TEHR	23	1308	1328	1312	N20 W85	.992	10885	17.2	20	-N		1312	.27			6
788 TEHR	23	1333	1353	1334	N20 W85	.992	10885	17.2	20	-N		1334	.36			6
790 RAMY	23	1347E	1353D		S07 E75	.971	10905	29.2	60	-N	C					DE 5
791 TEHR	23	1359	1444	1400	N20 W85	.992	10885	17.2	45	-N		1400	.36			4
792 TEHR	23	1437	1447	1438	S06 W33	.579	10890	21.1	10	-N		1438	.27	.29		4
794 CATA	23	1505E	1535	1515	N17 E05	.194	10894	24.0	300	-N		1515	.58	.59	170	5
797 BOUL	23	1613	1622	1615	S06 W36	.618	10890	21.0	9	-F	1 C	1615	.22	.28		6
798 BOUL	23	1639	1703	1642	S07 W33	.584	10890	21.2	24	-F	1 C	1642	.43	.53		7
799 HUAN	23	1700	1710	1707	N18 E09	.244	10894	24.4	10	-F	1 C	1707	.17	.20		E 6
800 RAMY	23	1704	1722	1707	S07 E73	.962	10905	29.2	18	-F	C					DE 6
803 HUAN	23	2112E	2150U	2122U	S09 E68	.937	10905	29.0	380	-N	1 C	2122	.25			E 4
804 LOCK	23	2329	2350	2335	S12 W40	.695	10900	21.0	21	-F						4

SOLAR FLARES

Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS				
	DATE 1970 AUG	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 H α	MAX. INT. %					
805 MITK	23	2330	2342	2334	S04	W38	.636	10890	21.1	12	-F	C	2334	.72	.90			D	4			
806 CRON	24	0044	0051		N22	W89	.998	10885	17.4	7	-N	2	V		.20					3		
807 CRON	24	0112	0118	0113	N18	E06	.216	10894	24.5	6	-F	1	C	0113	.23	.22				4		
808 KODA	24	0145	0150		S07	W41	.685	10890	21.0	5	-N	P	0149	1.75	1.80			CE	4			
809 TEHR	24	0408	0421	0409	N18	W70	.933	10881	18.9	13	-N		0409	.28	.52				4			
810 CATA	24	0615E	0620D	0615	N19	E03	.214	10894	24.5	5D	-N		0615	.34	.36		174		5			
812 CRON	24	0728	0735	0730	N18	W06	.216	10894	23.9	7	-N	2	C	0730	.33	.32				8		
813 ABST	24	0736E	0755	0736	S10	E62	.899	10905	29.0	19D	1N	P	0736	1.35				53	E	8		
814 RAMY	24	1052	1103	1054	N18	W05	.208	10894	24.1	11	-F	C		.31					DE	6		
GRP32815	24	1321	1332	1323	N08	W76	.967	10881	18.9	11	-F			.28					2	2	1	9
RAMY	24	1319	1332D	1323	N08	W76	.967	10881	18.9	13D	-F	C							DE			
TEHR	24	1322	1332	1323	N08	W76	.967	10881	18.9	10	-F		1323	.28	.58							
816 HUAN	24	1403	1410	1407U	S12	E55	.847	10905	28.7	7	-F	1	C	1407	.14	.30				E	9	
817 SANM	24	1412E	1447D		S12	E58	.872	10905	28.9	35D	2F	2	P	1440	2.91	5.81				ET	9	
818 SANM	24	1453E	1503D		S12	E58	.872	10905	29.0	10D	1F	2	P	1454	2.27	4.53				E	9	
GRP32819	24	1455	1516	1501	N13	E39	.627	10903	27.5	21	-N			.56					2	2	2	9
BOUL	24	1455	1516	1501	N13	E39	.627	10903	27.5	21	-N	1	C	1501	.64	.82						
SANM	24	1455	1503D		N12	E39	.626	10903	27.5	8D	-N	2	P	1503	.48	.61				D		
820 RAMY	24	1502	1509	1505	N21	W08	.276	10894	24.0	7	-F	C		.31						DE	9	
GRP32821	24	1520	1529	1520	N17	W08	.220	10894	24.0	9	-F			.44					2	2	2	11
SANM	24	1520E	1533		N17	W08	.220	10894	24.0	13D	-N	2	P	1521	.65	.66				D		
CATA	24	1520	1525	1520	N16	W08	.207	10894	24.0	5	-F		1520	.23	.24		148					
GRP32822	24	1520	1608	1556	S11	E59	.878	10905	29.1	48	1N			1.67					2	2	2	10
SANM	24	1520E	1559D		S12	E58	.872	10905	29.0	39D	2N	2	P	1549	2.91	5.64				E		
BOUL	24	1550	1608	1556	S10	E60	.884	10905	29.2	18	-N	1	C	1556	.43	.85						
825 BOUL	24	1747	1804	1751	N10	W57	.833	10882	20.5	17	-F	1	C	1752	.54	.95						5
826 BOUL	24	1953E	1958	1954	N13	E37	.600	10903	27.6	5D	-N	1	C	1954	.43	.54						4
828 LOCK	24	2122	2140	2127	S09	W81	.991	10880	18.8	18	-F											4
830 CANR	25	0727U	0735U	0732U	N04	W67	.919	10882	20.3	8D	-N	2	C	0732	.22	.49						11
GRP32831	25	0818	0834	0824	N08	W71	.942	10882	20.0	16	-F			.59					2	2	2	11
MANI	25	0816	0835D		N11	W71	.940	10882	20.0	19D	-F	1		.41	.92							
MONT	25	0819	0833	0824	N05	W70	.937	10882	20.1	14	-N	C	0824	.77								
832 CANR	25	0844	0900		N07	W67	.917	10882	20.3	16	-F	3	V		.10	.20						10
833 TEHR	25	1230	1247	1236	N13	W28	.472	10888	23.4	17	-F		1236	.28	.28							10
834 BOUL	25	1325	1336	1327	N09	E36	.583	10903	28.3	11	-N	2	C	1328	.32	.40						10
835 BOUL	25	1525	1545	1525D	N10	E34	.555	10903	28.2	20	-N	1	C	1525	.22	.27						10
837 CATA	25	1605	1610	1605	N20	W07	.253	10895	25.1	5	-F		1605	.29	.30		146					11
840 LOCK	25	2145	2154	2148	S07	E41	.685	10905	29.0	9	-F											5
844 TEHR	26	0446	0530	0452	N24	W65	.901	10887	21.3	44	-N		0452	.45	.76							4
GRP32846	26	1011	1032	1015	N22	W65	.900	10887	21.5	21	-F			.28					2	2	2	12
TEHR	26	1008	1033	1015	N22	W65	.900	10887	21.5	25	-N		1015	.36	.61							
CANR	26	1014	1030		N22	W65	.900	10887	21.6	16	-F	3	V	.20	.40							
847 RAMY	26	1250	1307	1253	N13	E48	.738	10906	30.1	17	-F	C		.41						DE		12
849 MEUD	26	1614	1621	1618	N12	E44	.690	10906	30.0	7	-F	C	1618	1.24	1.70							6
GRP32850	26	1637	1646	1639	N16	E52	.784	10906	30.6	9	-N			.29					2	2	2	8
BOUL	26	1636	1643	1638	N17	E50	.763	10906	30.4	7	-N	1	C	1638	.21	.33						
RAMY	26	1637	1649	1639	N14	E54	.803	10906	30.7	12	-N	C		.36						DE		

42
Aug 70

SOLAR FLARES

Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND.	OBS. TYPE	TIME UT	MEASUREMENTS				REMARKS		
	DATE 1970 AUG	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY						MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %			
852 TACH	27	0529	0535	0535	N22	E90	.999	10913	3.0	6	-N	C	0535	.64		2.99	57	D	6		
GRP32853	27	0718	1130	1032	N19	E90	.999	10913	3.1	252	-N			1.55				2	1	1	9
MONT	27	0718	1130D	1032	N19	E90	.999	10913	3.1	252D	-N	C	1032	1.55							
MEUD	27	1024E	1319D		N20	E85	.992	10913	2.8	175D	1N	C	1212	.93							
GRP32854	27	1248	1551	(1350)	N19	E88	.997	10913	3.1	183	-N			.93				3	2	1	13
SANM	27	1248E	1551D		N18	E90	.999	10913	3.3	183D	-N	1	P	1345							
MEUD	27	1349E	1357D		N20	E85	.992	10913	3.0	8D	1N	C	1354	.93							
RAMY	27	1420E	1427		N20	E90	.999	10913	3.3	7D	-B	V									
856 SANM	27	1615E	1648D		N18	E90	.999	10913	3.4	33D	-N	1	P	1640							
857 LOCK	27	1752	1803	1756	S12	E16	.420	10905	28.9	11	-F										
863 MANI	28	0322	0336	0330	N18	E85	.993	10913	3.5	14	1N	2		0330	.83	2.40					
864 CRON	28	0323	0342U	0332U	N18	W51	.775	10894	24.3	19D	-F	2	C	0332	.23	.34					
GRP32866	28	0536	0555	0540	N13	W08	.171	10903	27.6	19	-N			.29				2	2	2	7
CATA	28	0535	0605	0540	N13	W08	.171	10903	27.6	30	-N		0540	.29	.29		158				
TEHR	28	0537	0545	0539	N12	W08	.161	10903	27.6	8	-N		0539	.28	.27						
867 CRON	28	0545	0600	0551	N05	W41	.654	10896	25.2	15	-F	2	C	0551	.44	.57					
870 CRON	28	0716	0722	0718	N18	E75	.959	10913	2.9	6	-N	2	C	0718	.56	1.45					
871 CAPS	28	0811E	0832D		S07	E85	.997	10915	3.7	21D	-N	3	V								
872 CRON	28	0812	0816	0813	S07	W44	.721	10904	25.0	4	-F	1	C	0813	.23	.31					
874 TEHR	28	0928	0944	0933	N13	E27	.457	10906	30.4	16	-N			0933	.36	.37					
881 CULG	28	2217E	2242		N22	E69	.927	10913	3.1	25D	1N	P	2217	1.03							
GRP32882	29	0109	0121	0111	N20	E71	.938	10913	3.4	12	-F			.55				2	2	2	6
CRON	29	0109	0120	0111	N20	E71	.938	10913	3.4	11	-N	2	V	0111	.33	.77					
MANI	29	0119E	0121D		N20	E70	.932	10913	3.3	2D	-F	1		0121	.77	1.64					
884 MANI	29	0318E	0329		N21	E90	.999	10918	4.9	11D	-N	1		0318	.62	1.76					
886 CATA	29	0650	0735	0655	N13	E08	.171	10906	29.9	45	-N			0655	.69	.71		151			
887 CATA	29	0730	0750D	0735	N09	W11	.192	10903	28.5	20D	-N			0735	.46	.47		182			
GRP32888	29	0750	0815	0752	N25	E90	.999	10918	5.1	25	-F			.31				2	2	1	9
MANI	29	0749	0754D	0752	N21	E90	.999	10918	5.1	5D	-N	2		0752	.31	.64					
ISTA	29	0750	0815		N29	E90	.998	10918	5.1	25	-F										
GRP32889	29	0912	0920	0915	N18	E59	.851	10913	2.8	8	-F			.28				2	2	2	9
CATA	29	0910	0920	0915	N17	E59	.851	10913	2.8	10	-N		0915	.23	.45		186				
CANR	29	0913	0919	0915	N19	E58	.843	10913	2.7	6	-F	2	C	0915	.32	.59					
891 CANR	29	1038	1047	1040	S07	E67	.929	10915	3.5	9	-F	2	C	1040	.22	.51					
892 BOUL	29	1355	1409	1400	N21	E62	.878	10913	3.2	14	-F	2	C	1400	.54	1.07					
893 CATA	29	1415	1430	1420	S21	W48	.818	10914	26.0	15	-N			1420	.52	.91		153			
894 RAMY	29	1606	1622	1610	S19	W50	.827	10914	25.9	16	-F			.31							
900 RAMY	29	2223	2226D	2225U	S20	W50	.831	10914	26.2	3D	-F			.62							
902 CRON	30	0157	0250		N13	E02	.108	10906	30.2	53	-F	1	V	.60							
903 CRON	30	0436	0442	0437	N20	E80	.979	10918	5.2	6	-N	2	C	0437	.23	.67					
904 CRON	30	0438	0448	0443	S22	W55	.877	10914	26.1	10	-F	2	C	0443	.11	.23					
906 CRON	30	0547	0600	0551	S22	W55	.877	10914	26.1	13	-F	2	C	0551	.23	.45					
907 CANR	30	0840	0851		S22	W58	.898	10914	26.0	11	-N	3	V	.25	.50						
908 CANR	30	0859	0909		S07	W19	.401	10905	28.9	10	-F	3	V	.50	.50						
909 CANR	30	0912	0917	0913	N19	E78	.972	10918	5.2	5	-F	2	C	0913	.22	.63					
912 CANR	30	1042	1046	1043	N22	E42	.683	10913	2.6	4	-F	2	C	1043	.32	.44					

SOLAR FLARES

Unconfirmed

AUGUST 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 AUG	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
					LAT.	MER. DIST.													
913 CANR	30	1135	1152	1137	N18	E80	.979	10918	5.5	17	-N	2	C	1137	.32	.97			7
916 CATA	30	1350E	1405D	1355	S22	W59	.904	10914	26.2	15D	-N			1355	.75	1.78		182	7
921 LOCK	30	1710	1730	1715	N19	E47	.733	10913	3.2	20	-F								5
923 RAMY	30	1724	1730	1726	N11	W41	.651	10903	27.6	6	-F		C		.31				DE 5
927 CRON	31	0513	0524	0517	N08	W63	.886	10917	26.5	11	-F	2	C	0517	.56	1.18			5
GRP32928	31	0627	0639	0630	N20	E65	.900	10918	5.1	12	-F				.31				2 2 2 9
CRON	31	0627	0637	0630	N20	E65	.900	10918	5.1	10	-F	2	C	0630	.33	.68			
CATA	31	0630E	0640	0630	N20	E64	.892	10918	5.1	10D	-N			0630	.29	.66		174	
932 BOUL	31	1421E	1431	1425	N13	W26	.442	10906	29.6	10D	-N	1	C	1426	.32	.36			9
GRP32933	31	1450	1500	1454	N13	W27	.457	10906	29.6	10	-N				.36				2 2 2 8
CATA	31	1450	1500	1455	N13	W26	.442	10906	29.7	10	-N			1455	.40	.45		176	
CANR	31	1450	1500	1453	N12	W27	.455	10906	29.6	10	-N	2	C	1453	.32	.36			
934 RAMY	31	1459E	1528	1506	N16	E63	.884	10918	5.3	29D	-F		C		.52				DE 9
936 SANM	31	1733	1805D		N16	E62	.876	10918	5.4	32D	-F	1	P	1800	.80	1.66			E 6
938 BOUL	31	1815	1832	1824	N24	E53	.803	10918	4.7	17	-F	1	C	1824	.32	.54			6

Note:

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

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

"Remarks":

A = Eruptive prominence, base at >90°.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No spots visible in the neighborhood.
 H = Flare with high velocity dark surge.
 I = Very extensive active region.
 J = Plage with flare shows marked intensity variations.
 K = Several intensity maxima.
 L = Filaments show effects of sudden activation.
 M = White-light flare.

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