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SOLAR FLARES Confirmed

FEBRUARY 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE FEB	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hq	MAX. INT. %	
					LAT.	NER. DIST.												
	01	0000	0052	NO FLARE	PATROL													
	01	0055	0111	NO FLARE	PATROL													
361 TEHR	01	0751	0757	0752	N07	E03	.231	12205	1.6	6	--N	3 C		.64			F 3	
362 TEHR	01	0824	0901	0836	N04	W05	.194	12205	1.0	37	1B	2 C		2.09			S Z 3	
363 TEHR	01	0847	0852	0848	N06	E02	.211	12205	1.5	5	--N	2 C		.36			F 4	
365 HUAN	01	2028E	2034		S07	E75	.963	12212	7.5	60	--F	1 C	2029				3	
366 BOUL	01	2121	2123	2121	N13	W09	.358	12205	1.2	2	--F	2 V	2121		.25		2	
	02	0053	0135	NO FLARE	PATROL													
	02	0149	0211	NO FLARE	PATROL													
	02	0500	0705	NO FLARE	PATROL													
	02	0815	0828	NO FLARE	PATROL													
	02	0932	1015	NO FLARE	PATROL													
	02	1119	1125	NO FLARE	PATROL													
367 RAMY	02	1137	1152	1140	N03	W68	.930	12210	28.4	15	--N	3 C		.26			DE 2	
	02	1639	1644	NO FLARE	PATROL													
GRP47368	02	1813	1837	1823	S02	E45	.708	12211	6.1	24	-N			.80			3 3 3 3	
RAMY	02	1811	1845	1822	S01	E44	.697	12211	6.1	34	-N	3 C		.74			F	
RAMY	02	1811	1845	1815	S01	E44	.697	12211	6.1	34	-N	3 C		.37			F	
BOUL	02	1815	1831	1824	S02	E46	.720	12211	6.2	16	-N	2 V	1824	1.20	1.70			
PALE	02	1824E	1834	1824U	S02	E44	.695	12211	6.1	100	-N	2 C		.45			F	
RAMY	02	1830E	18450	1832J	S01	E45	.709	12211	6.1	150	-F	3 V		.28			DE	
369 PALE	02	2323	2347	2331	N09	W23	.461	12205	1.2	24	--F	2 C		1.27			F 1	
370 PALE	03	0001	0042	0004	N08	W23	.453	12205	1.3	41	--N	2 C		.55			F 2	
371 PALE	03	0001	0042	0025	N08	W23	.453	12205	1.3	41	--N	2 C		.81			F 2	
GRP47372	03	1746	1815	1753	S01	E31	.520	12211	6.1	29	--N			.56			3 3 2 3	
RAMY	03	1745	1824	1754	S01	E32	.535	12211	6.1	39	-N	3 C		.56			DE	
PALE	03	1747	1753D	1752	S01	E31	.520	12211	6.1	60	-N	3 C		.55			F	
BOUL	03	1747	1805	1754	S02	E29	.488	12211	5.9	18	-F	3 V	1754		1.00			
	03	2140	2148	NO FLARE	PATROL													
374 TEHR	04	0610E	0625	0613U	S03	E23	.393	12211	6.0	150	--N	3 V		.33			F 1	
GRP47375	04	1252	1317	1301	S07	E34	.556	12212	7.1	25	--F			.61			3 3 3 6	
CATA	04	1245E	13000	1300	S07	E34	.556	12212	7.1	150	-N	3	1300	.87	1.04	(166)		
RAMY	04	1258	1323	1305	S06	E34	.556	12212	7.1	25	-F	3 C		.46			DE	
ATHN	04	1259E	1311	1259U	S07	E34	.556	12212	7.1	120	-F	1 C		.50			DE	
376 RAMY	04	1413	14240		S06	E33	.542	12212	7.1	110	--F	3 C					DE 3	
	05	0450	0600	NO FLARE	PATROL													
	05	2315	2322	NO FLARE	PATROL													
	06	0213	0219	NO FLARE	PATROL													
	06	0237	0256	NO FLARE	PATROL													
GRP47378	06	1253	1313	1257	S08	E07	.124	12212	7.1	20	--N			.54			4 4 4 6	
ATHN	06	1251E	1302	1252	S09	E05	.098	12212	6.9	110	-N	1 V		.33			DE	
RAMY	06	1252	1310	1254	S09	E08	.145	12212	7.1	18	-F	4 C		.37			DE	
CAPS	06	1253	1314		S06	E07	.121	12212	7.1	21	-N	3 V	1255	.60	.60	(164)		
CATA	06	1255	1325	1300	S09	E08	.145	12212	7.1	30	-N	1	1300	.87	.88	(155)		
379 PALE	06	1835	1838D		S07	E04	.070	12212	7.1	30	--F	1 C					3	
380 HUAN	06	1856	1904		S13	E90	1.000	12224	13.5	8	--F	1 C	1902				D 3	
	06	2229	2302	NO FLARE	PATROL													

Note: Catania and Capri-S express Maximum Intensities in percent of the local undisturbed chromosphere instead of percent of the local continuum. Parentheses are used to indicate this difference.

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE FEB	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
382 RAMY	06	2306	2331	NO FLARE PATROL													
	07	0205	0211	NO FLARE PATROL													
	07	1551	1700	NO FLARE PATROL													
	07	1754	1802D	1756	N10 E52	.812	12217	11.6	80	--F	2 C		.21				DE 2
	07	1802	1807	NO FLARE PATROL													
	07	2005	2023	NO FLARE PATROL													
	07	2050	2057	NO FLARE PATROL													
	07	2105	2130	NO FLARE PATROL													
383 PALE	07	2131	2150	NO FLARE PATROL													
	07	2150E	2214	2155U	S08 W09	.158	12212	7.2	240	--F	2 C		.36				F 1
384 PALE	08	0107	0120	0109	S08 W12	.208	12212	7.1	13	--F	2 C		.19				2
385 PALE	08	0332	0344	0334	S05 W19	.325	12212	6.7	12	--N	1 C		.27				F 2
	08	0433	0438	NO FLARE PATROL													
	08	0441	0454	NO FLARE PATROL													
386 RAMY	08	1417E	1442	1417U	N15 E26	.553	12223	10.5	250	--F	2 C		.46				DE 3
387 PALE	10	0222	0234	0227	S07 W57	.835	12211	5.8	12	--F	3 C		.36				2
	10	0313	0329	NO FLARE PATROL													
390 ATHN	10	1345E	1402	1347	N08 E16	.368	12217	11.8	170	--N	2 V		.33				DE 2
GRP47391 RAMY ATHN MCMA ATHN	10	1401	1452	1408	S13 E45	.704	12224	14.0	51	--N			.59				3 3 3 3
	10	1401	1424D	1408	S12 E44	.691	12224	13.9	230	--N	3 C		.65				DE
	10	1405E	1428	1407	S15 E45	.706	12224	14.0	230	--N	2 V		.50				DE
	10	1412E	1515		S12 E45	.703	12224	14.0	630	--N	C	1412	.62	.90			EL
	10	1458E	1526	1458U	S15 E45	.706	12224	14.0	280	--F	2 V		1.32				F
	11	0340	0346	NO FLARE PATROL													
393 TEHR	11	0433	0453	0435	S14 E74	.956	12227	16.7	20	--N	4 C		.83				DE 1
	11	1028	1050	NO FLARE PATROL													
	11	1055	1059	NO FLARE PATROL													
GRP47394 ARCE CATA	12	0933	1005	0940	N08 W10	.305	12217	11.6	32	--F			.55				2 2 2 4
	12	0930E	0955D		N07 W10	.291	12217	11.6	250	--F	C	0940	.51	.50			
	12	0935	1005	0940	N09 W09	.310	12217	11.7	30	--N	3 C	0940	.58	.60			(174)
395 TEHR	12	1004	1014	1006	S10 E70	.935	12228	17.7	10	--F	3 C		.19				DE 3
396 MONT	12	1007	1012	1009	S09 W81	.985	12212	6.3	5	--F	C	1009	.10				3
GRP47397 MONT TEHR CATA	12	1018	1032	1021	N12 W20	.458	12217	10.9	14	--N			.78				3 3 3 3
	12	1016	1029	1020	N13 W20	.469	12217	10.9	13	--N	C	1020	.72				HE
	12	1017	1034	1022	N12 W21	.470	12217	10.9	17	--N	3 C		.45				F
	12	1020	1020D	1020	N12 W20	.458	12217	10.9		--N	3 C	1020	1.16	1.28			(158)
GRP47398 MONT TEHR ARCE CATA ATHN CAPS	12	1208	1306	1224	S11 E18	.314	12224	13.9	58	1N			2.96				6 5 5 6
	12	1204	1230D	1224	S11 E18	.314	12224	13.9	260	1B	C	1224	4.54				
	12	1205	1303	1222	S11 E18	.314	12224	13.9	58	--N	3 C		1.45				U
	12	1210E	1310		S12 E18	.318	12224	13.9	600	1N	C	1217	3.31	3.70			K
	12	1210	1305D	1235	S12 E18	.318	12224	13.9	550	1B	3 C	1235	2.60	2.76			(204) U
	12	1211E	1239D	1216	S12 E18	.318	12224	13.9	280	--N	2 V		1.49				U F
	12	1225	1305		S07 E18	.307	12224	13.9	40	1N	1 S	1226	4.00	4.20			(182) BU
	12	1521	1531	1522	S16 E54	.805	12227	16.7	10	--N			.61				2 2 2 3
GRP47399 MCMA CAPS	12	1519E	1533D	1522	S17 E53	.796	12227	16.6	140	--N	C	1522	.52	.90			E
	12	1522	1529		S15 E55	.814	12227	16.8	7	--N	2 V	1525	.70	1.20			(189) C
400 HUAN	12	1814	1816D		S07 E74	.958	12228	18.3	20	--F	1 P	1815					2
401 PALE	12	2040E	2048D	2040U	N05 W16	.339	12217	11.7	80	--N	3 C		.72				F 1

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	DATE FEB	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %	
	12	2059	2125														
	12	2140	2218														
	12	2221	2247														
	12	2400	0012														
	13	0029	0037														
	13	0040	0048														
	13	0051	0109														
402 MANI	13	0109E	0118	0109	S16	E55	.815	12227	17.2	9D	--F	1	0109	.52	.86		2
	13	0157	0205														
GRP47403	13	0829	0921	0835	N07	W21	.423	12217	11.8	52	-N			1.08			3 2 2 3
TEHR	13	0829	0912	0834	N06	W20	.402	12217	11.9	43	-N	4	C	1.00			F
CATA	13	0830E	0930	0835	N08	W22	.445	12217	11.7	60D	-N	1		0835	1.16	1.28	(200)
MEUD	13	0846E	0915		N07	W22	.437	12217	11.7	29D	-F		C	0856	.72	.80	E
GRP47404	13	1353	1415	1410	S10	E63	.886	12228	18.3	22	-N			.75			3 3 3 3
HUAN	13	1353	1407D		S11	E63	.885	12228	18.3	14D	-F	1	C	1407	.46	.85	
MEUD	13	1407E	1410D		S09	E63	.886	12228	18.3	3D	-N		C	1409	.62	1.20	E
CATA	13	1410E	1415D	1410	S10	E63	.886	12228	18.3	5D	1N	3		1410	1.16	2.52	(191)
	13	1529	1555														
GRP47405	13	1720	1740	1723	N04	W31	.541	12217	11.4	20	--F			.77			3 2 1 3
MCMA	13	1719	1747	1722	N04	W30	.527	12217	11.5	28	-N		C	1722	.77	.90	EH
HUAN	13	1720	1733	1724	N04	W31	.541	12217	11.4	13	-F	1	C	1724			E
RAMY	13	1744E	1756D	1744U	N05	W28	.505	12217	11.6	12D	-F	2	C		1.44		DE
	13	1950	2102														
	13	2115	2311														
	13	2316	2323														
406 MANI	14	0003E	0009	0003	S14	E35	.575	12227	16.6	6D	--N	1	0003	.31	.38		2
GRP47407	14	0003E	0010	0004	N05	W31	.546	12217	11.7	7	--N			.52			2 2 2 2
PALE	14	0003E	0010D	0004	N06	W30	.538	12217	11.8	7D	-N		V	.62			F
MANI	14	0003E	0010D	0003	N04	W32	.555	12217	11.6	7D	-N	1		0003	.41	.50	
406 MITK	14	0210	0225	0213	S18	E37	.612	12227	16.9	15	--N		C	0213	.52	.70	D
	14	0547	0605														
409 TEHR	14	1026	1036	1029	N03	W35	.592	12217	11.8	10	--N	4	C		.09		DE
410 TEHR	14	1239	1250	1240	N06	W38	.643	12217	11.7	11	--F	3	C		.55		F
GRP47411	14	1248	1259	1252	N14	W57	.868	12223	10.3	11	-N			.73			3 3 3 3
HUAN	14	1246	1258	1251	N15	W60	.894	12223	10.0	12	-N	1	C	1251	.41	.84	
TEHR	14	1249	1258	1251	N14	W54	.843	12223	10.5	9	-B	3	C		.64		F
RAMY	14	1250E	1302	1253U	N14	W58	.876	12223	10.2	12D	-N	3	C		1.13		DE
412 HUAN	14	1337	1347	1340	N15	W58	.879	12223	10.2	10	--F	1	C	1340	.31	.63	
	14	1846	1905														
417 RAMY	14	1905E	1905D	1905U	N13	W61	.897	12223	10.2		-N	2	C		.98		DE
	14	1910	2137														
	14	2143	2350														
419 BOUL	14	2309	2318	2312	N16	W65	.929	12223	10.1	9	--F	2	V	2312			
420 PALE	15	0057	0123	0059	N15	W60	.894	12223	10.5	26	-N	2	V		.57		
GRP47421	15	0142	0203	0143	N16	W62	.910	12223	10.4	21	-N			.71			3 3 3 3
PALE	15	0142	0154	0143	N15	W61	.901	12223	10.5	12	-N	3	V		.67		
MANI	15	0143E	0155D	0143	N15	W61	.901	12223	10.5	12D	-N	1		0143	.83	1.66	
MITK	15	0145E	0220D		N17	W64	.924	12223	10.3	35D	-N		C	0145	.62		D

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE FEB	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 _g	MAX. INT. %		
					LAT.	MER. DIST.													
422 MITK	15	0334	0351D	0337	N16	W65	.929	12223	10.3	17D	--F	C	0337	.52				D	2
	15	0428	0442	NO FLARE PATROL															
423 MITK	15	0448	0505	0449	N17	W64	.924	12223	10.4	17	--F	C	0449	.52				DH	1
GRP47426	15	0826	0929	0903	S15	W23	.407	12224	13.6	63	-N			.85				4 3 2 6	
ISTA	15	0826	0920		S19	W29	.511	12224	13.2	54	-F							G	
ARCE	15	0840E	0925D		S13	W20	.352	12224	13.9	45D	-N	C	0850	.77	.80				
MANI	15	0901E	0920D	0901	S13	W20	.352	12224	13.9	19D	-N	1	0901	.93	.99				
CATA	15	0905E	0950	0905	S13	W20	.352	12224	13.9	45D	1N	3	0905	2.90	3.11	(186)			
GRP47427	15	0910	0918	0912	N16	W66	.935	12223	10.4	8	-N			.61				3 3 2 6	
ISTA	15	0909	0915		N16	W64	.923	12223	10.6	6	-N							D	
MANI	15	0910	0919	0913	N16	W68	.946	12223	10.3	9	-N	1	0913	.93	1.99				
CATA	15	0910	0920	0910	N16	W65	.929	12223	10.5	10	-N	3	0910	.29	.75	(186)			
GRP47430	15	1806	1837	1813	S09	E33	.541	12228	18.2	31	--F			.54				2 2 2 3	
RAMY	15	1806	1836	1811	S09	E34	.555	12228	18.3	30	-F	3	C	.37				DE	
PALE	15	1808E	1824	1812	S08	E32	.526	12228	18.2	16D	-N	3	C	.55				F	
RAMY	15	1812E	1835D	1814	S10	E34	.556	12228	18.3	23D	-F	3	V	.52				DE	
PALE	15	1828	1837	1830	S08	E32	.526	12228	18.2	9	-N	3	C	.55				F	
431 BOUL	15	1830	1855	1836	S15	W22	.392	12224	14.1	25	--F	3	V	1836		.38		2	
435 BOUL	15	2222	2235	2225	N17	W82	.995	12223	9.8	13	-N	3	V	2230	.50	1.75		1	
436 BOUL	15	2314	2324	2316	N17	W82	.995	12223	9.8	10	--F	2	V	2318	.40	1.40		2	
	15	2326	2334	NO FLARE PATROL															
437 MANI	15	2337E	2348	2337	N11	W78	.984	12223	10.1	11D	--F	2	2337	.52	1.28			1	
GRP47438	15	2337	2355	2343	S10	E31	.512	12228	18.3	18	--F			.62				2 2 1 2	
MANI	15	2337E	2355D	2343	S10	E30	.498	12228	18.2	18D	-N	2	2343	.62	.71				
PALE	15	2337	2355D		S09	E31	.512	12228	18.3	18D	-F	3	V					F	
	15	2355	0040	NO FLARE PATROL															
	16	0120	0125	NO FLARE PATROL															
	16	0155	0203	NO FLARE PATROL															
439 MITK	16	0208	0221	0211	S08	E36	.584	12228	18.8	13	--F	C	0211	.83	1.00		E	1	
	16	0314	0319	NO FLARE PATROL															
441 ATHN	15	0653E	0720	0653J	N18	W84	.998	12223	10.0	27D	--F	2	C					OE	3
GRP47444	16	1111	1143	1117	S09	E24	.405	12228	18.3	32	--F			1.25				4 4 3 6	
ATHN	16	1105	1146	1118	S09	E23	.389	12228	18.2	41	-F	3	C	1.49				F	
TEHR	16	1110E	1139	1112	S10	E28	.467	12228	18.6	29D	-F	3	V	.83				F	
CATA	15	1115	1135D	1120	S09	E24	.405	12228	18.3	20D	-N	3		1.44	1.58	(178)			
ISTA	15	1115	1240		S09	E22	.373	12228	18.1	85	-N								
445 ATHN	16	1146	1202	1151	N16	W85	.999	12223	10.1	16	--F	3	C					DE	5
GRP47446	16	1209	1247	1214	S09	E25	.420	12228	18.4	38	1N			2.78				3 3 3 5	
TEHR	16	1209	1233	1213	S10	E27	.452	12228	18.5	24	-N	3	V	.83				F	
ATHN	16	1212E	1243	1215	S08	E23	.388	12228	18.2	31D	-N	3	V	1.32				F	
WEND	16	1216E	1306		S08	E24	.404	12228	18.3	50D	2F	V		6.19					
	16	2325	2354	NO FLARE PATROL															
	17	0042	0048	NO FLARE PATROL															
	17	0145	0157	NO FLARE PATROL															
	17	0248	0405	NO FLARE PATROL															
	17	0636	0641	NO FLARE PATROL															
448 TEHR	17	0842	0856	0844	S16	E10	.231	12228	18.1	14	--N	3	C	.36				DE	2
449 TEHR	17	1109	1143	1118	S10	E28	.467	12233	19.6	34	--F	2	C	.91				F	3
GRP47450	17	1203	1250	1208	S15	W44	.693	12224	14.2	47	--F			.31				2 1 1 4	
RAMY	17	1203	1250	1208J	S15	W44	.693	12224	14.2	47	-F	3	C	.31				DE	
CATA	17	1210	1255D	1225	S13	W44	.691	12224	14.2	45D	-F	1	1225	.87	1.21	(145)			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE FEB	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hd	MAX. INT. %	
					LAT.	MER. DIST.												
	21	1552	1621	NO FLARE	PATROL													
	21	2039	2111	NO FLARE	PATROL													
471 PALE	21	2232E	2234D	2234U	N18	E14	.479	12236	23.0	2D	--N	2	V		.52		F	2
472 PALE	22	0134E	0138	0135	S16	W72	.944	12227	16.7	4D	--N	2	V		.31			2
473 ATHN	22	0802E	0803D	0802U	N09	E90	1.000	12246	1.1	1D	-B	2	C				DE	3
	22	1235	1405	NO FLARE	PATROL													
474 CATA	22	1500E	1510D	1505	S11	W58	.842	12228	18.3	10D	2F	1		1505	3.19	5.95	(138)	3
	22	1520	1618	NO FLARE	PATROL													
475 MANI	22	2350E	0018	2352	N08	E90	1.000	12246	1.7	28D	1B	2		2352				1
GRP47476	23	0223	0240	0228	N08	E88	1.000	12246	1.7	17	-N				.66		3 3 3 3	
MITK	23	0221E	0246	0230	N09	E90	1.000	12246	1.8	25D	1N		C	0230	.52		OH	
PALE	23	0223	0234	0226	N08	E85	.998	12246	1.5	11	-N	1	V		.62			
MANI	23	0225	0239	0229	N08	E88	1.000	12246	1.7	14	-N	2		0229	.83	2.55		
GRP47477	23	0252	0306	0258	N09	E89	1.000	12246	1.8	14	-B				.68		2 2 2 2	
MITK	23	0250	0306	0258	N09	E90	1.000	12246	1.9	16	1B		C	0258	.52		OH	
MANI	23	0254	0306	0257	N08	E88	1.000	12246	1.7	12	-N	2		0257	.83	2.55		
GRP47478	23	0423	0437	0426	N08	E88	1.000	12246	1.8	14	-B				.34		2 2 2 3	
MANI	23	0423	0441	0426	N07	E88	1.000	12246	1.8	18	-N	2		0426	.41	1.28		
TEHR	23	0426E	0432	0426U	N08	E87	.999	12246	1.7	6D	-B	2	C		.27		F	
479 MANI	23	0623	0642	0624	N07	E88	1.000	12246	1.9	19	-N	2		0624	.31	.96		1
GRP47481	23	0725	0743	0728	N08	E88	1.000	12246	1.9	18	--F				.39		2 2 2 3	
MANI	23	0725	0743	0728	N08	E88	1.000	12246	1.9	18	-N	2		0728	.41	1.28		
TEHR	23	0725E	0734D	0727	N08	E87	.999	12246	1.8	9D	-F	2	C		.36		F	
482 MANI	23	0755	0801	0756	N07	E87	.999	12246	1.9	6	--N	2		0756	.31	.93		3
	23	1008	1020	NO FLARE	PATROL													
	23	1023	1029	NO FLARE	PATROL													
	23	1031	1038	NO FLARE	PATROL													
	23	1100	1105	NO FLARE	PATROL													
	23	1140	1200	NO FLARE	PATROL													
GRP47483	23	1328	1345	1334	S16	W45	.706	12233	20.2	17	--F				.51		2 2 2 2	
ARCE	23	1325E	1350D		S17	W45	.707	12233	20.2	25D	-N		C	1325	.61	.80	H	
MEUD	23	1331	1340	1334	S15	W45	.704	12233	20.2	9	-F		C	1334	.41	.60	E	
	23	1400	1456	NO FLARE	PATROL													
	23	1626	1657	NO FLARE	PATROL													
484 BOUL	23	2223	2241	2226	S08	W63	.886	12247	19.2	18	--F	1	V					1
GRP47485	23	2308	2318	2309	N07	E79	.985	12246	1.9	10	--N				.31		2 2 1 2	
MANI	23	2306E	2315	2306	N08	E76	.975	12246	1.7	9D	-N	1		2306	.31	.73		
BOUL	23	2309	2320	2311	N06	E81	.990	12246	2.0	11	-N	1	V					
486 MITK	23	2329E	0016D	2347	S11	W64	.893	12247	19.2	47D	-B		C	2347	.52	1.10	D	2
487 MANI	24	0040	0110	0049	S10	W62	.877	12247	19.4	30	--F	2		0049	.41	.76		2
GRP47488	24	0210	0240	0219	S10	W63	.885	12247	19.4	30	--F				.41		2 1 1 4	
MANI	24	0210	0240	0219	S10	W63	.885	12247	19.4	30	-F	2		0219	.41	.78		
KODA	24	0237E	0332D	0316	S10	W64	.893	12247	19.3	55D	1B		P	0253	3.67	3.70	1.72	DK
	24	0417	0421	NO FLARE	PATROL													
	24	0424	0433	NO FLARE	PATROL													
	24	0446	0456	NO FLARE	PATROL													
	24	0517	0525	NO FLARE	PATROL													

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE FEB	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _a	MAX. INT. %	
					LAT.	MER. DIST.												
GRP47489 MANI TEHR	24 24 24	0551 0551 0551	0607 0603D 0607	0555 0554 0555	N07 N07 N07	E70 E70 E69	.947 .947 .941	12246 12246 12246	1.5 1.5 1.4	16 12D 16	--F -F -F	2 2 3	0554	.35 .41 .28	.83		2 2 2 2 F	
490 ATHN	24	0729E	0736	0729U	N08	E68	.936	12246	1.4	7D	--N	2	C		.33		DE 3	
GRP47491 CATA ATHN	24 24 24	0835 0835 0838E	0859 0900D 0857	0839 0840 0838U	S10 S09 S10	W69 W68 W69	.928 .922 .928	12247 12247 12247	19.2 19.3 19.2	24 25D 19D	--N -N -N	2 1 2	0840	.31 .29 .33		(166)	2 2 2 3 DE	
492 ATHN	24	0938	0947	0940	N05	E64	.906	12246	1.2	9	-N	2	C		.66		DE 2	
493 ATHN	24	0952E	1010D	0953	S11	W70	.934	12247	19.2	18D	--F	3	V		.33		DE 1	
	24	1010	1015	NO FLARE PATROL														
	24	1025	1035	NO FLARE PATROL														
	24	1045	1115	NO FLARE PATROL														
494 RAMY	24	1126E	1140	1128	N04	E62	.890	12246	1.1	14D	--N	2	C		.28		DE 2	
495 RAMY	24	1236	1249	1239	N04	E62	.890	12246	1.2	13	--N	4	C		.28		DE 3	
497 HUAN	24	1318E	1321		N07	E66	.923	12246	1.5	3D	--F	1	C	1319	.26		CD 3	
498 HUAN	24	1326	1330	1327	N07	E67	.929	12246	1.6	4	--F	1	C	1327	.31		2	
499 RAMY	24	1602	1610	1605	N04	E60	.874	12246	1.2	8	--F	3	C		.28		DE 2	
GRP47500 RAMY RAMY HUAN	24 24 24 24	2040 2036E 2045 2049E	2050 2050D 2102D 2049D	2048 2036U 2048 N08	N09 N08 N10 N08	E62 E64 E61 E62	.898 .911 .892 .896	12246 12246 12246 12246	1.5 1.7 1.4 1.5	10 14D 17D 1.5	-N -F -N -N	1 3 3 1	2049	.70 .21 .77 .62	1.37		2 2 2 4 DE DE DE E	
501 MANI	24	2325E	2345	2327	N08	E63	.903	12246	1.7	20D	-N	1		2327	.52	1.02	2	
503 MITK	25	0315	0320	0317	N08	E59	.872	12246	1.6	4	-N		C	0317	.52	1.10	D 2	
504 RAMY	25	1425	1435D	1427	S14	E16	.295	12242	26.8	10D	--F	3	C		.19		DE 3	
GRP47505 BOUL RAMY HUAN	25 25 25 25	1645 1544 1645 1645	1704 1713 1701 1658	1647 1646 1647 1647	N04 N04 N05 N03	E46 E47 E46 E45	.734 .746 .737 .720	12246 12246 12246 12246	1.1 1.2 1.1 1.1	19 29 16 12	--N -N -N -F	3 3 3 1	1650 1647	.46 .60 .46 .31	.85 .44		3 3 3 3 DE D	
506 RAMY	25	2104	2114	2106	N07	E47	.754	12246	1.4	10	--N	3	C		.46		DE 3	
GRP47507 BOUL PALE RAMY	25 25 25 25	2204 2157 2208 2208	2215 2215 2215 2216	2210 2209 2210 2210	N03 N03 N02 N03	E50 E51 E50 E49	.776 .787 .774 .765	12246 12246 12246 12246	1.7 1.7 1.7 1.6	11 18 7 8	--N -N -N -F	3 3 2 2	2210	.26 .30 .27 .21	.50		3 3 3 3 DE	
GRP47509 TEHR MANI ARCE ATHN	26 26 26 26 26	0818 0817 0818 0820E 0821E	0827 0831 0822 0830D 0824D	0820 0818 0820 N05 0821U	N05 N05 N05 N05 N06	E40 E44 E44 E34 E37	.666 .714 .714 .588 .632	12246 12246 12246 12246 12246	1.3 1.6 1.6 28.9 1.1	9 14 4 10D 3D	--F -F -N -F -N	4 4 2 2 2	0820 0820	.57 .36 .52 .58 .83	.76 .70		4 4 4 5 F DE	
GRP47510 MONT CATA ARCE	26 26 26 26	0948 0946 0950 0951E	0959 0952 1005D 1000D	0950 0947 0950 N06	N03 N05 S03 N06	E38 E37 E35 E43	.633 .628 .575 .706	12246 12246 12246 12246	1.3 1.2 1.0 1.6	11 6 15D 9D	--N -N -B -F	1 1 1 1	0947 0950 0955	.61 .41 1.16 .26	1.43 .40	(263)	3 3 3 5 E	
511 MCMA	26	1527	1535	1528	N04	E41	.674	12246	1.7	8	--F		C	1528	.26	.40	D 3	
GRP47512 MCMA PALE BOUL	26 26 26 26	2010 2010 2010 2016E	2031 2014D 2026 2035D	2016 N04 2015 2016	N04 N04 N04 N03	E33 E38 E30 E31	.570 .637 .529 .538	12246 12246 12246 12246	1.3 1.7 1.1 1.2	21 4D 16 19D	--F -F -N -F	2 2 3 2	2014	.40 .25 .55	.40 1.60		3 3 2 3 E F	
	26	2217	2240	NO FLARE PATROL														
	26	2309	2325	NO FLARE PATROL														
	27	0044	0134	NO FLARE PATROL														
513 MANI	27	0208E	0227	0208	N07	E32	.573	12246	1.5	19D	--N	1		0208	.83	1.00	1	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IM-PORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE FEB	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.	COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP47514	27	1049	1123	1054	N03	E20	.381	12246	1.0	34	-N			2.11				2 2 2 4
TEHR	27	1049	1122	1052	N03	E21	.396	12246	1.0	33	-N	3	C		1.64			F
MONT	27	1049	1124	1055	N02	E19	.360	12246	28.9	35	1N		C	1055	2.58			
515 TEHR	27	1142	1158	1145	N05	W29	.521	12249	25.3	16	--F	4	C		.64			F 3
GRP47516	27	1341	1422	1356	N08	E27	.514	12246	1.6	41	-N			1.07				4 3 3 5
TEHR	27	1340	1417	1354	N07	E25	.480	12246	1.4	37	-N	3	C		1.19			F
MCMA	27	1340	1435	1358	N08	E25	.488	12246	1.4	55	-N		C	1358	1.03	1.10		EKL
CAPS	27	1342	1415	1356	N08	E31	.566	12246	1.9	33	-B	2	V	1357	1.00	1.20	(250)	
HUAN	27	1406E	14290		N05	E27	.494	12246	1.6	23D	-N	1	P	1409	.46	.54		E
GRP47517	27	1853	1910	1857	N03	E16	.325	12246	1.0	17	--F			.29				3 3 3 3
MCMA	27	1852	1921	1856	N03	E15	.311	12246	28.9	29	-N		C	1856	.31	.30		EK
MCMA	27	1852	1921	1907	N03	E15	.311	12246	28.9	29	-N		C					
PALE	27	1853	1908	1859	N03	E17	.339	12246	1.1	15	-F	3	C		.27			F H
BOUL	27	1855	1900	1857	N03	E16	.325	12246	1.0	5	-F	2	V	1858	.30	.30		
	27	2336	0049		NO FLARE PATROL													
518 MANI	28	0208E	0211	0208	N03	E13	.284	12246	1.1	3D	--N	2		0208	.62	.65		2
GRP47519	28	0403	0428	0411	N08	E09	.303	12246	28.8	25	-N			1.15				3 3 3 3
MANI	28	0357	0432	0412	N09	E10	.326	12246	28.9	35	-B	2		0412	1.65	1.74		
TEHR	28	0405	0431	0409	N07	E08	.280	12246	28.8	26	-N	2	C		.63			F
MITK	28	0405	0422	0412	N09	E10	.326	12246	28.9	16	-N		C	0412	1.13	1.20		DL
TEHR	28	0407	0431	0410	N07	E08	.280	12246	28.8	24	-N	4	V		.66			F
4 STATIONS REPORTING GROUP 47520. 3 STATIONS OBSERVING AND NOT REPORTING.																		
GRP47520	28	0814	0843	0820	N09	E07	.303	12246	28.9	29	--F			.64				3 3 3 7
MONT	28	0811	0853	0824	N09	E08	.310	12246	28.9	42	-N		C	0824	.41			
MANI	28	0813	0819D	0815	N10	E06	.312	12246	28.8	6D	-F	1		0815	.31	.32		
TEHR	28	0818	0832	0822	N07	E08	.280	12246	28.9	14	-F	2	C		1.19			DE
520 CATA	28	0820	0920	0825	S09	E07	.125	12246	28.9	60	*-N	1		0825	.87	.90	(151)	6
520 MONT	28	0856	0920	0911	N09	E08	.310	12246	1.0	24	*-N		C	0911	.41			5
GRP47521	28	1102	1125	1111	N07	E14	.341	12246	1.5	23	--F			.51				5 4 4 7
TEHR	28	1100	1127	1105	N07	E13	.329	12246	1.4	27	-F	2	C		.64			DE
MEUD	28	1101	1122	1108	N07	E14	.341	12246	1.5	21	-F		C	1108	.41	.40		E
CAPS	28	1106	1121		N05	E15	.331	12246	1.6	15	-N	2	S	1115	.60	.60	(182)	
RAMY	28	1116E	1128	1119U	N07	E13	.329	12246	1.4	12D	-F	2	C		.37			DE
ATHN	28	1128E	1132	1128U	N06	E12	.306	12246	1.4	4D	-N	2	C		.50			DE
GRP47523	28	1311	1332	1317	N06	E13	.317	12246	1.5	21	-N			1.13				4 3 3 8
CAPS	28	1310	1319		N05	E15	.331	12246	1.7	9	-N	2	V	1318	.80			
MCMA	28	1310E	1345	1316	N07	E11	.308	12246	1.4	35D	-N		C	1316	1.34	1.40		F
MEUD	28	1312	1332	1315	N06	E13	.317	12246	1.5	20	-F		C	1315	1.24	1.30		E
CATA	28	1315E	1355D	1320	S06	E12	.208	12246	1.5	40D	-N	1		1320	1.73	1.81	(186)	
GRP47526	28	1543	1622	1602	N08	E02	.264	12246	28.8	39	--N			.31				3 2 2 6
RAMY	28	1537	1618	1541	N07	E01	.246	12246	28.7	41	-N	4	C		.31			DE
MCMA	28	1540	1624D	1604	N07	E01	.246	12246	28.7	44D	-N		C	1604	.31	.30		D
MEUD	28	1545	1620	1600	N08	E02	.264	12246	28.8	35	-N		C	1600	.31	.30		D
GRP47527	28	1626	1732	1632	N08	E02	.264	12246	28.8	66	--N			.68				2 2 2 4
MCMA	28	1624	1732D	1633	N08	E02	.264	12246	28.8	68D	-N		C	1633	.62	.60		E
RAMY	28	1627	1658D	1631	N07	E02	.248	12246	28.8	31D	-N	4	C		.74			DE
GRP47528	28	1732	1756	1737	N09	E03	.284	12246	1.0	24	--N			.55				4 4 4 4
HUAN	28	1728E	1735D		N09	E03	.284	12246	1.0	7D	-N	1	P	1734	.52	.54		E
PALE	28	1732	1752	1735	N09	E04	.287	12246	1.0	20	-B	3	C		.63			F H
RAMY	28	1733	1738D	1737U	N08	E03	.267	12246	1.0	5D	-N	4	V		.37			DE
MCMA	28	1733	1800	1739	N09	E01	.280	12246	28.8	27	-N		C	1739	.62	.60		E
PALE	28	1733	1752	1736	N08	E04	.271	12246	1.0	19	-B	3	V		.67			DE H
530 MCMA	28	2114	2130D	2117	N07	W02	.248	12246	28.7	16D	--N		C	2117	.26	.30		E 3
GRP47531	28	2155	2237	2200	N08	W01	.263	12246	28.8	42	1B			2.48				2 2 2 2
PALE	28	2155E	2227	2159	N07	E00	.245	12246	28.9	32D	1B	3	C		2.26			DE S
BOUL	28	2157E	2247	2200	N08	W01	.263	12246	28.8	50D	1B	3	V	2201	2.70			

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"Remarks":

A = Eruptive prominence, base at $>90^\circ$.
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 D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in $H\alpha$ line.
S = Brightening follows disappearance of filament (same position).
T = Region active all day.
U = Close and somewhat parallel bright filaments (H or Y shape).
V = Occurrence of an explosive phase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide $H\alpha$ emission.
Y = Onset of a system of loop-type prominences.
Z = Major sunspot umbra covered by flare.

Note:

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

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

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity. These subflares are also not included in the Flare Index below.

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
730201	23.30	22.9	730212	48.21	22.3	730221	1.54	19.4
730202	3.57	20.7	730213	9.69	19.6	730222	68.22	21.5
730203	0.00	23.9	730214	10.05	18.8	730223	8.16	21.7
730205	0.00	22.7	730215	11.47	22.9	730224	6.40	22.7
730206	0.00	22.6	730216	40.79	23.2	730225	1.43	24.0
730207	0.00	22.5	730217	5.78	22.3	730226	0.00	23.4
730208	0.00	23.7	730218	37.04	23.6	730227	30.71	22.0
730210	0.00	23.7	730219	24.40	22.8	730228	46.18	24.0
730211	3.64	23.5	730220	4.45	22.6			

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

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Feb 73

SOLAR FLARES

Unconfirmed

FEBRUARY 1973

OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE FEB	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
364 MEUD	01	1229	1235	1230	S09	E75	.963	12212	7.1	6	-F	C	1230	.31				D	4
373 MANI	04	0410	0424	0413	S07	E41	.652	12212	7.2	14	-F	2	0413	.31	.59				3
377 KODA	05	0204	0242		S08	E28	.467	12212	7.2	38	1N	P	0242	2.94	2.90			D	3
381 MONT	07	0940	0944	0942	S06	W04	.070	12212	7.1	4	-F	C	0942	.10					4
388 MANI	10	0739	0750	0742	S15	E84	.992	12227	16.6	11	-F	2	0742	.21	.58				5
389 ISTA	10	0851	0900		N07	E19	.396	12217	11.8	9	-F							D	5
392 RAMY	10	1948E	1957	1948U	S16	E78	.973	12227	16.7	90	-F	3	V	.23				DE	3
413 ZURI	14	1349E	1353U	1349	N15	W58	.879	12223	10.2	40	-F	P	1349	.63					5
414 HUAN	14	1358	1410	1400	N15	W58	.879	12223	10.2	12	-N	1	C	1400	.36	.73		D	5
415 HUAN	14	1418	1425	1421	N15	W59	.886	12223	10.2	7	-F	1	C	1421					5
416 ATHN	14	1520E	1535U	1520U	N14	W58	.876	12223	10.3	150	-N	2	V	.50				DE	4
418 BOUL	14	2253E	2302	2256	N16	W65	.929	12223	10.1	90	1F	2	V	2256					1
424 MANI	15	0608E	0622	0609	N15	W64	.921	12223	10.5	140	-B	1	0609	.72	1.50				1
425 CATA	15	0745	0755	0745	N15	W65	.927	12223	10.4	10	-N	3	0745	.29	.75		(191)		3
428 CAPS	15	1205	1211		S18	E17	.342	12227	16.8	6	-B	2	S	1209	.70	.70		(237) CH	4
429 ZURI	15	1300	1325	1302	S18	E17	.342	12227	16.8	25	-F	C	1302	1.47					5
432 PALE	15	1924	1951	1926	N13	W23	.504	12230	14.1	27	-F	3	V	.26				F	3
433 PALE	15	1924	1951	1936	N13	W23	.504	12230	14.1	27	-N	3	V	.52				F	3
434 PALE	15	2005	2010	2006	S13	W25	.428	12224	14.0	5	-F	3	V	.46				F	3
440 TEHR	16	0625E	0645	0625U	N12	W88	1.000	12223	9.7	200	-N	4	V	.87				F	2
442 TEHR	16	0842E	0857	0842U	S16	E10	.232	12227	17.1	150	-N	4	V	.33				DE	7
443 ISTA	16	1015	1030		N18	E90	1.001	12236	23.2	15	-F							AD	4
447 TEHR	17	0631	0645	0631	N12	W88	1.000	12217	10.7	14	-N	2	C	.28				F	1
458 ATHN	18	0823E	0837	0825	S17	E07	.211	12228	18.9	140	-F	3	V	.50				DE	3
459 ATHN	18	1425	1442	1428	S16	W04	.171	12228	18.3	17	-F	2	C	.33				DE	4
465 TEHR	20	0756	0802	0758	S18	E79	.976	12240	26.3	6	-N	4	V	.17				DE	7
466 CATA	20	0900	0910	0905	N09	W72	.959	12239	15.0	10	-N	1	0905	.29			(186)		3
480 MANI	23	0702	0715	0705	N06	E88	1.000	12246	1.9	13	-N	2	0705	.21	.64				3
496 HUAN	24	1303E	1310		N07	E68	.935	12246	1.6	10	-F	1	P	1310	.26				3
502 KODA	25	0221	0232	0224	N08	E58	.864	12246	1.4	11	-B	P	0231	1.99	1.90	2.00		D	4
508 MANI	25	2356E	0003	2356	N17	E73	.971	12252	3.5	70	-F	2	2356	.52	1.25				3
522 MEUD	28	1230	1236	1231	N03	E11	.259	12246	1.3	6	-F	C	1231	.21	.20			D	7
524 MEUD	28	1407	1412	1408	N08	E19	.411	12246	2.0	5	-N	C	1408	.31	.30			D	7
525 ZURI	28	1413	1431	1417	N05	E11	.283	12246	1.4	18	-N	C	1417	1.47					7
529 RAMY	28	1824E	1843D	1824U	N07	E01	.246	12246	28.8	190	-F	3	V	.23				DE	3