SOLAR FLARES
Confirmed

DECEMBER 1972

OBSERVATORY	OBSERVED UT DATE DEC	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	01	1210	1230	NO FLARE PATROL															
	01	1321	1326	NO FLARE PATROL															
	01	1506	1511	NO FLARE PATROL															
	01	1521	1524	NO FLARE PATROL															
	01	1547	1612	NO FLARE PATROL															
	01	1716	1913	NO FLARE PATROL															
	01	1940	2208	NO FLARE PATROL															
	02	1524	1534	NO FLARE PATROL															
	02	1629	2137	NO FLARE PATROL															
GRP46933	02	2322	2336	2326	S17	W54	.830	12126	28.9	14	1F				1.24				2 2 2 2
VORO	02	2322	2332	2324	S18	W53	.823	12126	29.0	10	1N		C	2324	1.29	2.21		60	E
CULG	02	2322	2340	2327	S15	W55	.835	12126	28.8	18	1F		C	2327	1.19	2.10			
	03	0301	0312	NO FLARE PATROL															
	03	0408	0426	NO FLARE PATROL															
	03	0431	0612	NO FLARE PATROL															
	03	0630	0726	NO FLARE PATROL															
934 CATA	03	1020	1035	1025	S11	W60	.872	12126	28.9	15	--F	2		1025	.29	.59		(141)	2
	03	1523	1621	NO FLARE PATROL															
	03	1631	1638	NO FLARE PATROL															
	03	1649	1855	NO FLARE PATROL															
	03	1905	1935	NO FLARE PATROL															
	03	1953	2157	NO FLARE PATROL															
	03	2329	2344	NO FLARE PATROL															
	04	1020	1027	NO FLARE PATROL															
	04	1043	1045	NO FLARE PATROL															
	04	1449	1458	NO FLARE PATROL															
	04	1520	2138	NO FLARE PATROL															
	04	2335	2351	NO FLARE PATROL															
938 RAMY	05	1325	1339	1327	S19	W24	.508	12132	3.8	14	--F	3	C		.28				DE 1
939 RAMY	05	1910	1931	1915	N11	E86	.998	12136	12.2	21	--F	3	C						DE 2
GRP46941	06	1320	1335	1325	N11	E70	.942	12136	11.8	15	--F				.32				4 4 3 7
CAPS	06	1317E	1330D		N10	E70	.941	12136	11.8	13D	-F	3	V	1320	.40				C
RAMY	06	1318	1330	1319	N12	E69	.936	12136	11.7	12	-N	3	C						DE
ARCE	06	1320E	1335D		N13	E71	.948	12136	11.9	15D	-F		C	1325	.40				
RAMY	06	1322E	1335		N11	E69	.936	12136	11.7	13D	-F	3	V						DE
CATA	06	1325	1335	1325	N09	E70	.941	12136	11.8	10	-F	2		1325	.17			(148)	
944 RAMY	06	1933	1946	1936	N12	E67	.924	12136	11.8	13	--F	2	C						DE 3
	06	2321	2345	NO FLARE PATROL															
GRP46946	07	0654E	0716	0656	N11	E58	.854	12136	11.6	22	--F				.91				2 1 1 4
TEHR	07	0654E	0716	0656	N11	E58	.854	12136	11.6	22D	-F	1	C		.91				F
ATHN	07	0705E	0717	0708	N11	E59	.863	12136	11.7	12D	-N	1	C		.66				F
	07	1957	2015	NO FLARE PATROL															
	07	2017	2040	NO FLARE PATROL															
	07	2049	2101	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.

SOLAR FLARES
Confirmed

DECEMBER 1972

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	07	2121	2138	NO FLARE PATROL															
	07	2147	2220	NO FLARE PATROL															
GRP46950	08	0242	0311	0247	N10	E52	.795	12136	12.0	29	-N				.93				3 3 3 3
VORO	08	0242	0310D	0245	N12	E52	.798	12136	12.0	28D	1N		C	0245	1.47	2.32		74	EJL
CRON	08	0244E	0257	0244U	N09	E52	.794	12136	12.0	13D	-F	2	V	0244	.60				
MANI	08	0252E	0325	0252	N09	E52	.794	12136	12.0	33D	-N	2		0252	.72	1.18			
	08	0310	0318	NO FLARE PATROL															
951 MANI	08	0735	0820	0749	N11	E51	.786	12136	12.1	45	--F	2		0749	.41	.66			2
952 RAMY	08	1530E	1540	1530U	N11	E43	.696	12136	11.9	10D	--F	3	V		.37				DE 2
	08	1940	1946	NO FLARE PATROL															
	08	2037	2116	NO FLARE PATROL															
	08	2136	2154	NO FLARE PATROL															
GRP46953	08	2258	2345	2308	N10	E38	.631	12136	11.8	47	1N				2.33				3 3 3 3
CRON	08	2257	2322	2302	N10	E37	.618	12136	11.7	25	-F	2	C	2302	.54	.68			
CULG	08	2258	2352	2311	N10	E37	.618	12136	11.7	54	1B		C	2311	2.53	3.20			
MANI	08	2300E	0000	2310	N10	E40	.656	12136	12.0	60D	2B	2		2310	3.92	5.13			
	09	0351	0356	NO FLARE PATROL															
	09	1550	1609	NO FLARE PATROL															
GRP46955	10	0033	0200	0051	N11	E25	.458	12136	11.9	87	-N				1.98				5 5 5 5
CULG	10	0033	0253	0055	N12	E23	.437	12136	11.7	140	1N		C	0055	2.32	2.50			
MANI	10	0033	0200	0050	N11	E25	.458	12136	11.9	87	-N			0050	1.96	2.18			
MANI	10	0033	0200	0043	N11	E25	.458	12136	11.9	87	-N	2		0043	1.24	1.38			
PALE	10	0033	0156	0044	N12	E26	.478	12136	12.0	83	-B	2	V		1.44				Z F
PALE	10	0033	0156	0037	N12	E26	.478	12136	12.0	83	-N	2	V		1.03				Z F
CRON	10	0034E	0146	0055	N11	E26	.472	12136	12.0	72D	-N	3	V	0055	1.20				
CRON	10	0034E	0146	0048U	N09	E25	.447	12136	11.9	72D	-N	3	V	0048	.75				
VORO	10	0041E	0216		N12	E25	.464	12136	11.9	95D	1N		C	0049	2.96	3.13		77	EJL
GRP46956	10	0622	0640	0626	N12	E18	.369	12136	11.6	18	--F				.74				3 3 3 4
ABST	10	0621	0636	0626	N13	E19	.391	12136	11.7	15	-F		C	0626	1.35	1.50			EZ
ATHN	10	0623	0643	0626	N12	E18	.369	12136	11.6	20	-F	2	C		.33				DE
TEHR	10	0625E	0641	0627	N11	E17	.347	12136	11.5	16D	-N	3	C		.55				F
GRP46957	10	0812	0822	0817	N10	E21	.395	12136	11.9	10	--N				.50				3 3 3 8
ATHN	10	0812	0826	0816	N10	E21	.395	12136	11.9	14	-F	2	C		.33				DE
MONT	10	0812	0820	0816	N10	E20	.381	12136	11.8	8	-N		C	0816	.72				
TEHR	10	0813	0820	0818U	N10	E22	.409	12136	12.0	7	-N	3	C		.45				F
	10	1510	1750	NO FLARE PATROL															
958 RAMY	10	1755E	1810D		N10	E13	.284	12136	11.7	15D	-N	1	V						F 2
GRP46959	10	1846	1902	1848	N12	E15	.330	12136	11.9	16	--F				.31				2 2 1 3
PALE	10	1846	1902	1848	N12	E18	.369	12136	12.1	16	-N	2	V		.31				F
RAMY	10	1853E	1855D		N12	E12	.294	12136	11.7	2D	-F	1	V						F
GRP46960	11	0502	0523	0506	N12	E09	.263	12136	11.9	21	-F				.72				2 2 1 4
MANI	11	0501	0529	0508	N12	E07	.245	12136	11.7	28	-N	2		0508	.72	.74			
SIBE	11	0502	0516	0503	N12	E10	.273	12136	12.0	14	1F		V						FIKV
961 ATHN	11	0731	0741	0734	N12	E07	.245	12136	11.8	10	--F	1	C		.33				DE 3
963 ATHN	11	1000E	1005	1000U	N12	E04	.225	12136	11.7	5D	--F	1	C		.33				DE 5
964 MONT	11	1146	1155	1148	N11	E03	.204	12136	11.7	9	--N		C	1148	.21				2
965 MONT	11	1201	1208	1206	N11	E03	.204	12136	11.7	7	--N		C	1206	.21				3
966 MONT	11	1219	1245D	1236	S18	E14	.380	12137	12.6	26D	--N		C	1236	.41				H 3
967 MCMA	11	1403E	1430D		N23	E56	.859	12141	15.8	27D	--N		C	1415	.41	.70			EH 4
GRP46970	11	1512	1527	1514	S20	E52	.814	12139	15.5	15	--F				.53				2 2 2 3
BOUL	11	1512E	1523	1515	S21	E52	.817	12139	15.5	11D	-F	3	V	1515	.50	2.20			
RAMY	11	1513E	1530D	1513U	S18	E51	.800	12139	15.5	17D	-N	3	V		.56				DE

SOLAR FLARES
Confirmed

DECEMBER 1972

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GRP46971	11	1722	1741	1725	N12	E01	.215	12136	11.8	19	--B				.73				4 4 4 4
BOUL	11	1721	1732	1725	N13	E01	.232	12136	11.8	11	-N	2	C	1725	.65	.65			
RAMY	11	1722	1745	1725U	N12	E02	.217	12136	11.9	23	-N	3	V		.83				DE
PALE	11	1722	1745	1725	N11	E03	.204	12136	11.9	23	-B	3	V		.83				DE
MCMA	11	1725E	1731D		N11	W03	.204	12136	11.5	6D	-B		P	1725	.62	.60			E
972 MCMA	11	1805E	1825		N10	W08	.226	12136	11.2	20D	--F		C	1816	.21	.20			DH 4
GRP46976	11	1945	2001	1948	N11	W01	.198	12136	11.7	16	--N				.60				3 3 3 6
RAMY	11	1945	1956	1947U	N12	W01	.215	12136	11.7	11	-N	3	V		.66				DE
PALE	11	1945	2005	1948	N11	E02	.200	12136	12.0	20	-B	4	V		.72				DE
PALE	11	1945	2005	1958	N11	E02	.200	12136	12.0	20	-F	4	V		.62				DE
MCMA	11	1946	1951D		N10	W05	.199	12136	11.4	5D	-N		P	1948	.41	.40			D
978 CULG	12	0144	0237	0149	N11	E02	.202	12136	12.2	53	1F		C	0149	2.89	2.90			3
GRP46986	12	1514	1530	1518	S20	E39	.680	12139	15.6	16	--F				.64				2 2 2 3
HUAN	12	1514	1527	1518	S19	E39	.675	12139	15.6	13	-N	2	C	1518	.67	.92			D
BOUL	12	1518E	1533	1518U	S20	E39	.680	12139	15.6	15D	-F	2	V	1518	.60	1.00			
987 HUAN	12	1635	1637	1635	S19	E39	.675	12139	15.6	2	--N	1	C	1635	.62	.84			D 2
988 BOUL	12	1805	1830	1810	S21	E38	.674	12139	15.6	25	-N	2	V	1810	.90	1.20			2
	12	1845	1852	NO FLARE PATROL															
	12	2240	2249	NO FLARE PATROL															
GRP46990	13	0330	0342	0333	N12	W12	.298	12136	12.2	12	--N				.44				4 4 3 4
SIBE	13	0330E	0345	0336	N11	W13	.299	12136	12.2	15D	1F		V						DI
CRON	13	0330	0339	0333	N12	W13	.310	12136	12.2	9	-N	3	V	0333	.30				
MITK	13	0330	0346	0331	N12	W12	.298	12136	12.2	16	-N		C	0331	.62	.60			E
PALE	13	0331E	0339D	0333U	N13	W11	.300	12136	12.3	8D	-N	1	V		.41				F
GRP46994	13	1032E	1057	1033	N11	W17	.350	12136	12.2	25	--N				.63				2 2 2 3
TEHR	13	1032E	1041D	1033U	N11	W18	.364	12136	12.1	9D	-N	1	V		.66				DE
CAPS	13	1033E	1057D		N10	W15	.314	12136	12.3	24D	-N	1	S	1035	.60	.60		(182)	
995 RAMY	13	1340	1354	1342U	N12	W20	.399	12136	12.1	14	--F	3	C		.56				DE 2
	13	1420	1425	NO FLARE PATROL															
996 HUAN	13	1602	1606	1604	S21	E26	.538	12139	15.6	4	--F	1	C	1604					3
997 BOUL	13	1647	1730	1652	N11	W28	.503	12136	11.6	43	--F	2	V	1652	1.70	2.00			1
998 PALE	13	2237	2244	2238	N10	W18	.356	12136	12.6	7	--F	3	V		.31				F 2
GRP47006	14	1238	1352	1248	N11	W40	.662	12136	11.5	74	-N				2.67				4 2 2 5
MONT	14	1229	1240D	1235	N13	W40	.669	12136	11.5	11D	-N		C	1235	.72				
RAMY	14	1236	1352	1248	N11	W39	.650	12136	11.6	76	-F	3	C		1.49				DE
CAPS	14	1238E	1352D		N11	W38	.637	12136	11.7	74D	-N	1	V	1304	1.20	1.80		(176)	
WEND	14	1257E	1330D		N11	W42	.687	12136	11.4	33D	1N		P		4.13				
GRP47007	14	1518	1534	1520	S20	E14	.401	12139	15.7	16	--N				.61				2 2 2 2
RAMY	14	1518	1537	1520	S19	E15	.398	12139	15.8	19	-N	3	C		.46				DE
BOUL	14	1518	1530	1520	S20	E13	.392	12139	15.6	12	-N	3	V	1520	.75	.75			
	14	1648	1707	NO FLARE PATROL															
	14	2244	2253	NO FLARE PATROL															
GRP47008	15	0539	0644	0551	S06	E47	.733	12143	18.8	65	1B				3.54				5 4 4 5
CULG	15	0522	0812	0544	S06	E47	.733	12143	18.7	170	2B		C	0544	4.64	6.70			
MANI	15	0536E	0655	0550	S05	E48	.744	12143	18.8	79D	1B	2		0550	3.09	4.77			
CRON	15	0541	0625	0558	S08	E46	.724	12143	18.7	44	1F	1	C	0558	1.61	2.27			
KODA	15	0550	0632	0550	S04	E48	.744	12143	18.8	42	1B		C	0550	4.82	4.80	2.64		EH
TEHR	15	0656E	0714D	0657U	S04	E50	.767	12143	19.0	18D	1N	1	C		2.56				F
009 RAMY	15	1340E	1348D	1340U	S20	E02	.329	12139	15.7	8D	--F	3	C		.37				DE 3
GRP47010	15	1652	1701	1653	S20	W02	.329	12139	15.6	9	--F				.46				2 2 1 2
RAMY	15	1650	1700	1652	S19	E00	.311	12139	15.7	10	-F	3	C		.46				DE
BOUL	15	1653	1701	1654	S20	W04	.334	12139	15.4	8	-F	1	V	1654					
011 RAMY	15	1810	1834	1813	N12	W61	.882	12136	11.2	24	--F	3	C		.46				DE 2

SOLAR FLARES
Confirmed

DECEMBER 1972

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GRP47013	16	0344	0440	0349	N12	W57	.849	12136	11.9	56	1B				3.39				5 4 4 5
CULG	16	0341	0450D	0349	N12	W56	.840	12136	12.0	69D	1B		P	0349	2.48	4.70			
KODA	16	0346	0449	0346	N12	W58	.857	12136	11.8	63	1B		C	0346	5.81	5.80	5.20		CEHU
MANI	16	0346E	0428	0348	N11	W57	.847	12136	11.9	42D	1B	1		0348	1.55	1.77			
TEHR	16	0354E	0434	0354U	N12	W58	.857	12136	11.8	40D	2B	2	C		3.71				F
MITK	16	0408E	0445D		N11	W58	.856	12136	11.8	37D	1N		C	0408	2.48	4.80			E
GRP47014	16	0503E	0519	0506	S05	E36	.590	12143	18.9	16	-N				1.28				2 2 2 3
TEHR	16	0503E	0520	0505U	S03	E36	.588	12143	18.9	17D	-N	1	C		1.73				F
MANI	16	0504E	0518	0507	S07	E36	.593	12143	18.9	14D	-N	1		0507	.83	1.02			
016 TEHR	16	0628	0638	0632	S18	W10	.336	12139	15.5	10	-N	2	C		1.09				F 2
	16	1315	1432	NO FLARE PATROL															
018 RAMY	16	1436E	1442D	1436U	S04	E28	.471	12143	18.7	6D	--F	3	V		.33				DE 1
	16	1442	1458	NO FLARE PATROL															
	16	1725	1728	NO FLARE PATROL															
	16	1742	1746	NO FLARE PATROL															
	16	1748	1807	NO FLARE PATROL															
	16	1821	1839	NO FLARE PATROL															
	16	1841	1957	NO FLARE PATROL															
	16	1958	2000	NO FLARE PATROL															
	16	2005	2111	NO FLARE PATROL															
019 BOUL	16	2056	2110	2100	S20	W14	.397	12139	15.8	14	-N	1	V						1
	16	2155	2221	NO FLARE PATROL															
020 MANI	17	0013E	0024	0013	S05	E25	.427	12143	18.9	11D	--F	1		0013	.52	.56			2
021 MANI	17	0027E	0120	0033	N12	W66	.919	12136	12.1	53D	--N	1		0033	.31	.63			2
022 MANI	17	0033	0050	0035	S04	E25	.425	12143	18.9	17	--N	1		0035	.31	.34			2
023 TEHR	17	1214	1229	1218	S17	W31	.565	12139	15.2	15	--N	2	C		.45				F 2
	17	1332	1335	NO FLARE PATROL															
024 RAMY	17	1438	1446D	1445	S07	E22	.386	12143	19.3	8D	--F	2	C		.93				DE 1
	17	1446	1454	NO FLARE PATROL															
025 HUAN	17	1513	1527	1517	S21	E38	.670	12144	20.5	14	-N	1	C	1517	.72	.98			D 3
026 HUAN	17	1635	1638	1635	S21	E38	.670	12144	20.5	3	--F	1	C	1635	.21	.28			D 3
028 HUAN	17	1649	1657	1652	S21	E37	.659	12144	20.5	8	--F	1	C	1652	.62	.82			E 3
029 BOUL	17	2003	2033	2006	S07	E13	.246	12143	18.8	30	--N	2	V	2006	.80	.80			1
	17	2104	2121	NO FLARE PATROL															
	17	2135	2143	NO FLARE PATROL															
GRP47030	18	0041	0109	0050	S07	E11	.214	12143	18.9	28	-F				2.69				2 2 2 4
MITK	18	0040	0115	0055	S05	E12	.217	12143	18.9	35	1N		C	0055	4.54	4.80			EG
MANI	18	0041	0102	0045	S08	E10	.208	12143	18.8	21	-F	2		0045	.83	.85			
GRP47032	18	0452	0522	0503	S07	E07	.157	12143	18.7	30	-N				1.15				2 2 2 3
MANI	18	0447	0516	0503	S08	E08	.181	12143	18.8	29	-N	2		0503	.93	.94			
TEHR	18	0457	0528	0503	S06	E06	.133	12143	18.7	31	-N	2	C		1.37				U
GRP47033	18	0606	0623	0615	S21	W42	.713	12139	15.1	17	--N				.45				2 2 2 4
TEHR	18	0605	0623	0615	S21	W40	.691	12139	15.3	18	-N	3	C		.27				F
MANI	18	0606	0622	0615	S21	W44	.734	12139	15.0	16	-N	2		0615	.62	.92			
4 STATIONS REPORTING GROUP 47034. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP47034	18	0658	0758	0710	S09	E08	.193	12143	18.9	60	1N				4.73				2 2 2 4
CRON	18	0652E	0747	0711	S08	E07	.168	12143	18.8	55D	-N	3	V	0711	1.60				
KODA	18	0704	0809	0709	S09	E08	.193	12143	18.9	65	2N		C	0709	7.86	7.90	1.68		CEH

SOLAR FLARES
Confirmed

DECEMBER 1972

OBSERVATORY	OBSERVED UT DATE DEC	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
47034	18	0645	0754	0658	S07	E06	.144	12143	18.7	69	*-N				2.64				2 2 2 4
MANI	18	0645	0743	0654	S08	E07	.168	12143	18.8	58	1N	2		0654	3.09	3.15			
TEHR	18	0645	0805	0702	S06	E05	.120	12143	18.7	80	-N	3	C		2.19				F
038 HUAN	18	1708	1714	1713	S07	E27	.462	12144	20.7	6	--F	1	C	1713	.10	.12			D 2
039 RAMY	18	1804E	1808	1804U	S23	W49	.791	12139	15.1	4D	--F	4	V		.28				DE 2
040 HUAN	18	1927	1935	1932	S16	E24	.467	12144	20.6	8	--F	1	C	1932	.15	.17			D 2
GRP47041	18	2029	2117	2053	S07	E01	.102	12143	18.9	48	--F				.56				2 2 1 3
RAMY	18	2028E	2113	2054	S06	E00	.083	12143	18.9	45D	-N	3	V		.56				DE
RAMY	18	2028E	2113	2031	S06	E00	.083	12143	18.9	45D	-F	3	V		.46				DE
BOUL	18	2030	2120	2052	S07	E01	.102	12143	18.9	50	-F	2	V						
	18	2128	2140	NO FLARE PATROL															
042 BOUL	18	2150	2156	2150	S07	E24	.416	12144	20.7	6	--F	2	V						1
	18	2200	2202	NO FLARE PATROL															
043 VORO	19	0054	0129	0102	S07	W02	.104	12143	18.9	35	-B		C	0102	2.03	2.00		66	EJL 3
GRP47048	19	1333	1342	1335	S07	E16	.291	12144	20.8	9	--F				.48				2 2 2 4
HUAN	19	1333	1338	1335	S08	E16	.297	12144	20.8	5	-F	1	C	1335	.26	.27			D
CAPS	19	1334E	1345D		S05	E15	.266	12144	20.7	11D	-F	2	V	1335	.70	.70		(150)	C
GRP47050	19	1643	1702	1645	S07	W11	.213	12143	18.9	19	--F				.41				2 2 2 2
HUAN	19	1643	1705	1644	S07	W10	.198	12143	18.9	22	-F	1	P	1644	.36	.37			E
RAMY	19	1644E	1658	1645	S07	W12	.229	12143	18.8	14D	-F	4	V		.46				DE
051 RAMY	19	1656	1705		S09	E86	.997	12151	26.2	9	-N	3	C						DE 2
052 RAMY	19	1808	1841		N01	E86	.998	12151	26.2	33	--F	3	C						DE 2
053 RAMY	19	1848	1856	1850	N15	E17	.398	12145	21.1	8	--N	4	V		.21				DE 2
054 PALE	19	2025	2029	2027	S05	E11	.200	12144	20.7	4	--F	2	V		.21				1
055 PALE	19	2137	2148	2146	S07	W12	.229	12143	19.0	11	--F	2	V		.41				F 1
GRP47056	20	0227	0234	0229	N14	E17	.389	12145	21.4	7	--F				.69				2 2 2 5
PALE	20	0226	0234	0228	N14	E17	.389	12145	21.4	8	-F	1	C		.55				
MITK	20	0227	0233	0229	N14	E16	.378	12145	21.3	6	-N		C	0229	.83	.90			D
059 HUAN	20	1417	1421	1418	S07	E41	.659	12147	23.7	4	--F	1	C	1418	.31	.40			D 3
060 PALE	20	1937	1941	1938	N11	E41	.677	12149	23.9	4	--F	1	C		.27				3
061 PALE	20	2015	2021	2017	N11	E41	.677	12149	23.9	6	--F	1	C		.27				3
062 PALE	20	2212E	2219	2213U	N12	E40	.669	12149	23.9	7D	--F	2	V		.26				2
	20	2250	2256	NO FLARE PATROL															
	21	0331	0342	NO FLARE PATROL															
	21	0344	0352	NO FLARE PATROL															
	21	0353	0402	NO FLARE PATROL															
	21	0403	0412	NO FLARE PATROL															
	21	0415	0426	NO FLARE PATROL															
GRP47068	21	1612	1618	1614	N11	E32	.563	12149	24.1	6	--F				.62				2 2 2 2
RAMY	21	1607	1620	1609	N10	E31	.544	12149	24.0	13	-F	3	C		.46				DE
RAMY	21	1612E	1619	1613U	N11	E31	.549	12149	24.0	7D	-F	3	V		.56				DE
HUAN	21	1613E	1617	1614	N11	E33	.576	12149	24.2	4D	-F	1	C	1614	.67	.82			D
	21	1651	1702	NO FLARE PATROL															
GRP47069	21	1944	1959	1948	N12	E29	.528	12149	24.0	15	--F				.51				2 2 2 3
RAMY	21	1944	2001	1948	N12	E30	.541	12149	24.1	17	-F	2	C		.56				DE
PALE	21	1946E	1957	1948U	N12	E28	.515	12149	23.9	11D	-F	3	V		.46				F
GRP47076	22	1124E	1133	1125	S09	E49	.758	12151	26.2	9	-N				1.12				2 2 2 5
RAMY	22	1124E	1132	1125U	S09	E47	.735	12151	26.0	8D	-N	2	C		1.39				DE
UPIC	22	1124E	1133D		S08	E50	.768	12151	26.2	9D	-N		P	1124	.85				E

SOLAR FLARES
Confirmed

DECEMBER 1972

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
078 RAMY	22	1436	1448	1440	S09	E30	.511	12150	24.9	12	--F	2	C		.37				DE 3
079 RAMY	22	1521	1545	1525	N10	E15	.326	12149	23.8	24	--F	2	C		.56				DE 2
	22	1704	1715	NO FLARE PATROL															
	22	1724	1725	NO FLARE PATROL															
080 BOUL	22	1846	1900	1847	N11	E15	.336	12149	23.9	14	--F	3	V	1847	.40	.42			2
GRP47081	22	2253E	2258	2254	N11	E14	.324	12149	24.0	5	--N				.41				2 2 2 3
MANI	22	2253E	2256	2253	N11	E13	.312	12149	23.9	3D	-N	1		2253	.52	.54			
CRON	22	2255E	2300D	2255	N11	E14	.324	12149	24.0	5D	-N		V	2255	.30				
GRP47082	23	0040E	0108	0046	N11	E10	.280	12149	23.8	28	-N				1.28				2 2 2 5
VORO	23	0040E	0115		N11	E09	.270	12149	23.7	35D	-B		C	0042	1.94	2.00		62	EJ
MANI	23	0046E	0101	0046	N11	E10	.280	12149	23.8	15D	-F	2		0046	.62	.65			
GRP47085	23	0146	0201	0148	N13	E13	.337	12149	24.0	15	-N				1.19				4 4 4 5
MANI	23	0144E	0154	0148	N13	E12	.327	12149	24.0	10D	-N	2		0148	.83	.87			
PALE	23	0145	0152	0148	N12	E14	.336	12149	24.1	7	-F	2	C		.45				
VORO	23	0146	0151D	0148	N14	E12	.340	12149	24.0	5D	-B		C	0151	1.11	1.16		62	DJ
KODA	23	0148	0217		N13	E13	.337	12149	24.0	29	-N		C	0148	2.38	2.40			E
086 MANI	23	0431E	0431	0431	N10	E10	.267	12149	23.9		--N	2		0431	.31	.32			2
GRP47087	23	0518	0556	0534	N10	E08	.247	12149	23.8	38	-N				1.55				2 1 1 3
MANI	23	0518	0556	0534	N10	E08	.247	12149	23.8	38	-N	2		0534	1.55	1.60			
SIBE	23	0521	0523D	0523	N09	E09	.244	12149	23.9	2D	2F		V						FJLUV
	23	0645	0655	NO FLARE PATROL															
GRP47090	23	1343	1349	1345	N10	E06	.230	12149	24.0	6	--F				.37				2 2 2 4
RAMY	23	1342	1350	1344	N11	E05	.239	12149	23.9	8	-N	4	V		.33				DE
HUAN	23	1344	1347	1345	N09	E06	.215	12149	24.0	3	-F	1	C	1345	.41	.42			E
092 HUAN	23	2013	2023	2020	N09	W07	.224	12149	23.3	10	--F	1	C	2020	.41	.42			D 3
093 PALE	23	2339	2340D	2340	N10	W05	.223	12149	23.6	1D	--F	2	C		.27				4
GRP47097	24	1543	1552	1545	S13	E15	.317	12151	25.8	9	--F				.31				2 2 2 3
RAMY	24	1542	1550	1545	S13	E15	.317	12151	25.8	8	-F	4	C		.46				DE
HUAN	24	1543	1553		S13	E14	.304	12151	25.7	10	-F	1	C	1545	.15	.16			D
098 HUAN	24	1613	1617	1614	N10	W10	.269	12149	23.9	4	--F	1	C	1614	.67	.70			D 2
099 BOUL	24	2028	2037	2029	N13	W15	.361	12149	23.7	9	--F	1	V						2
	24	2054	2136	NO FLARE PATROL															
GRP47100	24	2205	2225	2208	N12	W17	.374	12149	23.6	20	-N				.99				2 2 1 2
PALE	24	2205	2209D	2208	N10	W18	.368	12149	23.6	4D	-N	4	C		.99				F
BOUL	24	2205	2225	2207U	N13	W16	.372	12149	23.7	20	-N	2	V						
GRP47101	25	0045	0111	0052	N11	W19	.391	12149	23.6	26	-B				1.70				2 2 2 5
VORO	25	0039	0118	0052	N11	W18	.378	12149	23.7	39	1B		C	0052	2.87	3.05		73	FJ
MANI	25	0050	0103	0052	N10	W20	.396	12149	23.5	13	-N	2		0052	.52	.56			
102 TACH	25	0601	0612	0605	N18	W51	.810	12145	21.4	11	-N		C	0605	.83	1.42		76	D 3
GRP47103	25	0755	0818	0810	N13	W23	.460	12149	23.6	23	--F				.87				2 2 1 3
ISTA	25	0755	0810		N12	W22	.439	12149	23.7	15	-F								
CATA	25	0800E	0825	0810	N13	W23	.460	12149	23.6	25D	-N	2		0810	.87	.98		(186)	
GRP47104	25	0901	0909	0905	N19	W50	.804	12145	21.6	8	--F				.58				2 2 1 2
CATA	25	0900	0910	0905	N19	W50	.804	12145	21.6	10	-N	3		0905	.58	.97		(155)	
ISTA	25	0902	0908		N18	W50	.800	12145	21.6	6	-F								ES
105 CATA	25	0955	1030	1010	N16	W90	1.000	12142	18.7	35	1F	3		1010	.58			(123)	2
106 CATA	25	1220	1225	1220	N19	W52	.822	12145	21.6	5	-B	3		1220	.58	1.01		(214)	2
107 RAMY	25	1255	1304D	1257	N11	W27	.498	12149	23.5	9D	--F	4	C		.37				DE 3
	25	2242	2305	NO FLARE PATROL															
108 MANI	25	2305E	2314	2305	N12	W37	.635	12149	23.2	9D	--N	1		2305	.41	.53			1
109 MANI	26	0033	0053	0038	N11	W35	.605	12149	23.4	20	--F	2		0038	.31	.39			2

SOLAR FLARES
Confirmed

DECEMBER 1972

OBSERVATORY	OBSERVED UT DATE DEC	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP47110	26	0218	0245	0223	N13	W38	.652	12149	23.2	27	--F				.58				2 2 2 2
PALE	26	0218	0228	0222	N13	W37	.640	12149	23.3	10	-N	3	C		.63				F
MANI	26	0220E	0240	0224	N12	W38	.648	12149	23.2	20D	-F	2		0224	.52	.67			
PALE	26	0240	0250	0243	N13	W38	.652	12149	23.3	10	-F	3	C		.27				F
	26	0400	0401	NO FLARE PATROL															
	26	0431	0439	NO FLARE PATROL															
	26	0443	0604	NO FLARE PATROL															
GRP47111	26	1221E	1241	1226	N11	W41	.681	12149	23.4	20	-F				1.71				2 2 2 5
WEND	26	1221E	1237		N10	W40	.665	12149	23.5	16D	1N		V		3.09				
RAMY	26	1226E	1245	1226U	N12	W41	.684	12149	23.4	19D	-F	4	C		.33				DE
112 HUAN	26	1342	1349	1345	N15	W75	.971	12145	20.9	7	--F	1	C	1345	.21				D 3
GRP47113	26	1818	1828	1820	N13	W41	.688	12149	23.7	10	--F				.54				3 3 3 3
PALE	26	1816	1826	1819	N14	W40	.680	12149	23.8	10	-F	3	C		.37				F
RAMY	26	1818	1830	1820	N13	W42	.699	12149	23.6	12	-F	2	C		.21				DE
HUAN	26	1819	1827	1820	N12	W41	.684	12149	23.7	8	-F	1	C	1820	1.03	1.40			
GRP47114	26	2014	2021	2017	N12	W47	.753	12149	23.3	7	-N				.83				2 2 2 2
PALE	26	2010	2022	2016	N10	W48	.759	12149	23.2	12	-N	3	V		.83				F
PALE	26	2010	2022	2013	N10	W48	.759	12149	23.2	12	-F	3	V		.26				F
HUAN	26	2017	2019	2017	N13	W46	.745	12149	23.4	2	-N	1	C	2017	.83	1.23			D
GRP47115	27	0000	0013	0005	N13	W45	.734	12149	23.6	13	-B				1.79				2 2 2 3
VORO	27	0000	0011D	0003	N11	W47	.750	12149	23.5	11D	1B		C	0003	2.77	4.10		83	EHJ
PALE	27	0006E	0013	0006U	N14	W43	.714	12149	23.8	7D	-N	3	C		.81				F
GRP47116	27	0044	0051	0045	N11	W48	.761	12149	23.4	7	-N				1.88				2 2 2 3
MITK	27	0044	0052	0045	N13	W48	.766	12149	23.4	8	-F		C	0045	.52	.80			D
VORO	27	0044	0050	0045	N09	W47	.745	12149	23.5	6	1B		C	0045	3.24	4.65		97	D
GRP47117	27	0119	0135	0122	N12	W47	.753	12149	23.5	16	-N				1.08				4 4 4 4
PALE	27	0117	0137	0124	N13	W47	.755	12149	23.5	20	-N	3	C		.64				F
VORO	27	0119	0138	0123	N10	W48	.758	12149	23.5	19	1B		C	0123	2.12	3.15		80	EJ
MITK	27	0120	0139	0121	N12	W47	.753	12149	23.5	19	-N		C	0121	.93	1.40			E
MANI	27	0120E	0124	0120	N11	W44	.716	12149	23.8	4D	-N	1		0120	.62	.89			
GRP47118	27	0301	0316	0303	N18	W41	.709	12149	24.1	15	--F				.45				2 2 2 4
PALE	27	0300	0316	0303	N18	W40	.698	12149	24.1	16	-F	3	C		.27				
MITK	27	0301	0316	0302	N17	W41	.704	12149	24.1	15	-F		C	0302	.62	.90			D
121 RAMY	27	1345E	1400	1347U	N10	W56	.839	12149	23.4	15D	--N	4	C		.37				DE 3
	27	1655	1729	NO FLARE PATROL															
	27	2124	2144	NO FLARE PATROL															
	27	2145	2201	NO FLARE PATROL															
122 RAMY	28	1158	1215	1200	S15	W87	.998	12146	22.0	17	--F	2	C						DE 3
GRP47123	28	1318	1340	1324	S15	W89	1.000	12146	21.9	22	-N				.85				2 2 1 2
RAMY	28	1318	1334	1322	S15	W88	.999	12146	22.0	16	-N	3	C						DE
UPIC	28	1320E	1346D	1325	S14	W90	1.000	12146	21.8	26D	-N		P	1325	.85				
	28	1438	1608	NO FLARE PATROL															
	28	1612	1633	NO FLARE PATROL															
124 VORO	28	2348E	0005D		S17	W21	.426	12153	27.4	17D	-N		P	2351	1.75	1.90		60	EH 3
125 VORO	29	0051	0105	0052	S17	W22	.438	12153	27.4	14	-B		C	0052	1.11	1.20		67	EH 3
GRP47126	29	0306	0323	0310	S17	W24	.464	12153	27.3	17	-B				.85				2 2 2 4
VORO	29	0306	0314	0308	S17	W23	.451	12153	27.4	8	-B		C	0308	1.29	1.41		66	EH
MANI	29	0312E	0332	0312	S16	W25	.470	12153	27.3	20D	-N	1		0312	.41	.47			
129 MEUD	29	1339	1350	1342	S12	E61	.875	12158	3.1	11	--F		C	1342	.41	.80			D 1
	29	1403	1410	NO FLARE PATROL															
	29	1443	1455	NO FLARE PATROL															
	29	1951	1954	NO FLARE PATROL															

SOLAR FLARES
Confirmed

DECEMBER 1972

OBSERVATORY	OBSERVED UT DATE DEC	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	29	1958	2017	NO FLARE PATROL															
	29	2054	2100	NO FLARE PATROL															
	29	2132	2150	NO FLARE PATROL															
	29	2203	2217	NO FLARE PATROL															
	29	2337	2341	NO FLARE PATROL															
130 MITK	30	0245	0303	0250	S16	W39	.651	12153	27.2	18	--F		C	0250	.52	.70			D 3
131 MITK	30	0319	0337	0322	S16	W39	.651	12153	27.2	18	--F		C	0322	.52	.70			D 3
132 ATHN	30	1438E	1440D	1438U	N08	E88	1.000	12160	6.2	2D	-N	1	V						F 3
GRP47133	30	1859	1926	1907	N06	E80	.986	12160	5.8	27	--F				.37				2 2 2 2
PALE	30	1859	1926	1906	N05	E80	.986	12160	5.8	27	-F	2	C		.36				
PALE	30	1859	1926	1918	N05	E80	.986	12160	5.8	27	-F	2	C		.36				
RAMY	30	1907E	1922D	1908	N06	E79	.983	12160	5.7	15D	-F	3	C		.37				DE
GRP47134	31	0224	0243	0231	N07	E75	.968	12160	5.7	19	1N				1.06				7 6 6 7
CULG	31	0221	0337	0231	N07	E75	.968	12160	5.7	76	1N		C	0231	.67	1.60			
CRON	31	0222E	0235	0227	N06	E72	.953	12160	5.5	13D	-N	1	V	0227	.40				
MANI	31	0225E	0238	0232	N07	E74	.964	12160	5.7	13D	-N	2		0232	.62	1.44			
PALE	31	0226	0246D	0231	N07	E73	.959	12160	5.6	20D	-F	2	C		.55				F
VORO	31	0227	0244	0232	N11	E81	.990	12160	6.2	17	2F		C	0232	2.96	11.00		66	
MITK	31	0228E	0251D	0231	N06	E75	.968	12160	5.7	23D	1N		C	0231	1.13				E
KODA	31	0240	0245	0243	N09	E65	.912	12160	5.0	5	-N		V						
137 RAMY	31	1302	1311	1304	N08	E69	.938	12160	5.7	9	--F	2	C		.46				DE 3
138 RAMY	31	1810	1818	1812	N05	E73	.958	12160	6.2	8	--N	3	C		.19				DE 2
139 HUAN	31	1907	1913	1909	N06	E67	.924	12160	5.8	6	--F	1	C	1909					D 2

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
721201	0.00	18.6	721212	48.36	23.7	721222	6.63	23.8
721202	10.20	18.7	721213	0.00	23.9	721223	28.80	23.8
721203	0.00	14.9	721214	37.62	23.5	721224	5.25	23.3
721204	0.00	17.1	721215	66.14	24.0	721225	22.44	23.6
721206	0.00	23.6	721216	83.82	18.9	721226	19.91	22.5
721207	0.00	22.3	721217	2.74	23.4	721227	43.19	22.8
721208	33.22	22.8	721218	163.25	23.8	721228	21.10	22.1
721209	0.00	23.6	721219	22.59	24.0	721229	10.38	22.6
721210	27.36	21.3	721220	0.00	23.9	721230	0.84	24.0
721211	2.74	24.0	721221	0.00	23.0	721231	5.93	24.0

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

SOLAR FLARES
Unconfirmed
DECEMBER 1972

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE DEC	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 Hα	MAX. INT. %		
930 MANI	01	0231	0241	0233	S17	W26	.519	12131	29.2	10	-F	2		0233	.41	.48				6
931 MANI	01	0451E	0451	0451	S14	W09	.299	12125	30.5		-N	2		0451	.52	.54				5
932 RAMY	01	1700E	1708	1701U	N20	E20	.459	12127	3.2	8D	-F	3	V		.33				DE	3
935 CATA	04	1120	1125	1120	S12	W85	.997	12126	28.1	5	-F	3		1120	.29			(135)		4
936 MANI	05	0602E	0606	0602	S14	W19	.402	12132	3.8	4D	-N	1		0602	.72	.78				4
937 MONT	05	1158	1210	1201	S17	W27	.527	12132	3.5	12	-N		C	1201	.21					4
940 VORO	06	0028	0056	0034	N14	E84	.995	12136	12.3	28	-N		C	0034	.37	1.77		55	D	5
942 RAMY	06	1629	1658	1633U	N11	E67	.923	12136	11.7	29	-F	3	V		.37				DE	3
943 RAMY	06	1701	1715	1704	N03	W08	.147	12135	6.1	14	-F	3	C		.19				DE	4
945 MANI	07	0652	0705	0658	S11	E60	.872	12137	11.8	13	-F	2		0658	.62	1.13				3
947 ATHN	07	0815E	0822D	0815U	N10	E59	.862	12136	11.8	7D	-N	1	V		.50				DE	8
948 ARCE	07	1135E	1204D		N13	E64	.904	12136	12.3	29D	-F		C	1145	.25	.60				8
949 HUAN	07	1233	1243D	1236	S12	E64	.904	12137	12.3	10D	-F	1	C	1236	.46	1.02			D	7
954 MITK	09	0038E	0126D		N10	E37	.618	12136	11.8	48D	-N		C	0038	1.44	1.80			D	5
962 ATHN	11	0855E	0858D	0857	N11	E03	.204	12136	11.6	3D	-N	2	V		.33				DE	4
968 MCMA	11	1431	1432D		N10	W01	.181	12136	11.5	1D	-N		P	1431	.52	.50			E	4
969 MCMA	11	1451E	1503D		S19	E52	.812	12139	15.5	12D	-F		P	1451	.36	.70			E	4
973 PALE	11	1849	1859	1854	N11	E02	.200	12136	11.9	10	-F	3	V		.36				F	4
974 PALE	11	1939E	1946	1941U	N18	E56	.848	12141	16.0	7D	-F	4	V		.31				F	5
975 PALE	11	1943E	1952	1944U	S19	E47	.763	12139	15.3	9D	-F	4	V		.57				DE	5
977 PALE	11	2245E	2250	2247U	S10	E08	.216	12137	12.5	5D	-F	3	V		.26				F	3
979 VORO	12	0305	0313	0306	S17	E47	.756	12139	15.7	8	-B		C	0306	.93	1.33		72	DJ	5
980 VORO	12	0338	0353	0341	S17	E46	.745	12139	15.6	15	-B		C	0341	.93	1.31		77	DJ	4
981 ATHN	12	0712E	0716D	0714U	S19	E42	.709	12139	15.5	4D	-N	1	C		1.32				F	5
982 ISTA	12	0855E	0925D		S19	E42	.709	12139	15.5	30D	-N								B	8
983 MONT	12	0934	0945	0939	N13	W03	.239	12136	12.2	11	-N		C	0939	.21					8
984 RAMY	12	1128E	1140		S18	E38	.659	12139	15.3	12D	-F	2	V		.33				DE	5
985 WEND	12	1219	1247		S18	E41	.694	12139	15.6	28	1F		V		4.13					4
989 VORO	13	0006	0050		S18	E33	.599	12139	15.5	44	1N		P	0016	1.85	2.26		68	EJ	3
991 SIBE	13	0415E	0434	0415	S20	E34	.622	12139	15.7	19D	1F		V						EJTV	3
992 SIBE	13	0445	0553	0450	S19	E32	.593	12139	15.6	68	2F		V						FJLW	4
993 ATHN	13	0806	0826	0808	S09	E26	.457	12138	15.3	20	-F	2	V		.33				DE	4
999 PALE	13	2341	2349	2344	S18	E24	.489	12139	15.8	8	-F	3	V		.26					4
000 ISTA	14	0739	0742		S19	E20	.451	12139	15.8	3	-F								D	4
001 ISTA	14	0806	0815		N10	W42	.684	12136	11.2	9	-F									4
002 ISTA	14	0824	0826		S19	E15	.398	12139	15.5	2	-F								D	5
003 MONT	14	1032	1042D	1034	N11	W44	.711	12136	11.1	10D	-N		C	1034	.21					5
004 CAPS	14	1043E	1057D		N11	W43	.699	12136	11.2	14D	-N	1	V	1043	.60	.80			C	5
005 MONT	14	1155	1208	1159	S03	E60	.866	12143	19.0	13	-N		C	1159	.21					5
012 MANI	16	0239	0246	0242	S19	W12	.366	12139	15.2	7	-F	1		0242	.21	.22				4

SOLAR FLARES
Unconfirmed
DECEMBER 1972

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %		
015 MANI	16	0540E	0602	0541	S08	E36	.595	12143	18.9	22D	-F	1		0541	.31	.38				3
017 TEHR	16	0950E	0958	0951U	S05	E35	.576	12143	19.0	8D	-F	2	V		.50				F	4
027 BOUL	17	1646E	1655	1646U	N11	W74	.964	12136	12.1	9D	-F	1	V	1646						3
031 MANI	18	0423	0433	0425	S21	W43	.723	12139	15.0	10	-N	2		0425	1.13	1.64				4
035 CAPS	18	0815E	0900D		S07	E05	.132	12143	18.7	45D	1N	2	S	0817	4.00	4.00		(170)	B	6
036 MEUD	18	1222	1227	1223	S20	W80	.985	12137	12.5	5	-F		C	1223	.41				E	6
037 MEUD	18	1228	1248		S21	W85	.996	12137	12.1	20	-F		C	1229	.52				A	5
044 CATA	19	1005E	1010	1005	S18	W59	.868	12139	15.0	5D	-N	3		1005	.29	.58		(162)		6
045 TEHR	19	1045E	1053	1045U	S17	W56	.841	12139	15.2	8D	-N	2	V		.33				DE	5
046 CATA	19	1105	1120	1105	S21	W90	1.000	12137	12.7	15	-F	3		1105	.29			(112)		5
047 RAMY	19	1326	1355		S09	E87	.998	12151	26.1	29	-N	3	C						DE	4
049 HUAN	19	1454	1457	1455	S17	E25	.487	12146	21.5	3	-F	1	C	1455					D	5
057 MITK	20	0409	0453	0420	S09	W21	.378	12143	18.6	44	-N		C	0420	1.75	1.90			DG	5
058 MANI	20	0726E	0732	0730	N11	E50	.780	12149	24.1	6D	-F	2		0730	.41	.66				3
063 MITK	21	0036	0059	0039	N11	E39	.653	12149	24.0	23	1N		C	0039	2.89	3.90			E	5
064 MITK	21	0228	0324	0246	N11	E38	.641	12149	24.0	56	1N		C	0246	2.78	3.80			E	5
065 UPIC	21	1039E	1047D	1041	N12	E37	.632	12149	24.2	8D	-N		P	1041	.63				D	4
066 ATHN	21	1227E	1234D	1227U	N15	E30	.560	12149	23.8	7D	-N	1	V		.33				DE	5
067 RAMY	21	1418	1425	1419	N15	W06	.303	12145	21.1	7	-F	3	C		.37				DE	5
070 MITK	22	0003	0115	0021	N12	E27	.502	12149	24.0	72	-N		C	0021	1.65	1.90				6
071 MANI	22	0602E	0620	0602	N13	E24	.470	12149	24.1	18D	-F	1		0602	.31	.35				3
072 MANI	22	0630E	0715	0630	N11	E22	.428	12149	23.9	45D	-N	1		0630	.83	.90				3
GRP47073	22	0730	0747	0732	N11	E21	.414	12149	23.9	17	-N				.68				2 2 2	5
MANI	22	0730E	0747	0731	N11	E21	.414	12149	23.9	17D	-N	1		0731	.52	.56				
ATHN	22	0733E	0736D	0733U	N11	E20	.401	12149	23.8	3D	-N	1	V		.83				F	
074 CATA	22	0810	0815D	0810	N12	E22	.436	12149	24.0	5D	-N	2		0810	.29	.32		(178)		7
075 UPIC	22	1010E	1010D		N11	E18	.374	12149	23.8		-F		P	1010	1.05				E	6
077 WEND	22	1409	1446		N12	E14	.335	12149	23.6	37	1F		V		4.13					3
083 VORO	23	0052	0053D		N14	W23	.466	12145	21.3	1D	-B		P	0053	1.20	1.31		61	DJ	5
084 VORO	23	0121	0139	0126	N11	E09	.270	12149	23.7	18	-B		C	0126	1.20	1.23		61	EH	4
088 ISTA	23	0845	0935D		N11	E08	.261	12149	24.0	50D	-N									4
089 HUAN	23	1137E	1217		N10	E06	.230	12149	23.9	40D	-F	1	P	1146					E	5
091 RAMY	23	1444E	1454	1446	N11	E01	.224	12149	23.7	10D	-F	4	V		.52				DE	3
094 MANI	24	0439E	0446	0439	N09	W07	.226	12149	23.7	7D	-F	2		0439	.31	.32				3
095 TEHR	24	0714E	0718D	0715U	N10	W06	.232	12149	23.9	4D	-N	2	V		.66				DE S	3
096 RAMY	24	1424	1434	1432	N12	W13	.326	12149	23.6	10	-F	4	C		.46				DE	6
119 VORO	27	0317	0322	0318	N09	W50	.778	12149	23.4	5	-B		C	0318	.93	1.35		65	D	4
120 MANI	27	0825	0843	0830	N11	W50	.782	12149	23.6	18	-N	2		0830	.21	.33				6
127 MANI	29	0404E	0418	0407	S16	W25	.470	12153	27.3	14D	-N	1		0407	.41	.47				4
128 MANI	29	0627E	0639	0627	S16	W26	.483	12153	27.3	12D	-F	1		0627	.31	.35				5
135 VORO	31	0256	0309D	0300	S11	E42	.675	12166	3.3	13D	-B		C	0300	1.47	1.98		67	EGJ	4
136 CRON	31	0430E	0438	0432	N06	E69	.936	12160	5.4	8D	-N	2	V	0432	.35					3