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Apr 73

SOLAR FLARES Confirmed

APRIL 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE APR	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
942 MANI	01	0005E	0018	0005U	N13	E60	.889	12298	5.5	130	--N	2	0005	.31	.59			2
GRP47943	01	0023	0041	0029	N10	W41	.695	12280	28.9	18	-N			1.47				3 3 3 3
MANI	01	0022	0040	0026	N10	W40	.684	12280	29.0	18	-N	2	0026	.62	.86			
VORO	01	0023	0044	0026	N09	W43	.714	12280	28.8	21	18		0026	2.89	3.80		81	ESL
PALE	01	0034E	0039	0034U	N10	W40	.684	12280	29.0	50	-N	3		.91				DE
GRP47944	01	0131	0205	0137	N09	W41	.691	12280	29.0	34	-N			.78				3 3 3 4
MANI	01	0128	0205	0137	N09	W40	.679	12280	29.1	37	-F	2	0137	.41	.57			
PALE	01	0133	0144D	0136	N10	W40	.684	12280	29.1	110	-F	3		.55				F
VORO	01	0137E	0155D		N08	W42	.699	12280	28.9	180	-B		0138	1.38	1.88		69	EL
GRP47945	01	0238	0254	0242	N10	W40	.684	12280	29.1	16	--N			.54				2 2 2 4
MITK	01	0238	0254	0242	N10	W40	.684	12280	29.1	16	-N		0242	.62	.90			D
PALE	01	0242E	0243D	0242U	N10	W40	.684	12280	29.1	10	-N	3		.45				
GRP47947	01	0608	0630	0613	N09	W43	.714	12280	29.0	22	--F			.86				2 2 2 4
MANI	01	0608	0630	0613	N09	W43	.714	12280	29.0	22	-N	2	0613	.62	.89			
BUCA	01	0615E	0630D		N09	W43	.714	12280	29.0	150	-F		0617	1.10	1.60			
GRP47948	01	0751	0814	0758	N12	E51	.809	12298	5.2	23	-B			.78				6 6 5 9
CANR	01	0735	0810	0756	N13	E52	.821	12298	5.2	35	-B		0756	.80	1.20			
ISTA	01	0750	0810		N12	E51	.809	12298	5.2	20	-N							
MANI	01	0752	0820	0758	N12	E51	.809	12298	5.2	28	-N	2	0756	.41	.70			
BUCA	01	0754E	0814D		N11	E50	.796	12298	5.1	20D	-N		0802	1.10	1.80			
ARCE	01	0759E	0819		N11	E52	.816	12298	5.2	20D	-B		0800	1.00	1.70			
CATA	01	0800E	0810	0800	N13	E50	.803	12298	5.1	10D	-B	1	0800	.58	.97		(501)	
GRP47949	01	0810	0837	0813	S04	E13	.228	12293	2.3	27	18			2.61				7 7 6 10
ISTA	01	0805	0830	0810	S05	E13	.225	12293	2.3	25	28							
CATA	01	0807	0845	0811	S04	E12	.212	12293	2.2	38	18	3	0811	3.19	3.26		(229)	
ARCE	01	0810	0839D	0817	S04	E12	.212	12293	2.2	29D	-N		0817	.40	.40			
MANI	01	0811	0845	0815	S04	E12	.212	12293	2.2	34	1N	2	0815	2.84	2.89			
CANR	01	0812	0814D		S04	E12	.212	12293	2.2	20	18		0814	3.00	3.00			
BUCA	01	0813E	0830D		S04	E13	.228	12293	2.3	17D	1N		0817	2.21	2.30			E
CAPS	01	0814	0830		S04	E14	.245	12293	2.4	16	18	2	0815	4.00	4.00		(430)	
GRP47950	01	1037	1048	1038	N09	W43	.714	12280	29.2	11	--N			.32				3 3 3 4
CATA	01	1035	1050	1035	N10	W45	.741	12280	29.1	15	-N	3	1035	.58	.86		(178)	
CANR	01	1038	1038D		N08	W44	.722	12280	29.1		-F		1038	.20	.30			
TEHR	01	1038E	1046	1038U	N08	W40	.675	12280	29.4	80	-N	3		.17				DE
	01	1122	1130		NO FLARE PATROL													
GRP47954	01	1402	1417	1405	S04	E10	.178	12293	2.3	15	-F			1.67				5 4 2 5
CAPS	01	1400	1420		S14	E12	.241	12293	2.5	20	-B	3	1407	1.20	1.20		(204)	C
BOUL	01	1401	1425	1403	S03	E09	.168	12293	2.3	24	-N							
CANR	01	1401E	1411		S03	E12	.216	12293	2.5	100	1F		1406	2.40	2.40			
RAMY	01	1402E	1402D	1402U	S04	E08	.145	12293	2.2		-N	2		.93				F
CAPF	01	1403	1415	1410	S04	E10	.178	12293	2.3	12	-F		1410		.86			
GRP47955	01	1508	1527	1509	N15	E52	.828	12298	5.5	19	--N			.60				2 2 2 4
BOUL	01	1507	1525	1509	N17	E51	.825	12298	5.5	18	-N		1509	.80	1.20			
CAPS	01	1509	1528		N13	E52	.821	12298	5.5	19	-N	3	1514	.40	.70		(189)	C
GRP47956	01	1530	1553	1536	S04	E10	.178	12293	2.4	23	1N			3.40				4 4 3 4
BOUL	01	1509	1530	1512	S03	E09	.168	12293	2.3	21	-N							
CAPS	01	1510	1600	1536	S04	E12	.212	12293	2.5	50	18	3	1536	4.00	4.00		(290)	
CANR	01	1530	1545	1536	S03	E11	.200	12293	2.5	15	1N		1536	3.60	3.60			
BOUL	01	1530	1557	1536	S03	E09	.168	12293	2.3	27	1N							
RAMY	01	1532E	1551	1534	S04	E07	.129	12293	2.2	19D	1N	3		2.60				F
GRP47957	01	1703	1734	1708	N13	E44	.742	12298	5.0	31	-B			1.44				5 5 4 7
RAMY	01	1702	1733	1707	N13	E45	.752	12298	5.1	31	-B	3		1.58				F
MCMA	01	1703	1735		N13	E44	.742	12298	5.0	32	18		1712	1.39	2.10			FH
CANR	01	1703	1730	1705	N14	E45	.756	12298	5.1	27	18		1705	2.00	2.80			
HUAN	01	1703	1732	1711U	N11	E45	.744	12298	5.1	29	-N	1	1711	.77	1.17			E
BOUL	01	1704	1742	1708	N15	E43	.740	12298	4.9	38	-N							
GRP47958	01	1745	1759	1749	N14	E49	.796	12298	5.4	14	--B			.55				4 4 4 6
BOUL	01	1743	1806	1750	N17	E50	.817	12298	5.5	23	-N		1750	.70	1.00			
MCMA	01	1744	1755	1748	N14	E48	.787	12298	5.3	11	-B		1748	.52	1.00			E
CANR	01	1745	1756	1750	N13	E48	.783	12298	5.3	11	-B		1750	.40	.60			
HUAN	01	1746	1754D	1748	N12	E49	.789	12298	5.4	8D	-N	1	1748	.57	.95			
	01	1922	1938		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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	DATE 1973 APR	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 _g	MAX. INT. %	
GRP47959	01	2000	2110	2003	N08	W55	.836	12280	28.7	70	-N			.80				2 1 1 2
BOUL	01	2000	2110D	2003	N08	W55	.836	12280	28.7	70D	-N	V		.80	1.40			F
PALE	01	2001E	2049D	2010	N14	W68	.943	12280	27.7	48D	-N	2 C		.55				
	01	2110	2128	NO FLARE PATROL														
	01	2145	2150	NO FLARE PATROL														
GRP47960	01	2202	2311	2213	N14	E43	.736	12298	5.1	69	1B			4.05				3 2 2 3
VORO	01	2202	2310	2210	N16	E43	.745	12298	5.1	68	2N	C	2210	6.65	9.43		83	FHJL
PALE	01	2214E	2312	2215	N12	E42	.716	12298	5.1	58D	-B	2 C		1.44				DE H
MANI	01	2259E	2310	2259U	N13	E41	.709	12298	5.0	11D	-N	2	2259	.52	.76			
961 VORO	01	2316	2335	2320	N15	E41	.719	12298	5.0	19	-N	C	2320	1.02	1.42		59	EHL 3
963 ATHN	02	0459	0507	0502	N11	E43	.722	12298	5.4	8	--F	1 C		.33				DE 3
GRP47967	02	0913	0922	0915	N09	W59	.873	12280	29.0	9	--F			.30				4 4 3 10
MONT	02	0912	0918	0914	N09	W59	.873	12280	29.0	6	-N	C	0914	.21				
TEHR	02	0913E	0918	0915	N08	W57	.854	12280	29.1	5D	-N	3 C		.36				DE
ISTA	02	0914	0929		N09	W59	.873	12280	29.0	15	-F							E
ATHN	02	0914E	0922	0916	N10	W60	.883	12280	28.9	8D	-F	3 V		.33				DE
ATHN	02	0914E	0918D	0914U	N11	W60	.885	12280	28.9	4D	-F	3 C		.33				DE
MONT	02	0920	0939	0926	N09	W61	.889	12280	28.8	19	-N	C	0926	.21				DE
GRP47969	02	0948	1012	0954	N14	E37	.670	12298	5.2	24	--N			.47				8 8 6 8
ARCE	02	0940E	1005D		N13	E37	.664	12298	5.2	25D	-N	C	0953	.43	.60			
MONT	02	0947	1014	0954	N15	E38	.687	12298	5.3	27	-N	C	0954	.72				D
WEND	02	0949E	1008D		N15	E36	.665	12298	5.1	19D	-N							
ISTA	02	0949	1006		N13	E38	.675	12298	5.3	17	-B							DE
ATHN	02	0950E	1012	0953	N14	E40	.703	12298	5.4	22D	-N	3 V		.50				
CANR	02	0950	1015	0953	N14	E38	.681	12298	5.3	25	-N	V	0953	.60	.80			
CATA	02	0950	1015	0955	N15	E37	.676	12298	5.2	25	-B	1	0955	.29	.39		(229)	
CAPS	02	0950	1013		N15	E35	.654	12298	5.0	23	-N	2 V	0953	.30	.40		(168)	
GRP47970	02	1045	1107	1047	S04	W04	.082	12293	2.1	22	--F			.49				2 2 2 7
MONT	02	1045	1103	1047	S05	W04	.074	12293	2.1	18	-N	C	1047	.41				E
RAMY	02	1045E	1110	1046U	S03	W04	.092	12293	2.1	25D	-F	2 V		.56				DE
GRP47972	02	1239	1255	1245	N14	E35	.647	12298	5.2	16	--N			.31				3 3 3 6
ARCE	02	1236E	1303D		N15	E36	.665	12298	5.2	27D	-N	C	1240	.37	.50			
MONT	02	1239	1251	1245	N15	E37	.676	12298	5.3	12	-F	C	1245	.21				D
TEHR	02	1243	1251	1245	N12	E32	.599	12298	4.9	8	-N	3 C		.36				F H
GRP47973	02	1240	1303	1251	S13	E48	.739	12299	6.1	23	--F			.31				2 1 1 6
ARCE	02	1240E	1303D		S13	E48	.739	12299	6.1	23D	-F	C	1240	.31	.50			
MONT	02	1241	1301	1251	S13	E49	.751	12299	6.2	20	-F	C	1251	.10				
GRP47974	02	1323	1410	1328	N12	E34	.623	12298	5.1	47	1B			3.33				6 6 6 6
CANR	02	1322	1345	1326	N12	E31	.587	12298	4.9	23	1B	V	1326	2.80	3.30			
RAMY	02	1322	1410	1326	N11	E35	.629	12298	5.2	48	1B	3 V		1.96				F
WEND	02	1323E	1343D		N14	E33	.624	12298	5.0	20D	2N	P		8.25				F
TEHR	02	1324E	1352	1327	N10	E35	.623	12298	5.2	28D	1N	3 V		1.98				F
ATHN	02	1324E	1403	1325	N12	E38	.670	12298	5.4	39D	-B	2 V		1.49				F
CATA	02	1325	1350D	1335	N13	E33	.618	12298	5.0	25D	1B	3	1335	3.48	4.15		(229)	Z
976 HUAN	02	1512	1517		S05	W02	.043	12293	2.5	5	--F	1 C	1516	.10	.10			D 3
978 PALE	02	1711E	1718	1715	S06	W10	.173	12293	2.0	7D	--B	2 C		.72				F 3
GRP47979	02	1858E	1916	1902	N13	E36	.653	12298	5.5	18	--F			.36				2 2 2 2
RAMY	02	1858E	1915D	1900U	N12	E37	.658	12298	5.6	17D	-F	3 V		.52				DE
PALE	02	1903E	1916	1904U	N13	E35	.641	12298	5.4	13D	-F	2 C		.19				F
980 PALE	02	1903E	1917	1904U	S15	E81	.984	12300	8.9	14D	--F	2 C		.19				2
GRP47981	02	1925E	1942	1927	N10	W67	.932	12280	28.8	17	--F			.36				2 2 1 2
RAMY	02	1925E	1939		N10	W66	.926	12280	28.9	14D	-F	2 V						DE
PALE	02	1927E	1944	1927U	N10	W68	.938	12280	28.7	17D	-F	2 C		.36				F
982 PALE	02	1939	2001	1944	S06	W07	.121	12293	2.3	22	--F	3 V		1.03				DE 2
983 PALE	02	2031E	2037	2035	N13	E33	.618	12298	5.3	6D	--F	3 V		.31				2
	02	2131	2210	NO FLARE PATROL														
984 PALE	02	2210E	2213D	2212U	S03	W08	.151	12293	2.3	3D	--N	3 V		.21				2

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM-PORTANCE	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 Ha	MAX. INT. %	
					LAT.	MER. DIST.													
	1973									MIN.									
GRP47985	APR	02	2358	0009	0002	S05	W07	.124	12293	2.5	11	--N				.91			3 3 3 3
MANI		02	2358	0009	0002	S03	W08	.151	12293	2.4	11	-N	2	0002	.83	.83			
VORO		02	2358	0009	0003	S04	W09	.162	12293	2.3	11	-B		0003	1.29	1.28		64	E
PALE		03	0000E	0002D	0001U	S07	W05	.087	12293	2.6	2D	-F	3		.62				F
986 VORO		03	0056	0101D	0058	N17	E28	.592	12298	5.1	5D	--B		0058	.37	.44		62	D
988 MANI		03	0245	0251	0246	S14	E80	.981	12300	9.1	6	--N	2	0246	.31	.80			2
989 MANI		03	0322	0338D	0332	S14	E79	.977	12300	9.1	16D	--F	2	0332	.31	.78			2
990 MANI		03	0341	0423D	0343	N10	W76	.976	12280	28.5	42D	--N	1	0343	.41	1.00			2
GRP47992		03	0458	0514	0500	N13	E24	.511	12298	5.0	16	--N			.39				2 2 2 3
TEHR		03	0456E	0513	0459	N12	E22	.479	12298	4.9	17D	-N	3		.26				F
MANI		03	0500	0515D	0501	N14	E26	.543	12298	5.2	15D	-N	1	0501	.52	.62			
GRP47993		03	0458	0512	0501	S14	E75	.961	12300	8.8	14	-N			.45				3 3 3 4
MANI		03	0457	0515	0503	S14	E77	.970	12300	9.0	18	-N	2	0503	.52	1.25			
ATHN		03	0458E	0511	0458U	S15	E73	.951	12300	8.7	13D	-N	2		.66				DE
TEHR		03	0458	0510	0503	S12	E75	.961	12300	8.8	12	-N	3		.18				DE
GRP47996		03	0711	0720	0711	S08	W15	.258	12293	2.2	9	--N			.30				2 2 2 5
TEHR		03	0711	0720	0711	S08	W15	.258	12293	2.2	9	-N	3		.26				F
ATHN		03	0711E	0719	0711U	S07	W15	.257	12293	2.2	8D	-N	3		.33				DE
GRP47998		03	0759	0838	0804	S06	W16	.274	12293	2.1	39	-N			1.11				7 7 6 8
ATHN		03	0756	0832	0802	S07	W16	.274	12293	2.1	36	-N	3		1.32				DE
MEUD		03	0756	0833	0805	S05	W17	.292	12293	2.1	37	-N		0805	.72	.70			E
CANR		03	0758	0804	0800	S05	W13	.225	12293	2.4	6	-N		0800	.80	.80			
BUCA		03	0800E	0845D		S08	W16	.275	12293	2.1	45D	-F		0806	1.32	1.40			
CATA		03	0800	0840D	0810	S06	W17	.291	12293	2.1	40D	-N	3	0810	1.44	1.51		(191)	Z
ISTA		03	0800E	0923		S06	W16	.274	12293	2.1	83D	-N							F
MANI		03	0800	0827	0802	S07	W17	.291	12293	2.1	27	-N	2	0802	1.03	1.08			
MANI		03	0810	0840	0822	S05	W12	.208	12293	2.4	30	-F	2	0822	.83	.84			
GRP47999		03	0834	0852	0842	S06	W17	.291	12293	2.1	18	-N			.93				3 3 3 8
MANI		03	0832	0854	0838	S06	W17	.291	12293	2.1	22	-N	2	0838	1.03	1.08			
MEUD		03	0836	0850		S06	W17	.291	12293	2.1	14	-N		0837	.72	.70			E
HERS		03	0841E	0846D	0846D	S05	W18	.308	12293	2.0	5D	-N		0843	1.03	1.08			E
GRP48003		03	1334	1343	1336	N14	E21	.488	12298	5.1	9	--N			.41				3 3 3 5
ATHN		03	1333E	1341	1335	N13	E21	.477	12298	5.1	8D	-N	3		.33				DE
RAMY		03	1335E	1430	1338U	N14	E20	.477	12298	5.1	55D	-F	3		.62				DE
CATA		03	1335	1345	1335	N14	E22	.499	12298	5.2	10	-N	3	1335	.29	.33		(191)	
GRP48004		03	1412	1431	1420	N14	E21	.488	12298	5.2	19	--F			1.03				3 3 3 6
CATA		03	1410E	1445	1420	N15	E20	.488	12298	5.1	35D	1N	3	1420	2.31	2.65		(191)	
MEUD		03	1412	1426		N13	E21	.477	12298	5.2	14	-F		1413	.62	.70			H
HUAN		03	1413	1422		N13	E21	.477	12298	5.2	9	-F	1	1416	.15	.71			D
GRP48006		03	1524	1533	1525	S06	W20	.340	12293	2.1	9	--N			.57				3 3 3 6
BOUL		03	1523E	1535D	1525	S06	W19	.324	12293	2.2	12D	-N		1525	.80	.80			
MEUD		03	1523	1525		S06	W20	.340	12293	2.1	2	-N		1523	.62	.60			E
CATA		03	1525	1540D	1525	S07	W20	.340	12293	2.1	15D	-B	3	1525	.29	.30		(224)	
GRP48007		03	1527	1543	1529	S14	E68	.922	12300	8.7	16	1N			1.25				3 3 3 6
BOUL		03	1526E	1544D	1528	S10	E68	.922	12300	8.7	18D	1N		1528	2.25	2.56			
MEUD		03	1526	1541		S15	E68	.921	12300	8.7	15	1N		1528	.93				
CATA		03	1530	1540D	1530	S16	E68	.921	12300	8.7	10D	-B	3	1530	.58			(209)	
03 2001 2035 NO FLARE PATROL																			
2 STATIONS REPORTING GROUP 48012. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP48012		03	2105	2120	2109	S03	W23	.394	12293	2.2	15	--N			.83				2 2 1 2
BOUL		03	2104E	2120D	2107	S03	W22	.378	12293	2.2	16D	-N							
RAMY		03	2105	2115D	2110U	S03	W23	.394	12293	2.2	10D	-N	3		.83				DE
012 RAMY		03	2105	2115D	2110U	N03	W23	.420	12293	2.2	10D	*-N	3		.83				DE
013 PALE		03	2130	2136D	2132	S06	W24	.405	12293	2.1	6D	--F	2		.19				F
016 MANI		04	0228	0237	0231	S04	W27	.454	12293	2.1	9	--N	2	0231	.31	.34			2
017 TEHR		04	0304	0314	0306	S07	W29	.482	12293	2.0	10	--F	2		.37				DE

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1973 APR	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 _g	MAX. INT. %		
					LAT.	MER. DIST.													
GRP48018	04	0522	0552	0525	N14	E11	.393	12298	5.0	30	--N				.47				3 3 3 3
ATHN	04	0518	0547	0523	N16	E12	.428	12298	5.1	29	-N	2	V		.50				DE
MANI	04	0523E	0556	0525	N13	E12	.387	12298	5.1	33D	-N	2		0525	.62	.67			
TEHR	04	0524	0533D	0527	N13	E10	.371	12298	5.0	9D	-N	1	C		.28				F
6 STATIONS REPORTING GROUP 48019. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP48019	04	0908	0927	0912	S03	W31	.516	12293	2.1	19	--N				.57				5 5 4 8
UPIC	04	0905	0932	0910	S02	W31	.518	12293	2.1	27	-B		P	0910	.85				K
MEUD	04	0907	0915		S03	W31	.516	12293	2.1	8	-F		C	0908	.36	.40			
ATHN	04	0910E	0933	0911	S04	W32	.529	12293	2.0	23D	-F	2	V		.50				DE
KHAR	04	0910	0918	0912	S01	W29	.491	12293	2.2	8	-F		P				1.80		D
CATA	04	0915E	0935	0915	S03	W30	.501	12293	2.1	20D	-N	3		0915	.58	.67		(166)	
48019	04	0918	0933	0923	S04	W28	.469	12293	2.3	15	*-N				.60				3 3 2 8
ATHN	04	0910E	0933	0923	S04	W32	.529	12293	2.0	23D	-N	2	V		.50				DE
CAPS	04	0922	0932		S08	W24	.405	12293	2.6	10	-N	1	V	0924	.70	.80		(168)	
KHAR	04	0923	0930D		S01	W29	.491	12293	2.2	7D	-N		V				2.10		D
7 STATIONS REPORTING GROUP 48020. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP48020	04	1130	1259	1201	S12	E69	.928	12300	9.7	89	1B				1.50				5 4 4 7
MEUD	04	1129	1245		S12	E68	.922	12300	9.6	76	1N		C	1141	1.55				F
CANR	04	1130	1300D	1200	S13	E68	.922	12300	9.6	90D	1N		V	1200	1.40	3.40			
UPIC	04	1154E	1251	1159	S11	E68	.922	12300	9.6	57D	1B		P	1159	1.49				
CATA	04	1155E	1235D	1205	S11	E68	.922	12300	9.6	40D	1B	3		1205	1.73			(389)	
ARCE	04	1204E	1305D		S13	E73	.951	12300	10.0	61D	1N		C	1207	1.37	3.30			
48020	04	1126E	1230	1130	S18	E71	.940	12300	9.8	64	*1N				.66				2 2 1 7
KHAR	04	1126E	1230D		S21	E70	.934	12300	9.7	64D	2N		P				2.10		CEHL
ATHN	04	1130E	1137D	1130U	S14	E72	.946	12300	9.9	7D	-N	2	V		.66				DE
GRP48022	04	1234	1250	1237	S06	W34	.556	12293	2.0	16	--N				.55				2 2 2 6
MEUD	04	1233	1243	1237	S06	W34	.556	12293	2.0	10	-F		C	1237	.72	.80			E
ARCE	04	1235	1257		S05	W33	.543	12293	2.0	22	-B		C	1247	.37	.40			
GRP48023	04	1346	1412	1355	S06	W35	.571	12293	1.9	26	-N				.79				3 3 2 5
MEUD	04	1345	1402	1353	S06	W34	.556	12293	2.0	17	-F		C	1353	.72	.80			E
BOUL	04	1347	1412D	1356	S05	W34	.557	12293	2.0	25D	-N		V	1356		1.40			
UPIC	04	1351E	1422		S06	W36	.585	12293	1.9	31D	-N		P	1351	.85				
GRP48024	04	1426	1435	1427	S05	W38	.613	12293	1.8	9	--F				.48				3 3 3 4
MEUD	04	1424	1427D	1425	S05	W36	.586	12293	1.9	30	-F		C	1425	.31	.40			D
CANR	04	1425E	1434		S05	W39	.627	12293	1.7	9D	-F		V		.50				D
UPIC	04	1428	1435	1429	S05	W39	.627	12293	1.7	7	-N		P	1429	.63				
025 PALE	04	1741	1753	1745U	S07	W28	.467	12293	2.6	12	--F	2	C		.19				F 2
	04	1829	1838	NO FLARE PATROL															
026 RAMY	04	1838E	1850D	1840U	S07	W38	.612	12293	1.9	12D	--N	4	V		.31				DE 1
	04	1850	1859	NO FLARE PATROL															
	04	1929	1949	NO FLARE PATROL															
GRP48027	04	2025	2040	2028	S07	W41	.652	12293	1.8	15	--F				.31				2 2 2 3
HUAN	04	2025	2030D	2027	S08	W41	.652	12293	1.8	5D	-F	1	C	2027	.15	.19			D
PALE	04	2029E	2040D	2029U	S06	W40	.640	12293	1.9	11D	-N	2	V		.46				F H
028 PALE	04	2129	2135	2131	S05	W37	.600	12293	2.1	6	--N	2	C		.19				F 3
GRP48029	04	2201	2225	2206	S08	W42	.665	12293	1.8	24	-B				1.13				3 3 3 3
PALE	04	2201	2218D	2206	S07	W42	.665	12293	1.8	17D	-B	2	C		.81				H
RAMY	04	2202E	2211D	2205	S07	W40	.639	12293	1.9	9D	-B	2	V		.72				DE
VORO	04	2204E	2225		S09	W44	.690	12293	1.6	21D	1B		C	2206	1.85	2.51		89	DHJ
030 VORO	04	2238	2250	2242	S08	W42	.665	12293	1.8	12	--B		C	2242	.28	.35		64	DH 3
	05	0201	0212	NO FLARE PATROL															
GRP48033	05	0513	0522	0517	S13	E47	.728	12300	8.7	9	--N				.35				3 3 3 5
ATHN	05	0513	0520	0516	S13	E47	.728	12300	8.7	7	-F	2	C		.50				F
TEHR	05	0517E	0525	0517U	S12	E47	.728	12300	8.7	8D	-N	2	V		.15				DE
MANI	05	0517E	0520	0517U	S13	E48	.740	12300	8.8	3D	-N	2		0517	.41	.62			
GRP48037	05	1702	1710	1705	S16	E42	.672	12300	8.9	8	--F				.30				2 2 2 3
RAMY	05	1701	1710	1704	S15	E42	.670	12300	8.9	9	-F	3	C		.28				DE
MCMA	05	1703	1709	1705	S16	E42	.672	12300	8.9	6	-N		C	1705	.31	.40			D
038 MCMA	05	1753	1805	1756	N15	W06	.377	12298	5.3	12	--F		C	1756	.36	.50			E 3

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND.	TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	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 _g	MAX. INT. %	
					LAT.	MER. DIST.													
GRP48039	05	1823	1833	1824	N15	W06	.377	12298	5.3	10	--F				.39				2 2 2 3
RAMY	05	1822	1830	1823	N14	W06	.361	12298	5.3	8	-F	3	C		.37				DE
MCMA	05	1823	1835	1825	N15	W06	.377	12298	5.3	12	-F		C	1825	.41	.50			E
GRP48040	05	1945	2202	2028	N16	W12	.427	12298	4.9	137	-N				.92				2 2 2 2
MCMA	05	1945	2202D		N17	W12	.441	12298	4.9	137D	-N		C	2032	1.03	1.10			FL
RAMY	05	2028E	2033E	2028E	N15	W11	.406	12298	5.0	50	-N	2			.81				U
GRP48041	06	0434	0444	0437	S12	E65	.901	12306	11.1	10	--N				.46				2 2 2 3
MANI	06	0433	0444	0436	S12	E64	.894	12306	11.0	11	-N	2		0436	.72	1.40			DE
TEHR	06	0434	0444	0438	S12	E65	.901	12306	11.1	10	-N	2	C		.19				
GRP48042	06	0458	0511	0502	S14	E37	.604	12300	9.0	13	--F				.27				2 2 2 4
TEHR	06	0458	0507	0459	S13	E35	.575	12300	8.8	9	-N	1	C		.12				DE
MANI	06	0458	0515	0505	S14	E39	.631	12300	9.1	17	-F	2		0505	.41	.54			
GRP48044	06	0805	0822	0808	S06	W59	.854	12293	1.9	17	-N				.59				3 3 3 8
ARCE	06	0804	0820	0805	S06	W60	.863	12293	1.8	16	-B		C	0805	.60	1.20			
MANI	06	0805	0820	0809	S05	W58	.845	12293	2.0	15	-F	2		0809	.31	.54			
CATA	06	0810E	0825	0810	S08	W58	.844	12293	2.0	15D	-B	3		0810	.87	1.62			(204)
GRP48048	06	1547	1606	1551	S08	W63	.887	12293	1.9	19	-N				.61				4 4 4 5
CAPS	06	1545	1605		S08	W62	.879	12293	2.0	20	-B	3	V	1552	.50	1.10			(228) C
MCMA	06	1545	1605	1550	S08	W64	.895	12293	1.9	20	-F		C	1550	.31	.70			E
CATA	06	1550	1605	1550	S08	W63	.887	12293	1.9	15	-F	3		1550	.87	1.88			(145)
RAMY	06	1552E	1610D	1554U	S06	W64	.896	12293	1.9	18D	-N	3	V		.74				DE
GRP48049	06	1629	1718	1638	S08	E29	.482	12300	8.9	49	--N				.64				2 2 2 4
MCMA	06	1629	1723D	1639	S09	E30	.498	12300	8.9	54D	-N		C	1639	.72	.80			E
RAMY	06	1636E	1712	1637U	S07	E27	.451	12300	8.7	36D	-N	3	V		.56				DE
GRP48050	06	1724	1816	1731	S09	E27	.452	12300	8.8	52	--F				1.07				3 3 3 4
MCMA	06	1724	1734D		S09	E27	.452	12300	8.8	10D	-N		C	1730	1.03	1.10			E
RAMY	06	1725E	1817	1728U	S08	E25	.420	12300	8.6	52D	-F	3	V		.37				DE
PALE	06	1727E	1815	1734U	S10	E29	.484	12300	8.9	48D	-F	2	C		1.80				F
GRP48052	06	1757	1805	1800	S18	W64	.894	12293	1.9	8	-N				.80				2 1 1 3
CANR	06	1757	1805D	1800	S18	W64	.894	12293	1.9	8D	-N		V	1800	.80	1.60			
PALE	06	1759E	1814	1802	S07	W64	.895	12293	1.9	15D	1N	3	C		1.08				F H
053 RAMY	06	1956	2012	2000	S13	E35	.575	12300	9.5	16	--F	3	V		.21				DE 1
	06	2036	2100	NO FLARE PATROL															
	06	2138	2222	NO FLARE PATROL															
054 MANI	06	2342E	2353	2344U	S08	E25	.420	12300	8.9	11D	--F	1		2344	.41	.45			2
GRP48055	07	0124	0132	0127	S07	W72	.948	12293	1.7	8	--F				.67				2 2 2 5
PALE	07	0124	0130	0126	S07	W73	.953	12293	1.6	6	-F	1	C		.72				
MANI	07	0127E	0133	0127U	S07	W71	.942	12293	1.7	6D	-N	1		0127	.62	1.34			
	07	0308	0309	NO FLARE PATROL															
	07	0527	0554	NO FLARE PATROL															
GRP48058	07	1427	1440	1428	N18	W34	.661	12298	5.1	13	--F				.64				2 2 2 5
CATA	07	1425	1445	1425	N18	W34	.661	12298	5.1	20	-N	3		1425	.87	1.15			(162)
MEUD	07	1428	1435	1430	N18	W34	.661	12298	5.1	7	-F		C	1430	.41	.50			D
GRP48059	07	1721	1730	1724	S11	E46	.716	12306	11.2	9	--F				.56				2 2 2 3
MEUD	07	1721	1726D		S12	E46	.716	12306	11.2	5D	-F		C	1724	.41	.60			
CANR	07	1721	1730	1724	S09	E45	.703	12306	11.1	9	-N		V		.70				
061 HUAN	07	1914E	1919D		S10	E45	.703	12306	11.2	5D	--F	1	P						2
	07	1943	2009	NO FLARE PATROL															
	07	2013	2106	NO FLARE PATROL															
	07	2129	2225	NO FLARE PATROL															
GRP48063	07	2255	2301	2258	S10	E43	.678	12306	11.2	6	1N				2.01				2 2 2 4
MANI	07	2253	2259D	2256	S08	E42	.665	12306	11.1	6D	1N	2		2256	1.75	2.36			
MITK	07	2256	2301D	2259	S12	E43	.680	12306	11.2	5D	1N		P	2259	2.27	3.10			E
GRP48064	08	0208	0239	0218	S08	E38	.612	12306	10.9	31	-N				.79				2 2 2 3
PALE	08	0208	0237	0216	S09	E38	.612	12306	10.9	29	-N	2	C		.55				DE
MANI	08	0220E	0240	0220U	S07	E37	.598	12306	10.9	20D	-N	2		0220	1.03	1.29			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1973 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.													
GRP48065	08	0255	0318	0306	S06	W80	.983	12293	2.1	23	--F				.57				3 2 2 4
KODA	08	0255E	0404D		S07	W75	.963	12293	2.5	690	2N			0359	1.93				E
MANI	08	0302	0315	0304	S08	W78	.976	12293	2.3	13	-F	2		0304	.62	1.53			
PALE	08	0306E	0321	0308U	S03	W82	.990	12293	2.0	150	-F	2	V		.52				F
GRP48067	08	0304	0327	0312	S10	E40	.640	12306	11.1	23	-N				1.17				3 3 3 4
MANI	08	0258	0322	0312	S09	E40	.639	12306	11.1	24	-N	2		0312	1.55	2.02			
PALE	08	0259	0307	0302	S12	E40	.641	12306	11.1	8	-F	2	C		.45				F
PALE	08	0300E	0306	0302U	S13	E40	.643	12306	11.1	60	-F	2	V		.36				F
PALE	08	0309	0339	0312	S13	E40	.643	12306	11.1	30	-N	2	V		.93				DE
PALE	08	0309	0339	0331	S13	E40	.643	12306	11.1	30	-F	2	V		.67				DE
MITK	08	0315E	0321		S09	E40	.639	12306	11.1	60	-N		C	0315	1.03	1.30			E
GRP48069	08	0350	0358	0352	S09	E03	.072	12300	8.4	8	--N				.50				3 3 3 4
MITK	08	0350	0357	0352	S09	E02	.061	12300	8.3	7	-N		C	0352	.52	.50			D
PALE	08	0350E	0356	0351U	S09	E04	.085	12300	8.5	60	-F	2	V		.36				F
MANI	08	0350	0402	0352	S08	E04	.077	12300	8.5	12	-N	2		0352	.62	.62			
GRP48070	08	0415	0428	0419	S09	E38	.612	12306	11.0	13	-F				.59				2 2 2 7
MANI	08	0415	0423D	0418	S08	E37	.598	12306	11.0	80	-N	2		0418	.72	.90			
PALE	08	0418E	0428	0419U	S10	E38	.613	12306	11.0	100	-F	2	V		.46				F
48070	08	0416	0506	0437	S11	E37	.600	12306	11.0	50	*1N				2.27				2 1 1 7
MITK	08	0416	0505	0437	S11	E37	.600	12306	11.0	49	1N		C	0437	2.27	2.90			E
MANI	08	0455E	0506	0455U	S08	E38	.612	12306	11.1	110	-N	1		0455	.72	.92			
GRP48071	08	0517	0538	0522	S09	E35	.571	12306	10.8	21	-N				.82				4 4 4 5
MITK	08	0515	0540	0520	S10	E35	.571	12306	10.8	25	-N		C	0520	.83	1.00			E
MANI	08	0517E	0539	0521	S07	E38	.612	12306	11.1	220	-N	1		0521	1.24	1.57			
ATHN	08	0519	0534	0522	S09	E35	.571	12306	10.8	15	-N	3	V		.66				F
TEHR	08	0525E	0526D	0525U	S08	E32	.527	12306	10.6	10	-N	2	C		.55				F
GRP48072	08	0529	0550	0537	S08	E02	.048	12300	8.4	21	--N				.42				3 3 3 5
MITK	08	0529	0551	0538	S09	E01	.053	12300	8.3	22	-N		C	0538	.52	.50			D
ATHN	08	0532E	0549	0534	S08	E02	.048	12300	8.4	170	-N	2	C		.33				DE
MANI	08	0537E	0546D	0539	S08	E02	.048	12300	8.4	90	-N	1		0539	.41	.41			
GRP48076	08	0700	0724	0715	S08	E35	.570	12306	10.9	24	-N				1.55				3 2 2 4
BUCA	08	0700E	0726D		S08	E35	.570	12306	10.9	260	-F		C	0702	1.10	1.30			
CAPS	08	0700	0721		S08	E35	.570	12306	10.9	21	1B	2	S	0702	2.00	2.40			(225)
MANI	08	0713E	0724	0715	S05	E36	.586	12306	11.0	110	-N	1		0715	.52	.64			
8 STATIONS REPORTING GROUP 48078.					2 STATIONS OBSERVING AND NOT REPORTING.														
GRP48078	08	0853	0913	0858	S09	E34	.556	12306	10.9	20	-N				.97				6 6 5 9
ISTA	08	0800E	0910		S08	E34	.556	12306	10.9	730	1N								
ATHN	08	0846	0915	0857	S10	E33	.543	12306	10.8	29	-N	3	V		.66				DE
KHAR	08	0855E	0920D		S11	E33	.544	12306	10.8	250	1N		P	0900	2.68	3.10	2.40		BDH
MANI	08	0857E	0911	0857	S07	E35	.570	12306	11.0	140	-N	1		0857	.83	1.01			
CANR	08	0900	0906	0900	S07	E34	.556	12306	10.9	6	-B		V		.20	.30			
CAPS	08	0901	0913		S08	E35	.570	12306	11.0	12	-N	2	V	0903	.50	.60			(188)
48078	08	0846	0901	0849	S09	E34	.556	12306	10.9	15	*-N				.49				4 4 4 9
ARCE	08	0843E	0846D		S09	E32	.528	12306	10.8	30	-N		P	0846	.46	.50			
ATHN	08	0846	0915	0849	S10	E33	.543	12306	10.8	29	-N	3	V		.50				DE
CANR	08	0848E	0854		S07	E34	.556	12306	10.9	60	-N		V	0848	.60	.70			
CAPS	08	0848	0854		S08	E35	.570	12306	11.0	6	-N	2	V	0848	.40	.50			(169)
48078	08	0810	0915	0815	S07	E35	.570	12306	11.0	65	*-N				1.07				2 2 2 6
CATA	08	0810	0915	0815	S08	E35	.570	12306	11.0	65	1B	3		0815	1.73	2.11			(214)
MANI	08	0814E	0817D	0814	S06	E35	.571	12306	11.0	30	-F	1		0814	.41	.50			
GRP48081	08	1101	1116	1102	S08	E34	.556	12306	11.0	15	--B				.29				3 3 3 9
RAMY	08	1059E	1117	1101U	S10	E32	.529	12306	10.9	180	-N		V		.46				F
CANR	08	1101	1108	1102	S07	E34	.556	12306	11.0	7	-B		V	1102	.10	.20			
CAPS	08	1102	1123		S08	E35	.570	12306	11.1	21	-B	3	V	1105	.30	.30			(300)
GRP48085	08	1245	1325	1252	S09	E33	.542	12306	11.0	40	1N				2.19				2 2 2 7
CATA	08	1245	1325	1255	S09	E33	.542	12306	11.0	40	1B	3		1255	2.31	2.75			(214)
KIEV	08	1245	1248D	1248	S08	E33	.542	12306	11.0	30	1F		P	1248	2.06	2.40			50
GRP48089	08	1415	1505	1426	S08	E34	.556	12306	11.1	50	-N				.89				4 3 3 4
CAPS	08	1415E	1442D		S08	E34	.556	12306	11.1	270	-B	2	V	1418	.80	1.00			(210)
MCMA	08	1415	1500	1422	S07	E33	.542	12306	11.1	45	-N		C	1422	1.03	1.10			
RAMY	08	1421E	1510	1422U	S09	E34	.556	12306	11.1	490	-N	3	V		.84				EK
ATHN	08	1433E	1433D	1433D	S08	E33	.542	12306	11.1		-N	2	V		2.02				DE U F

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	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 _g	MAX. INT. %	
					LAT.	MER. DIST.												
48089	08	1415	1502	1446	S07	E32	.527	12306	11.0	47	*-N			.67				3 3 2 5
MCMA	08	1415	1500	1448	S07	E33	.542	12306	11.1	45	-N	C	1422	1.03	1.10			EK
BOUL	08	1442E	1500D	1443U	S05	E29	.483	12306	10.8	18D	-N	V						
CAPS	08	1447E	1505D		S09	E33	.542	12306	11.1	18D	-B	3 V	1448	.30	.30			
GRP48090	08	1514	1531	1520	S07	W03	.054	12300	8.4	17	--F			.21				2 2 1 6
MCMA	08	1514	1527	1517	S08	W04	.077	12300	8.3	13	-F	C	1517	.21	.20			E
BOUL	08	1522E	1535D	1523	S05	W02	.040	12300	8.5	13D	-F	V						
GRP48091	08	1733	1750	1737	S08	W04	.077	12300	8.4	17	--N			.39				5 5 4 5
RAMY	08	1727	1746	1729	S08	W06	.109	12300	8.3	19	-N	4 C		.28				DE
MCMA	08	1730	1750	1738	S08	W05	.092	12300	8.4	20	-N	C	1738	.36	.40			E
BOUL	08	1736	1800D	1739	S05	W03	.056	12300	8.5	24D	-N	V						
HUAN	08	1737	1747	1741U	S09	W04	.085	12300	8.4	10	-N	1 C	1741	.31	.31			
PALE	08	1737	1749	1739	S09	W03	.072	12300	8.5	12	-N	4 V		.62				DE
094 PALE	08	2142E	2148		S02	W90	1.000	12293	2.2	6D	-N	1 C						2
096 PALE	08	2222E	2228		S02	W90	1.000	12293	2.2	6D	-N	1 C						5
GRP48097	08	2227	2241	2229	S08	W07	.125	12300	8.4	14	--N			.60				3 3 3 4
PALE	08	2227	2241	2229	S08	W07	.125	12300	8.4	14	-N	2 C		.45				
MANI	08	2227E	2247	2229U	S09	W05	.100	12300	8.6	20D	-N	1 C	2229	.41	.42			
VORO	08	2228	2234	2229	S08	W09	.159	12300	8.3	6	-B	C	2229	.93	.92		87	EJ
GRP48098	08	2241	2248	2242	S09	E28	.468	12306	11.0	7	--N			.74				3 3 3 3
MANI	08	2240E	2250	2241	S10	E29	.484	12306	11.1	10D	-N	1 C	2241	.31	.35			
VORO	08	2241	2247	2243	S08	E26	.436	12306	10.9	6	-B	C	2243	1.29	1.41		77	DL
PALE	08	2243E	2247D	2243U	S10	E28	.469	12306	11.0	4D	-N	2 V		.62				F
GRP48100	09	0032E	0055	0038	S09	W07	.131	12300	8.5	23	--N			.39				2 2 2 4
MANI	09	0023E	0040	0025	S10	W06	.124	12300	8.6	17D	-N	1 C	0025	.31	.31			
MANI	09	0032E	0045D	0035U	S09	W07	.131	12300	8.5	13D	-N	1 C	0035	.41	.42			
PALE	09	0037E	0055D	0040	S09	W08	.147	12300	8.4	18D	-N	2 C		.36				F
GRP48103	09	0204E	0220	0211	S09	W09	.163	12300	8.4	16	--N			.30				2 2 2 3
MANI	09	0204E	0220	0207U	S10	W08	.154	12300	8.5	16D	-N	1 C	0207	.41	.42			
PALE	09	0215E	0219	0215U	S08	W10	.176	12300	8.3	4D	-N	2 C		.19				
GRP48105	09	0446	0505	0449	S08	E28	.467	12306	11.3	19	--N			.59				2 2 2 4
MANI	09	0445E	0505	0449U	S08	E27	.452	12306	11.2	20D	-N	1 C	0449	.52	.58			
ATHN	09	0446	0505	0449	S08	E28	.467	12306	11.3	19	-N	2 C		.66				DE
108 MANI	09	0616E	0630D	0618U	S09	W09	.163	12300	8.6	14D	--N	1 C	0618	.41	.42			2
GRP48109	09	0754	0828	0803	S09	W11	.196	12300	8.5	34	--N			.84				3 3 2 5
ISTA	09	0754	0825		S09	W12	.212	12300	8.4	31	-F							E
MANI	09	0757E	0815	0800U	S09	W10	.179	12300	8.6	18D	-N	1 C	0800	.52	.53			
CATA	09	0800E	0830	0805	S10	W12	.217	12300	8.4	30D	-N	3 C	0805	1.16	1.18		(166)	
MANI	09	0822E	0830	0825U	S09	W10	.179	12300	8.6	8D	-N	1 C	0825	.41	.42			
GRP48110	09	0854	0913	0859	S13	E10	.209	12300	10.1	19	--F			1.05				4 4 3 5
ISTA	09	0854	0905		S12	E09	.185	12300	10.0	11	-F							D
ATHN	09	0855E	0910	0857	S13	E09	.195	12300	10.0	15D	-N	3 V		.33				DE
MANI	09	0858E	0910	0900U	S13	E11	.223	12300	10.2	12D	-F	1 C	0900	.41	.42			
KHAR	09	0905E	0927D		S12	E10	.200	12300	10.1	22D	1F	P	0913	2.42	2.40	1.50		BE
GRP48111	09	0910	0934	(0925)	S10	E25	.424	12306	11.3	24	--F			1.13				2 2 1 4
ISTA	09	0910	0934		S09	E25	.422	12306	11.3	24	-F							E
KHAR	09	0920E	0932D		S11	E24	.410	12306	11.2	12D	-F	P	0925	1.13	1.20	1.50		D
GRP48112	09	1100	1116	1103	S10	E18	.313	12306	10.8	16	-N			1.44				3 3 3 3
KHAR	09	1100E	1105D		S10	E18	.313	12306	10.8	5D	1F	P	1103	2.84	3.00	1.50		
RAMY	09	1100	1114	1103	S10	E18	.313	12306	10.8	14	-N	3 V		.83				DE
ATHN	09	1100E	1117	1102	S10	E18	.313	12306	10.8	17D	-N	3 V		.66				DE
GRP48113	09	1222	1232	1224	S10	E18	.313	12306	10.9	10	--N			.83				2 2 2 2
ATHN	09	1222E	1230	1223	S10	E17	.297	12306	10.8	8D	-N	3 V		.83				DE
RAMY	09	1222E	1233	1224	S10	E18	.313	12306	10.9	11D	-N	4 V		.83				DE
GRP48115	09	1542	1556	1544	S09	E16	.278	12306	10.9	14	--N			.44				4 4 3 4
RAMY	09	1541	1553	1543	S09	E17	.294	12306	10.9	12	-N	4 V		.52				DE
ATHN	09	1543	1556	1545	S09	E15	.261	12306	10.8	13	-N	2 V		.50				DE
BOUL	09	1544E	1600	1545	S08	E17	.292	12306	10.9	16D	-N	V						
HUAN	09	1545E	1545D		S09	E15	.261	12306	10.8		-N	1 P	1545	.31	.32			
116 RAMY	09	1621	1632	1624	S09	E17	.294	12306	11.0	11	--N	3 V		.72				DE
117 HUAN	09	1702	1712	1704	S09	E14	.245	12306	10.8	10	--F	1 C						2

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1973 APR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
GRP48118	09	1743E	1804	1746	S08	E20	.341	12306	11.2	21	-N				1.08				2 2 2 3
BOUL	09	1743E	1804	1746	S07	E20	.340	12306	11.2	21D	-N		V	1747	1.75	1.80			E
HUAN	09	1751E	1753D		S08	E19	.325	12306	11.2	2D	-N	1	P	1751	.41	.44			
	09	1804	1813		NO FLARE PATROL														
	09	1840	1853		NO FLARE PATROL														
	09	1907	1923		NO FLARE PATROL														
	09	1930	2003		NO FLARE PATROL														
GRP48119	09	2028	2047	2032	S09	E13	.229	12306	10.8	13	--N				.44				2 2 2 3
PALE	09	2027	2044	2029	S10	E12	.217	12306	10.8	17	-N	3	C		.27				F H
BOUL	09	2029	2049	2030	S08	E14	.242	12306	10.9	20	-N		V	2035	.60	.60			
BOUL	09	2029	2049	2037	S08	E14	.242	12306	10.9	20	-N		V	2035	.60	.60			
BOUL	09	2029	2049	2035	S08	E14	.242	12306	10.9	20	-N		V	2035	.60	.60			
120 PALE	09	2045	2053	2047	S10	W18	.313	12300	8.5	8	--F	2	C		.45				F 2
121 PALE	09	2131	2136	2133	S10	E12	.217	12306	10.8	5	--F	2	C		.19				H 1
	09	2158	2216		NO FLARE PATROL														
GRP48122	09	2251	2259	2253	S08	E14	.242	12306	11.0	8	-N				.98				3 3 3 3
PALE	09	2251	2257	2253	S08	E17	.292	12306	11.2	6	-N	3	V		.93				F
BOUL	09	2251	2304	2252	S08	E15	.259	12306	11.1	13	-N		V	2300	1.40	1.40			
MANI	09	2252E	2257	2253	S09	E11	.196	12306	10.8	5D	-N	1		2253	.62	.63			
GRP48123	09	2311	2319	2314	S09	E12	.212	12306	10.9	8	--N				.16				2 2 2 2
PALE	09	2311	2318	2312	S09	E13	.229	12306	10.9	7	-N	3	V		.21				
MANI	09	2315E	2320	2315U	S09	E11	.196	12306	10.8	5D	-N	1		2315	.10	.10			
GRP48124	09	2325E	2331	2326	S09	E12	.212	12306	10.9	6	--N				.34				2 2 2 2
PALE	09	2325E	2330	2326U	S09	E13	.229	12306	11.0	5D	-N	3	V		.26				H
MANI	09	2325E	2332	2326	S09	E11	.196	12306	10.8	7D	-N	1		2326	.41	.42			
GRP48125	09	2335E	2337	2336	S09	W17	.294	12300	8.7	2	--F				.29				2 2 2 2
MANI	09	2335E	2337	2335U	S08	W17	.292	12300	8.7	2D	-F	1		2335	.31	.32			
PALE	09	2335E	2337	2336U	S09	W16	.278	12300	8.8	2D	-F	2	V		.26				
GRP48128	10	0026	0148		S08	E14	.243	12306	11.1	82	--B				.78				2 2 2 3
MANI	10	0026E	0035D	0028	S09	E16	.278	12306	11.2	9D	-N	1		0028	.83	.86			
PALE	10	0030	0159D	0045	S08	E14	.243	12306	11.1	89D	-N	2	C		.81				F
PALE	10	0031E	0137	0054	S08	E16	.276	12306	11.2	66D	-B	3	V		.72				DE
MANI	10	0107E	0119D	0107	S07	E11	.190	12306	10.9	12D	-F	2		0107	1.03	1.05			
3 STATIONS REPORTING GROUP 48129.										1 STATIONS OBSERVING AND NOT REPORTING.									
GRP48129	10	0143	0215	0209	S10	E09	.170	12306	10.7	32	-B				2.65				2 2 2 3
KODA	10	0143E	0215D		S07	E10	.173	12306	10.8	32D	1B		P	0212	4.26	4.30			E
MANI	10	0208E	0209D	0209U	S12	E07	.159	12306	10.6	1D	-N	2		0209	1.03	1.04			
48129	10	0152	0200	0156	S08	E12	.209	12306	11.0	8	*-N				1.14				2 2 2 3
MANI	10	0152	0155D	0153	S08	E11	.193	12306	10.9	3D	-N	2		0153	1.34	1.36			
PALE	10	0156E	0200D	0158U	S08	E12	.209	12306	11.0	4D	-N	3	V		.93				DE
GRP48131	10	0735	0813	0749	S09	W26	.438	12300	8.4	38	--N				.72				4 4 3 7
ISTA	10	0732	0815		S09	W26	.438	12300	8.4	43	-N								
MEUD	10	0738	0806D	0750	S08	W25	.421	12300	8.4	28D	-N		C	0750	.72	.80			E
MANI	10	0739E	0810	0750	S09	W27	.453	12300	8.3	31D	-N	2		0750	.62	.69			F
ATHN	10	0748E	0805D	0748U	S08	W27	.452	12300	8.3	17D	-N	1	V		.83				
GRP48132	10	1000	1026	1003	S08	E12	.209	12306	11.3	26	-B				1.16				2 2 1 3
ATHN	10	0959	1029	1003	S08	E11	.193	12306	11.2	30	-B	3	C		1.16				U F
ISTA	10	1000	1023		S07	E12	.207	12306	11.3	23	-N								
GRP48133	10	1047	1123	1054	S07	E10	.173	12306	11.2	36	--N				.64				3 3 3 4
CAPS	10	1038	1130		S06	E09	.156	12306	11.1	52	-F			1054	.60	.60			(155)
RAMY	10	1046E	1110D	1049U	S08	E10	.176	12306	11.2	24D	-N	3	V		.83				DE
ATHN	10	1057E	1110	1059	S08	E11	.193	12306	11.3	13D	-N	2	V		.50				DE
ATHN	10	1057	1115	1100	S08	E10	.176	12306	11.2	18	-N	2	C		.33				DE
6 STATIONS REPORTING GROUP 48134.										1 STATIONS OBSERVING AND NOT REPORTING.									
GRP48134	10	1223	1302	1227	S08	E09	.159	12306	11.2	39	-B				1.33				3 2 2 4
RAMY	10	1223E	1300	1226	S08	E09	.159	12306	11.2	37D	-B	4	V		1.34				F S
ATHN	10	1225E	1303D	1227	S08	E09	.159	12306	11.2	38D	-B	3	V		1.32				DE
KIEV	10	1228	1255	1240	S06	E10	.173	12306	11.3	27	-N		P	1240	1.03	1.00		60	DI

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hd	MAX. INT. %	
					LAT.	MER. DIST.												
48134 RAMY MEUD	10	1312E	1327	1315	S08	E09	.159	12306	11.2	15	*-B			1.08				2 2 2 3
	10	1312E	1327	1315	S08	E09	.159	12306	11.2	150	-B	4	V	1.03				F
	10	1315E	13180		S08	E09	.159	12306	11.2	30	-N		C	1.13	1.10			E
48134 CAPS BOUL	10	1300	1423	1412	S09	E09	.164	12306	11.2	83	*-B			.80				2 1 1 6
	10	1300	1423		S09	E09	.164	12306	11.2	83	-B	1	S	.80	.80			
	10	1410	1418	1412	S06	E05	.087	12306	11.0	8	-N		V					
GRP48135 RAMY MEUD MCMA	10	1312E	1352	1315	S12	W20	.352	12300	9.1	43	1N			5.50				3 3 3 4
	10	1312E	13350	1315U	S12	W19	.337	12300	9.1	230	1F	4	V	3.09				U
	10	1315E	13520		S12	W20	.352	12300	9.1	370	2N		C	8.25	8.60			U
	10	1340E	13420		S13	W21	.372	12300	9.0	20	1N		P	5.16	5.40			BU
48135 CAPS KIEV	10	1300	1520	1353	S13	W21	.372	12300	9.0	140	*2F			7.10				2 2 2 4
	10	1300	1520	1355	S14	W20	.362	12300	9.0	140	2N	1	P	8.00	9.00			(228) IU
	10	1330	1408	1350	S11	W21	.364	12300	9.0	38	2F		P	6.19	6.70			50 EI
GRP48136 RAMY HUAN	10	1706	1725	1706	S13	E01	.123	12306	10.8	19	--F			.34				2 2 2 2
	10	1704	1725	1706	S13	E01	.123	12306	10.8	21	-F	4	V	.52				DE
	10	1707	17070		S13	E01	.123	12306	10.8		-F	1	P	.15	.16			D
GRP48137 RAMY PALE	10	1905	1931	1913	S06	E06	.104	12306	11.2	26	--B			.92				2 2 2 2
	10	1905	19340	1910	S08	E06	.109	12306	11.2	290	-B	3	V	.93				F
	10	1916E	1927	1916U	S03	E06	.117	12306	11.3	110	-B	3	C	.91				F
	10	2034	2107	NO FLARE PATROL														
	10	2121	2217	NO FLARE PATROL														
138 RAMY	10	2123	2135	2126	S11	E06	.135	12306	11.3	12	--F	3	V	.62				DE 2
138 RAMY	10	2134	21440	2135	S06	E02	.035	12306	11.0	100	--N	2	V	.26				DE 1
GRP48140 MANI PALE	11	0136	0155	0140	S08	W37	.599	12300	8.3	19	--F			.67				2 2 2 3
	11	0134	0150	0140	S07	W37	.599	12300	8.3	16	-N	2		.62	.77			
	11	0137	0159	0139	S09	W36	.585	12300	8.4	22	-F	3	V	.72				DE
GRP48141 PALE MANI	11	0155	0207	0158	S08	W05	.094	12306	10.7	12	--N			.74				2 2 2 4
	11	0155	0207	0158	S08	W05	.094	12306	10.7	12	-N	3	C	.55				F
	11	0155	01580	0158	S07	W05	.089	12306	10.7	30	-N	2		.93	.93			
GRP48142 PALE MITK	11	0227	0248	0234	S07	W04	.072	12306	10.8	21	--N			.95				2 2 2 3
	11	0226	0248	0234	S07	W05	.089	12306	10.7	22	-N	3	C	.55				F
	11	0228	02460	0234	S07	W03	.055	12306	10.9	180	-N		C	1.34	1.30			E
GRP48143 MANI PALE	11	0330	0341	0332	S07	W01	.025	12306	11.1	11	--N			.43				2 2 2 3
	11	0327	0345	0330	S07	W01	.025	12306	11.1	18	-N	2		.41	.41			
	11	0332	0337	0334	S06	E00	.001	12306	11.1	5	-N	3	C	.45				F
GRP48144 PALE MANI	11	0341	0352	0344	S08	W06	.110	12306	10.7	11	--F			.62				2 2 2 3
	11	0340E	03480	0342U	S07	W04	.072	12306	10.9	80	-F	3	V	.62				F
	11	0341	0352	0346U	S08	W07	.126	12306	10.6	11	-F	2		.62	.62			
GRP48146 TEHR MANI	11	0623E	0635	0624	S08	W03	.063	12306	11.0	12	--F			.37				2 2 2 5
	11	0623E	0635	0623U	S10	W01	.073	12306	11.2	120	-F	4	V	.33				F
	11	0624E	06260	0624U	S06	W05	.087	12306	10.9	20	-F	2		.41	.41			
GRP48147 ATHN CATA	11	0759	0809	0801	S11	W04	.112	12306	11.0	10	--B			.40				2 2 2 4
	11	0757	0808	0801	S11	W04	.112	12306	11.0	11	-N	2	C	.50				DE
	11	0800	0810	0800	S11	W04	.112	12306	11.0	10	-B	1		.29	.29			(263)
GRP48148 CAPS ATHN TEHR MANI CATA	11	0921	0935	0925	S08	W07	.126	12306	10.9	14	--N			.92				5 5 5 5
	11	0920	0935		S09	W04	.087	12306	11.1	15	-B	2	V	.80	.80			(228) C
	11	0920	0933	0924	S08	W10	.176	12306	10.6	13	-N	3	C	.83				F H
	11	0920	0936	0925	S07	W09	.157	12306	10.7	16	-N	3	C	.50				DE
	11	0922	0935	0926	S07	W07	.123	12306	10.9	13	-N	1		1.03	1.04			
	11	0925E	1015	0925	S07	W07	.123	12306	10.9	500	-N	3		1.44	1.46			(170)
GRP48149 ATHN CAPS TEHR	11	0949	1006	0954	S08	W08	.143	12306	10.8	17	--N			.36				3 3 3 4
	11	0948	1001	0950	S09	W09	.164	12306	10.7	13	-N	3	C	.50				F
	11	0950	1010		S08	W06	.110	12306	11.0	20	-B	2	V	.40	.40			(288) C
	11	0957E	1007	0957U	S07	W09	.157	12306	10.7	100	-N	3	C	.17				DE
GRP48151 CATA MCMA	11	1300	1330	1303	S08	W07	.126	12306	11.0	30	--N			.30				2 2 2 3
	11	1300	1330	1300	S08	W06	.110	12306	11.1	30	-N	3		.29	.29			(178)
	11	1300	1330	1306	S07	W07	.123	12306	11.0	30	-N		C	.31	.30			E

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
					LAT.	MER. DIST.												
GRP48152	11	1401	1428	1408	S10	W05	.112	12306	11.2	27	18			2.12				3 3 3 5
CATA	11	1400	1435	1410	S11	W07	.149	12306	11.1	35	-B	3	1410	1.73	1.75	(316)	FV	
MCMA	11	1400	1440	1405	S12	W07	.160	12306	11.1	40	18		C	1405	2.32	2.30		
CAPS	11	1402	1408		S08	W01	.040	12306	11.5	6	18	2	S	1406	2.30	2.30	(340)	C
GRP48154	11	1530	1537	1531	S08	W13	.226	12306	10.7	7	--F			.31				2 2 1 4
MCMA	11	1529	1537	1530	S08	W13	.226	12306	10.7	8	-N		C	1530	.31	.30		E
HUAN	11	1530	1536	1532	S08	W12	.209	12306	10.7	6	-F	1	C					
GRP48155	11	1621	1635	1623	S08	W13	.226	12306	10.7	14	--B			.81				3 3 3 4
CATA	11	1620	16250	1622	S07	W12	.207	12306	10.8	50	-B	3		1622	.87	.88	(316)	
MCMA	11	1620	1635	1623	S08	W13	.226	12306	10.7	15	-B		C	1623	.83	.80		E
HUAN	11	1622	1634	1624	S08	W13	.226	12306	10.7	12	-B	1	C	1624	.72	.74		E
5 STATIONS REPORTING GROUP 48156. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48156	11	1838	2153	1846	S09	W10	.180	12306	11.0	195	18			2.99				4 4 4 4
MCMA	11	1836	2200D	1845	S08	W10	.176	12306	11.0	2040	18		C	1845	2.58	2.60		FHKLIV
PALE	11	1838	2203	1849	S10	W10	.186	12306	11.0	205	18	3	C		3.61			F U
PALE	11	1838	2203	1856	S10	W10	.186	12306	11.0	205	18	3	C		2.71			F U
RAMY	11	1840	2136	1844	S08	W11	.193	12306	11.0	176	18	4	V		2.89			F
HUAN	11	1846E	1908D		S09	W08	.148	12306	11.2	220	18	1	P	1850	2.89	2.91		E
HUAN	11	1955E	2125D		S10	W11	.202	12306	11.0	900	1N	1	P	2044	4.13	4.16		E
48156	11	2017	2040	2024	S12	W07	.160	12306	11.3	23	*18			1.44				2 2 1 4
BOUL	11	2017E	2050D	2026	S10	W07	.140	12306	11.3	33D	28		V					
RAMY	11	2020E	2030	2022U	S14	W07	.184	12306	11.3	100	-N	3	V		1.44			DE
48156	11	2149	2327	2211	S09	W14	.246	12306	10.9	98	*-F			1.96				2 2 2 2
VORO	11	2149	2327		S09	W12	.213	12306	11.0	98	1N		P	2150	3.51	3.53	70	EJL
PALE	11	2206E	2220	2211U	S08	W16	.276	12306	10.7	140	-F	3	V		.41			
GRP48157	11	2250	2257	2253	S10	W14	.249	12306	10.9	7	--N			.68				2 2 2 3
VORO	11	2250	2255	2252	S11	W12	.223	12306	11.1	5	-B		C	2250	.74	.75	74	DL
PALE	11	2252E	2258	2253U	S08	W15	.259	12306	10.8	60	-F	3	V		.62			F
GRP48158	11	2304	2325	2309	S08	W15	.259	12306	10.8	21	-N			1.78				2 2 2 3
VORO	11	2303	2324	2312	S08	W14	.243	12306	10.9	21	1N		C	2312	2.89	2.72	68	EL
PALE	11	2304	2326	2306	S08	W16	.276	12306	10.8	22	-N	3	V		.67			DE
GRP48159	12	0003	0025	0010	S08	W13	.226	12306	11.0	22	-N			1.75				2 2 2 4
PALE	12	0002	0028	0010	S08	W13	.226	12306	11.0	26	-N	3	C		.91			F
VORO	12	0004	0021	0009	S08	W13	.226	12306	11.0	17	1N		C	0009	2.59	2.63	66	EL
GRP48160	12	0208	0229	0214	S08	W13	.226	12306	11.1	21	--N			.34				2 2 2 4
MANI	12	0208	0229	0212	S08	W13	.226	12306	11.1	21	-N	2		.31	.32			
PALE	12	0210E	0228	0217	S07	W13	.224	12306	11.1	180	-F	3	C		.36			DE
PALE	12	0216E	0228	0216U	S08	W12	.210	12306	11.2	120	-N	3	V		.36			F
GRP48161	12	0216E	0225	0219	S09	W50	.762	12300	8.3	9	--F			.24				2 2 2 4
PALE	12	0216E	0225	0216U	S06	W49	.752	12300	8.4	90	-F	3	V		.26			F
MANI	12	0217E	0225	0222U	S11	W51	.773	12300	8.3	80	-F	2		0222	.21	.32		
GRP48162	12	0306	0337	0312	S09	W13	.230	12306	11.2	31	-N			1.24				2 2 2 3
PALE	12	0305	0334	0312U	S09	W12	.213	12306	11.2	29	-N	3	V		1.24			DE
MANI	12	0307	0340	0312	S08	W14	.243	12306	11.1	33	-N	2		0312	1.24	1.27		
GRP48163	12	0400	0412	0404	S08	W14	.243	12306	11.1	12	--N			.73				2 2 2 3
MANI	12	0359	0412	0405U	S07	W15	.258	12306	11.0	13	-N	2		0405	.83	.86		
PALE	12	0401	0412D	0403	S09	W12	.213	12306	11.3	110	-N	2	V		.62			F
	12	0555	0606		NO FLARE PATROL													
	12	0701	0730		NO FLARE PATROL													
GRP48164	12	1331	1347	1337	S10	W54	.805	12300	8.5	16	--F			.39				2 2 2 3
CAPS	12	1329	1337		S12	W52	.784	12300	8.7	8	-F	1	S	1331	.40	.50	(150)	
RAMY	12	1333	1357	1337	S08	W56	.825	12300	8.4	24	-F	3	C		.37			DE
	12	2200	2207		NO FLARE PATROL													
	12	2209	2210		NO FLARE PATROL													
GRP48166	12	2212	2320	2220	S08	W28	.468	12306	10.8	68	--F			.66				2 2 2 4
MANI	12	2212	2320	2214	S08	W28	.468	12306	10.8	68	-F	1		.41	.47			
PALE	12	2225E	2228D	2225U	S08	W27	.452	12306	10.9	30	-N	2	C		.91			F
166 MANI	12	2307E	2310D	2310U	S10	W25	.424	12306	11.1	30	--F	2		2310	.52	.56		2
167 MANI	12	2326E	2359	2338	S09	W26	.438	12306	11.0	33D	--F	2		2338	.41	.46		2

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	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.												
168 MANI	13	0029	0042	0031	S08	W25	.421	12306	11.1	13	--N	2	0031	.62	.68			2
169 MANI	13	0118	0140	0122	S08	W26	.437	12306	11.1	22	--N	2	0122	.52	.57			2
170 MANI	13	0129	0137	0131	N14	W78	.984	12304	7.2	8	--N	2	0131	.31	.76			2
171 MANI	13	0150	0204	0157	S08	W26	.437	12306	11.1	14	--F	2	0157	.41	.46			2
172 MANI	13	0214	0231	0219	S08	W26	.437	12306	11.1	17	--N	2	0219	.62	.68			2
GRP48173	13	0510	0534	0516	S08	W30	.498	12306	11.0	24	--N			.73				3 3 3 5
ATHN	13	0509	0539	0521	S09	W29	.484	12306	11.0	30	--N	2	C	1.16				DE
ATHN	13	0509	0539	0513	S09	W29	.484	12306	11.0	30	--N	2	C	.99				DE
MANI	13	0510	0542	0513	S07	W28	.467	12306	11.1	32	--N	2		.83	.94			
TEHR	13	0511	0521	0515	S08	W32	.528	12306	10.8	10	--N	2	V	.21				DE
GRP48175	13	0657E	0721	0717	S09	W39	.626	12306	10.4	24	--N			.84				3 3 3 6
MANI	13	0657E	0807	0720	S10	W41	.653	12306	10.2	70D	--F	2		.83	1.10			
MANI	13	0657E	0724	0658U	S05	W41	.654	12306	10.2	270	--F	2		.41	.55			
CATA	13	0700E	0720D	0715	S12	W39	.629	12306	10.4	20D	--N	1		1.44	1.86			(178)
TEHR	13	0710E	0720	0715U	S08	W37	.599	12306	10.5	10D	--N	2	V	.26				DE
GRP48176	13	0856	0910	0859	S11	W32	.531	12306	11.0	14	--F			.49				5 5 5 8
ARCE	13	0855	0910	0900	S11	W31	.516	12306	11.0	15	--F		C	.57	.70			
MONT	13	0856	0900D	0858	S12	W31	.518	12306	11.0	4D	--N		C	.41				E
MANI	13	0857	0910D	0900	S10	W32	.529	12306	11.0	130	--F	2		.31	.37			
ATHN	13	0857E	0912	0859	S12	W33	.547	12306	10.9	15D	--F	3	V	.66				F
TEHR	13	0859E	0908	0859U	S11	W31	.516	12306	11.0	9D	--N	4	V	.50				F
GRP48179	13	1350	1431	1357	S08	W35	.571	12306	11.0	41	--B			.98				4 4 4 4
MCMA	13	1350	1435	1355	S09	W36	.585	12306	10.9	45	--B		C	.83	.90			E
ATHN	13	1352E	1430	1356	S09	W35	.571	12306	11.0	38D	--B	3	V	1.16				F
RAMY	13	1353E	1435	1355U	S08	W36	.585	12306	10.9	42D	--B	3	V	.93				F
TEHR	13	1354E	1424	1401	S07	W33	.542	12306	11.1	30D	--N	2	V	.99				F
GRP48180	13	1545	1626	1602	S08	W37	.599	12306	10.9	41	--F			.83				2 2 2 3
MCMA	13	1545	1640D	1601	S06	W37	.599	12306	10.9	55D	--N		C	.83	.90			E
ATHN	13	1600E	1612	1602	S09	W37	.599	12306	10.9	12D	--F	1	V	.83				F
GRP48182	13	1715	1742	1725	S08	W36	.585	12306	11.0	27	--N			.44				5 5 4 5
MCMA	13	1715	1755	1722	S08	W36	.585	12306	11.0	40	--N		C	.52	.60			E
PALE	13	1715	1734	1728	S09	W36	.585	12306	11.0	19	--N	4	V	.46				F
PALE	13	1715	1734	1716	S09	W36	.585	12306	11.0	19	--N	4	V	.26				F
BOUL	13	1718E	1743D	1722	S07	W36	.585	12306	11.0	25D	--N		V	.722	.90			E
HUAN	13	1723E	1731D		S08	W37	.599	12306	10.9	80	--F	1	P	.36	.44			DE
RAMY	13	1729E	1735	1729U	S08	W35	.571	12306	11.1	6D	--F	3	V	.41				DE
GRP48183	13	1901	1931	1907	S09	W37	.599	12306	11.0	30	--F			.68				2 2 2 3
MCMA	13	1900	1936	1903	S09	W36	.585	12306	11.1	36	--N		C	.72	.80			EL
PALE	13	1902	1926	1911	S08	W37	.599	12306	11.0	24	--F	2	C	.63				F
GRP48184	13	1941	1948	1943	S12	W37	.602	12306	11.0	7	--F			.35				4 4 4 4
PALE	13	1940	1948	1944	S11	W37	.601	12306	11.0	8	--N	2	C	.45				F
MCMA	13	1941	1947	1942	S13	W37	.604	12306	11.0	6	--N		C	.31	.40			D
HUAN	13	1941	1948	1943	S12	W38	.616	12306	11.0	7	--F	1	C	.21	.26			D
RAMY	13	1942E	1949	1943U	S10	W34	.558	12306	11.3	7D	--F	2	V	.41				DE
GRP48185	13	2016	2034	2023	S08	W38	.613	12306	11.0	18	--F			.72				2 2 1 4
MCMA	13	2016	2036	2019	S08	W38	.613	12306	11.0	20	--N		C	.72	.80			E
BOUL	13	2025E	2031	2026	S07	W37	.599	12306	11.1	6D	--F		V	.50				
GRP48186	13	2051	2102	2053	S08	W38	.613	12306	11.0	11	--F			.40				2 2 2 3
MCMA	13	2051	2104	2052	S09	W37	.599	12306	11.1	13	--N		C	.52	.60			D
PALE	13	2051	2059	2053	S07	W38	.613	12306	11.0	8	--F	2	C	.27				F
187 MCMA	13	2139	2155D	2148	S09	W39	.626	12306	11.0	16D	--N		C	.62	.70			E
188 BOUL	13	2206E	2211D	2207	S07	W38	.613	12306	11.1	5D	--F		V	.50				2
GRP48195	14	0945	1009	0954	S09	W46	.716	12306	11.0	24	--N			.52				3 3 3 5
CATA	14	0945E	0955D	0955	S10	W45	.704	12306	11.0	10D	--B	3		.58	.81			(209)
ATHN	14	0948E	1015	0950	S08	W47	.728	12306	10.9	27D	--N	3	V	.66				F
TEHR	14	0953E	1003	0957	S08	W46	.716	12306	11.0	10D	--N	3	V	.33				DE
TEHR	14	1007	1011	1008	S08	W46	.716	12306	11.0	4	--F	3	V	.17				DE

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OBSERVATORY	OBSERVED UT				LOCATION						DURATION MIN.	IMPROVEMENT TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1973 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLACE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _a	MAX. INT. %			
					LAT.	MER. DIST.														
GRP48196	14	1102	1114	1106	S08	W46	.716	12306	11.0	12	--N					.51				4 3 3 5
TEHR	14	1035	1116	1037	S08	W46	.716	12306	11.0	41	-F	3	V			.17				DE
ATHN	14	1058E	1114	1103	S08	W47	.728	12306	10.9	16D	-N	3	V			.50				DE
CAPS	14	1102	1109		S07	W43	.679	12306	11.2	7	-B	2	S	1109		.50	.70	(240)		E
MONT	14	1106	1120	1109	S10	W47	.728	12306	10.9	14	-N		C	1109		.52				
GRP48198	14	1229	1251	1234	S09	W46	.716	12306	11.1	22	-N					.76				5 5 5 6
MEUD	14	1227	1250	1234	S09	W45	.704	12306	11.1	23	-N		C	1234		.72	1.00			E
CAPS	14	1227	1247		S07	W43	.679	12306	11.3	20	-B	2	V	1232		.60	.90	(270)		
CATA	14	1230	1255	1235	S10	W47	.728	12306	11.0	25	-B	3		1235		1.16	1.69	(245)		
RAMY	14	1230	1250	1233	S10	W44	.692	12306	11.2	20	-N	4	V			.65				DE
ATHN	14	1232E	1234D	1232U	S09	W49	.751	12306	10.8	2D	-N	2	V			.66				DE
GRP48200	14	1434	1505	1443	S09	W47	.728	12306	11.1	31	-B					1.15				7 7 6 8
LOCA	14	1430E	1505	1435	S09	W45	.704	12306	11.2	35D	1N		V	1435		1.68	2.30			
BOUL	14	1435	1459	1442	S08	W46	.716	12306	11.2	24	-N		S							
CAPS	14	1435	1500		S07	W44	.691	12306	11.3	25	-B	1	S	1440		1.00	1.40	(290)		C
MCMA	14	1437	1515	1445	S11	W49	.751	12306	10.9	38	-B		C	1445		1.03	1.60			E
HUAN	14	1438E	1442D		S10	W48	.740	12306	11.0	4D	-N	1	P	1440		.41	.62			E
CATA	14	1440E	1445D	1445	S09	W49	.751	12306	10.9	5D	1B	3		1445		1.44	2.19	(245)		
ATHN	14	1443E	1451D	1446	S09	W50	.762	12306	10.9	8D	-B	2	V			1.32				U F
203 MCMA	14	2105	2127D	2107	S08	W55	.815	12306	10.8	22D	--N		C	2107		.41	.70			E 1
GRP48204	14	2137	2208	2142	S08	W53	.795	12306	10.9	31	-F					1.35				3 2 1 3
PALE	14	2137	2207	2142	S07	W53	.795	12306	10.9	30	-N	2	C			1.35				F
BOUL	14	2139E	2208D	2141	S09	W51	.773	12306	11.1	29D	-F		V	2141			1.90			
HUAN	14	2156E	2158D		S08	W54	.805	12306	10.9	2D	-N	1	P							E
GRP48205	15	0333	0350	0335	S06	W59	.854	12306	10.7	17	--N					.46				2 2 2 3
TEHR	15	0331	0350	0335	S05	W59	.855	12306	10.7	19	-N	4	C			.36				F
PALE	15	0334	0349	0334	S06	W58	.845	12306	10.8	15	-N	2	C			.55				
GRP48206	15	0701	0720	0705	S07	W58	.845	12306	10.9	19	--N					.66				4 4 4 5
MANI	15	0658E	0718	0701U	S07	W58	.845	12306	10.9	20D	-N	1	V	0701		.83	1.48			
CAPS	15	0700	0723		S08	W56	.825	12306	11.1	23	-B	3	V	0707		.60	1.00	(220)		C
TEHR	15	0702	0718	0710	S06	W58	.845	12306	10.9	16	-N	4	C			.55				F
ATHN	15	0702E	0721D	0704	S08	W59	.853	12306	10.9	19D	-N	1	C			.66				F
GRP48207	15	0901	0927	0906	S06	W60	.863	12306	10.9	26	--N					.40				6 6 5 9
ISTA	15	0900	0925	0910	S08	W59	.853	12306	10.9	25	-N									
MANI	15	0900E	0925D	0903U	S07	W59	.854	12306	10.9	25D	-N	1		0903		.52	.92			
ARCE	15	0900	0930	0905	S04	W62	.881	12306	10.7	30	-N		C	0905		.31	.60			
MEUD	15	0902	0924	0904	S06	W61	.872	12306	10.8	22	-F		C	0904		.41	.80			EK
ATHN	15	0903E	0911D	0903U	S07	W60	.863	12306	10.9	8D	-N	1	V			.50				DE
TEHR	15	0903	0929	0910	S06	W59	.854	12306	11.0	26	-N	4	C			.25				F
208 MCMA	15	1715	1730	1717	S09	W64	.895	12306	10.9	15	--N		C	1717		.31	.70			E 2
209 MCMA	15	1739	1743	1739	S13	W66	.909	12306	10.8	4	--F		C	1739		.21	.50			D 3
210 MCMA	15	1748	1800	1750	S09	W64	.895	12306	10.9	12	-N		C	1750		.31	.70			E 3
211 RAMY	15	2005	2014D	2006U	S05	W68	.925	12306	10.7	9D	--F	3	V			.52				DE 1
	15	2033	2037		NO FLARE PATROL															
	15	2130	2230		NO FLARE PATROL															
212 MANI	15	2236E	2245	2238	S07	W69	.931	12306	10.8	9D	-N	2		2238		.52	1.09			1
213 MANI	15	2300	2314D	2308	S07	W69	.931	12306	10.8	14D	-N	2		2308		.52	1.09			2
213 MANI	15	2300	2314D	2314U	S07	W69	.931	12306	10.8	14D	*-N	2		2314		.62	1.31			1
214 MANI	15	2345E	2355	2352	S07	W70	.937	12306	10.7	10D	--F	2		2352		.41	.88			1
	16	0044	0107		NO FLARE PATROL															
	16	0119	0126		NO FLARE PATROL															
	16	0131	0138		NO FLARE PATROL															
	16	0217	0225		NO FLARE PATROL															
215 MANI	16	0237	0245	0238	S12	W69	.929	12306	10.9	8	--F	2		0238		.31	.65			1
	16	0245	0307		NO FLARE PATROL															

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hd	MAX. INT. %	
					LAT.	MER. DIST.												
	16	0309	0325	NO FLARE PATROL														
	16	0358	0409	NO FLARE PATROL														
GRP48216	16	0804	0821	0809	S08	W73	.953	12306	10.9	17	-N			.54				6 6 5 9
ARCE	16	0800E	0920	0812	S07	W73	.954	12306	10.9	800	-F		C	.63	1.50			
ATHN	16	0802	0822	0805	S07	W72	.948	12306	10.9	20	-N	1	C	.66				F
MANI	16	0804	0811D	0808	S07	W73	.954	12306	10.9	70	-N	2		.41	.92			
UPIC	16	0806	0825U	0809	S08	W76	.968	12306	10.6	190	-N		P	.42				
ISTA	16	0806	0817		S08	W70	.937	12306	11.1	11	-F							
CATA	16	0810E	0925D	0810	S08	W73	.953	12306	10.9	750	-N	3		.58			(186)	
GRP48217	16	0958	1016	0959	S08	W71	.942	12306	11.1	18	-N			.47				4 4 4 6
ATHN	16	0955	1008	0958	S07	W73	.954	12306	10.9	13	-N	1	C	.50				DE
MONT	16	0956	1006	0958	S08	W70	.937	12306	11.2	10	-N		C	.41				E
ARCE	16	0959E	1020D		S07	W72	.948	12306	11.0	21D	-N		C	.37	.90			
CATA	16	1000	1030	1000	S08	W70	.937	12306	11.2	30	-N	3		.58			(186)	
GRP48220	16	1725	1747	1733	S08	W76	.968	12306	11.0	22	--N			.27				2 2 1 2
RAMY	16	1725	1755D		S08	W75	.963	12306	11.1	300	-N	2	V					DE
PALE	16	1732E	1739	1733U	S07	W77	.972	12306	11.0	70	-N	2	C	.27				
221 PALE	16	1820E	1823	1821U	S10	W76	.967	12306	11.1	30	--F	2	V	.21				2
222 PALE	16	1923E	1930	1925U	S12	W78	.975	12306	11.0	70	--F	2	V	.26				F 1
223 PALE	17	2251	2321	2254	N13	E85	.998	12322	24.3	30	-N	3	C	.27				2
GRP48224	18	0232	0254	0246	N10	E82	.993	12322	24.3	22	-N			.41				2 2 2 4
PALE	18	0232	0247	0241	N10	E82	.993	12322	24.3	15	-N	3	C	.36				
CRON	18	0243E	0300	0250	N10	E82	.993	12322	24.3	17D	-N		V	.45				
GRP48226	18	0802	1105	0854	N11	E80	.988	12322	24.3	183	--N			.52				4 1 1 7
MONT	18	0802E	1105	0948	N11	E80	.988	12322	24.3	183D	-N		C	.52				EK
ATHN	18	0809	0832	0812	N09	E78	.982	12322	24.2	23	-F	2	C	.33				OE
CANR	18	0840	0900	0843	N15	E78	.984	12322	24.2	20	-N		V	.30	1.00			
ARCE	18	0850E	1000D		N09	E80	.988	12322	24.4	70D	-F		C	.57	1.80			
228 HUAN	18	1430	1436	1433	N10	E77	.979	12322	24.4	6	--F	1	C	.21				D 4
230 HUAN	18	1820	1823	1821	N10	E76	.975	12322	24.5	3	--F	1	C	.21				D 3
	18	2156	2212	NO FLARE PATROL														
	18	2236	2255	NO FLARE PATROL														
	18	2256	2302	NO FLARE PATROL														
231 MANI	18	2259	2307D	2302	N11	E69	.943	12322	24.1	8D	--N	1		.31	.66			2
232 MANI	18	2327	2330D	2329	N11	E70	.949	12322	24.2	3D	--N	2		.31	.67			2
GRP48236	19	0245	0301	0249	N12	E69	.944	12322	24.3	16	-N			.52				2 2 2 3
MANI	19	0245	0305	0247	N11	E69	.943	12322	24.3	20	-N	2		.62	1.33			
PALE	19	0248E	0257	0250U	N12	E68	.938	12322	24.2	90	-N	2	V	.41				
237 MANI	19	0800	0812	0803	N10	E66	.924	12322	24.3	12	--N	2		.41	.86			1
238 CANR	19	0942	1020	0949	N12	E63	.906	12322	24.1	38	-N		V	.70	1.50			2
239 RAMY	19	1033E	1039D	1036	N11	E64	.912	12322	24.2	6D	--F	2	C	.19				DE 3
240 CANR	19	1040	1105	1046	N12	E62	.899	12322	24.1	25	-N		V	.50	1.10			2
GRP48241	19	1243	1253	1244	N11	E63	.905	12322	24.3	10	--F			.21				1 1 1 1
RAMY	19	1243E	1253D	1244	N11	E63	.905	12322	24.3	10D	-F	4	V	.21				DE
RAMY	19	1243	1253	1244	N11	E63	.905	12322	24.3	10	-F	2	C	.19				DE
243 HUAN	19	1423	1427	1425	N10	E63	.903	12322	24.3	4	--F	1	C	.26	.57			4
GRP48244	19	1832	1842	1835	S14	E26	.455	12321	21.7	10	--N			.53				4 4 4 4
HUAN	19	1829	1845	1834	S15	E26	.459	12321	21.7	16	-N	1	C	.67	.75			E
MCHA	19	1830	1843	1833	S15	E25	.445	12321	21.6	13	-N		C	.52	.60			EH
PALE	19	1833E	1840D	1835U	S13	E28	.480	12321	21.9	7D	-N	3	V	.52				F H
CANR	19	1834	1840	1836	S14	E25	.440	12321	21.6	6	-F		V	.40	.40			
	19	2108	2126	NO FLARE PATROL														
	19	2130	2200	NO FLARE PATROL														

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
GRP48245 MANI PALE	20	0032	0047	0036	N08	E57	.851	12322	24.3	15	--F						2 2 2 3	
	20	0031	0050	0035	N08	E57	.851	12322	24.3	19	-F	2		0035	.29 .31 .27	.56		
	20	0033	0044	0037U	N07	E56	.841	12322	24.2	11	-F	2	C					
GRP48246 MANI VORO PALE	20	0051	0100	0053	S15	E20	.374	12321	21.5	9	--N				.62		3 3 3 3	
	20	0050	0105	0054	S15	E20	.374	12321	21.5	15	-N	2		0054	.41	.44		
	20	0052	0056	0053	S15	E19	.360	12321	21.5	4	-N		C	0053	.93	.98	56 D	
	20	0053E	0059D	0053U	S15	E22	.403	12321	21.7	6D	-F	2	V		.52		F	
	20	0324	0414	NO FLARE PATROL														
	20	0419	0426	NO FLARE PATROL														
	20	0430	0450	NO FLARE PATROL														
	20	0505	0610	NO FLARE PATROL														
	GRP48248 ATHN HUAN	20	1405	1431	1407	N11	E50	.792	12322	24.3	26	--F				.36		2 2 2 4
		20	1405E	1446	1406	N10	E50	.789	12322	24.3	41D	-F	2	V		.50		F
20		1405	1415	1408	N12	E49	.784	12322	24.3	10	-F	2	C	1408	.21	.33	D	
20		1601	1602	NO FLARE PATROL														
20		1608	1610	NO FLARE PATROL														
20		1630	1632	NO FLARE PATROL														
20		1919	1952	NO FLARE PATROL														
20		2035	2100	NO FLARE PATROL														
GRP48250 MANI CRON VORO MANI	21	0101	0119	0110	S16	E07	.223	12321	21.6	18	--N				.80		3 3 3 3	
	21	0052E	0110	0054U	S15	E10	.241	12321	21.8	18D	-N	1		0054	.83	.86		
	21	0106E	0114	0106E	S17	E05	.222	12321	21.4	8D	-N		V	0106	.65			
	21	0106	0117	0108	S16	E06	.214	12321	21.5	11	-N		C	0108	.93	.93	57 D	
	21	0113E	0125	0115U	S16	E08	.232	12321	21.7	12D	-N	1		0115	.31	.32		
	GRP48251 MANI PALE	21	0327	0405	0334	N13	E41	.702	12322	24.2	38	--N				.58		2 2 2 3
		21	0327	0405	0330	N13	E40	.691	12322	24.1	38	-N	2		0330	.52	.70	
		21	0332E	0358D	0337	N12	E42	.709	12322	24.3	26D	-N	2	C		.63		F
		6 STATIONS REPORTING GROUP 48252. 1 STATIONS OBSERVING AND NOT REPORTING.																
	GRP48252 MANI ATHN ISTA CAPS CATA	21	0650	0835	0742	N08	E37	.632	12322	24.1	105	--N				.69		5 3 2 6
21		0650	0840	0728	N08	E35	.606	12322	23.9	110	-N	2		0728	.72	.90		
21		0655E	0738	0732	N08	E38	.644	12322	24.1	43D	-N	2	V		.66		DE	
21		0730E	0830		N09	E37	.636	12322	24.1	60D	-F						D	
21		0739	0830		N08	E33	.580	12322	23.8	51	-N	2	S	0742	.70	.90	(189)	
21		0750E	0850D	0805	N09	E36	.623	12322	24.0	60D	-N	3		0805	.87	1.11	(178) T	
48252 ATHN TEHR	21	0657	0727	0659	N09	E37	.636	12322	24.1	30	*-F				.40		2 2 2 4	
	21	0655E	0738	0657	N08	E38	.644	12322	24.1	43D	-F	2	V		.50		DE	
	21	0658	0715	0701	N09	E35	.611	12322	23.9	17	-F	3	C		.29		F	
253 PALE	21	1006	1039D	1036	N11	E34	.609	12322	24.0	33D	--F		C		.19		DE 3	
GRP48255 BOUL CANR	21	1558	1617	1601	N14	E33	.615	12322	24.1	19	-N				.90		2 2 1 4	
	21	1558	1613	1601	N12	E32	.590	12322	24.1	15	-F		V					
	21	1600E	1620		N15	E33	.621	12322	24.1	20D	-B		V		.90			
256 PALE	21	1933E	1944		N11	E33	.596	12322	24.3	11D	-N	2	C				F 2	
GRP48257 RAMY HUAN	21	2050	2101	2056	N14	E34	.626	12322	24.4	11	--F				.31		2 2 2 3	
	21	2050	2108	2100U	N14	E33	.615	12322	24.3	18	-F	3	C		.46		DE H	
	21	2050	2053	2051	N13	E35	.632	12322	24.5	3	-F	1	C	2051	.15	.20	D	
	21	2055	2113	NO FLARE PATROL														
	21	2125	2131	NO FLARE PATROL														
GRP48258 RAMY HUAN	21	2126	2142	2133	N13	E33	.608	12322	24.4	16	--F				.36		2 2 2 2	
	21	2126	2144D	2133U	N14	E33	.615	12322	24.4	18D	-F	3	C		.46		DE H	
	21	2131E	2140		N12	E32	.590	12322	24.3	9D	-F	1	P	2133	.26	.32		
	21	2134	2137	NO FLARE PATROL														
	21	2158	2210	NO FLARE PATROL														

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SOLAR FLARES Confirmed

APRIL 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	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.												
259 MANI	21	2340	2357	2347	N13	E33	.608	12322	24.5	17	--N	2	2347	.52	.66		2	
260 MANI	22	0002	0011	0004	N13	E33	.608	12322	24.5	9	--F	2	0004	.31	.39		2	
GRP48262 CRON MANI	22	0243	0251	0245	N13	E32	.595	12322	24.5	8	--N			.41			2 2 2 3	
	22	0242E	0250	0244	N12	E32	.589	12322	24.5	80	-N	V	0244	.30				
	22	0243	02520	0245	N13	E31	.583	12322	24.4	90	-N	2	0245	.52	.64			
GRP48264 CATA ATHN	22	0955	1025	0958	N12	E27	.527	12322	24.4	30	--N			.71			2 2 2 4	
	22	0955	10250	0955	N13	E27	.535	12322	24.4	300	-N	3	0955	.58	.68	(182)		
	22	0957E	10090	1000	N11	E27	.519	12322	24.4	120	-N	3	V	.83			F	
GRP48267 CANR BOUL CAPS TEHR ATHN RAMY	22	1407	1420	1410	S05	E87	.998	12323	29.1	13	-N			.33			6 6 5 6	
	22	1405	1420	1410	S05	E88	.999	12323	29.2	15	-N	V	1410	.40	1.50			
	22	1408	1423	1410	S07	E89	1.000	12323	29.3	15	-B	V						
	22	1408	1420		S03	E85	.995	12323	29.0	12	-N	2	V	1408	.30			
	22	1408E	1419	1408U	S05	E87	.998	12323	29.1	110	-B	3	V	.33			DE	
	22	1408	1422	1411	S05	E86	.997	12323	29.0	14	-N	2	C	.33			DE	
	22	1409E	1417	1409U	S03	E85	.996	12323	29.0	80	-N	3	C	.28			DE	
	22	1505	1600	1514	N12	E22	.465	12322	24.3	55	-N			1.26			4 4 3 4	
GRP48268 ATHN HUAN BOUL CANR	22	1504	1600	1508	N11	E21	.444	12322	24.2	56	-N	2	C	1.65			F	
	22	1505	15190	1512	N11	E22	.456	12322	24.3	140	-F	2	P	1512	.52	.58	E	
	22	1505E	16200	1520U	N14	E23	.496	12322	24.4	750	-N	V						
	22	1511E	1540	1515	N12	E20	.441	12322	24.1	290	-N	V	1515	1.60	1.80			
GRP48270 PALE PALE PALE HUAN BOUL	22	1823	1849	1832	N13	E21	.463	12322	24.3	26	--N			.39			3 3 2 3	
	22	1820	1848	1826	N14	E19	.451	12322	24.2	28	-N	3	V	.36			F	
	22	1820	1848	1821	N14	E19	.451	12322	24.2	28	-N	3	V	.21			F	
	22	1823	1858	1826	N11	E22	.456	12322	24.4	35	-N	3	C	.36			F	
	22	1825	18470	1835U	N12	E21	.453	12322	24.3	220	-F	1	P	1835	.41	.46	E	
	22	1830E	18500	1834U	N14	E23	.496	12322	24.5	200	-N	V						
	22	2003	2016	2003	S06	E85	.995	12323	29.2	13	-N			.45			2 1 1 2	
GRP48271 PALE BOUL	22	2003E	20160	2003U	S06	E85	.995	12323	29.2	130	-N	2	C	.45				
	22	2014	2026	2016	S03	E86	.997	12323	29.3	12	-N	V	2020	.60	2.10			
	22	2035	2046	2038	S03	E86	.997	12323	29.3	11	--F	V	2040	.20	7.50		2	
GRP48275 BOUL PALE VORO MANI	22	2145	2223	2159	N13	E20	.451	12322	24.4	38	-N			1.70			4 3 3 4	
	22	2145	2230	2152	N13	E20	.451	12322	24.4	45	-B	V	2155	1.80	1.85			
	22	2146E	22100	2151U	N12	E20	.441	12322	24.4	240	-N	2	C	.81			F	
	22	2150E	2216		N15	E20	.472	12322	24.4	260	1N	P	2151	2.50	2.76	67	E	
	22	2215E	2232	2215U	N14	E20	.462	12322	24.4	170	-N	2		2215	1.03	1.17		
GRP48276 VORO BOUL MANI PALE	22	2242	2253	2245	S03	E84	.994	12323	29.2	11	-B			.66			4 4 3 4	
	22	2242	2248	2244	S02	E80	.984	12323	28.9	6	-N	C	2244	.65		62	D	
	22	2242E	23000	2245	S03	E85	.996	12323	29.3	180	-B	V	2250	.30	1.10			
	22	2243E	2250	2245	S03	E87	.998	12323	29.5	70	1B	1		2245	1.03	3.09		
	22	2243E	22460		S03	E85	.996	12323	29.3	30	-N	2	V				F	
GRP48278 PALE PALE MANI	23	0305	0314	0307	S05	E79	.980	12323	29.1	9	-N			.47			2 2 2 4	
	23	0254E	0313	0257	S06	E77	.973	12323	28.9	190	-N	3	V	.41			DE	
	23	0304	0312	0306	S04	E80	.984	12323	29.1	8	-N	3	V	.52			DE	
	23	0305	0315	0307	S04	E80	.984	12323	29.1	10	-N	2		.41	1.06			
GRP48279 PALE TEHR	23	0317E	0330	0318	N15	E17	.440	12322	24.4	13	--F			.24			2 2 2 5	
	23	0317E	0334	0317U	N15	E17	.440	12322	24.4	170	-N	3	V	.31				
	23	0319E	0325	0319U	N15	E17	.440	12322	24.4	60	-F	3	V	.17			DE	
281 TEHR	23	0532	0544	0540	N14	E16	.418	12322	24.4	12	--F	4	C	.09			DE 4	
GRP48286 MCMA HUAN PALE	23	1703E	1805	(1717)	N11	E07	.299	12322	24.2	62	--F			.80			3 2 2 3	
	23	1703E	18050		N12	E07	.314	12322	24.2	620	-N			1.03	1.10		FL	
	23	1706E	17220		N11	E07	.299	12322	24.2	160	-F	1	P	1713	.57	.59	E	
	23	1742E	1746		N11	E07	.299	12322	24.3	40	-N	2	V				F	
	23	1815	1817	NO FLARE PATROL														
GRP48287 PALE MCMA	23	1919	1954	1921	N11	E08	.306	12322	24.4	35	--N			.28			2 2 2 3	
	23	1919	1954	1921	N09	E06	.262	12322	24.3	35	-N	2	V	.15			F	
	23	1924E	19360		N12	E10	.336	12322	24.6	120	-N	C	1935	.41	.40		E	
48287 HUAN PALE BOUL MCMA	23	1930	2009	1946	N11	E06	.293	12322	24.3	39	--F			.62			4 3 3 4	
	23	1926	2007		N11	E07	.299	12322	24.3	41	-F	1	C	.62	.65		EI	
	23	1930	2012	1947	N11	E05	.288	12322	24.2	42	-N	2	C	.45			F	
	23	1933	2007	1945	N11	E07	.299	12322	24.3	34	-F	V	1945	.80	.80			
	23	1955E	19580		N12	E08	.321	12322	24.4	30	-N	P	1955	.62	.60		E	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973 APR	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.	MER. DIST.												
288 HUAN	23	2030	2040	2032	N13	E07	.330	12322	24.4	10	--F	2	C	2032	.31	.33		2
GRP48289	23	2254	2323	2301	S07	E71	.943	12323	29.3	29	1N				1.64			4 3 3 4
BOUL	23	2253	2330	2300	S08	E73	.954	12323	29.4	37	1N		V	2300	1.70	4.50		
PALE	23	2254	2315	2300	S06	E69	.931	12323	29.1	21	1N	3	C		1.36			F
CULG	23	2254	2317	2257	N05	E70	.943	12323	29.2	23	1N		C	2257	.93			F
MANI	23	2302E	23080	23020	S07	E70	.937	12323	29.2	60	1N	2	C	2302	1.86	3.98		
GRP48290	24	0242	0259	0244	S14	W37	.610	12321	21.3	17	-F				.23			2 2 2 5
MANI	24	0242	0257	0244	S15	W37	.612	12321	21.3	15	-F	2		0244	.21	.26		
TEHR	24	0242E	0300	0244U	S13	W36	.594	12321	21.4	180	-F	3	V		.25			DE
GRP48291	24	0310	0320	0315	S14	W38	.623	12321	21.3	10	--F				.31			2 2 2 5
PALE	24	0310	0320	0315	S14	W39	.636	12321	21.2	10	-F	3	C		.36			
TEHR	24	0312E	0319	0314U	S13	W37	.607	12321	21.4	70	-F	3	V		.25			DE
GRP48292	24	0417	0430	0418	S15	W39	.638	12321	21.3	13	--F				.45			3 3 3 5
MANI	24	0414	0445D	0417	S15	W38	.625	12321	21.3	31D	-N	2		0417	.62	.80		
TEHR	24	0418	0423	0419	S16	W39	.641	12321	21.3	5	-F	3	C		.09			DE
CRON	24	0418E	0423		S15	W39	.638	12321	21.3	5D	-F		V		.65			
GRP48293	24	0950	1006	0953	N14	W03	.327	12322	24.2	16	--N				.60			2 2 2 3
CATA	24	0950	1010D	0955	N14	W01	.324	12322	24.3	20D	-N	3		0955	.87	.91	(195)	
TEHR	24	0951E	1002	0951U	N14	W04	.330	12322	24.1	11D	-N	3	V		.33			DE
GRP48294	24	1315	1402	1318	N14	W04	.330	12322	24.3	47	--N				.63			4 3 3 5
CANR	24	1313	1337	1322	N03	W03	.146	12322	24.3	24	-F		V		.70			
MCMA	24	1314	1402	1318	N14	W02	.325	12322	24.4	48	-N		C	1318	.52	.50		E
CATA	24	1315	1335D	1315	N14	W03	.327	12322	24.3	200	-B	3		1315	.87	.91	(234)	
TEHR	24	1320E	1331D	1320U	N14	W06	.338	12322	24.1	11D	-N	3	V		.50			DE
GRP48295	24	1413	1449	1415	N14	W03	.327	12322	24.4	36	--N				.76			4 3 3 5
HUAN	24	1412	1441D	1414U	N13	W03	.311	12322	24.4	29D	-N	1	P	1414	.72	.76		E
UPIC	24	1414	1447		N14	W04	.330	12322	24.3	33	-F		P	1417	.63			
BOUL	24	1414E	1425D	1416	N12	E11	.344	12322	25.4	11D	-B		V					
MCMA	24	1418E	1451D		N14	W03	.327	12322	24.4	33D	-B		C	1418	.93	1.00		
GRP48296	24	1446	1456	(1448)	S04	E58	.846	12323	29.0	10	--F				.47			2 2 2 4
MCMA	24	1445E	1451D		S04	E57	.837	12323	28.9	6D	-N		P	1445	.31	.60		DL
UPIC	24	1447	1456		S03	E58	.847	12323	29.0	9	-F		P	1451	.63			
297 RAMY	24	1554E	1605D	1554U	N07	W08	.247	12322	24.1	11D	--F	4	V		.46			DE 2
298 PALE	24	1743	1758	1747	S05	E54	.807	12323	28.8	15	--F	3	C		.36			3
GRP48299	24	1917	2010	1928	N13	W06	.323	12322	24.4	53	-B				1.84			2 2 2 2
PALE	24	1917	2010	1928	N13	W05	.318	12322	24.4	53	1B	3	C		2.35			F
RAMY	24	1924E	2010	1927	N13	W07	.328	12322	24.3	46D	-B	4	V		1.32			F
GRP48300	25	0053	0115	0103	N15	W09	.370	12322	24.4	22	--F				.43			2 2 2 4
PALE	25	0051	0112	0102	N15	W09	.370	12322	24.4	21	-F	3	C		.45			
MANI	25	0054	0118	0103	N14	W09	.355	12322	24.4	24	-N	2		0103	.41	.44		
GRP48301	25	0227	0306	0237	N14	W10	.362	12322	24.4	39	--N				.84			4 4 4 6
MANI	25	0152	0220	0157	N14	W09	.355	12322	24.4	28	-F	2		0157	.41	.44		
KODA	25	0208E	0313	0241	N13	W12	.365	12322	24.2	65D	-B		P	0209	2.06	2.10	1.68	E
PALE	25	0224	0249	0235	N15	W10	.376	12322	24.4	25	-F	3	C		.36			F
MANI	25	0230	0255	0235	N14	W10	.362	12322	24.4	25	-N	2		0235	.41	.44		
MITK	25	0239E	0325D		N14	W09	.355	12322	24.4	46D	-F		C	0240	.52	.60		D
GRP48303	25	0426	0501	0430	N11	W13	.349	12322	24.2	35	1N				2.26			4 4 4 7
MANI	25	0420	0510	0429	N11	W13	.349	12322	24.2	50	1N	2		0429	2.27	2.40		
ATHN	25	0422E	0452	0425	N10	W12	.326	12322	24.3	30D	-N	1	V		1.65			F
KODA	25	0427	0451D	0428	N13	W14	.384	12322	24.1	24D	1N		C	0436	2.33	2.40	1.80	EF
MITK	25	0436	0440D	0437	N11	W13	.349	12322	24.2	40	1N		C	0437	2.78	3.00		E
GRP48306	25	0755	0808	0800	N14	W13	.387	12322	24.4	13	--F				.46			2 2 2 7
ATHN	25	0754	0805	0757	N13	W13	.374	12322	24.4	11	-F	2	C		.50			DE
MANI	25	0755	0810	0802	N14	W12	.378	12322	24.4	15	-F	2		0802	.41	.44		
GRP48308	25	0930	0947	0934	N14	W14	.396	12322	24.3	17	--F				.38			3 3 3 7
MANI	25	0930	0939D	0934U	N14	W13	.387	12322	24.4	90	-F	2		0934	.41	.44		
CAPS	25	0930	0950		N13	W15	.394	12322	24.3	20	-N	2	S	0935	.40	.40	(190)	
ATHN	25	0932E	0944	0934	N15	W14	.409	12322	24.3	12D	-F	2	V		.33			DE
312 TEHR	25	1108	1119	1111	N13	W14	.384	12322	24.4	11	--N	4	V		.51			F 3
	25	1138	1143	NO FLARE PATROL														

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1973 APR	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 _g		MAX. INT. %
					LAT.	MER. DIST.												
GRP48313	25	1212	1247	1222	N12	W18	.415	12322	24.2	35	-N			1.45			7 7 6 7	
HUAN	25	1216E	1240		N11	W20	.429	12322	24.0	30D	-N	1	P					
ATHN	25	1211E	1222D	1213	N15	W18	.448	12322	24.2	11D	-N	2	V	.83			F	
RAMY	25	1212	1250	1219	N12	W20	.439	12322	24.0	38	-N	4	C	1.30			U F	
CAPS	25	1212	1245		N12	W15	.382	12322	24.4	33	-B	1	S	1215 1.00	1.10		(240)	
CATA	25	1215	1230D	1225	N13	W18	.426	12322	24.2	15D	1N	3		1225 2.31	2.56		(191)	
MCMA	25	1221E	1340		N12	W19	.427	12322	24.1	79D	-N		C	1226 .93	1.00		E	
TEHR	25	1229E	1252	1229U	N12	W18	.415	12322	24.2	23D	1N	2	V	2.31			F	
GRP48314	25	1405	1415	(1407)	S13	E47	.732	12323	29.1	10	-N			.76			2 2 2 5	
CAPS	25	1405	1410		S12	E48	.743	12323	29.2	5	-B	2	V	1406 1.00	1.40			
MCMA	25	1405E	1420		S14	E45	.710	12323	29.0	15D	-F		C	1407 .52	.70		E	
GRP48316	25	1532	1554	1540	S06	E49	.752	12323	29.3	22	-N			.74			4 4 3 4	
RAMY	25	1525E	1545	1528	S04	E48	.741	12323	29.2	20D	-N	4	V	.28			DE	
MCMA	25	1527	1605	1538	S06	E47	.729	12323	29.2	38	-N		C	1538 .83	1.30		E	
HUAN	25	1534	1550	1541	S05	E50	.764	12323	29.4	16	-F	1	C					
CAPS	25	1542	1555		S10	E50	.764	12323	29.4	13	-N	2	V	1543 1.10	1.50		(200)	
GRP48317	25	1610	1701	1621	S02	E37	.602	12323	28.4	51	--F			1.04			2 2 2 3	
MCMA	25	1610	1702	1623	S02	E36	.588	12323	28.4	52	-F		C	1623 .52	.60		EL	
RAMY	25	1615E	1700	1619U	S02	E37	.602	12323	28.5	45D	-N	4	V	1.55			DE	
GRP48318	25	1658	1714	1703	N14	W19	.448	12322	24.3	16	--F			.47			4 4 4 4	
MCMA	25	1656	1714	1701	N15	W18	.448	12322	24.4	18	-N		C	1701 .41	.50		E	
RAMY	25	1659	1714	1702	N14	W18	.437	12322	24.4	15	-N	4	V	.31			DE	
HUAN	25	1700	1710	1702	N14	W19	.448	12322	24.3	10	-F	1	C	1702 .26	.29			
PALE	25	1703E	1719	1707	N14	W20	.459	12322	24.2	16D	-F	2	C	.91			F	
GRP48319	25	2107	2200	2112	S04	E39	.628	12323	28.8	53	--F			.68			2 2 2 2	
MCMA	25	2107	2200D	2112	S04	E37	.600	12323	28.7	53D	-F		C	2112 .52	.60		E	
RAMY	25	2109E	2130D	2111U	S03	E41	.655	12323	29.0	21D	-F	3	V	.83			DE	
	25	2200	2220	NO FLARE PATROL														
GRP48320	26	0134	0144	0135	S14	E40	.649	12323	29.1	10	--N			.26			2 2 2 3	
MANI	26	0134E	0145	0134U	S14	E41	.662	12323	29.1	11D	-N	2		0134 .21	.28			
CRON	26	0134E	0142	0136	S13	E39	.634	12323	29.0	8D	-N		V	0136 .30				
321 CRON	26	0156E	0230		S13	E42	.673	12323	29.2	4D	--F		V	.70			3	
GRP48323	26	0628	0724	0642	N12	W29	.549	12322	24.1	56	-B			2.32			6 6 6 8	
MANI	26	0624	0731	0636	N13	W30	.568	12322	24.0	67	1B	2		0636 3.61	4.41			
MANI	26	0624	0731	0631U	N13	W30	.568	12322	24.0	67	1N	2		0631 2.27	2.77			
CRON	26	0627E	0722	0631	N11	W30	.555	12322	24.0	55D	-N		V	0631 1.50				
CRON	26	0627E	0722	0638	N12	W31	.574	12322	23.9	55D	-N		V	0638 1.50				
ATHN	26	0628	0732	0637U	N12	W30	.562	12322	24.0	64	-N	2	C	1.65			F	
CAPS	26	0630	0706		N10	W25	.483	12322	24.4	36	1B	3	P	0635 2.00	2.40		(370)	
UPIC	26	0632	0729		N13	W31	.581	12322	23.9	57	-B		P	1.69				
CATA	26	0635E	0725	0655	N14	W29	.563	12322	24.1	50D	1B	3		0655 3.48	4.20		(240)	
GRP48324	26	0842	0857	0848	S06	E28	.468	12323	28.5	15	-N			.94			5 5 5 9	
MONT	26	0836	0858	0839	S05	E26	.437	12323	28.3	22	-N		C	0839 .41			E	
CANR	26	0840	0900	0848	S07	E28	.469	12323	28.5	20	1F		V	0848 1.80	2.10			
ATHN	26	0843	0903	0847	S06	E29	.483	12323	28.5	20	-F	2	C	.83			DE	
CRON	26	0846	0851		S07	E28	.469	12323	28.5	5	-N		V	.85				
CAPS	26	0847	0855		S07	E28	.469	12323	28.5	8	-N	2	V	0849 .80	1.00		(180)	
GRP48325	26	1302	1317	1305	S11	E31	.520	12323	28.9	15	--N			.64			5 5 5 8	
ATHN	26	1301	1321	1305	S12	E31	.523	12323	28.9	20	-N	2	C	.83			DE	
RAMY	26	1301E	1315	1303U	S08	E29	.485	12323	28.7	14D	-N	4	V	.46			DE	
MCMA	26	1302	1316	1306	S11	E31	.520	12323	28.9	14	-N		C	1306 .62	.70		E	
HUAN	26	1302	1312	1307	S11	E32	.534	12323	28.9	10	-N	2	C	1307 .41	.49		E	
CATA	26	1305	1320	1305	S11	E30	.505	12323	28.8	15	-N	1		1305 .87	1.00		(158)	
GRP48327	26	1606	1619	1610	S14	E33	.557	12323	29.1	13	--N			.75			3 3 3 6	
RAMY	26	1604	1617	1608	S14	E33	.557	12323	29.1	13	-F	3	C	.56			DE	
ATHN	26	1605E	1609D	1607	S12	E34	.565	12323	29.2	4D	-N	1	V	.83			F	
CATA	26	1610	1620	1615	S15	E33	.560	12323	29.1	10	-N	3		1615 .87	1.05		(158)	
3 STATIONS REPORTING GROUP 48328. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48328	26	1917	2054	1920	N12	W36	.636	12322	24.1	97	-N			.59			2 2 2 2	
MCMA	26	1916	1933D	1919	N13	W36	.641	12322	24.1	17D	-N		C	1919 .62	.70		E	
RAMY	26	1917	2054	1920	N11	W36	.631	12322	24.1	97	-N	2	C	.56			U S	
48328	26	1933	2110	1951	N13	W36	.641	12322	24.1	97	*-N			1.34			2 1 1 3	
MCMA	26	1933	2110	1951	N13	W36	.641	12322	24.1	97	-N		C	1951 1.34	1.70		EKX	
BOUL	26	1938E	2115D	1938E	N12	W37	.648	12322	24.0	97D	1N		V	1938 2.36				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1973	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	APR																	
329 MCMA	26	2159	22010		N13	W38	.665	12322	24.1	20	--F	P	2201	.36	.50		E 2	
330 MANI	26	2244E	2257	2244U	S08	E20	.344	12323	28.4	130	--F	1	2244	.41	.44		2	
332 MANI	26	2300	2318	2307	N10	W33	.588	12322	24.5	13	--N	1	2307	.72	.90		2	
333 BOUL	27	0003	0024	0008	S07	E07	.128	12334	27.5	21	--F	V	0008		.40		3	
GRP48334	27	0342	0420	0355	S04	E20	.341	12323	28.7	38	-N			1.03			4 3 3 5	
TEHR	27	0335	0441	0353	S03	E19	.326	12323	28.6	66	-N	4	C	.91			F	
MANI	27	0336	0437	0404	S06	E22	.374	12323	28.8	61	-F		0404	.83	.89			
MANI	27	0336	0435	0352U	S06	E22	.374	12323	28.8	59	-F	2	0352	.52	.56			
MANI	27	0343	0415	0352	S02	E20	.344	12323	28.7	32	-N	2	0352	1.03	1.10			
CRON	27	0348	0415		S03	E21	.359	12323	28.7	27	-N		V	1.15				
ATHN	27	0400E	0410	0400U	S04	E21	.358	12323	28.7	100	-N	1	V	.99			DE	
GRP48335	27	0415	0430	0421	S01	E24	.410	12323	29.0	15	--F			.50			2 2 2 4	
TEHR	27	0414	0429	0422	S02	E23	.392	12323	28.9	15	-F	4	C	.28			DE	
MANI	27	0415	0430	0419	S00	E24	.413	12323	29.0	15	-F	2	0419	.72	.79			
GRP48337	27	0932	0947	0935	N11	W36	.630	12322	24.7	15	--N			.73			6 6 6 10	
CAPS	27	0928	0953		N10	W33	.587	12322	24.9	25	-B	2	V	.50	.60	(225)		
MONT	27	0931	0940	0933	N11	W38	.655	12322	24.5	9	-N		C	.21			D	
MEUD	27	0932	0942	0933	N11	W37	.643	12322	24.6	10	-F		C	.62	.80		E	
ZURI	27	0932	0954	0934	N12	W37	.647	12322	24.6	22	-N		C	0934	1.65	2.20		
TEHR	27	0933	0943D	0940	N10	W35	.613	12322	24.8	100	-F	3	C	.55			F	
CATA	27	0935	0950	0935	N13	W37	.653	12322	24.6	15	-B	3	0935	.87	1.14	(204)		
GRP48338	27	1013	1037	1017	N13	W37	.653	12322	24.7	24	-B			1.48			7 7 7 8	
ZURI	27	1008	1034	1014	N14	W39	.681	12322	24.9	26	1B		C	1014	2.27	3.10		
CANR	27	1011	1025	1015	N14	W38	.669	12322	24.6	14	1N		V	1015	2.10	2.70		
UPIC	27	1011	1043	1015	N14	W37	.658	12322	24.6	32	1B		P	1015	2.54			
MEUD	27	1012	1025	1015	N13	W38	.664	12322	24.6	13	-N		C	1015	1.13	1.50	E	
CATA	27	1015	1050	1015	N14	W38	.669	12322	24.6	35	-B	3		1015	1.16	1.55	(240)	
CAPS	27	1022	1044		N11	W34	.605	12322	24.9	22	-B	1	S	1022	.60	.70	(280)	
RAMY	27	1024E	1133	1026U	N13	W37	.653	12322	24.7	690	-N	2	C	.56			DE	
GRP48339	27	1112	1130	1116	N11	W37	.643	12322	24.7	18	--N			.82			5 4 4 8	
RAMY	27	1024E	1133	1052U	N13	W37	.653	12322	24.7	690	-F	2	C	.84			DE	
MONT	27	1109	1136	1118	N12	W38	.659	12322	24.6	27	-N		C	1118	.52		E	
ZURI	27	1110	1130	1114	N12	W37	.647	12322	24.7	20	-F		C	1114	1.65	2.20		
MEUD	27	1112	1125		N12	W38	.659	12322	24.6	13	-F		C	1116	.62	.80		
CAPS	27	1118	1129		N09	W33	.582	12322	25.0	11	-B	2	S	1120	.50	.60	(210)	
GRP48340	27	1210	1237	1217	S08	E11	.199	12323	28.3	27	--N			.74			9 9 9 9	
MONT	27	1204	1234D	1219	S08	E11	.199	12323	28.3	300	-N		C	1219	.52		E	
ZURI	27	1208	1234	1214	S08	E11	.199	12323	28.3	26	-N		C	1214	1.24	1.30		
HUAN	27	1209	1235	1219	S08	E10	.182	12323	28.3	26	-F	2	C	1219	.21	.21	D	
MEUD	27	1209	1238		S07	E11	.194	12323	28.3	29	-F		C	1214	.41	.40	E	
UPIC	27	1210	1233		S06	E11	.192	12323	28.3	23	-N		P	1216	.85		DI	
CATA	27	1210	1250	1225	S07	E10	.178	12323	28.3	40	-N	1		1225	.58	.58	(191)	
RAMY	27	1213E	1240	1213U	S08	E10	.182	12323	28.3	270	-N	4	C	.46			DE	
CANR	27	1214E	1230	1214E	S08	E11	.199	12323	28.3	160	-N		V	1214	1.20	1.20		
CAPS	27	1215	1238		S12	E17	.315	12323	28.8	23	-N	2	V	1217	1.20	1.20	(190)	
	27	1755	1757		NO FLARE PATROL													
	27	1833	1840		NO FLARE PATROL													
	27	1917	1929		NO FLARE PATROL													
GRP48343	28	0002	0054	0008	S08	E08	.151	12323	28.6	52	-N			1.12			4 3 3 5	
PALE	28	0002	0054	0007	S07	E08	.145	12323	28.6	52	-N	3	C	.99			F	
MITK	28	0002	0016D	0008	S07	E08	.145	12323	28.6	140	-F		C	0008	1.55	1.60	E	
MANI	28	0008E	0018D	0008U	S09	E08	.159	12323	28.6	100	-N	2		.83	.84			
CRON	28	0014E	0019		S07	E09	.162	12323	28.7	50	-F		V	1.30				
346 ATHN	28	0538	0544D	0542	S02	E32	.531	12323	30.6	60	--F	2	C	.33			DE 5	
GRP48349	28	0945	1000	0949	N10	E48	.766	12329	2.0	15	--F			.22			2 2 2 6	
ATHN	28	0944	1000	0947	N07	E48	.758	12329	2.0	16	-F	3	C	.33			DE H	
MONT	28	0945	0959D	0951	N13	E47	.764	12329	1.9	140	-N		C	0951	.10		OH	
GRP48351	28	1232	1301	1235	S13	E06	.180	12323	29.0	29	--F			.28			2 2 1 7	
RAMY	28	1230	1301	1234	S13	E05	.171	12323	28.9	31	-F	4	C	.28			DE	
HUAN	28	1233	1240D	1236	S12	E06	.166	12323	29.0	70	-F	1	C					

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	DATE 1973 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %	
					LAT.	MER. DIST.												
GRP48353	28	1457	1610	1514	S13	E06	.180	12323	29.1	73	--N			.74				2 1 1 5
RAMY	28	1457	1610D	1514	S13	E06	.180	12323	29.1	73D	-N	4	C	.74				DE
UPIC	28	1531	1614	1533	S12	E04	.148	12323	28.9	43	-F		P	.63				I
GRP48354	28	1630	1655	1632	N12	W57	.857	12322	24.4	25	--F			.31				2 2 1 5
MCMA	28	1630E	1710D		N12	W58	.866	12322	24.3	40D	-F		C	.31	.60			E
BOUL	28	1630	1639	1632	N12	W56	.849	12322	24.5	9	-F		V					
GRP48355	28	1741	1823	1749	S08	W01	.064	12323	28.7	42	-F			1.34				4 2 1 4
RAMY	28	1740	1835	1743	S08	E01	.064	12323	28.8	55	-N	2	V	1.34				DE
BOUL	28	1742	1813	1745	S07	W02	.056	12323	28.6	31	1F		V		2.40			
MCMA	28	1755E	1820D		S07	W03	.068	12323	28.5	25D	-N		P	.93	.90			E
PALE	28	1756E	1824	1758U	S07	E00	.044	12323	28.7	280	-N	3	V	1.86				F
356 PALE	28	1933E	1956	1942	N13	W56	.851	12322	24.6	23D	--F	2	C	.36				F 3
GRP48357	28	2014	2028	2016	N13	W58	.868	12322	24.5	14	-F			.63				2 2 1 4
PALE	28	2013E	2028	2013	N13	W57	.859	12322	24.6	15D	-N	2	C	.63				DE
BOUL	28	2015	2028	2018	N13	W58	.868	12322	24.5	13	-F		V		1.50			
48357	28	2021	2040	2031	N13	W60	.884	12322	24.3	19	*-F			.36				2 2 1 5
MCMA	28	2012	2040D		N12	W60	.882	12322	24.3	28D	-N		C	.36	.70			EK
BOUL	28	2030	2040	2031	N13	W59	.876	12322	24.4	10	-F		V		.75			
GRP48359	28	2246	2253	2248	N11	W61	.888	12322	24.4	7	-N			.73				2 2 2 2
MANI	28	2246E	2255	2248	N10	W62	.894	12322	24.3	9D	-N	1		.83	1.60			
PALE	28	2246	2251	2247	N10	W60	.879	12322	24.4	5	-N	3	V	.62				
PALE	28	2246	2251	2249	N13	W60	.884	12322	24.4	5	-N	2	C	.55				
4 STATIONS REPORTING GROUP 48361. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48361	29	0133	0211	0134	N14	W65	.921	12322	24.2	38	-N			.57				3 3 2 3
MANI	29	0132	0218	0134	N15	W66	.928	12322	24.1	46	-N	2		.41	.84			
PALE	29	0133	0138D	0135	N14	W64	.914	12322	24.3	5D	-N	2	C	.72				F
CRON	29	0133E	0204	0133E	N14	W66	.927	12322	24.1	31D	1N		V					
48361	29	0132	0218	0150	N15	W66	.928	12322	24.1	46	*-N			.93				2 1 1 4
MANI	29	0132	0218	0150	N15	W66	.928	12322	24.1	46	-N			.93	1.89			DE
TEHR	29	0218	0248	0224	N13	W66	.926	12322	24.1	30	-N	2	C	.36				
GRP48362	29	0252	0306	0254	N13	W65	.919	12322	24.2	14	--F			.31				2 2 1 5
MANI	29	0252	0309D	0254	N13	W65	.919	12322	24.2	17D	-F	2		.31	.62			
CRON	29	0259	0303		N13	W65	.919	12322	24.2	4	-F		V					
GRP48363	29	0414	0430	0419	N12	W65	.918	12322	24.3	16	1N			1.85				4 4 3 5
MANI	29	0348E	0351D	0351U	N13	W65	.919	12322	24.3	3D	-F	2		.31	.62			
TEHR	29	0351	0439	0419	N14	W64	.914	12322	24.4	48	1N	4	C	1.37				F
MANI	29	0413	0418D	0418U	N12	W67	.931	12322	24.2	5D	1B	2		1.44	3.00			
TACH	29	0415	0424	0420	N10	W62	.894	12322	24.5	9	1N		C	0420	2.73	2.67	69	ELU
CRON	29	0415E	0428		N10	W67	.929	12322	24.2	13D	-N		V					
GRP48365	29	0625	0732	0634	N12	W65	.918	12322	24.4	67	-B			1.00				5 4 4 6
CAPS	29	0624	0746		N12	W63	.904	12322	24.5	82	-B	2	V	.60				(370)
BUCA	29	0625E	0705D		N13	W67	.932	12322	24.2	40D	1N		C	1.32	3.40			E
MANI	29	0626	0647D	0630	N13	W66	.926	12322	24.3	21D	-B	2		.93	1.89			DE
ATHN	29	0628E	0718	0630	N10	W65	.916	12322	24.4	53D	-B	3	V	1.16				E
KODA	29	0640	0648	0641	N12	W64	.911	12322	24.5	8	1B		C	4.95	4.95	1.42		
6 STATIONS REPORTING GROUP 48366. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48366	29	0959	1028	1006	N12	W74	.967	12322	23.9	23	-B			.87				4 4 3 6
ISTA	29	0955	1025	1004	N13	W71	.954	12322	24.1	33	-B							
ATHN	29	1001E	1130	1003	N12	W72	.958	12322	24.0	89D	-B	3	V	.66				DE
CANR	29	1001	1005D	1005	N11	W80	.988	12322	23.4	4D	-B		V	.80	1.60			
CATA	29	1005E	1030	1010	N12	W73	.963	12322	23.9	25D	1B	3		1.16				(219)
48366	29	1035	1100	1040	N13	W65	.919	12322	24.6	25	*-N			.58				2 2 1 7
ISTA	29	0910	1050D		N12	W65	.918	12322	24.5	100D	-N							
CATA	29	1035	1100D	1040	N13	W65	.919	12322	24.6	25D	-N	3		.58	1.47			(191)
48366	29	1015	1119	1018	N12	W66	.925	12322	24.5	64	*1N			2.78				2 1 1 8
RAMY	29	1015E	1119D	1018U	N12	W66	.925	12322	24.5	64D	1N	2	C	2.78				F
CAPS	29	1030	1112		N11	W63	.903	12322	24.7	42	-B	1	S	.80				
370 RAMY	29	1628E	1637	1629U	N13	W72	.959	12322	24.3	9D	--F	3	V	.21				DE 1
GRP48371	29	1719	1744	1729	S01	W09	.167	12323	29.0	25	--N			.64				2 2 2 3
PALE	29	1719	1735	1733	N01	W10	.197	12323	29.0	16	-N	3	C	.63				F
PALE	29	1722E	1730	1724U	S03	W07	.124	12323	29.2	8D	-N	3	V	.31				F
RAMY	29	1724E	1753	1725	S00	W09	.174	12323	29.1	29D	-N	3	V	.65				U

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE APR	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 Ha	MAX. INT. %	
372 RAMY	29	1725	1739	1728	N07	W69	.938	12322	24.6	14	--F	3 C		.93				DE 3
GRP48373	29	1839	1905	1843	N13	W73	.964	12322	24.3	26	-N			.75				3 3 3 3
RAMY	29	1835	1905D	1841	N11	W69	.942	12322	24.6	30D	-N	3 C		.93				DE
PALE	29	1840	1851D	1843	N14	W73	.964	12322	24.3	11D	-N	3 C		.81				ZDE
CANR	29	1843	1848D	1846	N13	W77	.980	12322	24.0	5D	-N	V	1846	.50	1.50			
	29	1856	1859		NO FLARE PATROL													
	29	1907	1911		NO FLARE PATROL													
	29	1947	1948		NO FLARE PATROL													
4 STATIONS REPORTING GROUP 48374. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48374	29	2056	2238	2104	N14	W73	.964	12322	24.4	102	2B			2.59				2 2 2 2
RAMY	29	2056	2150D	2100	N13	W73	.964	12322	24.4	54D	2B	2 V		2.64				Z U
PALE	29	2056E	2238D	2108	N14	W72	.960	12322	24.5	102D	2B	3 C		2.53				Z F
PALE	29	2056E	2238D	2100	N14	W72	.960	12322	24.5	102D	1B	3 C		2.07				Z F
48374	29	2158E	2255	2158	N13	W75	.972	12322	24.3	57	*1B			1.55				2 1 1 5
MANI	29	2158E	2255	2158U	N13	W75	.972	12322	24.3	57D	1B	1	2158	1.55	3.66			
MITK	29	2245E	2320	2303	N13	W90	1.000	12322	23.2	35D	1F	C	2303	.52				EH
GRP48375	29	2259	2323	2302	S07	W18	.311	12323	28.6	24	-N			.93				2 2 2 2
MANI	29	2254	2322	2257	S06	W18	.309	12323	28.6	28	-N	2	2257	1.13	1.19			
MITK	29	2303	2323	2307	S08	W18	.313	12323	28.6	20	-N	C	2307	.72	.80			E
GRP48377	30	0458	0510	0500	S05	W20	.341	12323	28.7	12	--F			.47				4 4 4 6
TEHR	30	0457	0512	0459	S04	W20	.341	12323	28.7	15	-N	3 C		.23				DE
MANI	30	0458	0510D	0500	S06	W20	.342	12323	28.7	12D	-F	2	0500	.62	.65			
CRON	30	0458E	0503	0458E	S05	W20	.341	12323	28.7	5D	-N	V	0458	.70				
ATHN	30	0502E	0514D	0502U	S05	W19	.325	12323	28.8	12D	-F	1 V		.33				DE
10 STATIONS REPORTING GROUP 48379. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48379	30	0552	0745	0601	S05	W22	.374	12323	28.6	113	1B			4.88				6 6 6 7
MITK	30	0550	0655D	0559	S04	W22	.374	12323	28.6	65D	2B	C	0559	9.90	10.60			F
ATHN	30	0551	0740	0559	S05	W23	.390	12323	28.5	109	1B	1 C		3.65				U F
TEHR	30	0552	0745	0600	S06	W23	.390	12323	28.5	113	1B	4 C		3.92				U F
MANI	30	0553	0614D	0604	S05	W22	.374	12323	28.6	21D	1B	2	0604	4.64	5.00			
ABST	30	0553	0603D	0559	S04	W22	.374	12323	28.6	10D	1N	P	0559	3.16	3.40			FZ
CRON	30	0553E	0750	0603	S04	W21	.357	12323	28.7	117D	1N	V	0603	4.00				
48379	30	0555E	0748	0626	S04	W24	.406	12323	28.4	113	*2N			11.45				2 2 2 9
WEND	30	0555E	0742		S04	W24	.406	12323	28.4	107D	2N	P		12.38				
ZURI	30	0620E	0754	0626	S04	W23	.390	12323	28.5	94D	2N	P	0626	10.52	11.50			
48379	30	0632	0743	0640	S04	W21	.357	12323	28.7	71	*-B			2.50				2 2 2 10
UPIC	30	0623E	0739	0640	S03	W21	.358	12323	28.7	76D	-B	P	0640	1.49				I
CAPS	30	0640	0746		S05	W20	.341	12323	28.8	66	1B	3 S	0642	3.50	3.90	(340)		
GRP48380	30	0845	0911	0854	S10	E89	1.000	12336	7.0	26	1N			1.35				4 3 2 10
ATHN	30	0825E	0900	0835U	S10	E90	1.000	12336	7.1	35D	-N	3 V						DE
MONT	30	0836	0907	0855	S11	E87	.998	12336	6.9	31	1N	C	0855	2.27				
UPIC	30	0846	0913	0852	S08	E90	1.000	12336	7.1	27	1N	P	0852	.42				
CAPS	30	0852	0912		S12	E90	1.000	12336	7.1	20	1N	3 V						
GRP48388	30	1620	1634	1624	N13	W84	.996	12322	24.4	14	-N			.28				2 2 1 4
RAMY	30	1619E	1634	1624	N13	W82	.993	12322	24.5	15D	-N	4 C		.28				DE
WEND	30	1620	1634		N12	W85	.998	12322	24.3	14	-N							
GRP48389	30	1737	1808	1743	N14	W88	1.000	12322	24.1	31	-B			1.63				3 2 1 4
RAMY	30	1725	1751D	1729	N13	W85	.998	12322	24.4	26D	-B	4 C		.37				Y
PALE	30	1737E	1808	1743	N14	W85	.998	12322	24.4	31D	1B	3 C		1.63				Y
HUAN	30	1737E	1740D		N13	W90	1.000	12322	24.0	3D	-N	1 P						
391 PALE	30	2006	2019	2011	S15	E89	.999	12336	7.5	13	--F	2 C						F 1
	30	2047	2124		NO FLARE PATROL													
GRP48392	30	2247	2312	2259	N13	W89	1.000	12322	24.3	25	-B			.21				2 2 1 3
PALE	30	2247	2312	2255	N14	W88	1.000	12322	24.3	25	1B	3 C						DE
PALE	30	2247	2312	2301	N14	W88	1.000	12322	24.3	25	1B	3 C						DE
MANI	30	2250E	2305D	2302	N12	W90	1.000	12322	24.2	15D	-N	2	2302	.21	.67			

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE APR	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
946 MANI	01	0509	0535	0517	N14	E53	.833 12298	5.2	26	-F	2	0517	.31	.54			3
951 TEHR	01	1053	1103	1055	N12	E55	.846 12298	5.6	10	-N	3	V		.17			DE 5
GRP47952	01	1200E	1240	1219	N14	W53	.833 12280	28.5	40	-F			.93				2 2 2 6
KHAR	01	1200E	1240D		N15	W52	.828 12280	28.6	40D	1F	P	1212	1.44	2.50	1.50		D
UPIO	01	1215E	1233D	1219	N13	W54	.840 12280	28.5	180	-F	P	1219	.42				D
953 UPIO	01	1215E	1233D		S06	E10	.173 12293	2.3	180	-F	P	1215	.85				D 6
962 TEHR	02	0410	0420	0413	N12	E40	.693 12298	5.2	10	-F	2	V		.74			DE 3
964 MANI	02	0645	0720	0654	N14	E39	.692 12298	5.2	35	-F	2		0654	.52	.73		3
965 MONT	02	0829	0835	0830	S06	W04	.070 12293	2.1	6	-F	C	0830	.21				9
GRP47966	02	0901	0911	0906	S15	E52	.784 12299	6.3	10	-F			.44				2 2 2 8
ATHN	02	0859	0907D	0904	S16	E52	.785 12299	6.3	80	-N	2	V		.66			DE
MONT	02	0903	0911	0907	S13	E51	.773 12299	6.2	8	-F	C	0907	.21				
968 MONT	02	0946	1021	0956	S04	W03	.068 12293	2.2	35	-F	C	0956	.21				8
971 CANR	02	1204	1227	1206	S05	W02	.043 12293	2.4	23	-N	V	1206	.40	.40			6
975 HUAN	02	1426E	1431U		S05	W03	.058 12293	2.4	50	-F	1	P					5
977 HUAN	02	1529	1529D		S05	W03	.058 12293	2.4		-F	1	P	1529	.41	.41		4
987 MANI	03	0211	0235	0215	N10	W80	.989 12280	28.1	24	-F	2		0215	.52	1.32		3
991 MANI	03	0406E	0411D	0407	S15	E78	.974 12300	9.0	50	-N	1		0407	.41	1.02		3
994 MANI	03	0525E	0540D	0526U	S05	W12	.208 12293	2.3	150	-N	1		0526	.83	.84		4
995 MANI	03	0603E	0618D	0604	S05	W12	.208 12293	2.4	150	-N	1		0604	.52	.52		5
GRP47997	03	0724	0729	0724	S05	W12	.208 12293	2.4	5	-B			.90				2 2 2 6
MANI	03	0722	0727	0723	S04	W11	.195 12293	2.5	5	-N	2		0723	.93	.94		
CATA	03	0725	0730	0725	S05	W12	.208 12293	2.4	5	-B	1		0725	.87	.88	(240)	
000 RAMY	03	1223E	1223D		S15	E68	.921 12300	8.6		-F	2	V					DE 5
001 RAMY	03	1243E	1300	1244U	S04	W18	.310 12293	2.2	170	-F	3	V		.93			DE F 5
002 ATHN	03	1246E	1304	1248	N13	E22	.489 12298	5.2	180	-N	3	V		.33			DE 5
005 CATA	03	1445	1455	1450	S06	W18	.307 12293	2.3	10	-N	3		1450	.29	.30	(182)	5
008 BOUL	03	1619E	1629D	1620	N15	E05	.375 12298	4.1	100	-F		V					4
009 PALE	03	1737E	1745	1740U	S11	E70	.935 12300	9.0	80	-F	5	V		.36			F 3
010 PALE	03	1750E	1753D	1751U	S06	W19	.324 12293	2.3	30	-F	5	V		1.13			DE 3
011 BOUL	03	1836E	1948	1855	S06	W19	.324 12293	2.4	720	1N		V					2
014 MANI	03	2221	2240D	2230	S07	W24	.404 12293	2.1	190	-F	1		2230	.31	.34		3
015 PALE	04	0030E	0044	0030U	S06	W26	.436 12293	2.1	140	-F	2	C		.27			F 4
021 UPIO	04	1159E	1223		S06	W35	.571 12293	1.9	240	-N		P	1208	1.49			D 8
031 MANI	05	0241	0249	0243	S13	E50	.762 12300	8.9	8	-N	2		0243	.52	.80		3
032 TEHR	05	0354E	0407	0354U	N12	W01	.315 12298	5.1	130	-N	2	V		.10			DE 5
034 MANI	05	0704	0710	0706	S13	E48	.740 12300	8.9	6	-N	2		0706	.41	.62		3
035 ARCE	05	0930E	0945D		S16	E47	.731 12300	8.9	150	-N		C	0940	.31	.50		8
036 CANR	05	1043E	1053	1045	N12	W05	.325 12298	5.1	100	-F		V		.40			5
043 MANI	06	0521	0540	0523	N14	W14	.416 12298	5.2	19	-N	2		0523	.62	.68		3
GRP48045	06	0832	0849	0835	S07	W64	.895 12293	1.6	17	-N			.29				2 2 2 8
CATA	06	0830	0850	0835	S07	W63	.887 12293	1.6	20	-N	3		0835	.17	.37	(158)	
CANR	06	0834	0848	0835	S07	W64	.895 12293	1.6	14	-N		V	0835	.40	.80		
046 KHAR	06	0921E	0928D	0922	S03	W63	.890 12293	1.7	70	-F		V			1.80		D 8

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMT PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1973 APR																	
GRP48047	06	1258	1405	1259	S08	W61	.870	12293	2.0	67	-F			.59				2 2 2 7
RAMY	06	1255E	1320D	1258U	S07	W60	.862	12293	2.0	25D	-F	4 V		.31				DE
CATA	06	1300	1405	1300	S08	W62	.879	12293	1.9	65	-N	3	1300	.87	1.82	(162)		
051 CANR	06	1735E	1800	1735E	S13	E48	.740	12306	10.3	25D	1F	V	1735	3.60	5.00			4
056 CAPS	07	1048	1105		S09	E16	.277	12300	8.6	17	-F	2 V	1051	.40	.40	(152)		8
057 CATA	07	1350	1420	1355	N18	W34	.661	12298	5.0	30	-F	3	1355	.58	.77	(138)		6
060 CANR	07	1735	1750	1740	S08	E46	.715	12306	11.2	15	-N	V		1.50				2
062 MANI	07	2245E	2259D	2245U	S03	W77	.973	12293	2.2	14D	-F	2	2245	.62	1.50			3
GRP48066	08	0257	0305	0301	S08	E03	.061	12300	8.3	8	-N			.36				1 1 1 3
PALE	08	0257	0304	0300	S08	E03	.061	12300	8.3	7	-N	2 C		.27				
PALE	08	0300E	0305	0301U	S09	E04	.085	12300	8.4	5D	-N	2 V		.36				DE
GRP48068	08	0343	0405	0354	S10	E39	.626	12306	11.1	22	-B			1.90				2 2 2 6
KODA	08	0255E	0404D		S08	E38	.612	12306	11.0	63D	1B	P	0359	2.87	2.90			E
MITK	08	0343	0402	0345	S11	E40	.640	12306	11.2	19	-N	C	0345	.93	1.20			D
MITK	08	0353	0405	0354	S11	E39	.627	12306	11.1	12	-N	C	0354	.93	1.20			D
073 ATHN	08	0603	0628	0608	S09	E36	.585	12306	11.0	25	-N	2 C		1.32				F 3
074 MANI	08	0633E	0646D	0633U	S06	E37	.599	12306	11.0	13D	-F	1	0633	.52	.64			4
075 MANI	08	0637E	0645	0639	S08	E01	.037	12300	8.4	8D	-N	1	0639	.52	.52			4
077 MANI	08	0803E	0809D	0803	S08	E00	.033	12300	8.3	6D	-F	1	0803	.31	.31			7
GRP48079	08	0843E	0850	0844	S05	W85	.995	12293	2.0	7	-N			.47				2 2 2 9
ARCE	08	0843E	0846D		S01	W88	.999	12293	1.8	3D	-N	P	0843	.31	1.50			
MANI	08	0843E	0850D	0844	S08	W81	.986	12293	2.3	7D	-N	1	0844	.62	1.63			
GRP48080	08	0924E	0940	0928	S02	W86	.997	12293	1.9	16	-N			1.02				2 2 2 9
KHAR	08	0924E	0942D	0925	N01	W86	.998	12293	1.9	18D	1N	P	0928	1.70		2.60		D
ATHN	08	0927E	0938	0930	S04	W86	.997	12293	1.9	11D	-N	3 V		.33				DE
082 RAMY	08	1117	1129	1118	S08	W03	.061	12300	8.2	12	-F	3 C		.28				DE 8
083 RAMY	08	1125	1138	1126	S03	W86	.997	12293	2.0	13	-N	2 C		.28				DE 8
084 CATA	08	1210	1215	1210	S08	W02	.048	12300	8.4	5	-N	3	1210	.29	.29	(191)		7
086 CATA	08	1315	1320	1315	S09	W02	.061	12300	8.4	5	-N	3	1315	.17	.17	(191)		6
087 BOUL	08	1347E	1352D	1349U	S05	E30	.498	12306	10.8	5D	-N	V						8
088 CATA	08	1400	1400D	1400	S09	W03	.072	12300	8.4		-N	3	1400	.29	.29	(158)		7
092 BOUL	08	1850	1912D	1857U	S02	E35	.576	12306	11.4	22D	-F	V						4
093 BOUL	08	1902	1915D	1906	S05	W90	1.000	12293	2.0	13D	-F	V						4
095 RAMY	08	2208E	2215D	2210U	S08	W07	.125	12300	8.4	7D	-N	1 V		.52				DE 3
099 PALE	08	2333E	2345D	2334U	S08	W07	.125	12300	8.5	12D	-N	2 V		.26				DE 4
101 PALE	09	0045E	0047D	0045U	S04	W90	1.000	12293	2.3	2D	-N	2 V		.21				4
102 PALE	09	0045E	0055D	0055	S09	E29	.483	12306	11.2	10D	-N	2 C		.63				F 5
104 PALE	09	0353E	0354D	0353U	S09	W09	.163	12300	8.5	1D	-F	2 V		.52				F 4
106 ATHN	09	0459	0513D	0502	S10	W11	.201	12300	8.4	14D	-F	1 C		.33				DE 4
107 ATHN	09	0526E	0536	0528	S09	E25	.422	12306	11.1	10D	-N	3 V		.66				F 4
114 BOUL	09	1535E	1540	1535	S07	E20	.340	12306	11.1	5D	-N	V						3
126 BOUL	09	2341E	2350D	2342	S08	E13	.226	12306	11.0	9D	-F	V	2345	.40	.40			4
127 BOUL	09	2359E	0007	0000U	S08	E13	.226	12306	11.0	8D	-N	V	0005	.40	.40			5
GRP48130	10	0731	0746	0738	S08	E13	.226	12306	11.3	15	-F			.50				2 2 1 6
ISTA	10	0731	0746		S08	E13	.226	12306	11.3	15	-F							
TEHR	10	0734E	0745	0738	S07	E12	.207	12306	11.2	11D	-N	3 V		.50				F

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	DATE 1973 APR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
139 BOUL	11	0003E	0026D	0010	S06	W10	.173	12306	10.3	23D	-B	V						2
145 MANI	11	0353	0411D	0359	S07	W38	.612	12300	8.3	18D	-N	2	0359	.72	.92			3
150 KHAR	11	1053E	1120D		S10	W05	.112	12306	11.1	27D	1F	P	1057	2.84	2.80	1.80		EH 6
153 CATA	11	1520E	1535	1525	S15	W37	.608	12300	8.9	15D	-F	3	1525	.29	.36		(148)	4
165 BOUL	12	1504E	1515D	1507	S06	W23	.389	12306	10.9	11D	-F	V	1507		1.00			3
174 ATHN	13	0541	0548	0542	S08	W66	.910	12300	8.3	7	-F	2	C	.33				DE 6
177 TEHR	13	1201E	1208	1203	S08	W32	.528	12306	11.1	7D	-F	3	V	.33				F 6
178 MCMA	13	1326	1342	1330	S08	W34	.557	12306	11.0	16	-N	C	1330	.52	.60			EH 4
181 PALE	13	1651	1659	1653	S08	W35	.571	12306	11.1	8	-F	2	V	.46				F 4
GRP48189	13	2252E	2314	2256	S08	W39	.626	12306	11.0	22	-F			.41				2 2 1 6
BOUL	13	2252E	2302D	2255	S07	W38	.613	12306	11.1	10D	-F	V	2255		.50			
MANI	13	2252E	2314D	2257U	S08	W40	.640	12306	11.0	22D	-F	2	2257	.41	.54			
190 VORO	14	0110	0153	0117	S12	W42	.668	12306	10.9	43	1N	C	0117	1.57	2.06		64	EJL 3
191 MANI	14	0311E	0313D	0313U	S08	W41	.653	12306	11.1	2D	-N	2	0313	.83	1.10			4
192 ATHN	14	0455	0514	0459	S09	W43	.679	12306	11.0	19	-F	1	C	.33				DE 6
193 ATHN	14	0544E	0613	0544U	S07	W47	.728	12306	10.7	29D	-F	1	C	.50				F 5
194 ATHN	14	0625	0637	0628	S08	W44	.691	12306	11.0	12	-N	3	C	.83				F 6
197 RAMY	14	1158E	1210D	1158U	S09	W46	.716	12306	11.0	12D	-F	3	V	.23				DE 4
199 RAMY	14	1320	1339	1323U	S12	W80	.982	12300	8.6	19	-F	4	V	.37				DE 6
GRP48201	14	1640E	1648	1640	S10	W48	.740	12306	11.1	8	-F			.31				2 2 1 5
RAMY	14	1640E	1646	1640U	S11	W45	.705	12306	11.3	6D	-F	3	V	.31				DE
HUAN	14	1640E	1649		S09	W51	.773	12306	10.9	9D	-F	1	P					C
202 PALE	14	1750	1756	1751	S08	W52	.784	12306	10.8	6	-N	3	V	.21				4
218 MONT	16	1203	1208	1205	S08	W76	.968	12306	10.8	5	-N	C	1205	.21				D 7
219 MCMA	16	1309E	1313D		S10	W77	.971	12306	10.8	4D	-N	P	1309	.31	1.00			D 8
225 MANI	18	0439E	0455	0439U	N11	E84	.996	12322	24.5	16D	-N	2	0439	.62	1.73			4
227 HUAN	18	1417U	1427	1423	N10	E77	.979	12322	24.4	13D	-F	1	C	.15				DT 5
229 HUAN	18	1504U	1521D		N10	E77	.979	12322	24.4	17D	-F	1	P					D 6
233 MANI	19	0002	0004D	0003	N11	E68	.937	12322	24.1	2D	-N	2	0003	.31	.65			3
234 MANI	19	0126E	0133D	0126U	N11	E69	.943	12322	24.2	7D	-N	2	0126	.62	1.33			4
235 MANI	19	0143E	0150	0144	N14	E71	.956	12322	24.4	7D	-N	2	0144	.31	.70			4
242 HUAN	19	1330	1336		N11	E64	.912	12322	24.4	6	-F	1	C	.15	.35			D 5
247 MANI	20	0209	0225	0214U	N12	E57	.859	12322	24.4	16	-N	2	0214	.41	.75			3
249 MANI	21	0052E	0105	0052U	N13	E42	.713	12322	24.2	13D	-N	1	0052	.41	.60			4
254 CAPS	21	1512	1522		N10	E38	.653	12322	24.5	10	-F	2	V	.70	1.10		(149)	5
261 MANI	22	0205E	0218D	0218U	N13	E31	.583	12322	24.4	13D	-N	2	0218	.52	.64			3
263 ARCE	22	0800E	0850D		N12	E24	.490	12322	24.1	50D	-N	C	0800	.57	.60			6
265 TEHR	22	1227E	1239	1227U	N13	E25	.510	12322	24.4	12D	-F	3	V	.17				DE 4
266 BOUL	22	1325	1343D	1329U	S03	E89	1.000	12323	29.2	18D	-N	V						7
269 BOUL	22	1741	1752	1744	N14	E24	.507	12322	24.5	11	-N	V						3
273 BOUL	22	2048	2059	2049	S00	E87	.999	12323	29.4	11	-N	V	2050	.40	1.50			2
274 BOUL	22	2135	2148D	2138	S03	E85	.996	12323	29.3	13D	-F	V	2140	.30	1.10			3

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Apr 73SOLAR FLARES
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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1973 APR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
GRP48277	22	2303	2313	2304	S03	E86	.997	12323	29.4	10	-N				.31				2 2 2 4
MANI	22	2302E	2310	2305	S03	E87	.998	12323	29.5	80	-N	1		2305	.41	1.24			
BOUL	22	2303	2315D	2303	S03	E85	.996	12323	29.3	120	-N		V	2310	.20	.75			
GRP48280	23	0351	0404	0353	S04	E79	.981	12323	29.1	13	-N				.47				2 2 2 6
MANI	23	0351	0402	0353	S04	E79	.981	12323	29.1	11	-N	2		0353	.52	1.30			
TEHR	23	0352E	0405	0352	S03	E79	.981	12323	29.1	130	-N	3	C		.41				F
282 MANI	23	0754E	0803	0754U	S08	E76	.968	12323	29.0	90	-N	1		0754	.31	.73			9
283 MANI	23	0754E	0806	0755U	S15	W25	.447	12321	21.5	120	-N	1		0755	.41	.46			10
284 MANI	23	0925E	0930	0925U	S15	W26	.461	12321	21.4	50	-N	1		0925	.31	.34			8
285 CATA	23	1225E	1235	1230	N14	E12	.381	12322	24.4	100	-N	3		1230	.29	.31	(155)		7
302 MANI	25	0401	0430	0407	S15	W53	.799	12321	21.2	29	-F	2		0407	.52	.83			7
GRP48304	25	0455	0535	0511	N15	W11	.384	12322	24.4	40	-F				.59				2 2 2 6
MANI	25	0455	0540	0507	N14	W11	.370	12322	24.4	45	-F	2		0507	.52	.56			
ATHN	25	0513E	0530	0514	N15	W11	.384	12322	24.4	170	-N	2	V		.66				F
305 MANI	25	0720	0730	0721U	S07	E55	.816	12323	29.4	10	-F	2		0721	.31	.52			6
GRP48307	25	0817	0831	0821	N13	W16	.404	12322	24.1	14	-F				.31				2 2 2 9
CRON	25	0816E	0826		N12	W13	.361	12322	24.4	100	-F		V		.40				
MANI	25	0817	0835	0821	N13	W19	.437	12322	23.9	18	-F	2		0821	.21	.23			
309 MANI	25	0940E	0950D	0942U	S03	E50	.765	12323	29.2	100	-N	1		0942	.31	.48			7
310 MANI	25	0942E	0950D	0942U	S03	E41	.655	12323	28.5	80	-N	1		0942	.31	.41			7
311 TEHR	25	1040E	1048D	1042U	N13	W14	.384	12322	24.4	80	-N	3	V		.41				F 5
315 RAMY	25	1510E	1520D	1514U	N14	W17	.426	12322	24.4	100	-N	4	V		.33				DE 6
322 CRON	26	0224E	0233		S03	E42	.668	12323	29.3	90	-F		V		.70				3
326 HUAN	26	1339	1347	1340	S09	E26	.441	12323	28.5	8	-F	2	C	1340	.41	.46			E 6
331 MANI	26	2248E	2259	2250	S00	E26	.444	12323	28.9	110	-N	1		2250	.21	.23			3
336 CAPS	27	0821	0835		S08	E14	.247	12323	28.4	14	-N	4	V	0826	.40	.40	(190)	C	11
GRP48341	27	1520	1600	1523	S06	E09	.158	12323	28.3	40	-F				.52				2 1 1 6
RAMY	27	1520E	1600D	1523U	S06	E09	.158	12323	28.3	400	-F	4	V		.52				DE
CAPS	27	1545	1600		S07	E13	.228	12323	28.6	15	-N	3	S	1546	.80	.80	(170)		
342 PALE	27	2328E	2343	2332	S06	E10	.175	12323	28.7	150	-F	2	C		.36				F 5
344 MANI	28	0431E	0441D	0431U	S04	E01	.019	12323	28.3	100	-F	2		0431	.41	.41			7
345 MANI	28	0535E	0602D	0537U	S08	E05	.106	12323	28.6	270	-F	2		0537	.72	.73			5
GRP48347	28	0750	0809	0755	N13	W52	.814	12322	24.4	19	-N				.41				2 2 2 6
UPIG	28	0750	0809D	0755	N13	W51	.805	12322	24.5	190	-F		P	0755	.42				
CANR	28	0751E	0755D		N12	W53	.821	12322	24.4	40	-B		V	0751	.40	.60			
348 MONT	28	0816	0827	0818	N01	E08	.168	12323	28.9	11	-N		C	0818	.21				E 7
350 RAMY	28	1106	1126	1109	S15	E09	.238	12323	29.1	20	-F	3	C		.28				DE 5
352 RAMY	28	1408E	1420	1409U	N13	W54	.833	12322	24.5	120	-F	3	V		.67				DE 5
358 BOUL	28	2103E	2106D	2103	N13	W58	.868	12322	24.5	30	-F		V	2103		.75			4
360 MANI	28	2345	2353	2346	N15	W63	.909	12322	24.3	8	-N	2		2346	.72	1.42			4
364 MANI	29	0601	0607D	0603	N13	W66	.926	12322	24.3	60	-F	2		0603	.31	.63			5
367 RAMY	29	1044E	1050D		S00	W03	.093	12323	29.2	60	-F	3	V						DE 8
GRP48368	29	1325	1340	1327	S01	W07	.135	12323	29.0	15	-N				.80				2 2 2 7
RAMY	29	1325	1340D	1329	S00	W06	.129	12323	29.1	150	-N	4	V		.72				U
CATA	29	1325	1330D	1325	S01	W08	.151	12323	29.0	50	-N	3		1325	.87	.87	(195)		
369 MCMA	29	1335E	1415		N12	W72	.958	12322	24.2	400	-N		C	1337					BE 7
376 MANI	30	0150E	0216	0154	S02	W19	.327	12323	28.7	260	-F	2		0154	.41	.44			3
378 TEHR	30	0459	0505	0459	N12	W74	.967	12322	24.7	6	-N	3	C		.19				DE 5

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SOLAR FLARES

Unconfirmed

APRIL 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCARTH. FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH HG	MAX. INT. %	
381 MONT	30	0956	1005	0958	S11	E87	.998	12336	6.9	9	-N	C	0958	.21				9
GRP48382	30	1043E	1103	1048	N13	W83	.995	12322	24.2	20	-N			.21				2 2 1 9
MONT	30	1043E	1054	1049	N13	W82	.993	12322	24.3	110	-N	C	1049	.21				F
ATHN	30	1046E	1112	1046U	N12	W84	.996	12322	24.1	260	-N	3 V						
383 UPIO	30	1045	1057U		S13	E56	.828	12339	4.6	120	-F	P		.42				9
GRP48384	30	1107	1125	1111	S11	E88	.999	12336	7.1	13	-N			.32				2 2 2 8
MONT	30	1102	1116	1111	S11	E86	.997	12336	6.9	14	-N	C	1111	.21				
UPIO	30	1111	1134		S10	E90	1.000	12336	7.2	23	1N	P		.42				
385 UPIO	30	1247	1303		N11	W87	.999	12322	24.0	16	1N	P		.42				7
GRP48386	30	1332	1344	(1334)	N10	W86	.998	12322	24.1	12	-B			.63				2 2 1 6
UPIO	30	1330	1345		N08	W86	.998	12322	24.1	15	1B	P	1334	.63				
WEND	30	1334	1343		N12	W85	.998	12322	24.2	9	-N							
GRP48387	30	1533	1545	1536	S14	E90	1.000	12336	7.4	12	-N							1 1 0 5
RAMY	30	1533	1543	1536	S14	E90	1.000	12336	7.4	10	-N	4 C						
RAMY	30	1535E	1545D	1538	S15	E90	1.000	12336	7.4	100	-N	4 V						DE
390 RAMY	30	1748E	1800	1750U	S14	E87	.998	12336	7.3	120	-N	4 V		.19				DE 3
393 MANI	30	2250E	2305D	2255	S14	E86	.996	12336	7.4	150	-F	2	2255	.21	.60			3
394 PALE	30	2322	2323D		S07	W30	.500	12323	28.7	10	-N	3 V						F 3

"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 = Place 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 D₂ 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 (H 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.

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
45 730401	235.89	23.2	45 730411	87.53	24.0	45 730421	7.65	23.4
45 730402	58.52	23.4	45 730412	24.40	23.2	45 730422	27.57	24.0
45 730403	20.64	23.4	45 730413	8.79	24.0	45 730423	1.17	24.0
45 730404	21.91	23.4	45 730414	19.65	24.0	45 730424	18.15	24.0
45 730405	4.47	23.8	45 730415	3.48	22.9	45 730425	43.99	23.6
45 730406	7.45	22.9	45 730416	2.73	22.4	45 730426	34.91	24.0
45 730407	23.58	21.3	45 730417	0.38	24.0	45 730427	17.16	23.6
45 730408	64.73	24.0	45 730418	2.31	23.3	45 730428	21.00	24.0
45 730409	22.47	22.5	45 730419	5.33	23.2	45 730429	71.99	23.9
45 730410	215.55	22.5	45 730420	0.00	20.0	45 730430	149.97	23.4

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