SOLAR FLARES
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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38405	01	0307	0332	0312	N09	W44	.706	11338	28.8	25	--F				.61				2 2 2 4
MANI	01	0306E	0319	0308	N10	W42	.684	11338	29.0	130	-F	1		0308	.41	.56			
PALE	01	0308	0345D	0315	N08	W46	.727	11338	28.7	370	-F	2	C		.81				F
GRP38406	01	0510	0525	0510	N13	W38	.644	11338	29.4	15	--N				.58				2 2 1 4
CATA	01	0510E	0525D	0510	N14	W39	.660	11338	29.3	150	-B		P	0510	.58	.78		240	
CRON	01	0512E	0516D		N12	W37	.627	11338	29.4	40	-F	2	V						
412 HUAN	01	1823	1835	1827	N06	E63	.893	11351	6.5	12	--N	1	C	1827	.21	.44			D 3
413 HUAN	01	1845	1858	1849	N03	E66	.914	11352	6.7	13	--N	1	C	1849	.25				D 3
GRP38414	01	1959	2009	2002	N01	E69	.934	11352	7.0	10	--F				.30				2 2 1 3
HUAN	01	1957	2010	2002U	N01	E69	.934	11352	7.0	13	-N	1	P	2002	.30				D
LOCK	01	2000	2007	2002	S00	E68	.927	11352	6.9	7	-F		C						
GRP38417	02	1341	1411	1347	N11	W50	.777	11338	29.8	30	--F				.88				4 4 4 7
RAMY	02	1341	1414	1343	N10	W51	.786	11338	29.7	33	-F	3	C		.65				F
CAPS	02	1342E	1413D		N11	W45	.722	11338	30.2	310	-F	2	V	1349	1.20	1.70			
MEUD	02	1344E	1346D		N10	W51	.786	11338	29.7	20	-F			1344	.52	.80			CE
CATA	02	1350E	1405	1350	N12	W52	.800	11338	29.7	150	-N		P	1350	1.16	1.93		178	
GRP38420	02	2103	2140	2113	N04	E46	.722	11351	6.3	37	--N				.28				2 2 1 4
HUAN	02	2048	2140D	2108	N03	E45	.709	11351	6.2	520	-N	2	P	2108	.21	.29			D
RAMY	02	2101E	2115D	U	N04	E45	.710	11351	6.3	140	-N	1	C						D
HUAN	02	2104	2140D	2113	N03	E47	.733	11351	6.4	360	-N	1	P	2113	.28	.41			D
	02	2356	0001	NO FLARE PATROL															
GRP38426	03	1632	1640	1635	N07	E36	.597	11351	6.4	8	--F				.16				2 2 2 5
PALE	03	1631	1640	1635	N07	E35	.584	11351	6.3	9	-F	2	C		.19				F
HUAN	03	1632	1640	1635	N06	E36	.595	11351	6.4	8	-F	1	C	1635	.12	.15			E
GRP38427	03	1821	1902	1828	S02	E49	.755	11352	7.4	41	1N				1.91				6 6 5 6
PALE	03	1723	1937	1733	S02	E50	.766	11352	7.5	134	-F	2	C		.27				F
BOUL	03	1820	1845	1829	S03	E55	.819	11352	7.9	25	-N	1	C	1829	.75	1.31			
RAMY	03	1820	1907	1825	S01	E48	.743	11352	7.4	47	1N	2	C		3.06				UF
LOCK	03	1822	1910	1830	S02	E47	.732	11352	7.3	48	1N		C						
HUAN	03	1822	1832D	1827U	S03	E47	.732	11352	7.3	100	1N	1	P	1827	2.04	3.05			E
MCMA	03	1823	1914	1829	S02	E47	.732	11352	7.3	51	1B		C	1829	1.55	2.30			E
PALE	03	1828E	1854	1828	S03	E50	.766	11352	7.5	260	1N	1	C		2.17				F
GRP38428	03	1954	2005	1956	S04	E45	.708	11352	7.2	11	--F				.30				2 2 2 3
HUAN	03	1953	2005	1956	S05	E45	.709	11352	7.2	12	-N	1	C	1956	.18	.25			D
MCMA	03	1954	2005	1956	S03	E45	.708	11352	7.2	11	-F		C	1956	.41	.60			E
431 CULG	03	2218E	2232	2225	N08	W79	.982	11338	29.0	140	1F		P	2225	.62				3
	03	2350	0000	NO FLARE PATROL															
GRP38432	04	0302	0317	0307	S05	E41	.659	11352	7.2	15	--N				.27				2 2 2 3
CRON	04	0300	0320	0309	S06	E40	.647	11352	7.1	20	-N	2	C	0309	.22	.28			
MANI	04	0303	0314	0305	S04	E41	.658	11352	7.2	11	-N	2		0305	.31	.42			
GRP38434	04	0845	0858	0847	N08	E26	.457	11351	6.3	13	--N				.85				3 3 2 12
CRON	04	0843E	0859	0848	N09	E25	.448	11351	6.2	160	-N	3	V						
CATA	04	0845	0850D	0845	N07	E26	.453	11351	6.3	50	-B		P	0845	.69	.78		218	
CAPS	04	0846	0856		N07	E26	.453	11351	6.3	10	-F	1	V	0848	1.00	1.10		152	
GRP38437	04	1657	1723	1705	S04	E37	.604	11352	7.5	26	--F				.16				2 2 2 5
HUAN	04	1657	1707D	1702	S04	E37	.604	11352	7.5	100	-N	1	P	1702	.12	.15			D
PALE	04	1657	1723D	1708	S04	E36	.590	11352	7.4	260	-F	2	C		.19				
GRP38444	06	1050	1151	1100	N09	W53	.804	11344	2.5	61	-F				.70				2 2 2 3
ATHN	06	1050	1151	1057	N10	W53	.806	11344	2.5	61	-N	3	C		.83				UD
RAMY	06	1102E	1121D	1102	N07	W53	.802	11344	2.5	190	-F	2	C		.56				D
GRP38449	07	1308	1335	1314	S07	E15	.285	11358	8.7	27	--F				.35				4 4 3 7
BOUL	07	1306	1327	1311	S08	E15	.292	11358	8.7	21	-F	3	V						
HUAN	07	1306	1346D	1329	S07	E16	.300	11358	8.7	400	-N	1	P	1329	.35	.36			E
ATHN	07	1308	1327	1312	S06	E15	.278	11358	8.7	19	-F	2	C		.33				D
HUAN	07	1308	1343	1319	S05	E13	.241	11358	8.5	35	-N	1	P	1319	.30	.31			D
MCMA	07	1309	1342	1314	S06	E15	.278	11358	8.7	33	-N		C	1314	.41	.40			E

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38450	07	1501	1517	1503	S08	E14	.277	11358	8.7	16	--N				.69				6 6 4 8
BOUL	07	1500	1516	1502	S07	E13	.255	11358	8.6	16	-F	1	C	1502	.65	.65			
MCMA	07	1501	1515	1503	S06	E15	.278	11358	8.8	14	-B		C	1503	.41	.40			EL
TEHR	07	1501	1515	1503	S07	E12	.240	11358	8.5	14	-N	3	C						F
ATHN	07	1501	1514	1504	S07	E13	.255	11358	8.6	13	-N	3	C		1.16				D
HUAN	07	1501	1521	1504	S07	E13	.255	11358	8.6	20	-N	2	C	1504	.53	.55			E
CANR	07	1502	1518		S16	E15	.372	11358	8.8	16	-N	2	V			.90			
GRP38451	07	1825	1835	1826	N08	W70	.941	11344	2.5	10	--N				.30				3 3 3 5
RAMY	07	1823	1833	1824	N08	W70	.941	11344	2.5	10	-N	2	C		.28				D
BOUL	07	1824U	1837	1827U	N10	W68	.929	11344	2.7	13D	-F	1	C	1827	.32	.32			
MCMA	07	1827	1836	1828	N07	W72	.952	11344	2.4	9	-N		C	1828	.31	1.00			E
GRP38453	07	2051	2225	2104	N02	W21	.360	11351	6.3	94	--F				.47				4 3 3 6
PALE	07	2051	2225	2103	N02	W21	.360	11351	6.3	94	-N	3	C		.81				F
LOCK	07	2053	2215	2130	N02	W21	.360	11351	6.3	82	-N		C						
BOUL	07	2056U	2113D	2100U	N02	W19	.327	11351	6.4	17D	-F	1	C	2100	.22	.23			
RAMY	07	2110E	2110D	2110	N03	W22	.378	11351	6.2		-F	1	C		.37				D
GRP38455	08	0018	0041	0025	S08	E03	.151	11358	8.2	23	--F				.31				3 2 1 7
PALE	08	0008	0029	0010	S06	E03	.119	11358	8.2	21	-F	3	C		.63				F
LOCK	08	0017	0040	0025	S07	E03	.135	11358	8.2	23	-F		C						
MANI	08	0018	0042	0024	S08	E03	.151	11358	8.2	24	-F	2		0024	.31	.31			
458 ABST	08	0948E	1004D	0949	N15	W25	.482	11369	6.5	16D	-N		P	0949	.90	1.00		62	D 4
461 HUAN	08	1829	1837	1833	N15	W30	.547	11369	6.5	8	--N	1	C	1833	.23	.27			E 2
464 PALE	08	2311	2321	2315	N07	W40	.649	11351	6.0	10	--F	3	C		.55				F 3
	09	2358	0002	NO FLARE PATROL															
	10	0034	0049	NO FLARE PATROL															
475 PALE	10	2339	2354	2344	N16	W58	.859	11369	6.6	15	--F	1	C		.45				F 2
484 PALE	12	0217	0226	0223	S03	W71	.946	11352	6.8	9	--F	2	C		.36				3
GRP38485	12	0236	0249	0239	S03	W71	.946	11352	6.8	13	-B				.69				2 2 2 3
PALE	12	0235	0248	0238	S03	W72	.951	11352	6.7	13	-N	2	C		.55				
CULG	12	0236	0249	0239	S03	W70	.940	11352	6.9	13	1B		C	0239	.83				
GRP38490	12	0918	0932	0924	S07	W51	.782	11358	8.6	14	--F				.33				3 3 1 7
ISTA	12	0910	0920		S07	W51	.782	11358	8.6	10	-F								E
ATHN	12	0919	0942	0924	S07	W52	.793	11358	8.5	23	-F	3	C		.33				D
CANR	12	0925	0935		S07	W50	.771	11358	8.6	10	-F	2	V			.40			
GRP38494	12	1811	1833	1820	S15	W80	.986	11367	6.8	22	--F				.36				2 2 1 5
PALE	12	1810	1825D	1823	S16	W81	.989	11367	6.7	15D	-N	2	C		.36				
RAMY	12	1811	1833	1816	S13	W78	.980	11367	6.9	22	-F	1	C						D
	12	2350	2353	NO FLARE PATROL															
	12	2400	0002	NO FLARE PATROL															
GRP38496	13	0453	0519	0505	N16	W90	1.000	11369	6.5	26	-F				.68				2 2 2 6
ABST	13	0453	0517	0505	N18	W90	1.000	11369	6.5	24	1F		C	0505	.90			71	ADG
CATA	13	0500E	0520	0505	N14	W90	1.000	11369	6.5	20D	-F		P	0505	.46			148	
503 HUAN	13	1957	2032	2010	N13	W63	.895	11373	9.1	35	--N	2	C	2010	.30	.66			D 3
GRP38517	14	1515	1528	1519	N14	W76	.971	11373	8.9	13	--F				.22				3 3 3 12
HUAN	14	1513	1525	1519	N15	W77	.975	11373	8.9	12	-N	1	C	1519	.18				D
RAMY	14	1515E	1528	1517	N13	W77	.975	11373	8.9	13D	-F	2	C		.31				D
ATHN	14	1518	1532	1521	N14	W75	.967	11373	9.0	14	-F	3	C		.17				D
GRP38518	14	1611	1626	1615	N14	W75	.967	11373	9.0	15	--F				.27				3 3 2 10
HUAN	14	1609	1619	1615	N15	W77	.975	11373	8.9	10	-F	1	C	1615	.25				D
BOUL	14	1610	1629	1616	N15	W74	.963	11373	9.1	19	-F	2	V						
CATA	14	1615	1630	1615	N13	W75	.967	11373	9.1	15	-N		C	1615	.29			170	
GRP38519	14	1707	1732	1712	S08	E80	.985	11375	20.7	25	-N				.45				6 6 5 7
BOUL	14	1705	1733	1711	S08	E78	.979	11375	20.6	28	-F	1	C	1711	.32				
CANR	14	1705	1734	1705U	S07	E78	.979	11375	20.6	29	-F	2	C	1705	.32				
HUAN	14	1706	1735	1715	S09	E84	.995	11375	21.0	29	-B	1	C	1715	.56				D
PALE	14	1707	1729	1713	S09	E79	.983	11375	20.6	22	-N	3	C		.55				F
LOCK	14	1707	1730	1713	S08	E78	.979	11375	20.6	23	-N		C						
ATHN	14	1709	1715D	1712	S09	E80	.986	11375	20.7	6D	-N	3	C		.50				D

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
521 ATHN	15	0331	0353	0335	N12	W83	.992	11373	8.9	22	-N	2	C		.50				D 3
GRP38522	15	0534	0545	0536	N13	W85	.996	11373	8.9	11	--F				.31				2 2 2 4
ATHN	15	0533	0545	0536	N12	W83	.992	11373	9.0	12	-F	3	C		.33				D
CATA	15	0535	0545D	0535	N14	W87	.998	11373	8.7	10D	-N		P	0535	.29			162	
4 STATIONS REPORTING GROUP 38524. 4 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38524	15	0650	0751	0721	N13	W85	.996	11373	8.9	61	--N				.27				2 2 2 7
ATHN	15	0650	0753	0721	N12	W85	.996	11373	8.9	63	-N	3	C		.33				D
ATHN	15	0650	0753	0657	N12	W85	.996	11373	8.9	63	-F	3	C		.17				
MONT	15	0714	0748	0721	N14	W85	.996	11373	8.9	34	-N		C	0721	.21				
38524	15	0730	0748	0740	N14	W89	1.000	11373	8.6	18	*-F				.34				2 2 1 9
ISTA	15	0730	0745		N13	W90	1.000	11373	8.6	15	-F								
CATA	15	0740E	0750	0740	N14	W88	.999	11373	8.7	10D	-N		P	0740	.34			162	
GRP38527	15	1049	1104	1054	N15	W88	.999	11373	8.9	15	-N				.37				3 3 2 6
MONT	15	1048	1101	1052	N14	W86	.997	11373	9.0	13	-N		C	1052	.21				
TEHR	15	1049	1105	1055	N14	W88	.999	11373	8.9	16	-N	2	C						D
CATA	15	1050	1105	1055	N16	W90	1.000	11373	8.7	15	-N		C	1055	.52			159	
	16	0015	0205	NO FLARE PATROL															
	16	0219	0253	NO FLARE PATROL															
	16	2212	2314	NO FLARE PATROL															
	16	2318	2323	NO FLARE PATROL															
532 LOCK	17	0017	0040	0022	S06	W01	.127	11377	16.9	23	--F		C						2
	17	0158	0200	NO FLARE PATROL															
GRP38535	17	0927	1001	0931	S08	E43	.693	11375	20.6	34	-N				.83				5 5 5 7
ABST	17	0925E	1001D	0928	S08	E44	.705	11375	20.7	36D	1N		P	0929	1.80	2.50		59	EZ
ARCE	17	0925	1001D	0932	S08	E44	.705	11375	20.7	36D	-F		C	0932	.66	.90			
TEHR	17	0926	0955	0928	S08	E44	.705	11375	20.7	29	-N	3	C		.45				F
CATA	17	0930	1000	0935	S08	E43	.693	11375	20.6	30	-N		C	0935	.63	.90		178	
CAPS	17	0930E	1007D		S07	E40	.653	11375	20.4	37D	-F	1	S	0932	.60	.80		142	C
GRP38536	17	1335	1344	1339	S06	E61	.877	11375	22.1	9	--N				.20				3 3 3 11
HUAN	17	1335	1341	1338	S05	E62	.885	11375	22.2	6	-N	2	C	1338	.18	.36			D
ATHN	17	1335	1349	1340	S08	E61	.879	11375	22.1	14	-F	3	C		.33				D
TEHR	17	1336E	1343	1338	S04	E61	.876	11375	22.1	7D	-N	2	C		.09				DR
GRP38537	17	1444	1458	1450	S07	E03	.152	11377	17.8	14	--F				.41				4 4 3 12
BOUL	17	1437	1500	1452	S05	E03	.120	11377	17.8	23	-F	3	V						
RAMY	17	1446	1458	1450	S07	E04	.159	11377	17.9	12	-F	2	C		.57				D
HUAN	17	1446	1455	1449	S07	E03	.152	11377	17.8	9	-N	2	C	1449	.35	.35			E
MCMA	17	1448	1458	1449	S07	E03	.152	11377	17.8	10	-F		C	1449	.31	.30			E
GRP38539	17	1723	1752	1730	S07	E01	.144	11377	17.8	29	--F				.48				2 2 2 5
HUAN	17	1720	1740	1728	S07	E01	.144	11377	17.8	20	-N	1	C	1728	.23	.23			D
PALE	17	1725	1804	1731	S06	E01	.127	11377	17.8	39	-F	3	C		.72				F
GRP38541	17	1933	1944	1938	S09	E38	.632	11375	20.7	11	--F				.63				2 2 1 5
PALE	17	1932E	1941	1938	S08	E38	.629	11375	20.7	9D	-N	3	C		.63				F
LOCK	17	1933	1947	1938	S09	E38	.632	11375	20.7	14	-F		C						
GRP38545	18	0722	0749	0730	S20	W63	.908	11374	13.6	27	-N				.72				2 2 2 5
TEHR	18	0719	0757	0730	S20	W63	.908	11374	13.6	38	-N	4	C		.45				DS
ATHN	18	0725	0740	0730	S20	W62	.901	11374	13.7	15	-N	3	C		.99				FH
GRP38551	18	1503	1523	1505	S13	E44	.719	11375	21.9	20	--F				.84				2 1 1 6
RAMY	18	1503E	1523	1505	S13	E44	.719	11375	21.9	20D	-F	2	C		.84				D
HUAN	18	1503	1513	1507	S15	E33	.595	11375	21.1	10	-F	1	C	1507	.21	.25			D
GRP38552	18	1504	1516	1507	N10	E89	1.000	11383	25.3	12	--N				.15				2 2 2 6
HUAN	18	1503	1515	1507	N10	E89	1.000	11383	25.3	12	-N	1	C	1507	.12				D
ATHN	18	1505	1517	1507	N09	E88	.999	11383	25.2	12	-N	3	C		.17				D
GRP38553	18	1803	1814	1805	N11	E84	.994	11383	25.1	11	--N				.21				4 4 1 6
RAMY	18	1758	1809	1800	N14	E82	.990	11383	24.9	11	-N	2	C						D
BOUL	18	1803	1815	1806	N10	E85	.996	11383	25.1	12	-F	2	V						
HUAN	18	1804	1822	1808U	N10	E86	.997	11383	25.2	18	-N	1	P	1808	.21				D
MCMA	18	1805	1810	1807	N11	E83	.992	11383	25.0	5	-N		C	1807					D

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP38556	18	2228	2237	2230	N11	E78	.978	11383	24.8	9	--N				.29				2 2 2 4
PALE	18	2228	2238	2230	N11	E78	.978	11383	24.8	10	-N	1	C		.27				F
MANI	18	2228E	2235	2230	N10	E78	.978	11383	24.8	7D	-N	2		2230	.31	.77			
GRP38558	19	0905	0929	0911	N11	W73	.956	11380	13.9	24	-N				.45				8 8 7 11
CRON	19	0900	0926	0908	N11	W74	.961	11380	13.8	26	-N	2	C	0908	.22				
CAPE	19	0902	0940	0913	N11	W73	.956	11380	13.9	38	-F		C	0913	.92				
CANR	19	0903	0920	0907U	N11	W72	.951	11380	14.0	17	-F	2	C	0907	.11				
ATHN	19	0904	0936	0909	N12	W70	.941	11380	14.1	32	-N	3	C		.33				D
MONT	19	0907	0928	0911	N11	W74	.961	11380	13.8	21	-N		C	0911	.72				
TEHR	19	0907E	0925	0909	N11	W75	.966	11380	13.8	18D	-N	3	C						D
CATA	19	0910	0930	0915	N10	W74	.961	11380	13.8	20	-B		C	0915	.52			245	
ARCE	19	0910	0925D	0913	N11	W75	.966	11380	13.8	15D	-N		C	0913	.35	.90			
GRP38559	19	1006	1012	1009	N09	E72	.951	11383	24.8	6	--N				.19				4 4 2 6
ATHN	19	1005	1014	1009	N08	E70	.940	11383	24.7	9	-N	3	C		.17				D
CANR	19	1006	1011		N09	E73	.956	11383	24.9	5	-N	3	V			.40			
MONT	19	1007	1011	1009	N10	E76	.970	11383	25.1	4	-N		C	1009	.21				
TEHR	19	1008E	1011	U	N09	E70	.940	11383	24.7	3D	-F	3	C						D
GRP38563	20	0738	0748	0740	N11	E61	.877	11383	24.9	10	--N				.32				7 7 7 8
CATA	20	0735	0745D	0740	N12	E60	.869	11383	24.8	10D	-B		P	0740	.23	.46		269	
TEHR	20	0737	0745	0739	N12	E62	.885	11383	25.0	8	-N	3	C		.13				D
CRON	20	0737	0748	0740	N10	E62	.884	11383	25.0	11	-N	2	C	0740	.32	.68			
ATHN	20	0737E	0806	0739	N11	E61	.877	11383	24.9	29D	-N	2	C		.33				D
CANR	20	0739	0744	0741U	N10	E59	.859	11383	24.7	5	-F	2	C	0741	.22	.42			
MONT	20	0740	0743	0741	N11	E62	.885	11383	25.0	3	-N		C	0741	.72				
MANI	20	0740E	0742	0741	N08	E60	.867	11383	24.8	2D	-N	2		0741	.31	.57			
GRP38565	20	1000	1008	1001	N11	E60	.868	11383	24.9	8	--N				.30				3 3 2 10
TEHR	20	0959	1006	1001	N12	E60	.869	11383	24.9	7	-N	3	C		.09				F
ATHN	20	1001E	1002D	1001	N10	E60	.868	11383	24.9	1D	-N	2	C		.50				D
CANR	20	1001	1010		N10	E60	.868	11383	24.9	9	-N	3	V			.40			
GRP38566	20	1035	1057	1037	N11	E60	.868	11383	24.9	22	-N				.78				4 4 3 7
ABST	20	1034	1102	1038	N09	E62	.884	11383	25.1	28	1N		C	1038	1.71	3.60		66	EJ
TEHR	20	1034	1047	1038	N12	E60	.869	11383	24.9	13	-N	3	C		.12				D
CATA	20	1035	1100	1035	N11	E59	.860	11383	24.9	25	-B		C	1035	.52	1.04		204	
CANR	20	1036	1058	1038	N10	E60	.868	11383	24.9	22	-N	3	V	1038		.40			
GRP38568	20	1141	1154	1144	N11	E61	.877	11383	25.1	13	-F				.99				2 2 2 6
ABST	20	1141	1156	1144	N09	E62	.884	11383	25.1	15	1F		C	1144	1.89	4.00		66	EJ
TEHR	20	1141	1151	1143	N12	E59	.861	11383	24.9	10	-F	3	C		.09				D
GRP38569	20	1231	1248	1236	N11	E58	.851	11383	24.9	17	--N				.42				6 6 5 8
MCMA	20	1230	1247	1236	N12	E58	.852	11383	24.9	17	-N		C	1236	.52	1.00			DHV
BOUL	20	1230	1248	1237	N10	E56	.832	11383	24.7	18	-N	1	C	1237	.32	.58			
RAMY	20	1230	1243D	1232	N10	E59	.859	11383	24.9	13D	-F	2	C		.31				D
TEHR	20	1230	1249	1236	N12	E59	.861	11383	24.9	19	-N	3	C		.31				FH
CANR	20	1233	1248	1236	N10	E59	.859	11383	24.9	15	-B	2	V	1236		.60			
CATA	20	1235	1250	1240	N12	E56	.833	11383	24.7	15	-B		C	1240	.63	1.20		204	
GRP38573	20	1811	1841	1818	N13	E56	.835	11383	25.0	30	-N				.52				5 5 3 6
LOCK	20	1807	1834	1819	N13	E56	.835	11383	25.0	27	-F		C						
PALE	20	1809E	1832D	1815	N13	E55	.825	11383	24.9	23D	-N	2	C		.41				F
RAMY	20	1813	1840	1816	N12	E56	.833	11383	25.0	27	-N	2	C		.93				D
BOUL	20	1814	1850		N12	E59	.861	11383	25.2	36	-N	3	V						
HUAN	20	1821E	1827	1821U	N14	E57	.845	11383	25.0	6D	-N	1	P	1821	.23	.43			D
HUAN	20	1821E	1831D	1821U	N14	E52	.797	11383	24.7	10D	-N	1	P	1821	.21	.34			D
574 RAMY	20	2145	2157	2148	N10	E56	.832	11383	25.1	12	--F	1	C		.62				D 3
GRP38578	21	0729	0737	0733	N11	E47	.738	11383	24.8	8	--N				.46				3 3 3 8
CATA	21	0725	0740	0735	N12	E46	.728	11383	24.8	15	-N		C	0735	.52	.76		158	
ATHN	21	0729	0737	0732	N10	E48	.748	11383	24.9	8	-F	2	C		.33				D
MONT	21	0732	0735	0732	N11	E48	.749	11383	24.9	3	-N		C	0732	.52				
GRP38582	21	1243	1307	1249	S09	W51	.787	11377	17.7	24	--F				.46				5 4 4 10
CATA	21	1225	1315	1245	S08	W49	.764	11377	17.8	50	-N		C	1245	.69	1.11		151	
HUAN	21	1241E	1256	1245	S07	W49	.762	11377	17.9	15D	-F	1	P	1245	.15	.24			D
ATHN	21	1243	1312	1248	S08	W49	.764	11377	17.9	29	-F	2	C		.50				D
RAMY	21	1245	1300	1248	S09	W48	.755	11377	17.9	15	-F	3	C		.31				D
HUAN	21	1246	1307	1255	S10	W56	.838	11377	17.3	21	-N	1	C	1255	.18	.32			D
ATHN	21	1247	1306	1251	S10	W55	.829	11377	17.4	19	-F	2	C		.17				D
CATA	21	1255E	1315	1255	S11	W55	.830	11377	17.4	20D	-N		P	1255	.23	.38		186	
CANR	21	1258	1258D		S11	W56	.840	11377	17.3		-N	2	V			.40			

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OBSERV-ATORY	OBSERVED UT DATE 1971	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	JUN																		
GRP38585	21	2231	2246	2235	S12	W62	.892	11377	17.3	15	--F				.36				2 2 1 3
LOCK	21	2230	2252	2234	S10	W63	.897	11377	17.2	22	-F		C						
PALE	21	2232	2240	2235	S13	W61	.885	11377	17.4	8	-N	2	C		.36				
GRP38587	22	0328	0338	0331	S12	W68	.933	11377	17.0	10	-N				.51				2 2 2 5
PALE	22	0328E	0332	0329	S13	W68	.934	11377	17.0	4D	-N	2	C		.36				
ATHN	22	0332E	0344	0332	S11	W68	.932	11377	17.0	12D	-N	1	C		.66				F
GRP38588	22	0319	0449	0432	S12	W68	.933	11377	17.0	90	1N				1.97				5 4 3 7
TACH	22	0319E	0430D	0420	S13	W68	.934	11377	17.0	71D	1N		V	0420	1.83		2.39	60	D
ATHN	22	0406	0440	0412	S11	W68	.932	11377	17.1	34	-N	2	C		.66				F
ABST	22	0407E	0452D	0447	S12	W68	.933	11377	17.1	45D	2N		P	0447	3.42				EZ
ONDR	22	0423E	0433D		S12	W68	.933	11377	17.1	10D	1F		V	0426			2.30		HJ
TEHR	22	0446E	0454	0448	S13	W67	.928	11377	17.2	8D	-N	4	C						D
5 STATIONS REPORTING GROUP 38589. 3 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38589	22	0554	0616	0600	S10	W69	.938	11377	17.1	22	-F				.67				3 3 2 8
ATHN	22	0551	0631	0604	S11	W69	.938	11377	17.1	40	-N	3	C		.50				D
TEHR	22	0554	0612	0556	S10	W69	.938	11377	17.1	18	-F	3	C		.84				D
CRON	22	0556	0606		S10	W70	.944	11377	17.0	10	-F	3	V						
38589	22	0510	0640	0525	S12	W68	.933	11377	17.1	90	*-B				.80				2 1 1 6
CATA	22	0510E	0640D	0525	S12	W68	.933	11377	17.1	90D	-B		P	0525	.80			204	T
ABST	22	0604E	0648D	0625	S12	W68	.933	11377	17.2	44D	2N		P	0625	3.60				EZ
GRP38590	22	0657	0830	0750	S12	W69	.939	11377	17.1	93	-B				.46				3 2 1 9
ZURI	22	0657E	0820	0733	S13	W73	.961	11377	16.8	83D	1N		P	0733	.84				
ISTA	22	0730	0820		S12	W67	.927	11377	17.3	50	-N								E
CATA	22	0735E	0840	0750	S12	W70	.945	11377	17.1	65D	-B		P	0750	.46			214	T
GRP38591	22	0901	0919	0910	S13	W69	.940	11377	17.2	18	--N				.36				3 3 2 9
WEND	22	0857	0918		S16	W69	.942	11377	17.2	21	-N								
ATHN	22	0904	0920	0909	S11	W69	.938	11377	17.2	16	-N	3	C		.50				F
MONT	22	0911E	0918	0911	S11	W70	.944	11377	17.1	7D	-N		C	0911	.21				H
602 LOCK	22	2225	2234	2229	N08	E24	.418	11383	24.7	9	-N		C						3
603 PALE	22	2235	2239	2236	N09	E24	.422	11383	24.7	4	--N	2	C		.45				F 3
GRP38604	22	2250	2300	2254	N09	E24	.422	11383	24.8	10	--F				.27				2 2 1 3
LOCK	22	2248	2300	2253	N08	E24	.418	11383	24.8	12	-F		C						
PALE	22	2251	2259	2254	N09	E24	.422	11383	24.8	8	-N	2	C		.27				F
605 PALE	22	2335	2346	2340	S12	W78	.980	11377	17.1	11	-N	2	C		.45				2
GRP38606	22	2337	2343	2339	N09	E25	.437	11383	24.9	6	--N				.45				2 2 1 2
LOCK	22	2336	2343	2339	N08	E24	.418	11383	24.8	7	-N		C						
PALE	22	2337	2343	2339	N09	E25	.437	11383	24.9	6	-N	2	C		.45				F
	22	2355	0002	NO FLARE PATROL															
GRP38608	23	0314	0334	0328	S13	W86	.998	11377	16.7	20	-F				.62				2 2 1 6
CULG	23	0314	0340	0328	S13	W84	.996	11377	16.8	26	1N		C	0328	.62				ET
CRON	23	0322E	0327		S12	W87	.999	11377	16.6	5D	-F	3	V						
GRP38610	23	0621	0647	0631	S11	W83	.994	11377	17.0	26	-N				.76				6 6 4 8
CATA	23	0620	0650	0635	S13	W85	.997	11377	16.9	30	-B		C	0635	.63			288	
ATHN	23	0622	0648	0631	S11	W85	.997	11377	16.9	26	-N	3	C		.50				D
ABST	23	0625E	0627D	0626	S11	W85	.997	11377	16.9	2D	1N		P	0626	1.18			98	AEJ
HURB	23	0626E	0648	0630	S11	W85	.997	11377	16.9	22D	1F						1.77		
CAPS	23	0630E	0635D		S10	W75	.969	11377	17.6	5D	-N	2	S						
MONT	23	0632E	0642	0634	S12	W82	.992	11377	17.1	10D	-N		C	0634	.72				
5 STATIONS REPORTING GROUP 38612. 6 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38612	23	0731	0800	0734	S13	W86	.998	11377	16.9	29	-B				.57				3 3 2 9
CATA	23	0730	0745D	0735	S13	W88	1.000	11377	16.7	15D	-B		P	0735	.58			204	
ISTA	23	0730	0800		S13	W85	.997	11377	16.9	30	-N								
ZURI	23	0732	0800	0732	S12	W84	.995	11377	17.0	28	1B		C	0732	.55				
38612	23	0756	0817	0805	S12	W85	.997	11377	17.0	21	*-F				.78				2 2 2 9
ARCE	23	0756E	0804D		S12	W85	.997	11377	17.0	8D	-N		P	0756	.38	1.50			B
ABST	23	0803E	0817D	0805	S11	W85	.997	11377	17.0	14D	1F		P	0805	1.18			82	AEJ
GRP38617	23	1920	1935	1926	S22	E08	.426	11382	24.4	15	--N				.33				2 2 2 5
HUAN	23	1918	1936D	1925	S22	E07	.421	11382	24.3	18D	-N	1	P	1925	.21	.23			E
PALE	23	1922	1933	1926	S21	E08	.411	11382	24.4	11	-N	2	C		.45				F

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP38619	23	2023	2043	2031	S22	E07	.421	11382	24.4	20	--N				.39				2 2 2 4
HUAN	23	2023	2043	2029	S22	E07	.421	11382	24.4	20	-N	1	C	2029	.33	.36			E
PALE	23	2032E	2035D	2032	S21	E07	.406	11382	24.4	3D	-N	2	C		.45				F
GRP38620	24	0130	0210	0144	N15	E12	.301	11383	25.0	40	--N				.81				2 2 2 5
PALE	24	0130	0215	0142	N15	E12	.301	11383	25.0	45	-N	2	C		.99				F
PALE	24	0130	0215	0158	N15	E12	.301	11383	25.0	45	-N	2	C		1.05				
MANI	24	0138E	0205	0145	N15	E12	.301	11383	25.0	27D	-N	2		0145	.62	.65			
GRP38623	24	0524	0558	0532	S21	E03	.395	11382	24.5	34	1N				1.72				7 6 5 9
CATA	24	0510E	0605	0533	S22	E04	.413	11382	24.5	55D	-B		P	0533	1.09	1.21		380	
ONDR	24	0515E	0546		S21	E02	.393	11382	24.4	31D	2N		V	0528			2.60		JU
ABST	24	0525	0607	0530	S22	E03	.411	11382	24.5	42	2B		C	0530	4.77	5.20		98	EJUZ
ATHN	24	0526	0601	0530	S22	E03	.411	11382	24.5	35	-N	3	C		.99				D
TEHR	24	0526	0603	0532	S18	E03	.347	11382	24.5	37	-N	4	C		.91				F
CRON	24	0527	0545	0532	S21	E03	.395	11382	24.5	18	-N	2	C	0532	.86	.94			
TACH	24	0534	0543	0537	S21	W10	.423	11382	23.5	9	-N		C	0537	.91	.99	2.61	60	E
GRP38626	24	0658	0724	0701	S21	E01	.392	11382	24.4	26	--F				.54				3 3 2 11
ABST	24	0657	0739	0659	S21	E01	.392	11382	24.4	42	-F		C	0659	.90	.95		76	D
WEND	24	0657	0716		S20	E01	.376	11382	24.4	19	-N								
ATHN	24	0700	0716	0702	S21	E01	.392	11382	24.4	16	-F	2	C		.17				D
GRP38631	24	1113	1148	1120	N15	E55	.826	11393	28.6	35	--F				.31				4 3 3 10
MONT	24	1049	1118	1102	N14	E57	.844	11393	28.7	29	-N		C	1102	1.55				
TEHR	24	1105	1148	1117	N15	E56	.836	11393	28.7	43	-N	3	C		.19				D
CANR	24	1112U	1133U	1117U	N15	E53	.807	11393	28.4	21D	-F	1	C	1117	.43	.73			
RAMY	24	1122	1141D	1125	N15	E57	.845	11393	28.7	19D	-F	2	C		.31				D
GRP38635	24	1424	1451	1428	S21	W04	.397	11382	24.3	27	--N				.82				4 4 4 8
MCMA	24	1424	1450	1429	S22	W02	.409	11382	24.5	26	-N		C	1429	.83	.90			E
MONT	24	1424	1435	1425	S20	W04	.381	11382	24.3	11	-N		C	1425	.72				
RAMY	24	1425	1448	1428	S21	W04	.397	11382	24.3	23	-F	2	C		.93				D
CATA	24	1428E	1510	1428	S21	W05	.400	11382	24.2	42D	-N		P	1428	.80	.88		178	
GRP38636	24	2106	2215	2145	S21	W06	.403	11382	24.4	69	-N				1.32				5 5 4 5
HUAN	24	2103	2140D		S22	W07	.423	11382	24.4	37D	-N	2	P	2140	.99	1.08			E
LOCK	24	2107	2215	2145	S20	W07	.392	11382	24.4	68	-N		C						
MCMA	24	2107	2159D		S22	W07	.423	11382	24.4	52D	-B		C	2141	1.24	1.30			EKU
RAMY	24	2108	2115D	2112	S21	W05	.400	11382	24.5	7D	-F	1	C		.41				D
RAMY	24	2138E	2220D	2144	S21	W05	.400	11382	24.5	42D	1N	2	C		2.06				UH
PALE	24	2147E	2209	2147	S21	W05	.400	11382	24.5	22D	-B	2	C		.99				F
637 LOCK	24	2230	2315	2234	S20	W09	.403	11382	24.3	45	--F		C						2
638 PALE	24	2309	2322	2313	N16	E47	.747	11393	28.5	13	--N	2	C		.45				F 3
639 LOCK	24	2353	0010	2356	S20	W11	.416	11382	24.2	17	--F		C						1
641 PALE	25	0041	0051	0043	N16	E45	.724	11393	28.4	10	-N	2	C		.72				F 5
GRP38642	25	0146	0208	0149	S20	W08	.399	11382	24.5	22	--N				.49				2 2 2 4
CRON	25	0145	0206	0150	S20	W09	.405	11382	24.4	21	-N	2	C	0150	.43	.47			
PALE	25	0147	0210	0148	S20	W07	.394	11382	24.5	23	-N	2	C		.55				F
4 STATIONS REPORTING GROUP 38645. 7 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38645	25	0543	0624	0558	N15	E41	.675	11393	28.3	41	-N				.96				3 3 2 11
ATHN	25	0541	0627	0555	N16	E42	.690	11393	28.4	46	-N	3	C		.99				D
CATA	25	0545	0620	0600	N16	E42	.690	11393	28.4	35	-B		C	0600	.93	1.29		224	T
CRON	25	0548E	0602D		N13	E44	.705	11393	28.5	14D	-F	3	V						
ATHN	25	0607	0628	0610	N15	E33	.573	11393	27.7	21	-N	3	C		.66				D
38645	25	0540	0613	0542	N17	E42	.693	11393	28.4	33	*-F				.61				2 2 2 7
TEHR	25	0538	0558	0541	N18	E41	.685	11393	28.3	20	-N	4	C		.55				D
ATHN	25	0541	0627	0543	N16	E42	.690	11393	28.4	46	-F	3	C		.66				
GRP38649	25	0805	0830	0810	N14	E34	.582	11393	27.9	25	-N				.71				5 3 3 13
CAPE	25	0802	0825	0809	N13	E35	.592	11393	28.0	23	-F		C	0809	.92	1.10			
MONT	25	0805	0812	0808	N15	E35	.599	11393	28.0	7	-N		C	0808	.72				
ATHN	25	0808	0841	0812	N15	E33	.573	11393	27.8	33	-N	3	C		.50				D
ATHN	25	0808	0837	0811	N15	E32	.560	11393	27.7	29	-F	3	C		.33				D
ISTA	25	0827	0835		N15	E38	.638	11393	28.2	8	-F								
CATA	25	0835	0840	0835	N14	E33	.569	11393	27.8	5	-N		C	0835	.46	.57		195	T
ISTA	25	0835	0843		N16	E45	.724	11393	28.7	8	-F								
GRP38650	25	0757	0804	0801	N15	E42	.687	11393	28.5	7	-N				.60				3 3 3 11
ARCE	25	0739E	0805		N15	E43	.698	11393	28.5	26D	-N		C	0739	.69	1.00			B
CATA	25	0755	0805	0800	N15	E41	.675	11393	28.4	10	-B		C	0800	.40	.55		234	
MONT	25	0758	0803	0801	N15	E41	.675	11393	28.4	5	-N		C	0801	.72				

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38655	25	1116	1139	1119	S19	W18	.463	11382	24.1	23	-N				1.16				5 5 5 9
ATHN	25	1114	1138	1117	S19	W18	.463	11382	24.1	24	-N	3	C		1.16				D
CAPE	25	1116	1140	1122	S18	W18	.452	11382	24.1	24	-N		C	1122	1.21	1.40			
RAMY	25	1116	1141	1120	S19	W18	.463	11382	24.1	25	-N	3	C		1.55				D
TEHR	25	1116	1147	1118	S18	W17	.442	11382	24.2	31	-F	4	C		.73				F
CATA	25	1120	1130	1120	S20	W18	.475	11382	24.1	10	-B		C	1120	1.16	1.27		229	H
GRP38656	25	1141	1159	1145	N16	E41	.678	11393	28.6	18	--F				.79				4 4 4 10
TEHR	25	1140	1157	1145	N17	E42	.693	11393	28.6	17	-N	2	C		.45				D
CAPE	25	1140	1215	1145	N16	E42	.690	11393	28.6	35	-F		C	1145	1.01	1.40			
CANR	25	1140	1148	1144	N15	E41	.675	11393	28.6	8	-F	1	C	1144	.75	1.03			
RAMY	25	1142	1155D	1144	N17	E39	.657	11393	28.4	13D	-F	3	C		.93				D
10 STATIONS REPORTING GROUP 38658. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38658	25	1443	1522	1453	S19	W17	.454	11382	24.3	39	--N				.58				8 8 8 11
HUAN	25	1440	1526	1500	S19	W17	.454	11382	24.3	46	-N	2	C	1500	.33	.37			E
RAMY	25	1440	1520	1445	S17	W18	.440	11382	24.3	40	-N	2	C		.93				D
BOUL	25	1440U	1505U	1449U	S19	W15	.435	11382	24.5	25D	-F	2	C	1449	.22	.25			
TEHR	25	1441	1515D	1455	S17	W16	.420	11382	24.4	34D	-F	4	C		.55				F
MCMA	25	1442	1505D	1453	S20	W16	.457	11382	24.4	23D	-N		C	1453	.52	.60			E
CANR	25	1442	1515	1448	S19	W16	.444	11382	24.4	33	-F	1	C	1448	.32	.36			
CATA	25	1445	1535	1455	S19	W17	.454	11382	24.3	50	-B		C	1455	.80	.92		218	
ATHN	25	1450	1521	1455	S20	W17	.466	11382	24.3	31	-N	3	C		.99				D
38658	25	1449	1545	1512	S19	W15	.435	11382	24.5	56	*-F				.80				2 2 1 12
CAPS	25	1449E	1524D		S19	W12	.410	11382	24.7	35D	-F	2	V	1506	.80	.90		142	
LOCK	25	1512E	1545	1512U	S19	W18	.463	11382	24.3	33D	-F		C						
GRP38659	25	1517	1537	1520	S09	E87	.999	11402	2.2	20	--N				.23				6 6 2 12
LOCK	25	1516	1542	1523	S08	E81	.989	11402	1.7	26	-N		C						H
HUAN	25	1516	1547	1518U	S08	E90	1.000	11402	2.4	31	-N	2	P	1518	.23				E
ATHN	25	1517	1536	1519	S08	E90	1.000	11402	2.4	19	-N	3	C						D
BOUL	25	1518	1532	1521	S10	E81	.989	11402	1.7	14	-N	2	C	1521	.22				
RAMY	25	1518	1528	U	S09	E90	1.000	11402	2.4	10	-N	3	C						D
MCMA	25	1520E	1526D		S08	E90	1.000	11402	2.4	6D	-F		C	1522					
GRP38661	25	1705	1720	1710	S08	E81	.989	11402	1.8	15	--F				.11				2 2 1 6
LOCK	25	1704	1725	1710	S08	E81	.989	11402	1.8	21	-F		C						H
BOUL	25	1705	1715	1709	S08	E81	.989	11402	1.8	10	-N	2	C	1709	.11				
GRP38664	25	2051	2111	2054	S07	E87	.999	11402	2.4	20	--N				.22				3 3 2 3
BOUL	25	2050	2053D	2051	S07	E82	.991	11402	2.0	3D	-N	2	C	2051	.22				
HUAN	25	2050	2118	2056	S07	E90	1.000	11402	2.6	28	-N	2	C	2056	.21				D
MCMA	25	2054	2104	2056	S08	E90	1.000	11402	2.6	10	-N		C	2056					
GRP38665	25	2054	2114	2059	N16	E35	.604	11393	28.5	20	--N				.48				2 2 2 4
HUAN	25	2052	2112	2059	N15	E35	.599	11393	28.5	20	-N	2	C	2059	.33	.41			E
MCMA	25	2055	2116	2058	N16	E34	.591	11393	28.4	21	-N		C	2058	.62	.80			E
	25	2400	0003	NO FLARE PATROL															
GRP38671	26	0720	0756	0728	N17	E28	.518	11393	28.4	36	-N				1.06				5 5 5 7
ATHN	26	0718	0749	0723	N15	E29	.520	11393	28.5	31	-N	3	C		.66				F
ABST	26	0720	0801	0727	N17	E29	.531	11393	28.5	41	1N		C	0727	2.34	2.70			E
CAPE	26	0720	0800	0725	N17	E27	.505	11393	28.3	40	-F		C	0725	.92	1.10			
CATA	26	0720	0810	0735	N16	E28	.512	11393	28.4	50	-B		C	0735	1.04	1.23		204	
TEHR	26	0724	0738	0729	N18	E29	.537	11393	28.5	14	-N	2	C		.36				DR
674 CATA	26	1010	1025	1010	S11	E90	1.000	11402	3.2	15	--F		C	1010	.17			148	3
GRP38675	26	1029	1103	1036	N20	E09	.338	11403	27.1	34	--F				.67				2 2 2 4
CAPE	26	1025	1110	1036	N19	E09	.324	11403	27.1	45	-F		C	1036	1.06	1.10			
TEHR	26	1032	1055	1035	N20	E08	.332	11403	27.0	23	-F	2	C		.28				DR
GRP38676	26	1229	1244	1234	S09	E86	.998	11402	3.0	15	-N				.29				4 4 2 8
BOUL	26	1228	1245	1235	S09	E78	.980	11402	2.4	17	-N	2	C	1235	.22				
TEHR	26	1228	1244	1233	S09	E89	1.000	11402	3.2	16	-N	3	C		.36				DR
RAMY	26	1230	1246	1233	S08	E85	.997	11402	2.9	16	-N	2	C						D
ATHN	26	1231E	1242	1233	S09	E90	1.000	11402	3.3	11D	-N	3	C						D
GRP38677	26	1400	1409	1403	N13	E25	.453	11393	28.5	9	--N				.55				6 6 6 9
ATHN	26	1359	1407	1402	N12	E19	.361	11393	28.0	8	-N	3	C		.33				D
CAPE	26	1400	1410	1403	N13	E26	.467	11393	28.5	10	-N		C	1403	1.10	1.20			
RAMY	26	1400	1413	1403	N14	E26	.473	11393	28.5	13	-N	3	C		.52				D
MCMA	26	1400	1406	1403	N13	E26	.467	11393	28.5	6	-B		C	1403	.52	.60			DH
CATA	26	1401E	1410D	1401	N12	E26	.462	11393	28.5	9D	-N		P	1401	.40	.46		182	
TEHR	26	1402	1407	1404	N14	E28	.501	11393	28.7	5	-N	2	C		.45				D
681 PALE	26	1905	1930	1911	S08	E80	.986	11402	2.8	25	--N	2	C		.19				F 3

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38682	26	2026	2034	2028	N15	E21	.412	11393	28.4	8	--N				.45				3 3 2 3
LOCK	26	2026	2034	2028	N15	E22	.425	11393	28.5	8	-F		C						
HUAN	26	2026	2036	2028	N15	E20	.398	11393	28.4	10	-N	2	C	2028	.38	.41			E
MCMA	26	2027	2032	2028	N16	E20	.407	11393	28.4	5	-N		C	2028	.52	.60			D
GRP38683	26	2040	2120	2049	N16	W26	.485	11383	24.9	40	--F				.59				4 4 3 4
MCMA	26	2038	2109D		N15	W26	.479	11383	24.9	31D	-F		C	2055	.52	.60			EL
RAMY	26	2039	2115	2047	N15	W24	.452	11383	25.1	36	-F	2	C		.83				D
LOCK	26	2040	2115	2050	N17	W27	.505	11383	24.8	35	-F		C						
HUAN	26	2042	2130D	2050	N15	W26	.479	11383	24.9	48D	-N	2	P	2050	.43	.49			E .
GRP38687	27	0218	0227	0221	N13	E20	.382	11393	28.6	9	--F				.20				2 2 2 5
MANI	27	0218	0225	0220	N13	E21	.396	11393	28.7	7	-N	2		0220	.31	.34			
TEHR	27	0218	0229D	0221	N13	E19	.368	11393	28.5	11D	-F	2	C		.09				D
GRP38690	27	0322	0339	0327	N12	E20	.375	11393	28.6	17	--N				.70				3 3 3 5
TEHR	27	0321	0349	0327	N11	E20	.369	11393	28.6	28	-N	3	C		1.00				F
TACH	27	0322	0334	0328	N13	E18	.354	11393	28.5	12	-N		C	0328	.83	.88	2.14	54	E
PALE	27	0323E	0335	0327	N12	E21	.389	11393	28.7	12D	-F	1	C		.27				F
GRP38693	27	0515	0530	0520	N16	E17	.368	11393	28.5	15	--N				.34				2 2 1 5
CATA	27	0515E	0530D	0520	N15	E17	.358	11393	28.5	15D	-N		P	0520	.34	.37		182	
TEHR	27	0523E	0530	U	N17	E16	.366	11393	28.4	7D	-N	3	C						D
GRP38696	27	0620	0646	0630	N15	E86	.997	11405	3.7	26	-B				.43				2 2 2 5
TEHR	27	0613E	0648	0631	N14	E85	.996	11405	3.6	35D	-B	3	C		.35				
TEHR	27	0613E	0648	0616	N14	E85	.996	11405	3.6	35D	-F	3	C		.19				D
ATHN	27	0627	0644	0629	N16	E86	.997	11405	3.7	17	-N	3	C		.50				D
GRP38698	27	1157	1205	1200	S09	E74	.964	11402	3.0	8	-N				.42				4 4 4 7
CANR	27	1156	1206	1200	S08	E71	.949	11402	2.8	10	-N	2	C	1200	.43				
ATHN	27	1157	1204	1200	S10	E76	.973	11402	3.2	7	-N	3	C		.50				D
RAMY	27	1157	1206	1159	S07	E72	.954	11402	2.9	9	-N	3	C		.56				D
TEHR	27	1158	1201D	1200	S09	E75	.969	11402	3.1	3D	-B	3	C		.19				D
GRP38699	27	1205	1233	1209	N20	E13	.370	11393	28.5	28	--F				.31				3 2 2 8
ATHN	27	1204	1230	1207	N20	E13	.370	11393	28.5	26	-F	3	C		.33				D
RAMY	27	1205	1235	1211	N20	E12	.361	11393	28.4	30	-N	3	C		.28				D
CATA	27	1210	1230	1220	N20	E13	.370	11393	28.5	20	-N		C	1220	.23	.25		163	
710 PALE	27	2246	2258D	2250	S09	E70	.944	11402	3.2	12D	--F	1	C		.27				2
711 LOCK	27	2255	2335	2315	N10	W38	.622	11383	25.1	40	--F		C						2
	27	2358	0000	NO FLARE PATROL															
GRP38712	28	0025	0029	0028	S08	E67	.925	11402	3.0	4	--N				.38				2 2 1 4
PALE	28	0025	0030D	0028	S08	E67	.925	11402	3.0	5D	-N	1	C		.38				F
CRON	28	0025E	0028		S07	E67	.924	11402	3.0	3D	-N	2	V						
713 PALE	28	0135	0158D	0137	S11	E72	.956	11402	3.5	23D	-N	2	C		.48				F 3
714 PALE	28	0243	0301D	0246	N18	E72	.952	11405	3.5	18D	--F	1	C		.27				2
GRP38720	28	0513	0520	0515	S08	E65	.911	11402	3.1	7	-N				1.17				3 3 2 7
TEHR	28	0513	0523	0515	S07	E64	.903	11402	3.0	10	-N	4	C		.36				D
ABST	28	0513	0521	0515	S09	E65	.912	11402	3.1	8	1N		C	0515	1.98			73	FZ
CRON	28	0513	0517	0515	S07	E65	.910	11402	3.1	4	-F	3	V						
GRP38722	28	0600	0615	0603	N13	E04	.194	11393	28.6	15	-N				.98				5 5 4 9
ABST	28	0559	0623	0601	N13	E05	.201	11393	28.6	24	-N		C	0601	1.80	1.80		85	E
TEHR	28	0559	0618D	0604	N13	E04	.194	11393	28.5	19D	-N	3	C		.83				F
CATA	28	0600	0625	0605	N13	E04	.194	11393	28.5	25	-N		C	0605	.98	1.00		199	
CRON	28	0600	0606	0603	N13	E04	.194	11393	28.5	6	-F	3	V						
MANI	28	0602E	0605	0603	N14	E05	.217	11393	28.6	3D	-N	2		0603	.31	.32			
GRP38728	28	0908	0926	0912	N10	W45	.711	11383	25.0	18	-N				.90				5 5 4 10
TEHR	28	0903	0926	0909	N11	W45	.712	11383	25.0	23	-N	4	C		.45				D
ATHN	28	0904	0937	0912	N08	W45	.709	11383	25.0	33	-N	3	C		.83				D
MONT	28	0909	0920	0913	N10	W45	.711	11383	25.0	11	-N		C	0913	1.13				
ABST	28	0910E	0928	0911	N10	W45	.711	11383	25.0	18D	-F		P	0911	1.18	1.70		76	EJZ
CRON	28	0912	0919	0914	N12	W47	.737	11383	24.9	7	-F	3	V						

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38729	28	0913	0934	0918	S14	E70	.947	11402	3.6	21	-N				1.16				8 8 5 9
CRON	28	0910	0928	0920	S13	E70	.946	11402	3.6	18	-N	3	V						
ABST	28	0912	0948	0918	S14	E73	.962	11402	3.9	36	1N		C	0918	1.80			88	EJZ
TEHR	28	0912	0928	0916	S15	E69	.942	11402	3.6	16	-N	3	C		.64				D
MONT	28	0914	0931	0917	S14	E71	.952	11402	3.7	17	-N		C	0917	1.50				
CANR	28	0915E	0925	0918	S15	E69	.942	11402	3.6	10D	1N	2	C	0918	.86				
ATHN	28	0915	0943	0917	S15	E69	.942	11402	3.6	28	-N	3	C		.99				D
ISTA	28	0915	0935		S14	E72	.957	11402	3.8	20	-B								
CAPS	28	0916E	0936D		S15	E65	.918	11402	3.3	20D	-N	1	P						C
GRP38733	28	1039	1051	1045	N10	W45	.711	11383	25.1	12	--F				.53				2 2 2 7
MONT	28	1038	1051D	1046	N10	W45	.711	11383	25.1	13D	-N		C	1046	.72				
ATHN	28	1039	1050	1043	N09	W45	.710	11383	25.1	11	-F	3	C		.33				D
GRP38734	28	1126	1153	1131	S14	E70	.947	11402	3.7	27	-N				1.05				3 3 3 9
ABST	28	1125	1144	1130	S14	E73	.962	11402	4.0	19	1N		C	1130	1.80			85	EJZ
MCMA	28	1126	1145D	1131	S14	E68	.936	11402	3.6	19D	-N		C	1131	.41	1.20			E
RAMY	28	1128	1209	1133	S13	E68	.935	11402	3.6	41	-F	3	C		.93				D
GRP38736	28	1217	1250	1225	S15	E68	.937	11402	3.6	33	1N				1.19				8 7 7 13
MCMA	28	1214	1520	1225	S15	E70	.948	11402	3.8	186	1B		C	1225	1.03	3.40			EKLU
RAMY	28	1215	1250	1227	S14	E67	.930	11402	3.5	35	1N	3	C		1.75				F
CANR	28	1216	1232U	1220	S16	E68	.938	11402	3.6	16D	-F	2	C	1220	.43				
TEHR	28	1216	1236	1225	S16	E68	.938	11402	3.6	20	-N	3	C		.80				
TEHR	28	1216	1236	1220	S16	E68	.938	11402	3.6	20	-N	3	C		.45				D
ATHN	28	1216	1244	1228	S17	E68	.939	11402	3.6	28	1N	3	C		1.16				F
MONT	28	1220	1259	1228	S14	E70	.947	11402	3.8	39	1N		C	1228	2.58				
CATA	28	1220	1245	1220	S16	E68	.938	11402	3.6	25	-B		C	1220	.58			223	
ATHN	28	1230	1241	1233	S18	E65	.922	11402	3.4	11	-B	3	C		.17				D
HUAN	28	1237E	1258D	1244U	S16	E70	.949	11402	3.8	21D	-N	1	P	1244	.43				E
GRP38737	28	1315	1335	1319	S14	E69	.942	11402	3.7	20	-N				.89				3 3 3 7
ATHN	28	1313	1337	1319	S15	E67	.931	11402	3.6	24	-N	3	C		.50				D
RAMY	28	1315	1337	1319	S13	E68	.935	11402	3.7	22	-F	2	C		.67				D
MONT	28	1316	1331	1318	S14	E71	.952	11402	3.9	15	-N		C	1318	1.50				
GRP38739	28	1419	1438	1424	N12	W48	.749	11383	25.0	19	--N				.21				2 2 2 6
ATHN	28	1419	1439	1425	N11	W48	.747	11383	25.0	20	-N	3	C		.33				D
TEHR	28	1419	1437	1423	N12	W48	.749	11383	25.0	18	-N	4	C		.09				D
5 STATIONS REPORTING GROUP 38740. 3 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38740	28	1434	1526	1501	S14	E70	.947	11402	3.9	52	1N				1.50				4 3 3 7
MCMA	28	1214	1520		S15	E70	.948	11402	3.8	186	1B			1452	.52	1.70			
MONT	28	1433	1524	1450	S14	E71	.952	11402	3.9	51	1N		C	1450	2.58				
RAMY	28	1436	1533	1448	S13	E68	.935	11402	3.7	57	1N	2	C		1.40				
ATHN	28	1523	1537	1526	S08	E58	.855	11402	3.0	14	-F	3	C		.17				D
38740	28	1432	1509	1438	S14	E69	.942	11402	3.8	37	*-N				.45				3 3 3 8
ATHN	28	1426	1459	1434	S16	E69	.943	11402	3.8	33	-N	3	C		.50				D
CANR	28	1434	1455	1439	S14	E69	.942	11402	3.8	21	-N	2	C	1439	.43				
RAMY	28	1436	1533	1440	S13	E68	.935	11402	3.7	57	-N	2	C		.41				D
GRP38742	28	1549	1609	1553	S15	E69	.942	11402	3.8	20	--N				.41				3 2 2 6
CANR	28	1548	1559	1553	S14	E69	.942	11402	3.8	11	-N	2	C	1553	.32				
ATHN	28	1550	1619D	1553	S16	E69	.943	11402	3.8	29D	-N	3	C		.50				D
HUAN	28	1617E	1631	1623U	S14	E67	.930	11402	3.7	14D	-N	1	P	1623	.23				E
GRP38744	28	1630	1708	1642	N13	W52	.793	11383	24.8	38	-N				.87				5 5 5 6
RAMY	28	1626	1657D	1645	N11	W51	.780	11383	24.9	31D	-F	1	C		.72				D
HUAN	28	1629	1723D	1644U	N14	W55	.824	11383	24.6	54D	-N	1	P	1644	.18	.30			D
CANR	28	1629	1700	1637	N11	W53	.801	11383	24.7	31	-N	2	C	1637	.43	.72			
MONT	28	1634	1647D	1641	N14	W51	.784	11383	24.9	13D	-N		C	1641	2.27				
CATA	28	1639E	1700D	1655	N13	W51	.783	11383	24.9	25D	-N		P	1655	.75	1.22		158	
38744	28	1636	1715	1710	N16	W52	.798	11383	24.8	39	*-N				.60				2 2 2 3
MCMA	28	1636E	1711D		N18	W50	.781	11383	24.9	35D	-N		C	1705	.62	1.00			E
CATA	28	1705E	1715	1710	N14	W54	.814	11383	24.7	10D	-N		P	1710	.58	1.01		174	
GRP38748	28	1832	1851	1836	S14	E65	.917	11402	3.6	19	--F				.48				4 4 4 6
HUAN	28	1831	1849	1835	S14	E65	.917	11402	3.6	18	-N	1	C	1835	.35				E
CANR	28	1832	1845	1836	S14	E64	.910	11402	3.6	13	-N	2	C	1836	.22				
MCMA	28	1833	1900D	1836	S13	E66	.922	11402	3.7	27D	-F		C	1836	.62	1.70			E
RAMY	28	1836E	1842D	1836	S13	E65	.916	11402	3.6	6D	-F	1	C		.72				D
750 LOCK	28	2118	2130	2122	S10	E66	.920	11402	3.8	12	--F		C						3
GRP38751	29	0145	0205	0150	S15	E60	.882	11402	3.6	20	--F				.73				2 2 2 6
MANI	29	0145E	0210	0149	S15	E60	.882	11402	3.6	25D	-N	1		0149	1.03	1.94			
BOUL	29	0145U	0200	0150	S14	E60	.881	11402	3.6	15D	-F	2	C	0150	.43	.91			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38754	29	0328	0405	0333	S09	E66	.919	11402	4.1	37	--N				.36				3 1 1 6
TEHR	29	0310	0357	0318	S10	E64	.906	11402	3.9	47	-N	1	C		.09				D
PALE	29	0328E	0405	0333	S09	E66	.919	11402	4.1	37D	-N	2	C		.36				
ATHN	29	0351E	0359D	0352	S08	E65	.911	11402	4.0	8D	-N	1	C		.50				D
GRP38756	29	0440	0452	0442	N12	W56	.831	11383	25.0	12	-N				1.10				9 9 8 10
PALE	29	0438	0440D	0440	N12	W54	.812	11383	25.1	2D	-B	2	C		.99				F
MITK	29	0439	0447	0440	N11	W56	.830	11383	25.0	8	-N		C	0440	1.13	2.00			D
ATHN	29	0439	0454	0443	N08	W57	.838	11383	24.9	15	-N	2	C		.66				D
CULG	29	0439	0459	0441	N13	W57	.841	11383	24.9	20	1B		C	0441	1.24	2.10			V
ABST	29	0439	0503D	0441	N10	W56	.830	11383	25.0	24D	1B		P	0441	1.44	2.60		96	FJ
TACH	29	0440	0446	0441	N10	W57	.839	11383	24.9	6	-N		C	0441	.64	1.17		56	D
KODA	29	0440E	0442D		N11	W56	.830	11383	25.0	2D	-N		P	0441	1.73	1.70			CD
MANI	29	0442E	0445	0443	N12	W53	.802	11383	25.2	3D	-F	1		0443	.31	.51			
CRON	29	0442	0448	0445	N12	W56	.831	11383	25.0	6	-F	3	V						
CULG	29	0443	0530	0449	N17	W60	.871	11383	24.7	47	1N		C	0449	1.24	2.40			
ATHN	29	0444	0505	0448	N12	W62	.884	11383	24.5	21	-N	2	C		.66				D
ABST	29	0445	0511	0447	N14	W60	.868	11383	24.7	26	1F		P	0447	1.80	3.60		72	EJZ
GRP38761	29	0604	0625	0611	N08	E38	.618	11401	2.1	21	--F				.22				3 3 3 7
ATHN	29	0602E	0621	0607	N08	E37	.605	11401	2.0	19D	-F	2	C		.17				D
TEHR	29	0605	0631	0611	N07	E37	.603	11401	2.0	26	-F	4	C		.19				D
MANI	29	0613E	0623	0615	N08	E40	.645	11401	2.3	10D	-N	1		0615	.31	.32			
GRP38764	29	0717	0728	0720	N11	W58	.849	11383	25.0	11	-N				.92				6 6 5 9
MANI	29	0716E	0722	0719	N11	W54	.811	11383	25.3	6D	-N	1		0719	.52	.54			
ATHN	29	0716	0722D	0719	N08	W58	.848	11383	25.0	6D	-N	2	C		.50				D
ABST	29	0717	0730D	0718	N12	W58	.850	11383	25.0	13D	1N		P	0718	1.26	2.60		83	EJVZ
TEHR	29	0717	0740	0718	N11	W59	.858	11383	24.9	23	-F	3	C		.28				D
MONT	29	0718	0725	0720	N10	W59	.857	11383	24.9	7	-N		C	0720	2.06				
CRON	29	0721E	0728D	0723	N12	W58	.850	11383	25.0	7D	-F	1	V						
GRP38765	29	0751	0805	0755	S14	E58	.865	11402	3.7	14	-N				1.32				7 7 4 13
ISTA	29	0750	0800		S15	E58	.866	11402	3.7	10	-N								E
TEHR	29	0750	0807	0754	S15	E56	.849	11402	3.5	17	-N	2	C		.28				F
MONT	29	0751	0807	0754	S14	E59	.873	11402	3.8	16	-N		C	0754	2.27				
ABST	29	0751	0815	0754	S15	E59	.874	11402	3.8	24	1N	+	C	0754	1.98	3.80		87	JZ
CANR	29	0753	0805	0754	S14	E56	.847	11402	3.5	12	-F	2	V	0754		1.00			
CRON	29	0755E	0800	0757	S14	E59	.873	11402	3.8	5D	-F	1	V						
TEHR	29	0755	0803	0759	S10	E60	.875	11402	3.8	8	-F	2	C		.09				D
ATHN	29	0756E	0802D	0757	S14	E57	.856	11402	3.6	6D	-N	2	C		.66				D
GRP38766	29	0845	0906	0851	S14	E56	.847	11402	3.6	21	1N				1.66				8 7 7 12
CANR	29	0843	0900	0849	S14	E56	.847	11402	3.6	17	-B	2	C	0849	.54	1.02			
TEHR	29	0843	0900	0849	S15	E56	.849	11402	3.6	17	-N	4	C		.28				F
ARCE	29	0845	0927	0850	S15	E55	.841	11402	3.5	42	1N		C	0850	1.70	3.10			U
ZURI	29	0846	0900	0851	S15	E53	.822	11402	3.3	14	-N		C	0851	.89	1.70			
ABST	29	0846E	0908D	0848	S16	E59	.876	11402	3.8	22D	1N		P	0848	2.06	4.10		95	EK
MONT	29	0847	0903	0849	S14	E59	.873	11402	3.8	16	1N		C	0849	3.40				H
UCCL	29	0851E	0902		S09	E58	.857	11402	3.7	11D	2F		P	0851	2.77	5.50			EJT
ATHN	29	0902E	0907	0902	S14	E57	.856	11402	3.7	5D	-F	2	C		.50				D
MONT	29	0921E	0934	0924	S14	E58	.865	11402	3.7	13D	-N		C	0924	1.13				
GRP38768	29	0952	1006	0956	N17	W13	.329	11393	28.4	14	--N				.73				6 6 6 10
TEHR	29	0951	1004	0955	N19	W15	.374	11393	28.3	13	-N	5	C		.19				D
ABST	29	0951	1006	0957	N18	W15	.363	11393	28.3	15	-N		C	0957	1.79	1.90		71	EJ
CANR	29	0951	1007	0953	N18	W14	.352	11393	28.4	16	-N	2	C	0953	.43	.46			
ARCE	29	0952	1000D		N16	W13	.318	11393	28.4	8D	-F		C	0952	.57	.60			H
LOCA	29	0953	1006	0958	N15	W08	.253	11393	28.8	13	-N		V	0958	.85	.80			
CATA	29	0955E	1005D	0955	N17	W15	.352	11393	28.3	10D	-N		P	0955	.52	.56		190	
GRP38769	29	1042	1056	1048	S14	E56	.847	11402	3.6	14	--N				.36				4 4 4 8
TEHR	29	1040	1055	1045	S16	E55	.843	11402	3.6	15	-N	5	C		.19				D
RAMY	29	1042	1055	1046	S13	E56	.845	11402	3.6	13	-N	3	C		.52				D
CANR	29	1043	1055	1045	S13	E56	.845	11402	3.6	12	-N	2	C	1045	.22	.41			
ATHN	29	1054E	1058	1054	S14	E57	.856	11402	3.7	4D	-N	2	C		.50				D
GRP38771	29	1107	1134	1114	N17	W16	.363	11393	28.3	27	--N				.41				5 4 4 8
RAMY	29	1043	1112	1048	N15	W13	.306	11393	28.5	29	-F	3	C		.72				D
ATHN	29	1104	1134	1112	N17	W18	.387	11393	28.1	30	-N	3	C		.33				D
CATA	29	1105	1225D	1115	N18	W16	.374	11393	28.3	80D	-B		P	1115	.75	.82		204	T
CATA	29	1105	1225D	1105	N14	W14	.307	11393	28.4	80D	-N		P	1105	.80	.85		178	TZ
TEHR	29	1113	1133	1115	N18	W15	.363	11393	28.3	20	-N	5	C		.09				
UCCL	29	1120E	1120D		N16	W17	.365	11393	28.2		-N		P	1120	.46	.60			D

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38772	29	1119	1133	1122	S13	E55	.836	11402	3.6	14	-N				.62				6 6 6 9
ATHN	29	1116	1133	1119	S14	E58	.865	11402	3.8	17	-N	3	C		.50				D
TEHR	29	1118	1131	1121	S15	E52	.813	11402	3.4	13	-N	5	C		.19				D
RAMY	29	1119	1132	1122	S13	E55	.836	11402	3.6	13	-N	3	C		.72				D
CATA	29	1120	1140	1125	S15	E54	.832	11402	3.5	20	-N		C	1125	1.04	1.92		162	
UCCL	29	1120E	1120D		S08	E56	.837	11402	3.7		-N		P	1120	.92	1.80			DJT
CANR	29	1120	1130	1123	S14	E55	.839	11402	3.6	10	-N	2	C	1123	.32	.59			
GRP38773	29	1231	1254	1236	N18	W15	.363	11393	28.4	23	-N				1.12				7 7 7 7
CANR	29	1229	1250	1235	N17	W16	.363	11393	28.3	21	-B	2	C	1235	.86	.92			
BOUL	29	1229U	1244U	1231U	N19	W16	.385	11393	28.3	15D	-F	2	C	1231	.43	.46			
TEHR	29	1230	1248	1233	N19	W16	.385	11393	28.3	18	-N	4	C		.37				F
CAPS	29	1231E	1301D		N15	W10	.273	11393	28.8	30D	1B	1	S	1238	3.00	3.20		212	
RAMY	29	1231	1254	1236	N18	W16	.374	11393	28.3	23	-N	3	C		1.29				D
ATHN	29	1231	1249	1240	N16	W15	.341	11393	28.4	18	-N	3	C		.83				D
CATA	29	1235	1300	1240	N19	W16	.385	11393	28.3	25	-B		C	1240	1.09	1.20		245	E
GRP38780	29	1519	1539	1526	N14	W15	.320	11393	28.5	20	--N				.67				7 7 6 11
HUAN	29	1517	1545	1526	N14	W15	.320	11393	28.5	28	-N	1	C	1526	.48	.51			E
ZURI	29	1518	1534	1524	N14	W13	.295	11393	28.7	16	-N		C	1524	.84	.90			
CANR	29	1518	1537	1525	N13	W15	.311	11393	28.5	19	-N	2	C	1525	.32	.34			
BOUL	29	1518	1538U	1527	N14	W14	.307	11393	28.6	20D	-N	2	C	1527	.43	.45			
RAMY	29	1519	1537	1523	N13	W16	.324	11393	28.4	18	-F	2	C		.93				D
LOCK	29	1520	1540	1525	N14	W16	.333	11393	28.4	20	-N		C						
CATA	29	1520	1544	1530	N14	W16	.333	11393	28.4	24	-N		C	1530	1.04	1.10		191	T
GRP38781	29	1536	1610	1542	N18	W17	.386	11393	28.4	34	-B				1.00				9 9 8 10
MCMA	29	1532E	1613D		N18	W18	.397	11393	28.3	41D	-B		C	1546	.83	1.40			EH
BOUL	29	1534	1558	1541	N19	W18	.408	11393	28.3	24	-N	2	C	1541	.65	.70			
LOCK	29	1535	1610	1540	N17	W18	.387	11393	28.3	35	-B		C						H
HUAN	29	1535	1616	1542	N18	W17	.386	11393	28.4	41	-B	1	C	1542	.63	.68			E
ZURI	29	1536	1553D	1544	N18	W15	.363	11393	28.5	17D	-B		P	1544	1.22	1.30			
CANR	29	1537	1609	1542	N17	W18	.387	11393	28.3	32	-B	2	C	1542	.54	.58			
RAMY	29	1539	1615	1543	N18	W18	.397	11393	28.3	36	-N	3	C		1.44				D
CAPS	29	1540E	1553D	1543	N18	W15	.363	11393	28.5	13D	-B	3	P	1545	1.50	1.80		354	
CATA	29	1540	1610D	1544	N18	W18	.397	11393	28.3	30D	-B		C	1544	1.16	1.27		294	
GRP38782	29	1549	1606	1554	N07	E31	.518	11401	2.0	17	--N				.29				5 5 4 9
BOUL	29	1548	1605	1555	N07	E31	.518	11401	2.0	17	-N	2	C	1555	.22	.25			
LOCK	29	1549	1603	1553	N06	E31	.516	11401	2.0	14	-N		C						
HUAN	29	1549	1612	1553	N06	E30	.501	11401	1.9	23	-N	2	C	1553	.23	.26			E
RAMY	29	1550	1605	1554	N07	E30	.503	11401	1.9	15	-F	3	C		.41				D
MCMA	29	1552E	1605D		N07	E31	.518	11401	2.0	13D	-B		P	1552	.31	.40			DH
GRP38783	29	1641	1703	1645	S21	W71	.958	11382	24.4	22	--N				.20				4 4 3 7
CANR	29	1638	1656	1645	S21	W71	.958	11382	24.4	18	-N	2	C	1645	.11				
PALE	29	1639E	1705	1641	S22	W70	.954	11382	24.4	26D	-N	3	C		.27				
HUAN	29	1640	1712	1646	S21	W74	.971	11382	24.1	32	-N	1	C	1646	.21				D
BOUL	29	1645	1657	1649	S21	W70	.953	11382	24.4	12	-F	2	V						
GRP38788	29	1814	1825	1819	S13	E48	.768	11402	3.4	11	--N				.23				3 3 3 4
RAMY	29	1812	1822	1815	S13	E49	.778	11402	3.4	10	-F	3	C		.31				D
PALE	29	1814E	1825	1820	S12	E48	.765	11402	3.4	11D	-N	4	C		.27				
HUAN	29	1815	1827	1822	S13	E48	.768	11402	3.4	12	-N	1	C	1822	.12	.19			D
GRP38790	29	1853	1901	1857	N07	E29	.488	11401	2.0	8	--B				.17				2 2 2 5
MCMA	29	1852	1900	1856	N07	E30	.503	11401	2.0	8	-B		C	1856	.26	.30			DH
HUAN	29	1853	1901	1857	N07	E28	.473	11401	1.9	8	-N	1	C	1857	.07	.08			D
GRP38791	29	1901	1922	1914	S20	W73	.966	11382	24.3	21	--N				.27				3 3 2 6
CANR	29	1900	1911		S20	W70	.952	11382	24.5	11	-N	1	V			.50			
MCMA	29	1902	1922	1910	S21	W75	.974	11382	24.2	20	-N		C	1910	.26	1.40			D
PALE	29	1917E	1934	1917	S20	W74	.970	11382	24.3	17D	-F	2	C		.27				F
GRP38792	29	1952	2005	1956	N18	W19	.409	11393	28.4	13	--F				.52				2 2 1 5
LOCK	29	1950	2005	1955	N18	W19	.409	11393	28.4	15	-F		C						
RAMY	29	1954	2005	1957	N17	W19	.400	11393	28.4	11	-F	2	C		.52				D
5 STATIONS REPORTING GROUP 38794. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38794	29	2235	2303	2238	N17	W22	.438	11393	28.3	28	-B				2.17				3 3 2 3
LOCK	29	2235	2300	2238	N18	W22	.446	11393	28.3	25	-B		C						V
CULG	29	2235	2318	2237	N18	W22	.446	11393	28.3	43	1B		C	2237	3.30	3.42			DV
MANI	29	2237E	2250	2240	N15	W22	.422	11393	28.3	13D	-N	2		2240	1.03	1.12			
38794	29	2253	2318	2302	N19	W23	.467	11393	28.2	25	*-N				.45				2 2 1 4
PALE	29	2250E	2302D	2302	N19	W21	.443	11393	28.4	12D	-N	2	C		.45				F
BOUL	29	2255	2318		N19	W24	.479	11393	28.2	23	-N	3	V						

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OBSERVATORY	OBSERVED UT DATE 1971 JUN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP38796	30	0117	0313	0130	N13	W72	.950	11383	24.7	116	-N				1.29				3 3 2 5
LOCK	30	0115	0135D	0125	N12	W72	.950	11383	24.7	20D	-F		C						
CULG	30	0118	0313	0146	N12	W70	.939	11383	24.8	115	1B			0146	2.06				KU
MANI	30	0127E	0145	0135	N14	W75	.965	11383	24.4	18D	-N	2		0135	.52	1.20			
4 STATIONS REPORTING GROUP 38797. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38797	30	0118	0309	0204	N12	W71	.945	11383	24.7	111	-N				1.14				4 3 3 5
CULG	30	0118	0313	0205	N13	W70	.939	11383	24.8	115	1B		C	0205	1.86				
TEHR	30	0159E	0305	0205	N11	W70	.939	11383	24.8	66D	-N	3	C		1.00				UF
PALE	30	0202E	0207D	0202	N12	W73	.955	11383	24.6	5D	-F	1	C		.55				F
MANI	30	0220E	0231	0224	N14	W75	.965	11383	24.5	11D	-N	2		0224	.62	1.40			
799 CULG	30	0316	0355	0331	N17	W75	.965	11383	24.5	39	1N		C	0331	.93				R 4
800 TEHR	30	0325	0337	0327	S12	E42	.698	11402	3.3	12	--F	5	C		.28				D 4
GRP38802	30	0450	0458	0453	S12	E45	.732	11402	3.6	8	--F				.46				2 2 2 5
TEHR	30	0450	0458	0452	S12	E43	.710	11402	3.4	8	-N	4	C		.46				D
PALE	30	0452E	0457D	0453	S12	E46	.743	11402	3.7	5D	-F	1	C		.45				F
5 STATIONS REPORTING GROUP 38803. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38803	30	0654	0732	0707	N06	E26	.440	11401	2.2	38	--N				.49				3 3 3 6
CATA	30	0650	0920D	0705	N06	E25	.425	11401	2.2	150D	-N		C	0705	.69	.77		170	
ATHN	30	0654E	0730D	0708	N06	E27	.456	11401	2.3	36D	-N	2	C		.50				D
ATHN	30	0654E	0730D	0657	N06	E27	.456	11401	2.3	36D	-F	2	C		.33				
TEHR	30	0658	0732	0707	N06	E25	.425	11401	2.2	34	-N	4	C		.28				D
38803	30	0725	0822	0729	N07	E25	.427	11401	2.2	57	*1N				3.14				2 1 1 6
ABST	30	0725	0822D	0729	N06	E26	.440	11401	2.3	57D	1N		P	0729	3.14	3.40		82	FK
ISTA	30	0735	0740		N07	E23	.396	11401	2.0	5	-N								E
GRP38805	30	0938	0958	0943	S11	E48	.763	11402	4.0	20	--N				.44				2 2 2 4
TEHR	30	0937	1000	0942	S10	E46	.738	11402	3.9	23	-N	4	C		.55				D
CANR	30	0938	0956	0943	S11	E50	.784	11402	4.2	18	-N	2	C	0943	.32	.52			
GRP38808	30	1023	1049	1028	S11	E37	.633	11402	3.2	26	-N				.92				5 5 5 7
CAPS	30	1020E	1039D		S12	E41	.686	11402	3.5	19D	-B	1	P	1030	1.00	1.40		300	
CAPS	30	1020E	1039D		S10	E40	.667	11402	3.4	19D	-B	1	P	1030	1.00	1.40		300	
RAMY	30	1024	1045	1028	S13	E37	.642	11402	3.2	21	-N	1	C		.62				D
TEHR	30	1024	1052	1028	S12	E37	.638	11402	3.2	28	-N	4	C		.55				F
UCCL	30	1024	1031D	1024	S08	E36	.608	11402	3.1	7D	1F		P	1024	1.84	2.50			EJT
CATA	30	1025	1050	1030	S12	E36	.625	11402	3.1	25	-B		C	1030	.58	.75		214	
GRP38811	30	1239	1251	1242	N07	E19	.332	11401	2.0	12	--F				.58				4 4 4 5
MCMA	30	1234	1300	1242	N07	E22	.380	11401	2.2	26	-N		C	1242	.52	.60			EH
TEHR	30	1239	1247	1241	N07	E18	.316	11401	1.9	8	-F	4	C		.64				F
CATA	30	1240	1250	1240	N07	E18	.316	11401	1.9	10	-N		C	1240	.52	.55		174	
RAMY	30	1242	1247	1245	N07	E17	.300	11401	1.8	5	-F	3	C		.62				D
5 STATIONS REPORTING GROUP 38812. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38812	30	1314	1358	1321	N07	E22	.380	11401	2.2	44	--N				.71				4 4 4 6
MCMA	30	1307	1400	1319	N07	E22	.380	11401	2.2	53	-F		C	1319	.83	.90			EV
RAMY	30	1315	1352	1318	N07	E22	.380	11401	2.2	37	-N	3	C		.77				D
TEHR	30	1315	1356	1320	N06	E22	.377	11401	2.2	41	-N	4	C		.36				D
CATA	30	1320	1405D	1325	N06	E22	.377	11401	2.2	45D	-N		P	1325	.87	.94		174	
38812	30	1328	1351	1337	N07	E20	.348	11401	2.1	23	*-F				.52				2 2 1 7
BOUL	30	1322E	1352U		N06	E21	.361	11401	2.1	30D	-N	3	V						
RAMY	30	1334	1350	1337	N08	E18	.320	11401	1.9	16	-F	3	C		.52				D
812 TEHR	30	1323	1351	1328	N21	E26	.518	11401	2.5	28	*-N	4	C		.55				F 6
GRP38813	30	1324	1401	1332	N15	W36	.609	11393	27.9	37	--N				.51				5 5 4 7
CANR	30	1322	1349	1338	N14	W36	.606	11393	27.9	27	-N	2	C	1338	.43	.54			
RAMY	30	1325	1349	1328	N15	W36	.609	11393	27.9	24	-N	3	C		.67				D
MCMA	30	1325	1350	1329	N15	W36	.609	11393	27.9	25	-N		C	1329	.41	.50			E
CATA	30	1325	1405D	1330	N16	W36	.613	11393	27.9	40D	-B		P	1330	.52	.66		214	
BOUL	30	1325	1431U	1336D	N15	W35	.596	11393	27.9	66D	-N	3	V						
GRP38814	30	1427	1445	1431	N07	E19	.332	11401	2.0	18	--N				.44				4 4 3 9
LOCK	30	1425	1440	1430	N07	E17	.300	11401	1.9	15	-F		C						
MCMA	30	1425	1500	1430	N07	E22	.380	11401	2.3	35	-N		C	1430	.46	.50			EHK
RAMY	30	1427	1439	1429	N08	E18	.320	11401	2.0	12	-N	3	C		.41				D
CATA	30	1430	1440D	1435	N07	E17	.300	11401	1.9	10D	-N		P	1435	.46	.49		174	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38815	30	1446	1457	1449	N07	E18	.316	11401	2.0	11	--N				.34				5 5 3 8
MCMA	30	1425	1500	1449	N07	E22	.380	11401	2.3	35	-N								
LOCK	30	1443	1457	1447	N07	E17	.300	11401	1.9	14	-F		C						
RAMY	30	1446	1456	1448	N08	E18	.320	11401	2.0	10	-F	3	C		.31				D
HUAN	30	1446	1455	1449	N07	E17	.300	11401	1.9	9	-N	1	C	1449	.12	.13			D
CATA	30	1450	1455	1450	N07	E17	.300	11401	1.9	5	-N		C	1450	.58	.63		186	
GRP38817	30	1538	1545	1540	N18	W33	.584	11393	28.2	7	--F				.38				4 4 3 6
RAMY	30	1537	1546	1539	N18	W33	.584	11393	28.2	9	-F	3	C		.52				D
LOCK	30	1538	1546	1541	N18	W33	.584	11393	28.2	8	-N		C						
BOUL	30	1538	1545	1541	N19	W32	.577	11393	28.3	7	-F	2	C	1541	.32	.40			
MCMA	30	1539	1544	1540	N17	W34	.592	11393	28.1	5	-N		C	1540	.31	.40			D
GRP38818	30	1613	1636	1623	S13	W53	.818	11390	26.7	23	--F				.22				2 1 1 6
BOUL	30	1613	1636	1623	S13	W53	.818	11390	26.7	23	-F	2	C	1623	.22	.38			
RAMY	30	1615	1630	1618	S15	W65	.919	11390	25.8	15	-F	2	C		.52				D
GRP38819	30	1617	1630	1623	S13	E34	.605	11402	3.2	13	--F				.33				4 3 3 6
RAMY	30	1614	1634	1623	S13	E34	.605	11402	3.2	20	-F	3	C		.52				D
HUAN	30	1618	1628	1622	S13	E33	.593	11402	3.2	10	-N	1	C	1622	.07	.09			D
BOUL	30	1619	1633	1624	S11	E44	.718	11402	4.0	14	-F	3	V						
MCMA	30	1620	1628D		S12	E34	.600	11402	3.2	8D	-F		C	1622	.41	.50			E
GRP38821	30	1636	1647	1639	S13	E35	.618	11402	3.3	11	--N				.55				6 6 4 6
LOCK	30	1620	1646	1638	S13	E34	.605	11402	3.2	26	-N		C						
PALE	30	1635	1645	1638	S13	E33	.593	11402	3.2	10	-B	3	C		.63				F
HUAN	30	1635	1645	1640	S13	E33	.593	11402	3.2	10	-B	1	C	1640	.23	.29			E
MCMA	30	1637	1646	1639	S12	E34	.600	11402	3.2	9	-N		C	1639	.62	.80			E
RAMY	30	1637	1650	1639	S13	E34	.605	11402	3.2	13	-N	3	C		.72				D
BOUL	30	1637	1650	1641	S11	E44	.718	11402	4.0	13	-F	3	V						
BOUL	30	1650	1701	1651	S14	E38	.659	11402	3.6	11	-F	3	V						
GRP38823	30	1723	1732	1725	N18	W34	.597	11393	28.2	9	--F				.34				3 2 2 6
BOUL	30	1714	1722	1716	N17	W22	.437	11393	29.1	8	-F	3	V						
PALE	30	1722	1731D	1725	N17	W33	.579	11393	28.2	9D	-F	2	C		.27				
RAMY	30	1723	1732	1724	N18	W34	.597	11393	28.2	9	-F	3	C		.41				D
GRP38825	30	1753	1803	1756	S13	E34	.605	11402	3.3	10	--N				.36				5 5 4 6
LOCK	30	1753	1804	1757	S13	E34	.605	11402	3.3	11	-N		C						
RAMY	30	1753	1802	1755	S12	E34	.600	11402	3.3	9	-N	2	C		.41				D
HUAN	30	1753	1802	1757	S13	E33	.593	11402	3.2	9	-N	1	C	1757	.15	.19			D
PALE	30	1754	1803	1756	S13	E33	.593	11402	3.2	9	-N	2	C		.36				
MCMA	30	1754	1801D		S12	E34	.600	11402	3.3	7D	-N		C	1759	.52	.70			E
GRP38827	30	1847	1858	1850	S09	E45	.724	11402	4.2	11	--F				.22				5 5 4 5
HUAN	30	1846	1858	1850U	S09	E45	.724	11402	4.2	12	-N	1	C	1850	.10	.15			D
LOCK	30	1847	1855	1851	S11	E45	.729	11402	4.2	8	-F		C						
MCMA	30	1848	1857	1851	S08	E45	.721	11402	4.2	9	-N		C	1851	.26	.40			DH
PALE	30	1848E	1859	1848	S09	E45	.724	11402	4.2	11D	-F	2	C		.19				
RAMY	30	1851E	1900	1851	S10	E47	.749	11402	4.3	9D	-F	3	C		.31				DH
GRP38828	30	1947	2000	1954	N15	W33	.570	11393	28.3	13	--F				.45				2 2 1 4
LOCK	30	1947	2000	1954	N15	W34	.583	11393	28.3	13	-F		C						
PALE	30	1951E	1959	1954	N14	W32	.553	11393	28.4	8D	-F	2	C		.45				F
GRP38829	30	2029	2043	2034	S15	E29	.556	11402	3.0	14	--N				.43				3 3 2 3
LOCK	30	2028	2041	2034	S15	E31	.580	11402	3.2	13	-F		C						
PALE	30	2028	2044	2033	S15	E29	.556	11402	3.0	16	-N	2	C		.45				F
MCMA	30	2031	2044	2036	S15	E28	.543	11402	3.0	13	-N		C	2036	.41	.50			E
GRP38830	30	2035	2046	2038	N15	W36	.609	11393	28.2	11	--F				.44				3 2 2 3
LOCK	30	2016	2043	2020	N15	W32	.557	11393	28.4	27	-F		C						
PALE	30	2033	2046	2036	N14	W33	.566	11393	28.4	13	-F	2	C		.36				F
MCMA	30	2036	2044D	2040	N15	W38	.635	11393	28.0	8D	-N		C	2040	.52	.70			E
GRP38831	30	2143	2200	2149	N17	W34	.592	11393	28.4	17	-B				.93				2 2 1 3
LOCK	30	2143	2200	2149	N17	W35	.605	11393	28.3	17	-N		C						
PALE	30	2149E	2152D	2149	N16	W32	.562	11393	28.5	3D	-B	3	C		.93				F
GRP38832	30	2215	2240	2226	N17	W35	.605	11393	28.3	25	--F				.36				2 2 1 3
LOCK	30	2215	2240	2225	N17	W35	.605	11393	28.3	25	-F		C						
PALE	30	2226E	2238D	2226	N16	W34	.588	11393	28.4	12D	-N	2	C		.36				F
833 LOCK	30	2332	2340	2335	N17	W43	.702	11393	27.8	8	--F		C						3
GRP38834	30	2345	2357	2348	S13	E28	.529	11402	3.1	12	--N				.52				2 2 1 4
LOCK	30	2340	0000	2344	S09	E31	.545	11402	3.3	20	-N		C						
LOCK	30	2349	2357	2352	S15	E27	.531	11402	3.0	8	-F		C						
MANI	30	2350	2356	2351	S13	E27	.516	11402	3.0	6	-N	2		2351	.52	.61			

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"Remarks":

A = Eruptive prominence, base at >90°.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No spots visible in the neighborhood.
H = Flare with high velocity dark surge.
I = Very extensive active region.
J = Plage with flare shows marked intensity variations.
K = Several intensity maxima.
L = Filaments show effects of sudden activation.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H or K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line.
S = Brightening follows disappearance of filament (same position).
T = Region active all day.
U = Close and somewhat parallel bright filaments (|| or Y shape).
V = Occurrence of an explosive phase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα 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 nor are these subflares included in the Flare Index below.

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
710602	0.00	23.9	710614	1.07	24.0	710623	6.79	24.0
710603	21.28	23.8	710615	2.04	24.0	710624	24.81	24.0
710606	2.59	24.0	710616	0.00	20.5	710625	19.26	24.0
710608	4.27	24.0	710617	3.64	24.0	710626	6.37	24.0
710609	0.00	23.9	710618	2.74	24.0	710627	1.91	24.0
710610	0.00	23.8	710619	1.07	24.0	710628	58.23	24.0
710612	2.51	23.9	710620	9.81	24.0	710629	73.37	24.0
710613	2.44	24.0	710622	31.69	23.9	710630	29.24	24.0

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

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
407 MEUD	01	0939	0945	0941	S03	E85	.996	11352	7.8	6	-F			0941	.31				D 6
408 UCCL	01	1033	1045	1036	N30	E90	1.000	11373	8.2	12	1N		C	1036	.92				AD 8
409 MEUD	01	1035	1038	1036	S03	E85	.996	11352	7.8	3	-F			1036	.41				D 7
410 HUAN	01	1434	1445	1441	N07	E66	.916	11351	6.6	11	-N	1	C	1441	.28				8
411 HUAN	01	1602	1622	1613	N03	E67	.921	11352	6.7	20	-N	1	C	1613	.15				D 6
415 ATHN	02	0528E	0545	0529	N17	E13	.370	11344	3.2	17D	-F	3	C		.66				D 7
GRP38416	02	1340	1409	1351	N09	W64	.902	11338	28.8	29	-F				.35				2 2 2 8
HUAN	02	1340	1412	1351	N08	W65	.909	11338	28.7	32	-F	1	C	1351	.30	.68			D
CATA	02	1350E	1405	1350	N09	W63	.895	11338	28.9	15D	-N		P	1350	.40	.93		170	
418 HUAN	02	1418	1435	1421	N05	E48	.746	11351	6.2	17	-N	1	C	1421	.15	.23			D 8
419 PALE	02	2052E	2135	2112	N01	E47	.732	11352	6.4	43D	-N	2	C		.72				SF 4
421 ATHN	03	0429	0436	0431	S07	E73	.957	11358	8.7	7	-N	3	C		.17				D 4
422 ABST	03	0751	0810D	0754	N10	W75	.967	11338	28.7	19D	-F		P	0754	.45			60	DJZ 11
423 ATHN	03	0756	0812	0758	N07	E42	.676	11351	6.5	16	-F	3	C		.33				D 11
424 ATHN	03	0825	0834	0828	N08	W80	.985	11338	28.4	9	-F	3	C		.50				D 7
GRP38425	03	1417	1438	1428	N10	W55	.826	11338	30.5	21	-F				.25				2 1 1 9
BOUL	03	1417	1438	1428	N10	W55	.826	11338	30.5	21	-F	3	V						
HUAN	03	1419E	1437	1424U	N10	W70	.942	11338	29.3	18D	-F	1	P	1424	.25				D
429 BOUL	03	2045	2053	2046	N03	E37	.604	11352	6.6	8	-F	2	V						3
430 HUAN	03	2055E	2100D	2058U	N03	E35	.576	11352	6.5	5D	-N	1	P	2058	.30	.37			E 5
433 ATHN	04	0704	0715	0707	N10	W24	.439	11344	2.5	11	-F	2	C		.33				D 7
435 ARCE	04	0950	0957	0951	N08	E24	.428	11351	6.2	7	-N		C	0951	.86	1.00			H 6
436 ATHN	04	1201	1215	1204	S05	E33	.549	11352	7.0	14	-F	2	C		.17				D 8
438 ABST	05	0436E	0449D	0445	N28	W85	.997	11361	29.8	13D	1F		P	0445	1.62				AD 6
439 CAPF	05	0652E	0705D		N09	W83	.993	11338	30.1	13D	1N		P	0655	.83				5
440 ISTA	05	0730	1000		N27	W77	.980	11361	30.5	150	-B								6
441 CATA	05	1440	1450	1445	N28	W90	1.000	11361	29.9	10	-F		C	1445	.34			144	9
442 ATHN	05	1518	1533	1521	S06	E36	.593	11358	8.3	15	-F	3	C		.33				D 6
443 CANR	06	1038	1038D		N09	W52	.794	11344	2.5		-F	3	V			.80			3
445 ATHN	06	1309	1317	1312	S06	E24	.417	11358	8.3	8	-N	3	C		.33				D 5
446 ATHN	06	1342	1355	1346	S06	E24	.417	11358	8.4	13	-N	3	C		.17				D 6
447 ATHN	07	0946	0957	0947	S08	E11	.235	11358	8.2	11	-F	3	C		.17				D 9
448 ATHN	07	0955	1016	1000	N10	W67	.923	11344	2.4	21	-N	2	C		.66				D 9
452 VORO	07	2050E	2152		S00	W21	.358	11352	6.3	62D	-B		P	2129	.74	.80		77	DJK 4
454 PALE	07	2108E	2116	2109	S06	E10	.202	11358	8.6	8D	-F	3	C		.27				F 7
456 PALE	08	0239	0248	0240	S07	E01	.126	11358	8.2	9	-F	3	C		.26				5
457 UCCL	08	0940	1001D	0955	N05	W27	.460	11351	6.4	21D	-F		P	0955	1.10	1.30			DJT 5
GRP38459	08	1340	1415	1344	N17	W26	.510	11369	6.6	35	-F				.50				2 2 2 11
HUAN	08	1337	1348	1343	N16	W26	.502	11369	6.6	11	-F	2	C	1343	.66	.76			E
ATHN	08	1342	1441	1345	N18	W26	.518	11369	6.6	59	-F	3	C		.33				D
GRP38460	08	1352	1410	1355	S03	W19	.330	11352	7.2	18	-F				.23				2 2 2 9
HUAN	08	1351	1411	1355	S05	W17	.305	11352	7.3	20	-N	2	C	1355	.12	.13			D
ATHN	08	1352	1408	1355	S02	W19	.328	11352	7.2	16	-F	3	C		.33				D
ATHN	08	1410	1439	1413	S01	W24	.407	11352	6.8	29	-F	3	C		.50				D

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
462 HUAN	08	2141E	2153	2146	S04	W24	.412	11352	7.1	12D	-N	1	P	2146	.33	.36			7
463 LOCK	08	2202	2206D	2206	S04	W06	.127	11358	8.5	4D	-F		C						6
465 MANI	08	2325E	2328	2325	N05	W48	.745	11360	5.4	3D	-N	2		2325	.31	.46			4
466 MANI	09	0021	0031	0025	N15	W33	.585	11369	6.5	10	-N	2		0025	.31	.38			4
467 ATHN	09	0910	0927	0911	S04	W11	.204	11358	8.6	17	-F	3	C		.17				D 6
468 ATHN	09	1254	1309	1258	S05	W14	.258	11358	8.5	15	-F	3	C		.33				D 10
469 ATHN	10	0711	0725	0716	S11	W26	.473	11358	8.3	14	-F	3	C		.33				DH 7
470 CATA	10	0825	0840	0830	S09	W27	.477	11358	8.3	15	-N		C	0830	.29	.33		159	8
471 CANR	10	1004	1018		S01	W50	.766	11352	6.7	14	-F	2	V			.80			5
472 CANR	10	1050	1057		S08	W29	.502	11358	8.3	7	-F	2	V			.60			8
473 CANR	10	1132	1150		S08	W30	.516	11358	8.2	18	-F	2	V			.30			8
474 CATA	10	1235	1245D	1235	S07	W30	.512	11358	8.3	10D	-N		P	1235	.29	.34		151	8
476 TEHR	11	0550E	0607	U	N15	E18	.390	11371	12.6	17D	-F	3	C						D 9
477 RAMY	11	1223	1239	1226	S06	W38	.622	11358	8.7	16	-F	3	C		.52				D 10
478 BOUL	11	1226	1233	1228	S06	E14	.266	11366	12.6	7	-F	3	V						10
479 RAMY	11	1320	1336	1325	S07	W38	.625	11358	8.7	16	-F	3	C		.46				D 9
480 RAMY	11	1700	1716	1704	N16	E12	.334	11371	12.6	16	-F	2	C		.37				D 5
481 HUAN	11	1722	1735	1729	N15	E12	.321	11371	12.6	13	-N	1	P	1729	.40	.43			E 5
482 HUAN	11	1740E	1931D	1810U	N15	E12	.321	11371	12.6	111D	-N	1	P	1810	.35	.37			E 3
483 PALE	11	2318	2331	2319	S08	W47	.739	11358	8.4	13	-F	2	C		.27				F 4
486 ATHN	12	0537	0600	0542	S07	W56	.833	11358	8.0	23	-F	2	C		.17				D 6
487 ATHN	12	0640	0701	0643	S01	W76	.970	11352	6.6	21	-N	3	C		.17				D 5
GRP38488	12	0712	0719	0714	S02	W71	.946	11352	7.0	7	-N				.50				2 2 1 9
ATHN	12	0711	0719	0714	S02	W75	.966	11352	6.7	8	-N	3	C		.33				D
ATHN	12	0714	0726	0718	S02	W68	.927	11352	7.2	12	-N	3	C		.17				D
CRON	12	0716E	0719		S02	W70	.940	11352	7.1	3D	-N	3	V						
489 ATHN	12	0848	0904	0851	S07	W52	.793	11358	8.5	16	-F	3	C		.33				D 6
491 ATHN	12	1213	1228	1220	S01	W79	.982	11352	6.6	15	-F	3	C		.17				D 7
492 ATHN	12	1230	1243	1232	S03	W76	.971	11352	6.8	13	-N	3	C		.17				D 6
493 ATHN	12	1631	1650D	1633	S03	W77	.975	11352	6.9	19D	-F	1	C		.17				D 9
495 ABST	13	0410	0424	0416	S12	W88	1.000	11367	6.6	14	1N		C	0416	1.26			74	DGJ 5
497 ABST	13	0508	0526	0511	S12	W88	1.000	11367	6.6	18	1N		C	0511	1.18			78	DGJ 6
498 ABST	13	0552	0604	0558	S12	W88	1.000	11367	6.6	12	1F		C	0558	1.18			65	DGJ 7
GRP38499	13	0556	0705	0602	N17	W90	1.000	11369	6.5	69	-F				.65				2 2 2 10
CATA	13	0555	0705D	0600	N14	W90	1.000	11369	6.5	70D	-F		P	0600	.40			141	
ABST	13	0557	0624D	0603	N19	W90	1.000	11369	6.5	27D	1N		P	0603	.90			76	ADG
500 ISTA	13	0746	0815		N15	W90	1.000	11369	6.6	29	-F								8
501 ATHN	13	1350	1405	1354	N20	W90	1.000	11369	6.8	15	-N	3	C						D 7
GRP38502	13	1836	1841	1837	N15	W61	.882	11373	9.2	5	-F				.15				2 2 1 8
HUAN	13	1835	1841	1837	N14	W62	.889	11373	9.1	6	-F	1	C	1837	.15	.33			D
CANR	13	1836	1841		N15	W60	.874	11373	9.3	5	-F	2	V			.50			
504 HUAN	13	2029	2040	2034	N13	W17	.355	11371	12.6	11	-F	2	C	2034	.21	.22			D 5

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP38505	14	0032	0105	0053	N13	W66	.917	11373	9.1	33	-F				.41				2 2 1 7
MANI	14	0032E	0106	0053	N12	W66	.916	11373	9.1	34D	-N	2		0053	.41	.84			
CRON	14	0055E	0103		N13	W66	.917	11373	9.1	8D	-F	3	V						
506 CRON	14	0131E	0136		N13	W66	.917	11373	9.1	5D	-F	3	V						6
507 TEHR	14	0235E	0250	U	N13	W67	.923	11373	9.1	15D	-N	3	C						D 4
508 ATHN	14	0524	0531	0528	S14	W01	.257	11374	14.1	7	-F	3	C		.33				D 7
509 ABST	14	0527E	0544D	0531	N14	W71	.948	11373	8.9	17D	1F		P	0531	1.44			65	EZ 7
510 ABST	14	0627	0653	0631	N14	W71	.948	11373	8.9	26	1F		C	0631	1.53			60	EZ 8
511 ATHN	14	0920E	0927	0922	S12	W03	.229	11374	14.2	7D	-N	3	C		.50				D 11
512 TEHR	14	0949E	1008	U	S13	E01	.240	11374	14.5	19D	-N	3	C						F 12
513 ATHN	14	1058	1115	1101	S14	W04	.266	11374	14.2	17	-F	3	C		.66				D 10
514 TEHR	14	1147E	1200	U	S13	W03	.245	11374	14.3	13D	-F	3	C						F 11
515 TEHR	14	1220	1227	1223	S13	W04	.249	11374	14.2	7	-F	3	C						D 13
516 ATHN	14	1436	1446	1442	N14	W75	.967	11373	9.0	10	-N	3	C		.10				D 14
520 HUAN	14	1737	1753	1743	S13	W09	.284	11374	14.1	16	-N	1	C	1743	.25	.26			D 5
523 ATHN	15	0625	0637	0627	N12	W85	.996	11373	8.9	12	-F	3	C		.17				D 6
525 CANR	15	0811	0832	0818U	N13	W82	.990	11373	9.2	21	-F	2	C	0818	.11				9
526 ARCE	15	0855E	0915D		N13	W90	1.000	11373	8.6	20D	-N		C	0855	.29	1.60			9
528 CANR	15	1418	1435		S00	W13	.226	11374	14.6	17	-N	2	V			.70			11
529 BOUL	15	1504	1524	1514	N23	W56	.853	11364	11.4	20	-F	1	C	1514	.11	.20			7
530 BOUL	15	1736E	1743D	1741	N23	W59	.877	11364	11.3	7D	-F	1	C	1741	.11	.23			4
531 ATHN	16	0728	0733	0732	S05	E80	.985	11375	22.3	5	-F	3	C		.17				D 7
533 ATHN	17	0343	0417	0353	S15	W45	.736	11374	13.8	34	-N	1	C		.66				D 5
534 ABST	17	0427	0559D	0451	S15	W44	.725	11374	13.9	92D	1F		P	0451	1.80	2.60		56	EJZ 7
4 STATIONS REPORTING GROUP 38538. 5 STATIONS OBSERVING AND NOT REPORTING.																			
GRP38538	17	1641	1716	1647	S07	E02	.147	11377	17.8	35	-F				.45				2 2 2 8
HUAN	17	1641	1716	1647	S07	E03	.152	11377	17.9	35	-N	1	C	1647	.18	.18			E
PALE	17	1645E	1651D	1646	S06	E01	.127	11377	17.8	6D	-F	3	C		.72				F
38538	17	1607	1646	1610	S07	E03	.152	11377	17.9	39	*-F				.93				2 1 1 8
RAMY	17	1607	1646	1610	S07	E03	.152	11377	17.9	39	-F	2	C		.93				D
ZURI	17	1631E	1636D	1636	S07	E03	.152	11377	17.9	5D	-N		P	1636	.84	.80			
540 PALE	17	1827	1838	1832	S06	E01	.127	11377	17.8	11	-F	3	C		.81				F 6
542 CATA	18	0530E	0540	0535	N11	E90	1.000	11383	25.0	10D	1F		P	0535	.75			138	7
543 TEHR	18	0600	0614	0603	S07	W06	.178	11377	17.8	14	-F	3	C		.19				D 6
544 ATHN	18	0641	0700	0644	S19	E79	.985	11382	24.2	19	-F	3	C		.17				D 4
546 ATHN	18	0824	0831	0826	N08	E90	1.000	11383	25.1	7	-N	3	C		.17				D 7
547 ATHN	18	0834	0847	0836	S19	E79	.985	11382	24.3	13	-F	3	C		.17				D 7
548 ATHN	18	0922	0936	0924	N09	E90	1.000	11383	25.1	14	-F	3	C		.17				D 7
GRP38549	18	1312	1326	1314	N10	E87	.998	11383	25.1	14	-N				.17				2 2 1 9
ATHN	18	1312	1330	1314	N09	E88	.999	11383	25.1	18	-N	3	C		.17				D
CANR	18	1318	1322		N10	E85	.996	11383	24.9	4	-N	3	V			.70			
GRP38550	18	1427	1446	1432	S07	E28	.487	11375	20.7	19	-F				.23				2 2 2 8
RAMY	18	1426	1450	1432	S06	E28	.483	11375	20.7	24	-F	2	C		.28				D
HUAN	18	1427	1441	1432	S08	E27	.477	11375	20.6	14	-F	1	C	1432	.18	.20			D
554 RAMY	18	1859E	1915D	U	N13	W87	.998	11371	12.3	16D	-F	2	C						D 5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
555 RAMY	18	1958	2009	2001	N13	E81	.987	11383	24.9	11	-F	2	C						D 4
557 ATHN	19	0831	0843	0832	N27	E90	1.000	11403	26.1	12	-N	3	C						D 8
560 ATHN	19	1149	1158	1152	N08	E70	.940	11383	24.7	9	-F	3	C		.17				D 8
561 ATHN	19	1427	1434	1428	N12	W71	.946	11380	14.3	7	-F	3	C		.17				D 8
562 ABST	20	0546E	0607D	0551	N11	E64	.900	11383	25.0	21D	1F		P	0551	.99			68	DJ 4
564 CANR	20	0949	1002		S14	W80	.987	11374	14.4	13	-F	2	V			.40			9
567 ABST	20	1120	1126	1124	N09	E61	.876	11383	25.0	6	-F		C	1124	.99	1.90		65	DJ 4
570 ATHN	20	1414E	1426	1418	S21	E49	.798	11382	24.3	12D	-N	2	C		.66				D 8
571 TEHR	20	1421	1512	1437	N12	E58	.852	11383	24.9	51	-F	3	C		.13				D 8
572 RAMY	20	1650	1702	1652	N11	E57	.842	11383	25.0	12	-F	1	C		.52				D 5
575 ATHN	21	0538	0553	0540	S11	W51	.791	11377	17.4	15	-N	2	C		.17				D 5
576 CATA	21	0555	0655	0555	S13	W54	.825	11377	17.2	60	-N		C	0555	.69	1.21		170	5
577 ATHN	21	0559	0608	0601	N14	E48	.755	11383	24.8	9	-F	2	C		.17				D 5
579 MONT	21	0740	0745	0742	S12	W51	.793	11377	17.5	5	-F		C	0742	.21				7
580 ATHN	21	0840	0847	0842	N10	E48	.748	11383	25.0	7	-F	2	C		.33				D 6
GRP38581	21	1200	1222	1202	S12	W57	.850	11377	17.2	22	-N				.17				2 1 1 10
ATHN	21	1200	1217	1202	S12	W58	.859	11377	17.1	17	-N	2	C		.17				D
CANR	21	1208	1227		S11	W56	.840	11377	17.3	19	-F	2	V			.40			
583 ATHN	21	1345	1356	1351	N08	E40	.647	11383	24.6	11	-F	2	C		.33				D 9
584 LOCK	21	1450	1640	1540	N13	E82	.990	11393	27.8	110	-F		C						9
586 BOUL	22	0040E	0107		S11	W69	.938	11377	16.9	27D	-N	1	V						5
592 TEHR	22	0955	1015	0958	S06	W62	.886	11377	17.8	20	-N	3	C		.28				FS 7
593 TEHR	22	1020	1056	1024	N13	E88	.999	11393	29.0	36	-F	3	C		.19				D 6
594 TEHR	22	1042	1054	1043	S12	W70	.945	11377	17.2	12	-F	3	C		.19				F 7
595 ATHN	22	1418	1434	1422	S11	W71	.950	11377	17.3	16	-N	3	C		.33				D 6
596 ARCE	22	1451E	1510D		N13	E85	.996	11393	29.0	19D	-F		P	1451	.15	.60			9
597 MCMA	22	1534	1548	1541	N15	E85	.996	11393	29.0	14	-F		C	1541					D 9
598 ZURI	22	1638	1704D	1644	S11	W74	.964	11377	17.1	26D	-N		P	1644	.69				8
599 PALE	22	1823	1842	1828	N12	E28	.493	11383	24.9	19	-F	2	C		.45				F 4
600 MCMA	22	2025	2035	2028	S15	W75	.970	11377	17.2	10	-F		C	2028					D 5
601 MCMA	22	2120	2152	2130	S13	W77	.977	11377	17.1	32	-N		C	2130					D 4
607 BOUL	23	0144E	0205U		N10	E06	.174	11388	23.5	21D	-F	1	V						3
609 ABST	23	0401E	0456D	0414	S11	W85	.997	11377	16.8	55D	1N		P	0414	1.18			92	AEJ 6
611 TEHR	23	0625	0647	0629	N03	W21	.358	11375	21.7	22	-F	3	C		.19				D 9
GRP38613	23	0906	1000	0914	N16	E20	.410	11383	24.9	54	-F				.35				2 2 2 10
ATHN	23	0858	0933	0906	N15	E19	.388	11383	24.8	35	-F	3	C		.33				D
TEHR	23	0914	0959	0922	N17	E21	.431	11383	25.0	45	-N	3	C		.36				FR
ATHN	23	0946	1000	0950	N15	E19	.388	11383	24.8	14	-F	3	C		.33				D
614 ABST	23	0916E	0925D	0919	S11	W85	.997	11377	17.0	9D	1F		P	0919	.90			76	ADJ 12
GRP38615	23	1005	1145		S12	W88	1.000	11377	16.8	100	-B								2 2 0 12
ISTA	23	1005	1145		S12	W89	1.000	11377	16.7	100	-B								
CANR	23	1121	1127		S11	W86	.998	11377	17.0	6	-N	1	V			.30			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
GRP38616	23	1242	1310	1248	S21	E13	.442	11382	24.5	28	-F				.25				2 2 2 11
TEHR	23	1239	1309	1251	S19	E12	.407	11382	24.4	30	-N	3	C		.19				D
RAMY	23	1244	1310	1245	S22	E14	.463	11382	24.6	26	-F	3	C		.31				D
618 HUAN	23	1948	1956D	1953	S22	E07	.421	11382	24.3	8D	-N	1	P	1953	.25	.27			E 5
621 BOUL	24	0146	0200U	0149	S21	W09	.418	11382	23.4	14D	-N	1	V						4
622 ATHN	24	0427	0502	0434	S10	W90	1.000	11377	17.4	35	-N	2	C						D 4
GRP38624	24	0527	0540	0533	S10	W90	1.000	11377	17.5	13	1B				1.23				2 2 2 8
ABST	24	0524	0538	0532	S06	W90	1.000	11377	17.5	14	1B		C	0532	1.53			76	AE
CATA	24	0530	0542	0533	S13	W90	1.000	11377	17.5	12	1B		C	0533	.93			257	
625 ATHN	24	0618	0622D	0620	N15	E58	.854	11393	28.6	4D	-F	2	C		.17				D 10
627 UCCL	24	0823	0824	0823	S20	E05	.384	11382	24.7	1	-F		C	0823	.92	1.10			DJT 12
628 UCCL	24	0832	0835	0832	S20	E05	.384	11382	24.7	3	-F		C	0832	.92	1.10			DJT 12
629 UCCL	24	0840	0844	0842	S12	E25	.478	11390	26.2	4	-F		C	0842	.92	1.10			DJT 11
630 MONT	24	0906	0916	0909	N15	E56	.836	11393	28.6	10	-N		C	0909	.72				10
632 CANR	24	1144U	1154U	1147U	S20	W03	.379	11382	24.3	10D	-F	1	C	1147	.32	.35			10
GRP38633	24	1318	1322	1320	N15	E53	.807	11393	28.5	4	-B				.52				2 2 2 10
MONT	24	1318	1321	1319	N15	E54	.817	11393	28.6	3	-N		C	1319	.72				
MCMA	24	1318	1322	1320	N15	E52	.797	11393	28.5	4	-B		C	1320	.31	.50			D
634 UCCL	24	1331	1333	1331	S21	E01	.392	11382	24.6	2	-N		C	1331	.92	1.10			DJT 11
640 LOCK	25	0036	0100	0040	S20	W10	.411	11382	24.3	24	-F		C						4
643 ATHN	25	0457	0515	0500	N15	E35	.599	11393	27.8	18	-N	3	C		.17				D 6
644 CRON	25	0533E	0538		S21	W11	.431	11382	24.4	5D	-F	3	V						9
646 CATA	25	0700	0710	0700	S17	E09	.360	11390	26.0	10	-N		C	0700	.58	.62		186	8
647 MONT	25	0701	0704D	0703	N15	E35	.599	11393	27.9	3D	-N		C	0703	1.13				8
648 MONT	25	0716	0719	0717	N15	E35	.599	11393	27.9	3	-N		C	0717	.52				9
651 CANR	25	0940	0948	0941	N12	E45	.715	11393	28.8	8	-F	3	V	0941		.40			9
652 CATA	25	0955	1000	0955	N16	E31	.552	11393	27.7	5	-N		C	0955	.52	.63		191	T 8
653 CAPF	25	1010E	1040D		N15	E61	.878	11399	30.0	30D	-N		P	1015	1.44	1.96			9
654 CATA	25	1110	1155	1120	S06	E90	1.000	11402	2.2	45	1N		C	1120	.63			155	8
GRP38657	25	1325	1347	1332	S07	E90	1.000	11402	2.3	22	-F								2 2 0 8
BOUL	25	1323	1346	1331	S06	E90	1.000	11402	2.3	23	-F	3	V						
ATHN	25	1327	1348	1333	S07	E90	1.000	11402	2.3	21	-N	3	C						D
660 CAPF	25	1630E	1650D		S09	E86	.998	11402	2.1	20D	1N		P	1635	.83				A 8
662 BOUL	25	1706	1713	1707	N17	E39	.657	11393	28.6	7	-F	3	V						6
663 LOCK	25	1901	1915	1905	S16	W01	.312	11390	25.7	14	-F		C						6
666 BOUL	25	2157	2210	2200U	N13	E36	.605	11393	28.6	13	-N	2	V						4
667 MITK	26	0127	0138	0128	S03	E90	1.000	11402	2.8	11	1B		C	0128	.83				H 3
GRP38668	26	0437	0508	0446	N13	W19	.369	11383	24.8	31	1F				3.15				1 1 1 6
ABST	26	0437E	0508D	0446	N12	W16	.319	11383	25.0	31D	-F		P	0446	.90	.90			EJ
ABST	26	0437E	0508D	0446	N15	W22	.425	11383	24.5	31D	1F		P	0446	2.25	2.50			EJK
669 CULG	26	0550	0558	0552	S07	E89	1.000	11402	2.9	8	1N		C	0552	.52				5
670 ABST	26	0621E	0758D	0632	S07	E89	1.000	11402	2.9	97D	1F		P	0632	1.35				ADZ 7
672 ATHN	26	0737	0745	0739	N18	E08	.302	11403	26.9	8	-F	3	C		.17				D 7
673 ISTA	26	0935	0940		N15	E19	.385	11393	27.8	5	-N								D 5
678 RAMY	26	1423	1430	1425	S04	E85	.996	11402	3.0	7	-N	3	C						F 7

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
679 RAMY	26	1509	1515	1511	S04	E85	.996	11402	3.0	6	-F	3	C						D 7
680 RAMY	26	1705	1710	1706	S23	W35	.675	11382	24.1	5	-F	3	C		.31				D 5
684 HUAN	26	2059	2130D	2128U	S13	E90	1.000	11402	3.6	31D	-N	2	P	2128	.21				4
685 BOUL	26	2131E	2137D	2131U	S08	E78	.980	11402	2.7	6D	-N	2	C	2131	.22				4
686 CRON	27	0149E	0152D		S08	E75	.968	11402	2.7	3D	-F	2	V						6
688 TEHR	27	0252E	0301	U	S09	E76	.973	11402	2.8	9D	-N	3	C						D 6
689 TEHR	27	0252E	0305	U	S12	E87	.999	11402	3.6	13D	-N	3	C						D 6
GRP38691	27	0402	0413	0406	N13	E19	.368	11393	28.6	11	-F				.31				2 2 1 6
CRON	27	0402E	0407D		N13	E20	.382	11393	28.7	5D	-F	2	V						
MANI	27	0406E	0413	0406	N13	E18	.354	11393	28.5	7D	-N	2		0406	.31	.33			
692 TEHR	27	0429	0441	0435	S12	E84	.996	11402	3.5	12	-F	3	C		.19				D 4
694 CATA	27	0550	0605	0550	S12	E90	1.000	11402	4.0	15	-B		C	0550	.29			214	6
695 CATA	27	0615	0630D	0620	N15	E16	.345	11393	28.5	15D	-B		P	0620	.23	.25		209	5
697 CRON	27	0716E	0720D		S11	E85	.997	11402	3.7	4D	-F	2	V						7
700 ATHN	27	1241	1248	1243	N15	E86	.997	11405	4.0	7	-F	3	C		.17				D 7
GRP38701	27	1334	1342	1336	S10	E81	.989	11402	3.6	8	-F				.17				2 2 1 11
ATHN	27	1333	1340	1336	S08	E76	.972	11402	3.3	7	-F	3	C		.17				D
CANR	27	1334	1343		S12	E85	.997	11402	3.9	9	-N	3	V			.40			
702 ATHN	27	1424	1433	1426	S09	E80	.986	11402	3.6	9	-F	3	C		.17				D 11
703 CANR	27	1448	1455		S00	E85	.996	11406	4.0	7	-F	2	V			.40			10
GRP38704	27	1543	1614	1552	N14	W37	.620	11383	24.9	31	-F				.32				2 2 2 8
ATHN	27	1543	1606	1548	N14	W36	.607	11383	25.0	23	-F	3	C		.17				D
RAMY	27	1553E	1621	1555	N14	W37	.620	11383	24.9	28D	-F	3	C		.46				D
GRP38705	27	1551	1603	1553	S14	E87	.999	11402	4.2	12	-F				.17				2 2 1 9
ATHN	27	1550	1602	1553	S14	E88	1.000	11402	4.3	12	-F	3	C		.17				D
CANR	27	1552	1603		S13	E85	.997	11402	4.0	11	-N	2	V			.30			
706 CANR	27	1657	1715		N13	E15	.313	11393	28.8	18	-F	2	V			.30			8
707 HUAN	27	1754	1759	1756	S10	E73	.960	11402	3.2	5	-N	2	C	1756	.12				D 6
708 HUAN	27	1802	1808	1805	S10	E73	.960	11402	3.2	6	-F	2	C	1805	.15				D 6
709 BOUL	27	2035	2052D	2044	N20	E10	.344	11393	28.6	17D	-F	2	C	2044	.32	.34			6
715 CRON	28	0255E	0302		S15	E75	.971	11402	3.7	7D	-F	3	V						6
716 TEHR	28	0300E	0310	0300	N21	E06	.332	11393	28.6	10D	-N	2	C		.19				D 4
717 CULG	28	0412	0422D		N16	E73	.956	11405	3.6	10D	1N		P	0422	.83				7
718 ABST	28	0422	0511	0423	N14	W51	.784	11383	24.4	49	1F		P	0423	1.62	2.60		65	E 7
719 TEHR	28	0430	0436	0433	N16	W01	.234	11393	28.1	6	-N	3	C		.19				D 6
721 ABST	28	0549	0617	0553	N11	W43	.688	11383	25.0	28	1F		C	0553	1.80	2.50			EZ 7
723 TEHR	28	0616	0639	0630	S13	E72	.957	11402	3.7	23	-F	1	C		.28				D 7
724 MONT	28	0720	0725	0721	S13	E77	.978	11402	4.1	5	-N		C	0721	.21				9
725 ATHN	28	0728	0806	0732	N09	W44	.697	11383	25.0	38	-F	3	C		.50				D 10
726 CANR	28	0757	0800	0758	N13	E05	.201	11393	28.7	3	-F	2	V	0758		.30			11
GRP38727	28	0856	0910	0901	N16	E04	.243	11393	28.7	14	-F				.36				2 2 1 10
CANR	28	0856	0901	0857	N14	E06	.224	11393	28.8	5	-N	2	V	0857		.30			
TEHR	28	0856	0918	0905	N17	E01	.251	11393	28.4	22	-F	4	C		.36				D
730 ABST	28	0943E	1004	0947	N11	W45	.712	11383	25.0	21D	-F		P	0947	.90	1.30		72	DJZ 8
731 TEHR	28	0955	1003	0957	N14	E03	.206	11393	28.6	8	-F	4	C		.45				D 9

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JUN																		
732 ABST	28	1019	1027	1021	S15	E74	.967	11402	4.0	8	1F		C	1021	.90			80	DJZ 8
GRP38735	28	1208	1224	1213	N18	W07	.291	11393	28.0	16	-F				.25				2 2 2 11
TEHR	28	1208	1222	1212	N18	W08	.298	11393	27.9	14	-F	4	C		.19				D
RAMY	28	1214E	1225D	1214	N17	W06	.270	11393	28.1	11D	-F	3	C		.31				D
738 ATHN	28	1342	1404	1348	N15	W08	.255	11393	28.0	22	-N	3	C		.17				D 8
GRP38741	28	1507	1518	1508	N13	W01	.183	11393	28.6	11	-F				.40				2 2 2 9
CANR	28	1506	1513	1507	N12	E00	.165	11393	28.6	7	-N	2	C	1507	.22	.22			
RAMY	28	1507	1522	1509	N14	W01	.200	11393	28.6	15	-F	1	C		.57				D
743 RAMY	28	1628	1657D	1642	S17	W59	.878	11382	24.3	29D	-F	1	C		.46				D 5
745 HUAN	28	1641	1655	1648	S14	E67	.930	11402	3.7	14	-N	2	C	1648	.25				D 5
746 HUAN	28	1700	1723D	1712	S14	E67	.930	11402	3.7	23D	-N	1	C	1712	.28				D 4
747 MCMA	28	1800E	1840D		N18	W52	.801	11383	24.9	40D	-N		C	1802	.62	1.10			E 5
749 BOUL	28	2100	2120	2102	N17	W04	.259	11393	28.6	20	-F	1	V						4
752 CULG	29	0206	0230	0213	N06	E65	.905	11405	4.0	24	1F		C	0213	1.13				FRV 4
753 MANI	29	0253E	0305	0255	S08	E67	.925	11402	4.1	12D	-F	2		0255	.41	.86			5
755 CULG	29	0342	0430	0410	N12	W57	.841	11383	24.9	48	1N		C	0410	2.06	3.60			4
GRP38757	29	0512	0524	0516	N17	W15	.352	11393	28.1	12	-F				.62				2 2 2 8
ABST	29	0512	0523	0514	N17	W15	.352	11393	28.1	11	-N		C	0514	.90	1.00		66	DJ
ATHN	29	0512	0525	0517	N16	W15	.341	11393	28.1	13	-F	2	C		.33				D
758 TEHR	29	0522	0535	0525	S15	W53	.822	11382	25.2	13	-F	4	C		.19				7
GRP38759	29	0530	0557	0534	N10	W58	.848	11383	24.9	27	-F				1.04				2 2 2 7
TEHR	29	0527	0558	0530	N10	W58	.848	11383	24.9	31	-N	4	C		.19				D
ABST	29	0532	0555	0537	N10	W57	.839	11383	25.0	23	1F		C	0537	1.89	3.50		71	EJ
760 ATHN	29	0545	0552	0551	N08	E37	.605	11401	2.0	7	-F	2	C		.17				D 7
762 TEHR	29	0633	0638	0634	N18	W12	.332	11393	28.4	5	-F	4	C		.09				D 8
763 ATHN	29	0716	0722D	0721	S14	E60	.881	11402	3.8	6D	-F	2	C		.17				D 8
767 TEHR	29	0943	0957	0947	S17	W54	.836	11390	25.4	14	-F	5	C		.19				D 9
770 CATA	29	1050	1100	1055	S04	W90	1.000	11375	22.7	10	1N		C	1055	.63			162	7
774 TEHR	29	1233	1245	1235	S15	W50	.794	11390	25.8	12	-F	4	C		.37				F 7
GRP38775	29	1305	1345	1315	N14	W15	.320	11393	28.4	40	-N				.68				2 2 2 7
CATA	29	1305	1320D	1315	N15	W15	.330	11393	28.4	15D	-N		P	1315	.58	.61		170	T
MCMA	29	1307E	1345D		N13	W14	.298	11393	28.5	38D	-N		C	1310	.77	.80			E
GRP38776	29	1416	1441	1421	S08	E46	.732	11402	3.0	25	-F				.60				2 2 2 10
MCMA	29	1415	1435	1420	S08	E45	.721	11402	3.0	20	-N		C	1420	.62	.90			E
RAMY	29	1417	1447	1421	S07	E47	.742	11402	3.1	30	-F	3	C		.57				D
GRP38777	29	1426	1442	1429	N11	W62	.883	11383	25.0	16	-F				.21				2 2 2 10
BOUL	29	1425	1435	1429	N08	W62	.882	11383	25.0	10	-F	2	C	1429	.22	.45			
TEHR	29	1427	1449	1428	N14	W62	.885	11383	25.0	22	-F	4	C		.19				D
GRP38778	29	1427	1439	1428	N07	E30	.503	11401	1.9	12	-F				.21				2 2 1 10
MCMA	29	1427	1439	1428	N07	E31	.518	11401	1.9	12	-F		C	1428	.21	.30			DH
BOUL	29	1433	1438		N07	E28	.473	11401	1.7	5	-N	3	V						
779 HUAN	29	1511	1521	1513U	S13	E50	.788	11402	3.4	10	-N	1	P	1513	.23	.36			D 11
784 PALE	29	1654E	1700	1655	N16	W18	.378	11393	28.4	6D	-F	2	C		.19				5
785 PALE	29	1740	1759	1744	S23	W72	.964	11382	24.3	19	-F	3	C		.27				4
786 PALE	29	1744E	1756	1749	N16	W17	.365	11393	28.5	12D	-N	4	C		.91				F 4
787 PALE	29	1805	1815	1807	N16	W18	.378	11393	28.4	10	-N	4	C		.19				4
789 PALE	29	1822	1849	1834	S22	W72	.963	11382	24.4	27	-N	3	C		.36				F 4
793 RAMY	29	2202E	2205D	2204	N18	W24	.471	11393	28.1	3D	-F	1	C		.46				D 4

SOLAR FLARES
Unconfirmed
JUNE 1971

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
795 MANI	30	0028E	0045	0035	N18	E44	.716	11405	3.3	17D	-N	2		0035	.21	.30			5
798 LOCK	30	0127	0135	0130	N15	E46	.731	11405	3.5	8	-F		C						5
801 TEHR	30	0344	0411	0346	N17	W20	.411	11393	28.7	27	-N	4	C		.45				DH 5
804 TEHR	30	0842	0901	0846	S15	E37	.652	11402	3.1	19	-N	4	C		.09				D 6
806 TEHR	30	1005	1009	1007	N08	E19	.336	11401	1.8	4	-F	4	C		.19				D 5
807 TEHR	30	1013	1025	1015	N17	E42	.690	11405	3.6	12	-F	4	C		.09				D 6
809 TEHR	30	1034	1042	1037	N18	E38	.646	11405	3.3	8	-F	4	C		.09				D 6
810 TEHR	30	1036	1042	1038	N08	E19	.336	11401	1.9	6	-F	4	C		.45				D 6
GRP38816	30	1515	1530	1519	N14	W33	.566	11393	28.2	15	-F				.21				2 2 1 7
LOCK	30	1515	1530	1520	N13	W29	.507	11393	28.5	15	-F		C						
MCMA	30	1515	1530	1517	N15	W37	.622	11393	27.9	15	-F		C	1517	.21	.30			DH
820 LOCK	30	1625	1645	1630	N18	W32	.572	11393	28.3	20	-F		C						6
822 BOUL	30	1702	1708	1704	N07	E14	.252	11401	1.8	6	-N	3	V						6
824 BOUL	30	1733	1753U	1739	N17	W31	.554	11393	28.4	20D	-N	3	V						6
826 PALE	30	1810	1818	1813	S09	E45	.724	11402	4.1	8	-F	2	C		.19				5