

4
 May 71

SOLAR FLARES
 Confirmed

MAY 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
	1971 MAY																
	01	0246	0248	NO FLARE	PATROL												
945 ATHN	01	0550	0606	0552	N07	W54	.820 11283	27.2	16	--F	1	0552	.17	.32	.78	1	
GRP37948	01	1148	1205	1155	S08	E00	.066 11281	1.5	17	--N			.48			2 2 2 4	
RAMY	01	1148	1205	1153	S07	E00	.049 11281	1.5	17	-N	3 C		.46			D	
ATHN	01	1152E	1200D	1156	S09	E00	.084 11281	1.5	8D	-N	1	1156	.50	.99	.08		
GRP37949	01	1212	1230	1214	N20	E19	.508 11292	2.9	18	--F			.77			2 2 2 3	
RAMY	01	1211	1228	1214	N20	E20	.518 11292	3.0	17	-N	3 C		.83			F	
CAPS	01	1212	1231		N19	E18	.488 11292	2.9	19	-F	1 V	1215	.70	.80			
950 RAMY	01	1526	1545	1528	N17	E85	.998 11296	8.0	19	--F	3 C					D 3	
951 ABST	02	0454E	0600	0500	N13	E64	.912 11294	7.0	66D	1F	P	0500	.90	2.00		57 EK 3	
GRP37957	02	1757	1806	1800	N12	E77	.979 11296	8.5	9	--F						2 2 0 4	
LOCK	02	1756	1805	1800	N12	E77	.979 11296	8.5	9	-F	C					D	
RAMY	02	1758	1807	1800	N12	E76	.975 11296	8.4	9	-F	1 C						
958 CULG	02	2313	2327	2317	N19	E03	.395 11292	3.2	14	1N	C	2317	2.48	2.60		3	
959 MANI	03	0105E	0117D	0105	N19	W02	.392 11292	2.9	12D	--N	2	0105	.31	.34		2	
GRP37962	03	0902	0917	0909	N14	E50	.796 11294	7.1	15	--N			.28			4 4 2 7	
CANR	03	0900	0913	0907	N13	E47	.762 11294	6.9	13	-N	2 V	0907		.28			
ISTA	03	0900E	0915		N14	E55	.843 11294	7.5	15D	-N						D	
CATA	03	0905	0925	0910	N14	E50	.796 11294	7.1	20	-B	C	0910	.23	.39		204	
ATHN	03	0908E	0914	0910	N16	E48	.783 11294	7.0	6D	-N	1	0910	.33	.66	.77		
GRP37967	03	1256	1308	1259	N15	E48	.779 11294	7.1	12	--F			.30			2 2 2 5	
MCMA	03	1255	1304	1258	N15	E48	.779 11294	7.1	9	-F	C	1258	.26	.40		DH	
ATHN	03	1257	1312	1300	N14	E47	.766 11294	7.1	15	-F	1	1300	.33	.66	.77		
GRP37968	03	1413	1426	1415	N15	E47	.769 11294	7.1	13	-B			1.10			9 9 7 9	
RAMY	03	1410	1427	1412	N15	E48	.779 11294	7.2	17	-B	2 C		1.34			F	
CAPF	03	1412	1420D		N15	E49	.789 11294	7.3	8D	1N	P	1413	1.65	2.72			
MCMA	03	1412	1428	1413	N15	E48	.779 11294	7.2	16	-B	C	1413	.93	1.50		E	
CANR	03	1412	1425	1413	N16	E47	.773 11294	7.1	13	-B	3 V	1413		1.70			
CAPE	03	1412	1430	1415	N14	E48	.776 11294	7.2	18	1B	C	1415	1.33	2.10			
ATHN	03	1415E	1430	1416	N14	E47	.766 11294	7.1	15D	-B	1	1416	.99	1.98	.77		
BOUL	03	1415	1427	1415	N15	E45	.748 11294	7.0	12	1B	3 V						
CATA	03	1415	1430	1415	N13	E48	.773 11294	7.2	15	-B	C	1415	.58	.94		309	
HERS	03	1416E	1420	1416E	N18	E46	.770 11294	7.0	4D	-B	P	1416	.89	1.20		CDJ	
970 MCMA	03	1703	1720	1705	S08	W31	.516 11281	1.4	17	--N	C	1705	.36	.40		D 3	
971 MCMA	03	1905	1930	1910	S09	W32	.532 11281	1.4	25	-N	C	1910	.88	1.00		EH 3	
972 PALE	03	2027	2042	2031	S11	E68	.925 11297	9.0	15	--F	2 C		.45			H 3	
GRP37975	04	0022	0029	0023	N13	E39	.672 11294	6.9	7	--N			.23			3 3 3 6	
PALE	04	0020	0030	0022	N14	E37	.654 11294	6.8	10	-N	3 C		.27			F	
MANI	04	0022E	0028	0024	N12	E43	.714 11294	7.2	6D	-N	1	0024	.31	.43			
CRON	04	0023	0028	0024	N13	E37	.649 11294	6.8	5	-F	2 C	0024	.11	.14			
GRP37979	04	0323	0335	0327	N13	E35	.624 11294	6.8	12	--F			.54			2 2 2 6	
PALE	04	0322	0333D	0325	N13	E35	.624 11294	6.8	11D	-F	3 C		.36			F	
MANI	04	0324	0335	0328	N12	E34	.607 11294	6.7	11	-N	1	0328	.72	.90			
GRP37980	04	0427	0443	0433	N14	E33	.606 11294	6.7	16	--N			.60			3 3 3 5	
PALE	04	0423	0438D	0432	N14	E32	.594 11294	6.6	15D	-N	1 C		.45				
MANI	04	0430	0445	0434	N12	E32	.582 11294	6.6	15	1B	1	0434	1.03	1.30			
ATHN	04	0434E	0440	0434	N15	E35	.636 11294	6.8	6D	-N	1	0434	.33	.66	.63		
GRP37981	04	0519E	0546	0520	N15	E34	.624 11294	6.8	27	--F			.31			3 2 2 5	
MANI	04	0455	0520		N12	E35	.619 11294	6.8	25	-N	1	0503	.72	.92			
ABST	04	0519E	0546	0519	N14	E35	.630 11294	6.8	27D	-F	P	0519	.45	.60		D	
ATHN	04	0520E	0520D	0520	N16	E33	.619 11294	6.7		-N	1	0520	.17	.32	.63		
GRP37984	04	0721	0732	0723	N13	E35	.624 11294	6.9	11	--F			.62			2 2 1 4	
MANI	04	0721	0734	0723	N12	E34	.607 11294	6.9	13	-N	1	0723	.62	.77			
CRON	04	0724E	0730		N13	E36	.637 11294	7.0	6D	-F	3 V						
GRP37991	04	1309	1325	1313	N16	E32	.607 11294	6.9	16	-N			.83			3 3 3 4	
MCMA	04	1307	1329	1312	N17	E32	.614 11294	6.9	22	-N	C	1312	.83	1.10		E	
RAMY	04	1308	1324	1311	N16	E32	.607 11294	6.9	16	-N	3 C		1.44			D	
CANR	04	1312	1323	1316	N15	E33	.612 11294	7.0	11	-F	2 C	1316	.22	.27			

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	DATE	START	END	MAX. PHASE	APPROX.	CENTRAL	MCMATH	CMP	MIN.				COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
					LAT.	MER. DIST.	DISTANCE			PLAGE REGION	DAY	TANCE						
GRP38012	05	1904	2003	1919	N13	E15	.382	11294	6.9	59	--F						3 2 2 3	
RAMY	05	1904	2003D	1908	N13	E12	.352	11294	6.7	59D	-F	2	C				F	
PALE	05	1907	1945	1929	N12	E12	.338	11294	6.7	38	-F	3	C				F	
MCMA	05	1931E	1932D		N13	E18	.415	11294	7.2	10	-N		P	1932	.50		E	
013 PALE	05	2110	2137	2119	N16	E15	.418	11294	7.0	27	--F	3	C		.36		1	
	05	2144	2147		NO FLARE PATROL													
	05	2148	2215		NO FLARE PATROL													
GRP38014	05	2255	2328	2307	N13	E11	.342	11294	6.8	33	-N				1.42		2 2 2 3	
PALE	05	2255	2325	2306	N12	E10	.320	11294	6.7	30	-N	3	C		1.18		F	
MANI	05	2300E	2330	2308	N13	E12	.352	11294	6.9	30D	-N	2		2308	1.65	1.79		
GRP38015	06	0143	0217	0154	N13	E13	.360	11294	7.0	34	--F				1.41		3 3 3 3	
CULG	06	0139	0244	0154	N12	E13	.347	11294	7.0	65	1F		C	0154	2.06	2.10		
CRON	06	0145	0158	0153	N14	E12	.363	11294	7.0	13	-F	2	C	0153	.43	.46		
MANI	06	0145E	0210D	0154	N13	E13	.360	11294	7.0	25D	-N	2		0154	1.75	1.90		
016 CATA	06	0520	0525	0520	S13	E28	.488	11297	8.3	5	--F		C	0520	.52	.60	141	
GRP38018	06	0719	0723	0720	N13	E07	.310	11294	6.8	4	--N				.53		2 2 2 6	
ZURI	06	0718	0721	0719	N13	E06	.304	11294	6.8	3	-N		C	0719	.59	.60		
CATA	06	0720	0725	0720	N13	E08	.317	11294	6.9	5	-N		C	0720	.46	.49	186	
GRP38019	06	0742	0812	0750	N09	E01	.220	11294	6.4	30	--N				.79		4 4 4 7	
CATA	06	0735	0825D	0745	N09	E00	.219	11294	6.3	50D	-N		P	0745	.58	.59	178	
ZURI	06	0737	0740	0739	N12	E02	.272	11294	6.5	3	-N		C	0739	1.36	1.40		
ZURI	06	0743	0811	0753	N11	E00	.253	11294	6.3	28	-N		C	0753	1.56	1.60		
MANI	06	0745	0805	0751	N08	E02	.205	11294	6.5	20	-N	2		0751	.72	.74		
HTRP	06	0745	0807	0749	N09	E01	.220	11294	6.4	22	-F			0749	.31	.30	E	
ZURI	06	0815	0819	0815	N11	E01	.254	11294	6.4	4	-N		C	0815	.65	.70		
GRP38023	06	1118	1125	1118	N13	E05	.299	11294	6.8	7	--F				.62		3 3 3 8	
ZURI	06	1117	1124	1118	N12	E04	.278	11294	6.8	7	-N		C	1118	1.05	1.10		
MEUD	06	1118	1125	1119	N13	E05	.299	11294	6.8	7	-F			1119	.41	.40	E	
HTRP	06	1118	1126	1118	N13	E06	.304	11294	6.9	8	-F			1118	.41	.40	E	
GRP38024	06	1145	1205	1151	N13	E05	.299	11294	6.9	20	--F				.60		5 4 4 8	
HTRP	06	1145	1205	1152	N13	E06	.304	11294	6.9	20	-F			1152	.41	.40		
MEUD	06	1145	1205	1152	N13	E05	.299	11294	6.9	20	-F			1152	.52	.50	E	
ZURI	06	1145	1207	1146	N13	E05	.299	11294	6.9	22	-N		C	1146	1.26	1.30		
MONT	06	1151E	1202	1153	N13	E04	.295	11294	6.8	11D	-N		C	1153	.21			
CATA	06	1158E	1220D	1210	N13	E08	.317	11294	7.1	22D	-B		P	1210	.34	.37	204	
CATA	06	1158E	1220D	1210	N13	E04	.295	11294	6.8	22D	-N		P	1210	.29	.30	184	
GRP38027	06	1515	1525	1519	N15	E06	.335	11294	7.1	10	--N				.64		5 5 4 7	
ZURI	06	1515	1519	1516	N14	E07	.325	11294	7.2	4	-N		C	1516	.84	.90		
MCMA	06	1515	1527	1517	N15	E03	.324	11294	6.9	12	-N		C	1517	.31	.30	D	
CANR	06	1515	1515D		N14	E08	.332	11294	7.2		-N	2	V			.60		
CATA	06	1520E	1530D	1520	N15	E04	.327	11294	6.9	10D	-B		P	1520	.29	.31	224	
RAMY	06	1521E	1523D	1521	N15	E06	.335	11294	7.1	2D	-F	1	C		1.13		D	
GRP38028	06	1612	1648	1640	N24	W39	.731	11286	3.8	36	-N				1.44		3 2 1 7	
RAMY	06	1612E	1629D	1612	N20	W40	.718	11286	3.7	17D	-F	1	C		1.34		US	
CANR	06	1613	1645		N25	W36	.710	11286	4.0	32	-N	2	V			.70		
CATA	06	1640E	1650D	1640	N22	W42	.748	11286	3.5	10D	1N		P	1640	1.44	2.17	184	
GRP38030	06	2048	2101	2053	N15	E02	.322	11294	7.0	13	--F				.76		2 2 2 3	
PALE	06	2045	2100	2052	N15	E01	.321	11294	6.9	15	-F	3	C		.27		F	
RAMY	06	2051	2102D	2053	N14	E03	.308	11294	7.1	11D	-F	1	C		1.24		D	
031 PALE	06	2220	2236	2225	N11	W05	.267	11294	6.6	16	--F	2	C		.36		F	
032 PALE	07	0001E	0009	0003	N13	E02	.287	11294	7.2	8D	--F	3	C		.67		F	
GRP38034	07	0354	0424	0400	N16	W02	.337	11294	7.0	30	--N				.66		2 2 2 5	
PALE	07	0354	0432	0400	N15	W02	.320	11294	7.0	38	-N	1	C		.81			
ATHN	07	0358E	0415	0400	N17	W02	.353	11294	7.0	17D	-N	1		0400	.50	.99	.34	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα		MAX. INT. %
					LAT.	MER. DIST.												
1971 MAY																		
GRP38157	13	1058	1113	1107	N18	W09	.386	11316	12.8	15	--N		.34				5 5 3 12	
CATA	13	1054	1115	1107	N19	W10	.407	11316	12.7	21	-B	C	1107	.29	.32		219	
RAMY	13	1101	1114	1106	N19	W10	.407	11316	12.7	13	-F	2 C		.41			D	
KHAR	13	1103E	1114		N18	W09	.386	11316	12.8	110	-F	V			1.80		DH	
ATHN	13	1104E	1112	1108	N18	W08	.380	11316	12.9	80	-F	1	1108	.33	.66	.84		
HURB	13	1107E	1112D	1108	N18	W07	.375	11316	12.9	50	-N				1.65			
GRP38160	13	1225	1234	1228	N03	E52	.791	11313	17.4	9	--N			.27			3 3 3 13	
HUAN	13	1224	1230	1226	N03	E53	.802	11313	17.5	6	-N	2 C	1226	.12	.20		D	
RAMY	13	1226	1236	1228	N04	E52	.793	11313	17.4	10	-F	2 C		.36			D	
ATHN	13	1227E	1237	1230	N01	E52	.789	11313	17.4	100	-N	1	1230	.33	.66	.37		
GRP38164	13	1334	1347	1338	N05	W07	.183	11301	13.0	13	--F			.46			3 3 3 10	
HUAN	13	1332	1339	1335	N05	W07	.183	11301	13.0	7	-N	2 C	1335	.33	.34		E	
RAMY	13	1334	1353	1338	N06	W06	.186	11301	13.1	19	-F	2 C		.46			D	
CATA	13	1335	1350D	1340	N05	W07	.183	11301	13.0	150	-F	P	1340	.58	.59		146	
GRP38174	13	1751	1830	1758	N11	W86	.998	11294	7.3	39	1N			.50			4 4 3 5	
BOUL	13	1750U	1808	1753U	N09	W81	.989	11294	7.7	180	-F	1 C	1753	.11				
HUAN	13	1750E	1805D	1801	N12	W80	.987	11294	7.7	150	-N	2 C	1801	.68				
MCHA	13	1751	1830	1756	N12	W90	1.000	11294	7.0	39	2B	C	1756				XY	
PALE	13	1752	1815	1801	N08	W90	1.000	11294	7.0	23	1N	2 C		.72			F	
BOUL	13	1817	1822	1818	N11	W90	1.000	11294	7.0	5	-N	2 V						
14 0116 0128 NO FLARE PATROL																		
GRP38175	14	0418	0434	0424	N05	E43	.690	11313	17.4	16	--N			.58			3 2 2 5	
CRON	14	0416E	0417D		N03	E43	.687	11313	17.4	10	-N	1 V						
MANI	14	0418	0435	0422	N04	E43	.688	11313	17.4	17	-N	2	0422	.83	1.14			
ATHN	14	0421	0432	0426	N06	E42	.680	11313	17.3	11	-N	1	0426	.33	.66	.67		
9 STATIONS REPORTING GROUP 38177. 6 STATIONS OBSERVING AND NOT REPORTING.																		
GRP38177	14	0818	0846	0822	N04	E15	.283	11312	15.5	28	-N			1.14			5 5 4 14	
CATA	14	0810E	0900D	0825	N03	E14	.261	11312	15.4	500	-N	P	0825	2.02	2.09		186	
ARCE	14	0816	0845	0820	N04	E15	.283	11312	15.5	29	-N	C	0820	1.10	1.40		H	
MANI	14	0820E	0827D	0822	N02	E16	.287	11312	15.5	70	-N	2	0822	.83	.86			
CANR	14	0820	0840		N05	E12	.247	11312	15.2	20	-N	2 V			1.40			
CAPS	14	0822	0837		N05	E18	.335	11312	15.7	15	-F	4 V	0824	.60	.70		152	
38177	14	0802	0838	0809	N04	E15	.283	11312	15.5	36	*-F			1.28			4 4 3 14	
HTRP	14	0802	0818	0806	N02	E13	.239	11312	15.3	16	-F		0806	.72	.70			
CRON	14	0803E	0807		N03	E18	.324	11312	15.7	40	-F	2 V						
ATHN	14	0810E	0851	0810	N05	E15	.291	11312	15.5	410	-N	1	0810	1.32	2.03	.30		
ABST	14	0810E	0845D	0810	N04	E15	.283	11312	15.5	350	-F	P	0810	1.80	1.90		E	
CRON	14	0814E	0816D		N03	E13	.246	11312	15.3	20	-N	2 V						
GRP38179	14	0900	0936	0911	N05	E16	.305	11312	15.6	36	-F			.90			5 3 3 12	
HURB	14	0846E	0910D	0848	N04	E14	.268	11312	15.4	240	1N				2.20			
CAPS	14	0900	0922		N05	E17	.320	11312	15.7	22	-F	3 V	0902	.60	.70		147	
ARCE	14	0900	0950	0906	N05	E16	.305	11312	15.6	50	-F	C	0906	.65	.70			
CATA	14	0905E	0935D	0910	N05	E15	.291	11312	15.5	300	-N	P	0910	1.44	1.52		188	
ATHN	14	0910E	0925	0917	N05	E15	.291	11312	15.5	150	-N	1	0917	.99	1.98	.30		
GRP38180	14	0937	0948	0940	N04	E40	.650	11313	17.4	11	--N			.50			3 3 3 12	
HTRP	14	0934	0947	0940	N05	E40	.652	11313	17.4	13	-F		0940	.41	.50		E	
CATA	14	0937E	0950	0937	N04	E40	.650	11313	17.4	130	-B	P	0937	.75	.98		221	
ATHN	14	0939	0946	0942	N03	E41	.661	11313	17.5	7	-N	1	0942	.33	.66	.66		
GRP38181	14	1024	1043	1029	N04	E14	.268	11312	15.5	19	1N			1.49			11 10 7 11	
ONDR	14	1022E	1044		N06	E19	.357	11312	15.9	220	2N	V	1028			2.80		
HTRP	14	1023	1035	1027	N02	E12	.224	11312	15.3	12	-N		1027	1.03	1.00		CJ	
RAMY	14	1023	1059	1027	N03	E12	.230	11312	15.3	36	-N	1 C		1.24			E	
CANR	14	1023	1038	1028	N04	E13	.253	11312	15.4	15	-N	2 C	1028	1.08	1.08		D	
ATHN	14	1024E	1051	1030	N03	E13	.246	11312	15.4	270	1N	3	1030	2.31	4.61	.25		
MONT	14	1024	1034	1027	N04	E15	.283	11312	15.6	10	-N	C	1027	1.55				
HURB	14	1025E	1032D	1026	N04	E15	.283	11312	15.6	70	1N				1.79			
CAPS	14	1025	1052		N06	E14	.284	11312	15.5	27	1N	3 P	1028	2.20	2.30		182	
CAPE	14	1025	1040	1027	N04	E14	.268	11312	15.5	15	-F	C	1027	1.01	1.10		C	
ISTA	14	1025	1035		N02	E10	.192	11312	15.2	10	-F							
CANR	14	1027	1028D	1028	N05	E12	.247	11312	15.3	10	-F	3 V	1028		.98			
CATA	14	1042E	1050D	1042	N03	E13	.246	11312	15.4	80	-N	P	1042	1.39	1.43		174	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc		MAX. INT. %
15 STATIONS REPORTING GROUP 38185.																		
0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP38185	14	1414	1541	1426	N04	E11	.224	11312	15.4	87	18				4.65		12 12 9 12	
HTPR	14	1410	1455	1428	N05	E10	.219	11312	15.3	45	18		1428	5.16	5.00		ET	
RAMY	14	1410	1550	1417	N03	E10	.200	11312	15.3	100	18	2	C	4.54			US	
ONDR	14	1411	1520		N03	E15	.277	11312	15.7	69	38		V	1418		5.10	CFJLR	
MCMA	14	1411	1720	1425	N03	E10	.200	11312	15.3	189	18		C	1425	3.61	3.50	FLSX	
CAPS	14	1412	1551	1434	N05	E10	.219	11312	15.3	99	28	2	P	1434	8.50	8.70	288	CU
CAPE	14	1413	1458D	1429	N04	E10	.209	11312	15.3	450	18		P	1429	2.66	2.70		HV
CATA	14	1415E	1440D	1435	N03	E11	.215	11312	15.4	250	28		P	1435	6.96	7.14	339	
BOUL	14	1416E	1442D	1421	N03	E10	.200	11312	15.3	260	1N	1	C	1421	2.58	2.58		
ATHN	14	1416	1540	1423	N03	E13	.246	11312	15.6	84	18	3	V	1423	3.30	6.59	.25	
CANR	14	1420	1605	1420	N05	E11	.233	11312	15.4	105	18	1	V	1420		5.00		
HURB	14	1420E	1521	1423	N04	E10	.209	11312	15.3	61D	28						2.55	
HUAN	14	1428E	1435D	1432U	N04	E10	.209	11312	15.4	7D	28	2	P	1432	4.50	4.58		E
38185	14	1439	1637	1440	N03	E11	.215	11312	15.4	118	*1B			4.46			3 2 1 15	
HERS	14	1439E	1525D	1439E	N03	E10	.200	11312	15.4	46D	18		P	1439	4.46	4.50		BF
LOCK	14	1440E	1630	1440	N04	E11	.224	11312	15.4	110D	28		C					F
PALE	14	1619E	1637		N03	E11	.215	11312	15.5	18D	-F	2	C					
187 LOCK	14	2200	2225	2208	N05	E31	.529	11313	17.2	25	--F		C					2
GRP38188	15	0022	0033	0024	N03	E31	.523	11313	17.3	11	--N			.53			3 3 3 7	
MANI	15	0021	0029	0023	N03	E32	.537	11313	17.4	8	-N	2		.72	.86			
CRON	15	0022	0035	0024	N02	E30	.505	11313	17.3	13	-N	2	C	0024	.32	.38		F
PALE	15	0023E	0035	0025	N04	E31	.525	11313	17.3	12D	-N	3	C		.55			
GRP38189	15	0134	0143	0136	N05	E31	.529	11313	17.4	9	--F			.43			2 2 2 4	
PALE	15	0133	0142	0136	N05	E31	.529	11313	17.4	9	-F	2	C		.45			F
MANI	15	0135	0143	0136	N04	E30	.511	11313	17.3	8	-N	2		0136	.41	.48		
GRP38192	15	0321	0334	0326	N05	E30	.514	11313	17.4	13	--F			.34			2 2 2 4	
PALE	15	0321	0334	0325	N06	E29	.504	11313	17.3	13	-F	2	C		.27			
MANI	15	0324E	0334	0326	N03	E31	.523	11313	17.5	10D	-N	2		0326	.41	.49		
GRP38194	15	0908	0921	0910	N05	E26	.455	11313	17.3	13	--F			.47			4 4 4 8	
CRON	15	0906	0912D	0908	N05	E26	.455	11313	17.3	6D	-N	2	C	0908	.32	.36		
HTPR	15	0907	0917	0909	N05	E26	.455	11313	17.3	10	-F			0909	.41	.40		
ARCE	15	0909	0921	0912	N07	E27	.479	11313	17.4	12	-F		C	0912	.52	.60		
CATA	15	0910	0925	0910	N04	E26	.451	11313	17.3	15	-N		C	0910	.63	.72	193	T
GRP38196	15	1349	1401	1350	N05	E25	.440	11313	17.5	12	--N			.49			5 5 4 10	
RAMY	15	1347	1406	1350	N06	E25	.445	11313	17.4	19	-F	3	C		.41			D
CAPS	15	1349	1403		N06	E25	.445	11313	17.5	14	-N	2	V	1355	.80	.90		
ATHN	15	1349E	1352	1349	N07	E23	.421	11313	17.3	3D	-N	1		1349	.17	.32	.41	
CANR	15	1349	1359		N04	E27	.466	11313	17.6	10	-F	2	V		.40	.40		
CATA	15	1350	1405	1350	N04	E24	.421	11313	17.4	15	-B		C	1350	.58	.64	24D	ET
GRP38201	15	2255	2336	2306	N03	E19	.339	11313	17.4	41	--N			.45			3 2 1 4	
LOCK	15	2255	2340	2304	N03	E18	.323	11313	17.3	45	-N							
PALE	15	2300E	2331	2307	N03	E20	.355	11313	17.5	31D	-N	3	C		.45			F
MANI	15	2313	2335	2320	N03	E25	.433	11313	17.8	22	-N	2		2320	.62	.68		
GRP38202	16	0036	0059	0048	N04	E18	.328	11313	17.4	23	--F			.45			2 2 1 6	
PALE	16	0036	0102	0048	N04	E17	.313	11313	17.3	26	-F	2	C		.45			F
CRON	16	0042E	0055		N04	E18	.328	11313	17.4	13D	-F	3	V					
203 PALE	16	0139	0159	0145	N02	W41	.659	11301	13.0	20	--F	3	C		.36			2
204 PALE	16	0230	0251	0235	N02	E16	.286	11313	17.3	21	--N	3	C		.81			FH 4
GRP38207	16	1347	1359	1350	N03	E11	.213	11313	17.4	12	--N			.17			3 2 1 9	
CATA	16	1345	1400	1345	N13	E10	.317	11313	17.3	15	-N		C	1345	.29	.30	182	
ATHN	16	1346	1358	1349	N02	E12	.222	11313	17.5	12	-N	1		1349	.17	.32	.22	
BOUL	16	1348	1400	1350	N03	E09	.184	11313	17.2	12	-N	2	V					
GRP38208	16	1808	1850	1814	N04	E07	.167	11313	17.3	42	--F			.45			2 1 1 5	
PALE	16	1808	1850	1814	N04	E07	.167	11313	17.3	42	-F	3	C		.45			F
LOCK	16	1820	1850	1830	N05	E05	.158	11313	17.1	30	-F							
217 ATHN	17	1313E	1335	1313	N02	W30	.505	11312	15.3	22D	-F	1		1313	.33	.66	.49	11
GRP38222	17	2016	2031	2017	N04	W33	.553	11312	15.4	15	-B			.92			4 4 3 5	
PALE	17	2015	2033	2017	N04	W33	.553	11312	15.4	18	-B	3	C	1.08				D
LOCK	17	2015	2031	2017	N05	W34	.570	11312	15.3	16	-B		C					
MCMA	17	2016	2030	2017	N04	W33	.553	11312	15.4	14	-N		C	2017	.83	1.00		E
HUAN	17	2016E	2019D		N04	W33	.553	11312	15.4	3D	-N	2	C	2019	.86	1.03		E
223 PALE	17	2253E	2253D	2253	S04	W68	.926	11318	12.9		--N	1	C		.19			3

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS				
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H α	MAX. INT. %		
					LAT.	MER. DIST.														
GRP38253	19 1971 MAY	1635	1646	1637	N04	W59	.860	11312	15.3	11	--N							6 6 5 9		
RAMY	19	1634	1654	1636	N04	W58	.851	11312	15.3	20	-N	2	C		.33				D	
LOCK	19	1634	1700	1638	N02	W60	.867	11312	15.2	26	-N									
MONT	19	1636	1640	1637	N04	W58	.851	11312	15.3	4	-N		C	1637	.52				DH	
MCMA	19	1636	1641	1638	N03	W58	.850	11312	15.3	5	-N		C	1638	.21	.40				
ATHN	19	1636E	1642	1638	N04	W58	.851	11312	15.3	60	-N	1		1638	.33	.66	.84			
HUAN	19	1636E	1641		N04	W59	.860	11312	15.3	50	-N	2	P	1636	.21	.40			D	
HUAN	19	1651	1702	1657	N04	W59	.860	11312	15.3	11	-N	2	C	1657	.35	.69			E	
GRP38254	19	1636	1655	1641	N04	W32	.538	11313	17.3	19	--N				.76				4 4 3 9	
LOCK	19	1619	1700	1642	N04	W31	.524	11313	17.4	41	-F		C							
RAMY	19	1634	1653	1640	N04	W32	.538	11313	17.3	19	-F	2	C		.62				D	
CATA	19	1635E	1650D	1635	N04	W32	.538	11313	17.3	150	-B		P	1635	1.33	1.59		204	T	
ATHN	19	1640	1653	1647	N05	W31	.527	11313	17.4	13	-N	1		1647	.33	.66	.54			
255 LOCK	19	1755	1805	1757	N14	E71	.952	11328	25.1	10	--F		C						3	
GRP38257	19	2003	2028	2008	N04	W33	.553	11313	17.4	25	--F				.48				3 3 2 4	
BOUL	19	2000U	2026U	2007U	N04	W33	.553	11313	17.4	260	-F	1	C	2007	.43	.51			D	
RAMY	19	2006	2033	2008	N04	W33	.553	11313	17.4	27	-F	1	C		.52					
LOCK	19	2010E	2025	2010E	N04	W34	.567	11313	17.3	150	-N									
GRP38258	19	2024	2105	2026	N13	E69	.940	11328	25.0	41	--F				.21				2 1 1 5	
RAMY	19	2024	2105	2026	N13	E69	.940	11328	25.0	41	-F	2	C		.21				D	
HUAN	19	2037	2102	2045	N12	E68	.934	11328	25.0	25	-N	2	C	2045	.12				D	
GRP38259	19	2114	2132	2121	N05	W35	.584	11313	17.3	18	-N				1.10				3 3 2 3	
RAMY	19	2114	2132	2118	N05	W34	.570	11313	17.3	18	-N	2	C		1.03				F	
HUAN	19	2121E	2124D		N05	W35	.584	11313	17.3	30	-N	1	P	2121	1.17	1.42			E	
LOCK	19	2123E	2123D	2123U	N04	W36	.595	11313	17.2			1N	C							
13 STATIONS REPORTING GROUP 38261.										1 STATIONS OBSERVING AND NOT REPORTING.										
GRP38261	20	0605	0713	0617	N04	W40	.649	11313	17.3	68	2N				5.64			2.90		6 6 5 9
ONDR	20	0604E	0655	0615	N02	W39	.632	11313	17.3	510	2N		V	0615					CHJK	
CRON	20	0604	0710U	0617	N03	W39	.634	11313	17.3	660	1N	2	C	0617	1.72	2.23				
ATHN	20	0605	0725	0617	N05	W40	.651	11313	17.3	80	2N	1		0617	3.96	7.91	.67			
KIEV	20	0605	0720	0620	N05	W40	.651	11313	17.3	75	2F		C	0620	6.19	8.00		55	EI	
ABST	20	0607E	0645D	0614	N04	W40	.649	11313	17.3	380	2N		P	0614	6.30	8.30			E	
TACH	20	0615E	0634D	0618	N02	W40	.645	11313	17.3	190	3F		P	0618	10.02	13.05		100	E	
38261	20	0603	0910	0717	N05	W41	.664	11313	17.2	187	*2N				15.10					4 2 2 11
WEND	20	0603	0835	0639	N04	W40	.649	11313	17.3	152	3B		P		25.78					
BUCA	20	0605E	0812D		N06	W41	.666	11313	17.2	1270	2F		C	0630	4.42	5.80				
ATHN	20	0755E	0807	0755	N03	W43	.686	11313	17.1	120	-F	1		0755	.50	.99	.70			
KHAR	20	0805E	0910D		N04	W41	.662	11313	17.3	650	2F		V				2.10		EL	
38261	20	0713	0745	(0724)	N06	W40	.653	11313	17.3	32	*2F				9.00					2 2 1 11
CANR	20	0706	0753		N06	W40	.653	11313	17.3	47	1N	1	V			4.60				
CAPS	20	0719	0737		N05	W40	.651	11313	17.3	18	3F	1	P	0724	9.00	12.60		189	BU	
38261	20	0655	0800	0657	N05	W43	.689	11313	17.1	65	*1B				3.11					2 2 2 9
ZURI	20	0655E	0800	0657	N06	W44	.703	11313	17.0	650	1B		P	0657	3.99	5.40				
CAPE	20	0702E	0800		N04	W42	.675	11313	17.1	580	1N		P	0702	2.22	3.00				
GRP38268	21	1346	1356	1349	N04	W83	.993	11312	15.3	10	--N				.10					3 3 2 10
HUAN	21	1346	1355	1348	N03	W80	.985	11312	15.6	9	-N	2	C	1348	.10					
RAMY	21	1346	1357D		N04	W83	.993	11312	15.3	110	-N	2	C						D	
ATHN	21	1349E	1357D	1349	N05	W85	.996	11312	15.2	80	-N	1		1349	.10	.21	.99			
GRP38270	21	1737	1758	1747	N07	E47	.740	11328	25.3	21	--F				.35					2 2 2 5
HUAN	21	1733	1800	1748	N06	E47	.739	11328	25.3	27	-N	1	C	1748	.51	.74				
PALE	21	1741	1756	1746	N08	E46	.731	11328	25.2	15	-F	2	C		.19					
GRP38273	21	2100	2120	2108	N02	W62	.884	11313	17.2	20	--F				.44					2 2 2 5
PALE	21	2058	2123	2109	N01	W61	.875	11313	17.3	25	-F		C		.45					
HUAN	21	2101	2117	2107	N03	W63	.892	11313	17.2	16	-F	1	C	2107	.43	.92				
GRP38277	22	1115	1130	1118	N04	W47	.735	11334	18.9	15	--F				.17					2 1 1 5
ATHN	22	1115E	1130	1118	N04	W47	.735	11334	18.9	150	-F	1		1118	.17	.32	.72			
RAMY	22	1115	1137	1117	N03	W36	.592	11334	19.8	22	-F	3	C		.31				D	
GRP38278	22	1627	1731	1659	N08	E34	.578	11328	25.2	64	-B				1.46					5 5 4 5
HUAN	22	1623	1739	1658	N07	E34	.575	11328	25.2	76	-B	2	C	1658	1.06	1.30			E	
LOCK	22	1627	1640	1632	N08	E36	.605	11328	25.4	13	-F		C							
PALE	22	1630	1728	1656	N09	E34	.582	11328	25.2	58	1B	3	C		2.07				UD	
CATA	22	1640E	1720D	1705	N08	E34	.578	11328	25.2	400	1B		P	1705	1.86	2.26		224		
LOCK	22	1650	1730	1657	N08	E33	.564	11328	25.2	40	-B		C							
MCMA	22	1655E	1725		N10	E33	.573	11328	25.2	300	-B		C	1700	.83	1.00			E	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR- TANCE COND. TYPE	MEASUREMENTS				REMARKS		
	DATE 1971 MAY	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 Hr	MAX. INT. %
GRP38279	22	1818	1845	1825	N12	E28	.516	11328	24.9	27	--F			.29		5 5 3 5	
LOCK	22	1815	1845	1825	N11	E27	.497	11328	24.8	30	-F					F	
PALE	22	1818	1838	1823	N12	E28	.516	11328	24.9	20	-F	3	C	.27		E	
HUAN	22	1818	1823D	1821	N11	E27	.497	11328	24.8	5D	-N	2	P	1821	.18	.20	E
MCMA	22	1820	1850	1831	N12	E28	.516	11328	24.9	30	-F		C	1831	.41	.50	
CANR	22	1820	1848		N13	E29	.536	11328	24.9	28	-F	2	V			.40	
	22	2357	0000	NO FLARE PATROL													
GRP38283	23	1657	1711	1700	N11	E16	.349	11328	24.9	14	--F			.14		3 3 2 4	
LOCK	23	1655	1711	1700	N11	E15	.336	11328	24.8	16	-F		C			D	
HUAN	23	1658	1711	1701	N10	E16	.339	11328	24.9	13	-N	2	C	1701	.07	.08	D
MCMA	23	1659	1710	1700	N11	E16	.349	11328	24.9	11	-F		C	1700	.21	.20	
GRP38284	23	1942	2010	1953	N19	W14	.421	11326	22.8	28	--F			.18		2 2 1 4	
LOCK	23	1940	2005	1950	N19	W14	.421	11326	22.8	25	-F		C			D	
HUAN	23	1944	2014	1955	N18	W14	.408	11326	22.8	30	-F	2	C	1955	.18	.19	
GRP38287	24	0903	0919	0910	N10	E61	.881	11338	29.0	16	-N			.59		3 3 2 5	
ISTA	24	0900	0915		N10	E58	.856	11338	28.7	15	-F						
ATHN	24	0904E	0927	0909	N08	E62	.888	11338	29.0	23D	-N	1		0909	.66	1.34	.88
CATA	24	0905	0915	0910	N11	E63	.898	11338	29.1	10	-N		C	0910	.52	1.19	188
GRP38289	24	0940	1002	0943	N11	E63	.898	11338	29.1	22	-N			.77		3 3 2 4	
CATA	24	0940	0945D	0940	N10	E63	.897	11338	29.1	5D	1N	P	0940	1.04	2.38	186	
HURB	24	0943E	0955D	0945	N15	E63	.902	11338	29.1	12D	-N				1.77		
ATHN	24	0943E	1002	0944	N08	E62	.888	11338	29.1	19D	-N	1		0944	.50	.99	.88
290 CATA	24	1030	1040	1035	N11	E62	.890	11338	29.1	10	-N		C	1035	.58	1.28	186
GRP38291	24	1213E	1256	1247	N11	E62	.890	11338	29.2	43	--F			.29		2 2 2 5	
HUAN	24	1213E	1247D		N10	E62	.889	11338	29.2	34D	-N	2	P	1247	.35	.74	ET
BOUL	24	1242U	1256	1247U	N11	E61	.883	11338	29.1	14D	-F	1	C	1247	.22	.45	
GRP38294	24	1546	1820	1607	N09	E59	.864	11338	29.1	154	-F			.76		2 2 2 4	
HUAN	24	1546	1820	1606	N10	E58	.856	11338	29.0	154	-N	2	C	1606	.53	1.03	ET
ATHN	24	1607E	1645	1607	N08	E60	.871	11338	29.2	38D	-F	1		1607	.99	1.98	.88
GRP38297	25	0409E	0434	0412	N11	E57	.848	11338	29.4	25	-B			.82		2 2 2 5	
ATHN	25	0409E	0434	0412	N10	E58	.856	11338	29.5	25D	-B	1		0412	.33	.66	.85
TACH	25	0409E	0419D		N12	E55	.832	11338	29.3	10D	1N	V	0410	1.31	2.34	2.76	84
GRP38299	25	0638	0655	0648	N11	E49	.769	11338	29.0	17	--F			.45		3 2 2 10	
ATHN	25	0625E	0636	0628	N10	E57	.847	11338	29.5	11D	-N	1		0628	.17	.32	.83
MANI	25	0631	0655	0645	N13	E49	.774	11338	28.9	24	-F	2		0645	.31	.49	
CATA	25	0645	0655D	0650	N09	E49	.765	11338	29.0	10D	-N		P	0650	.58	.90	182
GRP38300	25	0726	0754	0731	N11	E51	.791	11338	29.1	28	-N			1.20		7 7 6 9	
MANI	25	0712E	0756	0729	N14	E50	.787	11338	29.0	44D	-N	2		0729	.52	.83	
CATA	25	0725	0800	0730	N10	E50	.778	11338	29.1	35	-N		C	0730	.80	1.35	282
MITK	25	0725	0737	0729	N12	E52	.803	11338	29.2	12	-B		C	0729	1.13	1.80	T
ZURI	25	0727	0730D	0730	N11	E47	.748	11338	28.8	3D	-N		P	0730	1.32	2.10	E
CAPP	25	0727E	0750D		N12	E51	.793	11338	29.1	23D	1N	P	0730	2.27	3.96		
CRON	25	0729E	0755	0737	N10	E50	.778	11338	29.1	26D	-N	3	V				
ATHN	25	0730E	0808	0733	N11	E56	.839	11338	29.5	38D	-B	1		0733	1.16	2.31	.83
MANI	25	0805	0820	0808	N13	E50	.785	11338	29.1	15	-N	2		0808	.52	.82	
6 STATIONS REPORTING GROUP 38302. 4 STATIONS OBSERVING AND NOT REPORTING.																	
GRP38302	25	0840	1003	0906	N12	E49	.772	11338	29.0	83	-N			.88		4 3 2 10	
MONT	25	0840	0912D	0910	N13	E51	.795	11338	29.2	32D	-N		C	0910	1.13		H
ATHN	25	0857	0919	0858	N09	E55	.827	11338	29.5	22	-F	1		0858	.17	.32	.82
HURB	25	0911E	1000D	0911	N12	E47	.750	11338	28.9	49D	1N					2.13	
ARCE	25	0916E	1003D		N12	E49	.772	11338	29.1	47D	-N		C	0916	.62	1.00	
38302	25	0911	0958	0942	N10	E50	.778	11338	29.1	47	*-B			1.07		2 2 2 5	
CATA	25	0910	1000	0945	N10	E49	.767	11338	29.1	50	-B		C	0945	.93	1.47	269
CAPE	25	0911	0955	0939	N10	E50	.778	11338	29.1	44	-N		C	0939	1.21	1.90	
305 HUAN	25	1345	1408	1349	N10	E46	.734	11338	29.0	23	-N	1	C	1349	.71	1.04	E 6
GRP38308	25	1735	1753	1741	N11	E44	.713	11338	29.0	18	--N			.63		2 2 1 2	
LOCK	25	1734	1750	1740	N10	E43	.699	11338	29.0	16	-N						
HUAN	25	1735	1755	1741	N12	E44	.716	11338	29.0	20	-N	1	C	1741	.63	.89	E
309 LOCK	25	2251	2300	2254	N11	E40	.665	11338	29.0	9	--F					3	
310 LOCK	25	2320	2332	2324	N11	E40	.665	11338	29.0	12	--F					3	

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION	CMP DAY	TIME UT	MEAS. AREA Sq. Deg.				CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
3 STATIONS REPORTING GROUP 38312.					2 STATIONS OBSERVING AND NOT REPORTING.													
GRP38312	26	0144	0218	0154	N12	E40	.668 11338 29.1	34	--F				.98				2 2 2 5	
MANI	26	0136	0154	0150	N13	E42	.696 11338 29.2	180	-N	2		0150	.83	1.14				
MITK	26	0152	0218	0158	N11	E38	.640 11338 28.9	26	-F		C	0158	1.13	1.50			E	
38312	26	0155	0218	0205	N13	E39	.660 11338 29.0	23	*-F				.64				2 2 2 5	
MANI	26	0154	02190	0209	N13	E39	.660 11338 29.0	250	-N	2		0209	.83	1.09			F	
PALE	26	0156	0217	0200	N12	E38	.644 11338 28.9	21	-F	2	C		.45					
GRP38316	26	1452	1504	1455	N11	E31	.548 11338 28.9	12	--N				.48				3 3 3 4	
BOUL	26	1450	1503	1454	N10	E31	.543 11338 28.9	13	-N	1	C	1454	.43	.51				
HUAN	26	1451	1459	1454	N11	E32	.561 11338 29.0	8	-N	2	C	1454	.28	.33			E	
RAMY	26	1454	1510	1456	N12	E31	.553 11338 28.9	16	-F	2	C		.72				D	
HUAN	26	1506	1515	1509	N11	E32	.561 11338 29.0	9	-N	1	C	1509	.33	.40			E	
HUAN	26	1511	1516	1513	N13	E33	.585 11338 29.1	5	-N	1	C	1513	.15	.19			E	
GRP38317	26	1525	1643		S08	W18	.327 11340 25.3	78	--N				.66				2 2 2 5	
CATA	26	1525E	1650D	1545	S08	W17	.312 11340 25.4	850	-N		P	1545	1.16	1.22		172	T	
HUAN	26	1603	1621	1608	S07	W18	.322 11340 25.3	18	-F	1	C	1608	.30	.32			E	
HUAN	26	1623	1635	1628	S07	W18	.322 11340 25.3	12	-N	1	C	1628	.15	.16			D	
GRP38319	26	1724	1741	1727	S08	W18	.327 11340 25.4	17	--F				.34				3 3 3 3	
HUAN	26	1645	1743	1727	S07	W18	.322 11340 25.3	58	-N	1	C	1727	.25	.26			E	
BOUL	26	1724	1741	1727U	S08	W18	.327 11340 25.4	17	-F	1	C	1727	.32	.34			F	
PALE	26	1725	1740	1728	S08	W18	.327 11340 25.4	15	-F	2	C		.45					
320 HUAN	26	1747	1808	1754	S07	W19	.338 11340 25.3	21	--F	1	C	1754	.12	.13			D	
321 PALE	26	1818	1823D	1819	S07	E17	.306 11333 28.0	50	--F	2	C		.19				F	
322 PALE	26	1819	1823D	1822	N15	E90	1.000 11344 2.5	40	--F	2	C		.27				3	
	26	2319	2328		NO FLARE PATROL													
323 PALE	27	0058	0111	0102	N12	E27	.499 11338 29.1	13	--F	2	C		.19				3	
GRP38325	27	0623	0651	0629	S09	W26	.454 11340 25.3	28	-N				1.06				3 3 2 5	
ATHN	27	0552E	0640	0625	S10	W26	.458 11340 25.3	480	-F	1		0625	.50	.99		.46		
CATA	27	0620E	0715D	0630	S08	W27	.465 11340 25.2	550	-B		P	0630	1.62	1.84		246	T	
CRON	27	0626	0638	0632	S09	W24	.424 11340 25.5	12	-N	3	V							
GRP38328	27	1143	1154	1146	S08	W30	.509 11340 25.2	11	--N				.37				3 3 3 8	
ATHN	27	1143	1145	1145	S08	W31	.524 11340 25.2	2	-N	1		1145	.33	.66		.52		
HUAN	27	1143E	1208	1147	S07	W30	.507 11340 25.2	250	-N	2	P	1147	.48	.57			D	
MEUD	27	1143E	1148D		S08	W29	.495 11340 25.3	50	-F			1145	.31	.30			CD	
GRP38329	27	1208	1224	1211	S09	W30	.513 11340 25.3	16	--N				.62				4 4 4 9	
HUAN	27	1206	1229	1211	S11	W27	.477 11340 25.5	23	-F	2	C	1211	.10	.12			D	
HUAN	27	1207	1224	1209	S09	W31	.527 11340 25.2	17	-N	2	C	1209	.33	.39			E	
MEUD	27	1208	1217		S09	W29	.498 11340 25.3	9	-F			1210	.62	.70			E	
CATA	27	1208E	1245D	1215	S08	W30	.509 11340 25.3	370	-B		P	1215	1.04	1.20		209	T	
ATHN	27	1209E	1210	1210	S09	W31	.527 11340 25.2	10	-N	1		1210	.50	.99		.53		
332 HUAN	27	1607	1718	1615	S08	W33	.553 11340 25.2	71	--N	2	C	1615	.53	.63			E	
334 HUAN	27	1854	1925	1907	N13	E87	.999 11344 3.3	31	--N	1	C	1907	.10				D	
335 HUAN	27	2053	2135	2101	N12	E85	.997 11344 3.2	42	--N	1	C	2101	.12				D	
336 HUAN	27	2148E	2151D	2150U	N13	E85	.997 11344 3.3	30	--N	1	P	2150	.15				E	
337 BOUL	27	2346U	0000D	2352U	N15	E21	.445 11338 29.6	140	--F	2	C	2352	.22	.24			2	
GRP38340	28	0704	0733	0715	S07	W42	.673 11340 25.1	29	-N				.73				4 4 3 5	
CAPE	28	0701	0732	0718	S07	W41	.660 11340 25.2	31	-N		C	0718	1.06	1.40				
MANI	28	0705	0717D	0710	S08	W42	.674 11340 25.1	120	-B	2		0710	.62	.83				
ATHN	28	0706	0740	0716	S07	W43	.685 11340 25.1	34	-N	1		0716	.50	.99		.69		
CRON	28	0712E	0726		S07	W43	.685 11340 25.1	140	-N	3	V							
GRP38342	28	0852	0909	0854	S07	W43	.685 11340 25.1	17	-F				.90				4 4 4 7	
CAPE	28	0848	0905	0853	S07	W42	.673 11340 25.2	17	-F		C	0853	1.01	1.40				
ABST	28	0850	0911	0853	S07	W44	.698 11340 25.1	21	1N		C	0853	1.71	2.40		62	EJZ	
ATHN	28	0855E	0910	0856	S07	W44	.698 11340 25.1	150	-F	1		0856	.17	.32		.70		
CATA	28	0855	0910	0855	S08	W43	.687 11340 25.1	15	-N		C	0855	.69	.97		178		
GRP38345	28	1031	1054	1038	S08	W42	.674 11340 25.3	23	--N				.50				3 3 2 5	
ABST	28	1025	1039D	1038	S08	W44	.699 11340 25.1	140	-F		P	1038	.90	1.20		54	DJZ	
ISTA	28	1030	1100	1037	S08	W42	.674 11340 25.3	30	-N								E	
ATHN	28	1037	1047	1040	S08	W41	.661 11340 25.4	10	-N	1		1040	.10	.20		.60		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
GRP38347 ATHN RAMY	28	1122	1139	1126	N13	E73	.960	11344	2.9	17	--N						2 2 2 4	
	28	1122E	1138	1127	N12	E72	.955	11344	2.9	160	-N	1	1127	.24	.32	.95		
	28	1122	1140	1124	N13	E74	.965	11344	3.0	18	-N	3	C	.17	.31		D	
GRP38349 MCMA RAMY CANR	28	1256	1310	1258	S08	W44	.699	11340	25.2	14	--F						3 3 2 7	
	28	1254	1307	1256	S08	W44	.699	11340	25.2	13	-F		1256	.57	.60		E	
	28	1255	1318	1259	S07	W45	.710	11340	25.2	23	-N	3	C	.41	.72		F	
	28	1300	1306		S08	W44	.699	11340	25.2	6	-F	2	V	.24		.20		
353 BOUL	28	1803U	1816	1809U	S08	W46	.723	11340	25.3	130	--F	1	C	1809	.22	.31		3
GRP38354 PALE BOUL LOCK CANR	28	1850	1903	1856	S08	W48	.747	11340	25.2	13	--F						4 4 2 5	
	28	1846	1905	1856	S09	W47	.736	11340	25.3	19	-F	2	C		.34		F	
	28	1847	1902U	1857	S07	W48	.746	11340	25.2	150	-F	1	C	1857	.36	.49		
	28	1850U	1905	1854	S07	W48	.746	11340	25.2	150	-F		C		.32			
	28	1855	1901		S07	W47	.734	11340	25.3	6	-F	2	V			2.00		
GRP38355 MCMA PALE	28	1950	2001	1954	S08	W47	.735	11340	25.3	11	--F						2 2 2 2	
	28	1950	1959	1953	S08	W46	.723	11340	25.4	9	-N		1953	.43	.60		E	
	28	1950	2003	1955	S07	W48	.746	11340	25.2	13	-F	2	C	.41	.45		F	
GRP38356 MCMA PALE	28	2011	2044	2019	S08	W47	.735	11340	25.3	33	--F						2 2 2 3	
	28	2008E	2040U		S08	W46	.723	11340	25.4	320	-N		2025	.44	.70		E	
	28	2014	2044	2019	S07	W48	.746	11340	25.2	30	-F	2	C	.52	.36		F	
GRP38357 PALE MCMA	28	2100	2112	2103	N11	E14	.317	11338	29.9	12	--F						2 2 2 3	
	28	2059	2114U	2104	N11	E14	.317	11338	29.9	190	-F	2	C		.41		F	
	28	2100	2109	2102	N11	E13	.305	11338	29.9	9	-F		2102	.45	.40		E	
358 PALE	28	2244	2256	2248	N11	E13	.305	11338	29.9	12	--F	2	C		.36	.40		F
GRP38361 MONT CATA	29	0821	0850	0824	N13	W06	.263	11338	28.9	29	--N						2 2 2 5	
	29	0821	0834U	0823	N13	W05	.257	11338	29.0	130	-N		0823	.86	1.13			
	29	0825E	0850U	0825	N13	W06	.263	11338	28.9	250	-N		P 0825	.58	.60	180		
GRP38362 HUAN MCMA RAMY CAPE HUAN CATA CANR	29	1209	1227	1213	N12	E60	.874	11344	3.0	18	-B				.92		6 6 5 6	
	29	1204	1225	1213	N11	E58	.856	11344	2.9	21	-B	1	C	1213	.38	.73	E	
	29	1206	1231	1213	N13	E60	.876	11344	3.0	25	-B		C	1213	.83	1.70	E	
	29	1206	1226	1211	N14	E60	.877	11344	3.0	20	-N	3	C		.93		F	
	29	1208	1224	1214	N13	E60	.876	11344	3.0	16	1N		C	1214	1.29	2.60		
	29	1208	1222	1214	N11	E63	.897	11344	3.2	14	-N	1	C	1214	.12	.26	D	
	29	1212E	1220U	1212	N12	E60	.874	11344	3.0	80	18		P	1212	1.16	2.47	224	
	29	1214	1230		N11	E60	.873	11344	3.0	16	-N	2	V		.54			
GRP38363 HUAN MCMA CANR	29	1215	1225	1217	S07	W57	.840	11340	25.2	10	--N				.26		3 3 2 5	
	29	1215	1223	1217	S08	W57	.841	11340	25.2	8	-N	1	C	1217	.15	.29	D	
	29	1215	1223	1217	S06	W57	.839	11340	25.2	8	-F		C	1217	.36	.70	E	
	29	1215	1230		S06	W58	.849	11340	25.2	15	-N	2	V		.36	.36		
GRP38367 HUAN MCMA CANR	29	1420	1441	1423	N13	W09	.286	11338	28.9	21	--N				.31		3 2 2 8	
	29	1419	1440	1423	N13	W09	.286	11338	28.9	21	-N	2	C	1423	.21	.21	E	
	29	1420	1440	1423	N13	W08	.278	11338	29.0	20	-N		C	1423	.41	.40	E	
	29	1437	1442		N13	W09	.286	11338	28.9	5	-F	3	V		.30			
GRP38368 MCMA CANR CATA	29	1526	1535	1527	N13	W09	.286	11338	29.0	9	--N				.37		3 3 2 9	
	29	1523	1535	1524	N13	W08	.278	11338	29.0	12	-N		C	1524	.15	.20	EL	
	29	1528	1536		N13	W09	.286	11338	29.0	8	-F	3	V		.20			
	29	1529E	1535U	1529	N13	W10	.296	11338	28.9	60	-B		P	1529	.58	.61	229	
	29	1546	1556	1548	S08	W60	.867	11340	25.2	10	-N				.88		8 8 6 8	
GRP38369 LOCK HUAN RAMY MONT MCMA CATA CAPS CANR	29	1545	1600	1548	S09	W61	.876	11340	25.1	15	-N							
	29	1545	1555	1548	S08	W60	.867	11340	25.2	10	-N	1	C	1548	.30	.63		
	29	1546	1554U	1548	S08	W60	.867	11340	25.2	80	-N	2	C		.52		D	
	29	1546	1554	1547	S08	W61	.876	11340	25.1	8	-N		C	1547	2.06			
	29	1546	1554	1548	S09	W60	.868	11340	25.2	8	-B		C	1548	.52	1.10	E	
	29	1547E	1555U	1547	S08	W60	.867	11340	25.2	80	-B		P	1547	.69	1.43	234	
	29	1548	1600		S09	W55	.822	11340	25.5	12	-B	2	V	1549	1.20	2.00	196	
	29	1548	1557		S07	W61	.875	11340	25.1	9	-N	3	V		.20			
	370 PALE	29	1749E	1757U	1749	S07	W58	.849	11340	25.4	80	--F	3	C		.26		F
	371 HUAN	29	1952	2002	1955	N13	W07	.270	11338	29.3	10	--F	1	C	1955	.18	.18	D
	372 HUAN	29	2002	2158	2146	S07	W63	.892	11340	25.1	116	--F	2	C	2146	.76	1.67	
374 HUAN	29	2051	2105	2055	N13	W07	.270	11338	29.3	14	--F	1	C	2055	.28	.29	E	
	30	0020	0027	NO FLARE PATROL														

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May 71

SOLAR FLARES

Confirmed

MAY 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %			
375 MANI	30	0210E	0217	0211	N11	W03	.213	11338	29.9	70	--N	2	0211	.31	.32				2	
	30	0413	0429	NO FLARE PATROL																
GRP38382 HTPR CAPS CANR	30	1007	1017	1007	N10	W25	.457	11338	28.5	10	--N			.36					3 3 2 7	
	30	1005	1015	1007	N09	W25	.451	11338	28.5	10	-F		1007	.31	.30					
	30	1007	1019		N09	W25	.451	11338	28.5	12	-N	3	V	1008	.40	.40		176	C	
	30	1008	1018		N11	W26	.477	11338	28.5	10	-N	2	V		.40	.40				
GRP38383 HTPR RAMY HUAN MCMA CAPS ATHN HUAN ATHN	30	1245	1318	1251	N12	E41	.678	11344	2.6	33	--F			.44					6 6 6 8	
	30	1243	1310	1252	N10	E45	.721	11344	2.9	27	-F		1252	.41	.50				D	
	30	1243	1323D	1247	N12	E40	.666	11344	2.5	40D	-F	3	C		.83				D	
	30	1243	1325	1255	N09	E39	.644	11344	2.5	42	-N	2	C	1255	.21	.27				D
	30	1247	1318	1250	N12	E38	.641	11344	2.4	31	-N	C	1250	.26	.30				D	
	30	1247	1321		N16	E42	.704	11344	2.7	34	-F	3	V	1249	.40	.60		147		
	30	1250E	1315	1250	N10	E42	.685	11344	2.7	250	-N	1		1250	.50	.99	.67			
	30	1252	1323	1309	N07	E39	.639	11344	2.5	31	-F	2	C	1309	.15	.20			D	
	30	1324E	1334	1324	N12	E41	.678	11344	2.6	100	-N	1		1324	.83	1.65	.67			
GRP38384 HUAN MCMA CATA HTPR	30	1353	1421	1358	S20	W65	.915	11348	25.7	28	--F			.28					4 4 4 8	
	30	1351	1425	1359	S20	W65	.915	11348	25.7	34	-N	2	C	1359	.25				D	
	30	1351	1430	1358	S22	W65	.917	11348	25.7	39	-F		1358	.26	.70			DJ		
	30	1355E	1405D	1355	S20	W64	.909	11348	25.8	100	-N		C	1355	.29	.68		195		
	30	1356	1409	1400	S18	W65	.913	11348	25.7	13	-F		1400	.31	.70					
GRP38386 ATHN CANR CATA HUAN	30	1429	1437	1432	S19	W64	.908	11348	25.8	8	--N			.39					4 3 3 9	
	30	1355	1419	1428	S19	W62	.893	11348	25.9	24	-F	1		1358	.50	.99	.89			
	30	1410	1425		S17	W63	.899	11348	25.9	15	-N	2	V		.50					
	30	1425E	1435D	1430	S20	W65	.915	11348	25.7	100	-N		P	1430	.46	1.10		172		
	30	1433	1508	1439	S20	W65	.915	11348	25.7	35	-N	1	C	1439	.21				D	
GRP38390 HUAN BOUL HTPR	30	1519	1548	1544	S18	W65	.913	11348	25.8	29	--F			.41					3 2 1 7	
	30	1519	1651D	1529	S20	W65	.915	11348	25.8	92D	-N	1	P	1529	.25				D	
	30	1523	1545	1540	S17	W64	.906	11348	25.8	22	-N	2	V							
	30	1547	1551	1548	S18	W65	.913	11348	25.8	4	-F		1548	.41	.80					
	30	2245	2246	NO FLARE PATROL																
	30	2258	2329	NO FLARE PATROL																
392 MANI	30	2330	2340	2333	N11	W12	.290	11338	30.1	10	--F	1	2333	.21	.22				1	
393 PALE	31	0058E	0117D	0100	N08	W34	.574	11338	28.5	19D	-N	2	C		.91				F	
	31	0117	0144	NO FLARE PATROL																
	31	0501	0507	NO FLARE PATROL																
394 CATA	31	0635	0645	0640	N27	E25	.599	11344	2.1	10	--N		C	0640	.58	.72		162	1	
GRP38396 ATHN MONT HUAN	31	1212	1522	1515	N09	W46	.730	11338	28.1	190	--F			.21					3 3 3 7	
	31	1212E	1514	1512	N10	W52	.797	11338	27.6	182D	-F	1		1512	.33	.66	.80			
	31	1512	1523D	1515	N09	W42	.682	11338	28.5	110	-N		C	1515	.21					
	31	1512	1529	1518	N09	W43	.694	11338	28.4	17	-F	1	C	1518	.10	.15			D	
GRP38397 HUAN RAMY ATHN MCMA	31	1353	1403	1355	N02	E86	.998	11352	7.0	10	-N			.29					4 4 2 8	
	31	1352	1359	1354	S00	E90	1.000	11352	7.3	7	-N	1	C	1354	.07				D	
	31	1352	1403D	1354	N02	E86	.998	11352	7.0	110	-N	3	C							
	31	1353E	1408	1356	N01	E84	.995	11352	6.9	150	-N	1		1356	.50	.99	.99		E	
	31	1354	1400	1355	N04	E85	.996	11352	7.0	6	-N		C	1355						
GRP38399 ATHN HUAN PALE RAMY	31	1620	1640	1628	S05	E89	1.000	11352	7.4	20	-N			.44					4 4 2 5	
	31	1552E	1627D	1625	S08	E90	1.000	11352	7.4	35D	-N	1		1625		1.10				
	31	1619	1635	1627U	S05	E90	1.000	11352	7.4	16	-N	1	P	1627	.33					
	31	1620	1645D	1632	S03	E85	.996	11352	7.1	25D	-N	2	C		.55					
	31	1622E	1632D		S04	E89	1.000	11352	7.4	100	-N	2	C						D	
	31	1645	1658	1649	N09	W42	.682	11338	28.5	13	--F			.40					3 3 3 5	
GRP38400 BOUL MCMA HUAN	31	1645	1658	1648	N09	W38	.631	11338	28.8	13	-F	1	C	1648	.54	.69				
	31	1645	1659	1648	N08	W39	.641	11338	28.8	14	-N	C	1648	.41	.50				E	
	31	1646	1658	1652	N10	W48	.754	11338	28.1	12	-F	1	C	1652	.25	.32			E	
	31	1705	1721	1709	N03	E85	.996	11352	7.1	16	-N			.48					5 5 1 6	
GRP38401 HUAN MCMA CANR RAMY BOUL	31	1704	1715	1708	N02	E86	.998	11352	7.2	11	-N	1	C	1708	.48				E	
	31	1704	1714	1709	N03	E85	.996	11352	7.1	10	-B		C	1709					EL	
	31	1705	1745	1710	N02	E86	.998	11352	7.2	40	1N	2	V	1710		2.30			D	
	31	1706E	1715	1708	N02	E86	.998	11352	7.2	9D	-N	2	C							
	31	1707	1715	1708	N06	E82	.991	11352	6.9	8	1N	3	V							

SOLAR FLARES Confirmed MAY 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	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.												
6 STATIONS REPORTING GROUP 38402. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP38402	31	1711	1744	1714	N12	E33	.576	11344	3.2	33	-N							6 6 4 6
PALE	31	1706	1736	1716	N13	E32	.568	11344	3.1	30	-B 2	C	1716	.94				Y
MCMA	31	1707	1755	1716	N13	E31	.555	11344	3.0	48	-B	C		.77	.90			E
RAMY	31	1710	1721D	1713	N12	E32	.563	11344	3.1	11D	-F	2	C		.93			F
HUAN	31	1710	1748	1713	N12	E33	.576	11344	3.2	38	-N	1	C	1713	.33	.40		E
BOUL	31	1712	1742	1714	N09	E33	.564	11344	3.2	30	-N	3	V					
CANR	31	1718	1740		N14	E34	.599	11344	3.3	22	-N	2	V			.60		
402 HUAN	31	1712	1722	1715	N13	E28	.515	11344	2.8	10	*-N	1	C	1715	.25	.29		E 4
GRP38403	31	1829	1840	1833	N13	W35	.607	11338	29.1	11	--F				.22			2 2 2 4
HUAN	31	1826	1840	1830	N13	W35	.607	11338	29.1	14	-F	1	C	1830	.12	.14		
MCMA	31	1832	1840	1835	N12	W35	.602	11338	29.1	8	-F		C	1835	.31	.40		D
GRP38404	31	2121	2145	2128	N08	W46	.728	11338	28.4	24	--N				.35			2 2 2 2
HUAN	31	2121	2143	2123	N08	W46	.728	11338	28.4	22	-N	1	C	2123	.15	.22		D
PALE	31	2132E	2147D	2133	N07	W46	.728	11338	28.4	15D	-N	2	C		.55			

"Remarks":

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

- N = Continuous spectrum shows effects of polarization.
- O = Observations have been made in the calcium II lines H or K.
- P = Flare shows helium D₃ in emission.
- Q = Flare shows the Balmer continuum in emission.
- R = Marked asymmetry in H α line.
- S = Brightening follows disappearance of filament (same position).
- T = Region active all day.
- U = Close and somewhat parallel bright filaments (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 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
710501	0.00	24.0	710510	19.18	23.0	710522	11.25	24.0
710502	36.74	24.0	710511	18.04	24.0	710524	9.79	24.0
710503	16.47	24.0	710512	65.72	24.0	710525	17.90	24.0
710504	9.24	24.0	710513	16.53	24.0	710526	0.00	23.9
710505	151.75	23.5	710514	136.07	23.8	710527	5.93	24.0
710506	16.94	24.0	710517	5.04	24.0	710528	7.09	24.0
710507	38.65	23.7	710518	104.81	24.0	710529	8.55	24.0
710508	30.99	23.8	710519	34.43	24.0	710530	0.00	23.1
710509	8.78	24.0	710520	167.88	24.0	710531	11.72	23.5

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

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May 71

SOLAR FLARES

Unconfirmed

MAY 1971

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS			
	DATE 1971 MAY	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %		
944	ATHN	01 0450	0517	0453	N08	W47	.748	11279	27.7	27	-N	1	0453	.66	1.34	.74		3		
946	ATHN	01 0649	0703	0651	N08	W49	.770	11279	27.6	14	-F	1	0651	.17	.32	.76		4		
947	ATHN	01 0916E	0925	0917	N06	E90	1.000	11296	8.1	90	-F	1	0917			1.00		6		
952	ATHN	02 0930E	0944D	0939	S10	E90	1.000	11297	9.1	140	-N	1	0939			1.00		5		
953	RAMY	02 1023	1054	1026	N08	W63	.899	11279	27.7	31	-F	1	C	1.24				D	6	
954	RAMY	02 1027	1058	1032	N13	E62	.898	11294	7.1	31	-F	1	C	.41				D	5	
955	ATHN	02 1155E	1215	1155	S10	E87	.998	11297	9.0	200	-N	1	1155	.17	.32	.99		6		
956	ATHN	02 1230	1233D	1231	N14	E60	.884	11294	7.0	30	-B	1	1231	.10	.20	.89		7		
960	PALE	03 0413	0429	0421	N14	E51	.806	11294	7.0	16	-N	1	C	.45				F	4	
961	CATA	03 0730	0750	0730	N15	E48	.779	11294	6.9	20	-N		C	0730	1.04	1.73		170	T	5
963	ATHN	03 1055E	1109	1055	S05	W25	.422	11281	1.6	140	-N	1	1055	.66	1.34	.42			7	
964	CATA	03 1140	1150	1140	N21	W04	.427	11292	3.2	10	-N		C	1140	.17	.19		158		9
965	MEUD	03 1155	1157D		S05	W30	.499	11281	1.2	20	-N		1156	.83	.90			E	9	
966	ATHN	03 1227E	1245D	1230	N07	E72	.955	11296	8.9	180	-N	1	1230	.17	.32	.96			8	
969	CANR	03 1603	1627	1607	S07	W31	.515	11281	1.3	24	-F	2	C	1607	.32	.38				6
973	BOUL	03 2138	2210	2138	N12	E40	.680	11294	6.9	32	-N	2	V							3
974	CRON	04 0014E	0016		N15	E39	.682	11294	6.9	20	-F	3	V							6
976	PALE	04 0119	0138	0125	N14	E37	.654	11294	6.8	19	-F	3	C		.19					5
977	PALE	04 0230	0249	0240	N13	E36	.637	11294	6.8	19	-N	3	C		.50					5
GRP37978	CRON	04 0316E	0324	0319	N13	E57	.858	11296	8.4	8	-F			.31					2 2 1	5
	MANI	04 0316E	0320	0319	N11	E57	.854	11296	8.4	40	-F	3	V							
	MANI	04 0319E	0328	0319	N14	E56	.851	11296	8.3	90	-N	1	0319	.31	.54					
982	MANI	04 0638	0649	0640	N12	E35	.619	11294	6.9	11	-N	1	0640	.41	.52					4
983	MANI	04 0654	0700	0656	N12	E34	.607	11294	6.8	6	-B	1	0656	.62	.77					3
985	CRON	04 0805	0810D		N12	E52	.810	11296	8.2	50	-N	3	V							6
GRP37986	MANI	04 0820	0838	0825	N18	W19	.482	11292	2.9	18	-N			.52					2 2 1	5
	ISTA	04 0820	0841	0825	N18	W17	.463	11292	3.1	21	-N	1	0825	.52	.57					
	ISTA	04 0820	0835		N18	W20	.492	11292	2.8	15	-N								DF	
GRP37987	MANI	04 0849	0918	0854	N14	E37	.654	11294	7.1	29	-N			.56					2 2 2	6
	ATHN	04 0849	0918	0853	N12	E34	.607	11294	6.9	29	-N	1	0853	.62	.77					
	ATHN	04 0854E	0900D	0854	N15	E39	.682	11294	7.3	60	-N	1	0854	.50	.99	.69				
988	ATHN	04 1018E	1024	1018	N15	E37	.659	11294	7.2	60	-N	1	1018	.50	.99	.64				4
989	RAMY	04 1156	1209	1158	N12	E55	.838	11296	8.6	13	-F	2	C		.41				D	5
990	RAMY	04 1211	1223	1215	N11	E29	.537	11294	6.7	12	-F	3	C		.31				D	5
001	MANI	05 0540	0605	0547	N13	E23	.475	11294	7.0	25	-N	2	0547	.62	.70					3
002	CATA	05 0630E	0640D	0630	N13	E18	.415	11294	6.6	100	-N		P	0630	.58	.64		178		5
003	HTPR	05 0800	0813	0803	N14	E22	.472	11294	7.0	13	-F		0803	.41	.40				E	9
GRP38004	HTPR	05 0830	0847	0835	N13	E21	.450	11294	6.9	17	-F			.53					2 2 2	8
	CANR	05 0830	0843	0835	N13	E24	.487	11294	7.2	13	-F		0835	.31	.30					
	CANR	05 0830	0850	0835	N12	E18	.404	11294	6.7	20	-N	2	C	0835	.75	.82				
GRP38006	CATA	05 1025E	1110	1050	N11	E16	.370	11294	6.6	45	-B			1.66					2 2 2	11
	ARCE	05 1025E	1110D	1050	N12	E17	.393	11294	6.7	450	-N		P	1050	1.39	1.52		191	Z	
	ARCE	05 1038E	1042D		N10	E15	.347	11294	6.6	40	-B		P	1040	1.92	2.00			F	
009	BOUL	05 1455	1502	1457	N11	E15	.358	11294	6.7	7	-N	3	V							6
011	RAMY	05 1550	1601	1552	S11	E37	.607	11297	8.4	11	-F	2	C		.26				D	6

SOLAR FLARES Unconfirmed

MAY 1971

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H _g	MAX. INT. %
017 MANI	1971 MAY 06	0609	0616	0612	N12	E04	.278	11294	6.6	7	-N 2	0612	.41	.46			3	
GRP38020	06	0900	0930	0902	N11	E05	.267	11294	6.8	30	-F		.68				2 1 1 9	
ARCE	06	0900	0930	0902	N11	E05	.267	11294	6.8	30	-F	0902	.68	.70				
ATHN	06	0920E	0933D	0920	N12	E05	.283	11294	6.8	13D	-N 1	0920	.17	.32	.31			
021 CATA	06	1020	1030	1020	N12	E08	.302	11294	7.0	10	-N	C	1020	.29	.30	195	T	7
022 CANR	06	1040	1115	1053	N13	E06	.304	11294	6.9	35	-N	2 C	1053	.43	.45			9
025 RAMY	06	1213	1221D	1217	N16	E30	.582	11296	8.8	8D	-F	3 C		1.03			US	10
026 CANR	06	1414	1428	1417	N15	E05	.331	11294	7.0	14	-N	2 C	1417	.43	.46			6
029 CATA	06	1645E	1650D	1645	N12	E03	.275	11294	6.9	5D	-B	P	1645	.63	.66	219		6
033 PALE	07	0212	0225	0216	N13	E01	.286	11294	7.2	13	-F	2 C		.27				5
035 ATHN	07	0517E	0534	0522	N19	E12	.430	11296	8.1	17D	-F	1	0522	.83	1.65	.37		7
036 ATHN	07	0558E	0607	0559	N07	E49	.766	11315	10.9	9D	-F	1	0559	.17	.32	.76		7
038 ATHN	07	0717E	0729	0717	N19	E12	.430	11296	8.2	12D	-F	1	0717	.50	.99	.36		12
GRP38040	07	0855	0907	0857	N16	W04	.341	11294	7.1	12	-N			.14				2 2 2 9
ATHN	07	0850	0906	0853	N16	W02	.337	11294	7.2	16	-N	1	0853	.17	.38	.35		
CANR	07	0900	0907	0901	N16	W05	.345	11294	7.0	7	-N	2 C	0901	.11	.11			
GRP38041	07	0905	0920	0911	N13	W06	.303	11294	6.9	15	-N			.48				2 2 2 9
CATA	07	0905	0920	0910	N13	W07	.309	11294	6.9	15	-N	C	0910	.29	.30	174		
ATHN	07	0909E	0920	0911	N12	W05	.281	11294	7.0	11D	-N	1	0911	.66	1.35	.30		
GRP38043	07	1033	1056	1045	N15	W05	.329	11294	7.1	23	-F			.28				2 2 2 11
ATHN	07	1033	1051	1042	N14	W04	.309	11294	7.1	18	-N	1	1042	.33	.66	.33		
CANR	07	1040U	1100	1047U	N15	W05	.329	11294	7.1	20D	-F	2 C	1047	.22	.23			
044 CATA	07	1240E	1305D	1250	N16	W07	.354	11294	7.0	25D	-N	P	1250	.17	.19	153		10
046 CATA	07	1505E	1515D	1510	N16	W08	.360	11294	7.0	10D	-N	P	1510	.17	.19	170		7
049 PALE	07	1725	1735	1729	N14	W10	.345	11294	7.0	10	-F	1 C		.19				4
GRP38057	08	0425	0441	0428	N16	W15	.414	11294	7.1	16	-F			.43				2 2 2 5
ATHN	08	0420E	0438	0424	N15	W15	.402	11294	7.1	18D	-F	1	0424	.33	.66	.41		
MANI	08	0430	0444	0432	N16	W15	.414	11294	7.1	14	-F	2	0432	.52	.56			
059 CATA	08	0610	0615D	0610	N14	W17	.411	11294	7.0	5D	-N	P	0610	.58	.63	182		8
060 ZURI	08	0637	0640	0637	N05	E63	.895	11301	13.0	3	-N	C	0637	.53	1.10			8
GRP38061	08	0642E	0653	0645	N05	E66	.917	11301	13.2	11	-N			.33				2 2 1 10
ONDR	08	0642E	0653		N05	E63	.895	11301	13.0	11D	1N	V	0646		2.70		C	
ATHN	08	0645E	0653	0645	N05	E68	.930	11301	13.4	8D	-N	1	0645	.33	.66	.91		
062 ATHN	08	0715E	0728	0719	N11	W21	.429	11294	6.7	13D	-N	1	0719	.17	.32	.45		8
063 CAPF	08	0810E	0830D		N11	W20	.416	11294	6.8	20D	1F	P	0813	3.92	4.37			13
GRP38065	08	1212	1229	1218	N14	W20	.445	11294	7.0	17	-N			.96				2 2 2 9
CANR	08	1203	1229	1213	N16	W19	.455	11294	7.1	26	-N	2 C	1213	1.51	1.68			
RAMY	08	1220	1228	1222	N12	W21	.438	11294	6.9	8	-N	3 C		.41			D	
068 ATHN	08	1609E	1615	1609	N03	E90	1.000	11312	15.4	6D	-F	1	1609			1.00		8
073 ATHN	09	0519	0525	0521	N16	W36	.650	11294	6.5	6	-N	1	0521	.33	.66	.65		7
074 ATHN	09	0713E	0715	0713	N15	W35	.632	11294	6.7	2D	-F	1	0713	.33	.66	.63		9
076 ARCE	09	0905	0945	0915	N07	E46	.732	11301	12.8	40	-F	C	0915	.42	.60			11
079 ATHN	09	1140	1150	1144	N20	W85	.998	11292	3.1	10	-N	1	1144	.33	.66	.99		6
081 HUAN	09	1720	1734	1725U	N13	W41	.693	11294	6.6	14	-N	1 P	1725	.38	.52		D	7
083 PALE	09	2104E	2105D	2104	N13	W45	.738	11294	6.5	1D	-F	2 C		.17				4
084 CRON	10	0357	0405	0401	N16	W48	.779	11294	6.6	8	-F	2 V						4
085 ATHN	10	0544E	0558	0548	N15	W50	.796	11294	6.5	14D	-F	1	0548	.50	.99	.78		4

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR-TANCE	OBS. COND. TYPE	TIME UT	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX.	CENTRAL	MCMATH	CMP	MEAS. AREA					CORR. AREA	MAX. WIDTH	MAX. INT.		
					LAT.	MER. DIST.	DISTANCE	PLAGE REGION	DAY					Sq. Deg.	Sq. Deg.	Hg	%	
	1971 MAY																	
086	ATHN	10 0658E	0708	0700	N04	E61	.878 11312	14.9	100	-F	1	0700	.33	.66	.93	6		
087	ATHN	10 0724	0740	0726	N14	W42	.708 11294	7.2	16	-F	1	0726	.17	.32	.69	6		
089	ATHN	10 1107E	1109D	1107	N13	W41	.692 11294	7.4	20	-N	1	1107	.50	.99	.68	7		
090	CATA	10 1212E	1230D	1212	N14	W43	.719 11294	7.3	180	-N	P	1212	.58	.85		168		
4 STATIONS REPORTING GROUP 38093.					2 STATIONS OBSERVING AND NOT REPORTING.													
GRP38093	HUAN	10 1641	1755	1709	N10	W52	.803 11294	6.8	74	-F			.28			2 2 2 6		
	HUAN	10 1641	1755	1709U	N09	W52	.801 11294	6.8	74	-N	2	P 1709	.30	.50		D		
	HCM	10 1700E	1745D		N11	W52	.805 11294	6.8	450	-F		C 1705	.26	.40		D		
	38093	10 1650	1725	1656	N10	W52	.803 11294	6.8	35	*-F			.36			2 2 1 7		
	LOCK	10 1650	1720	1657	N10	W52	.803 11294	6.8	30	-F		C						
	PALE	10 1650	1730	1655	N09	W51	.791 11294	6.9	40	-F	2	C	.36					
095	PALE	11 0004	0027	0016	N14	W62	.897 11294	6.4	23	-F	2	C	.36			4		
096	CRON	11 0043	0050	0045	N15	W60	.884 11294	6.5	7	-F	3	V				4		
099	ATHN	11 0512	0529	0515	N13	W64	.910 11294	6.4	17	-F	1	0515	.50	.99	.92	6		
101	ATHN	11 0721E	0731	0721	N13	W55	.838 11294	7.2	100	-N	1	0721	.33	.66	.85	8		
102	ATHN	11 0732	0744	0733	N10	W68	.933 11294	6.2	12	-F	1	0733	.50	.99	.94	6		
103	WEND	11 0751	0803		N15	W64	.913 11294	6.5	12	-N						9		
GRP38104	WEND	11 0814	0827	0823	N15	W65	.919 11294	6.5	13	-N			.17			2 2 1 7		
	ATHN	11 0814	0826		N16	W64	.914 11294	6.5	12	-N								
	ATHN	11 0823E	0828	0823	N14	W65	.918 11294	6.5	50	-N	1	0823	.17	.32	.93			
GRP38105	WEND	11 0856	0951	0927	N15	W67	.932 11294	6.3	55	-F			1.63			2 2 2 10		
	WEND	11 0856	0930D		N13	W65	.917 11294	6.5	340	1N	P		3.09					
	ATHN	11 0925	0945	0927	N15	W68	.938 11294	6.3	20	-F	1	0927	.17	.32	.94			
	WEND	11 0935	0956		N15	W65	.919 11294	6.5	21	-N								
106	ARCE	11 0957	1000D		N05	E52	.794 11312	15.3	30	-N	P	1000	.68	1.10		T 9		
GRP38107	WEND	11 0958	1015		N15	W66	.926 11294	6.5	17	-N						2 2 0 9		
	WEND	11 0958	1015		N16	W65	.921 11294	6.5	17	-N								
	CANR	11 1000	1015		N13	W67	.930 11294	6.4	15	-N	3	V		.50				
GRP38108	WEND	11 1104	1114	1107	N15	W66	.926 11294	6.5	10	-N			.72			2 2 1 12		
	WEND	11 1101	1117		N16	W65	.921 11294	6.6	16	-N								
	MONT	11 1107	1111	1107	N14	W67	.931 11294	6.4	4	-N	C	1107	.72					
109	ATHN	11 1142E	1154	1144	N15	W68	.938 11294	6.4	120	-F	1	1144	.17	.32	.94	11		
GRP38110	CANR	11 1230	1239		N07	E84	.995 11313	17.8	9	-F						2 2 0 11		
	CANR	11 1230	1238		N08	E82	.992 11313	17.7	8	-F	3	V		.60				
	RAMY	11 1232E	1240		N05	E85	.997 11313	17.9	80	-F	1	C				D		
112	ATHN	11 1410E	1419D	1412	N15	W68	.938 11294	6.5	90	-F	1	1412	.17	.32	.94	6		
GRP38113	ATHN	11 1444E	1501	1447	N04	E78	.979 11313	17.5	17	-F			.19			2 2 2 6		
	ATHN	11 1444E	1501D	1446	N04	E78	.979 11313	17.5	170	-F	1	1446	.17	.32	.98			
	HUAN	11 1445E	1449D	1447U	N03	E77	.975 11313	17.4	40	-F	1	P 1447	.21					
114	ATHN	11 1533E	1538	1536	N08	E88	1.000 11313	18.2	50	-F	1	1536	.17	.32	.99	7		
115	ATHN	11 1602E	1639D	1602	N04	E55	.823 11312	15.8	370	-F	1	1602	.66	1.34	.83	5		
GRP38116	LOCK	11 1638	1714	1642	N12	W70	.947 11294	6.4	36	-F			.45			2 2 1 7		
	LOCK	11 1637	1710	1642	N13	W70	.947 11294	6.4	33	-F		C						
	PALE	11 1639	1650	1642	N12	W69	.941 11294	6.5	11	-N	3	C	.45			D		
	PALE	11 1708	1717	1715	N11	W69	.940 11294	6.5	9	-F	3	C	.27					
118	PALE	11 1722	1733	1725	N07	E46	.732 11312	15.2	11	-F	2	C	.19			F 5		
123	MITK	11 2346	0003	2348	N02	E46	.723 11312	15.4	17	-F		C 2348	.83	1.20		E 5		
124	MANI	12 0103E	0128	0108	N15	W72	.959 11294	6.6	250	-N	2	0108	.83	1.95		5		
125	CRON	12 0129E	0147		N04	E75	.967 11313	17.7	180	-F	3	V				5		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1971 MAY	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 Hc	MAX. INT. %	
GRP38127 MANI CULG	12	0201	0216	0212	N05	E80	.986	11313	18.1	15	1N							
	12	0201E	0216	0212	N05	E80	.986	11313	18.1	150	1N	2	0212	.93	2.39			2 1 1 5
	12	0208	02220	0212	N12	E71	.952	11313	17.4	140	1B		P	0210	1.65			
128 CULG	12	0251	0313	0254	N03	E44	.700	11312	15.4	22	1N		C	0254	1.86	2.50		5
GRP38129 ATHN CRON	12	0342	0432	0342	N11	W67	.928	11294	7.1	50	-N				.99			2 1 1 6
	12	0342E	0432	0342	N10	W70	.945	11294	6.9	500	-N	1	0342	.99	1.98	.94		
	12	0350	0400		N12	W64	.909	11294	7.4	10	-N	3	V					
130 ATHN	12	0458E	0508	0500	N12	W53	.817	11296	8.2	100	-N	1	0500	.17	.32	.91		7
GRP38131 ATHN WEND WEND	12	0649	0707	0658	N13	W75	.971	11294	6.7	18	-N				.17			2 2 1 10
	12	0649E	0709	0658	N10	W74	.965	11294	6.7	200	-N	1	0658	.17	.32	.98		
	12	0649	0704		N14	W77	.979	11294	6.5	15	-N							
	12	0652	0659		N17	W76	.976	11294	6.6	7	-F							
133 WEND	12	0801	0822		N15	W80	.988	11294	6.3	21	-N							11
134 WEND	12	0913	0921		N15	W80	.988	11294	6.4	8	-N							9
137 ABST	12	1115E	11350	1116	N05	E70	.942	11313	17.7	200	-F		P	1116	.45			D 11
GRP38138 HUAN ATHN	12	1159	1205	1202	N05	E38	.627	11312	15.3	6	-F				.29			2 2 2 10
	12	1159	1204	1201	N04	E37	.611	11312	15.3	5	-N	2	C	1201	.25	.31		D
	12	1202E	1206	1202	N05	E38	.627	11312	15.4	40	-F	1		1202	.33	.66	.61	
GRP38139 HUAN ATHN	12	1213	1300	1242	N05	E66	.917	11313	17.5	47	-N				.40			2 2 2 11
	12	1213	1310	1240	N04	E66	.916	11313	17.5	57	-N	2	C	1240	.30	.68		E
	12	1236E	1250	1243	N05	E66	.917	11313	17.5	140	-N	1		1243	.50	.99	.91	
GRP38141 HUAN ATHN	12	1412	1438	1424	N05	E39	.640	11312	15.5	26	-F				.31			2 2 2 6
	12	1412	1445	1423	N05	E39	.640	11312	15.5	33	-N	1	C	1423	.28	.36		
	12	1424E	1430	1425	N05	E38	.627	11312	15.4	60	-F	1		1425	.33	.66	.61	
GRP38142 HUAN BOUL	12	1418	1424	1420	N13	W81	.990	11294	6.5	6	-F				.15			2 2 1 8
	12	1418	1425	1420	N14	W79	.985	11294	6.7	7	-F	1	C	1420	.15			D
	12	1418	1422	1420	N12	W83	.994	11294	6.4	4	-N	3	V					
143 HUAN	12	1529	1545	1538	N12	W79	.984	11294	6.7	16	-N	1	C	1538	.21			D 8
GRP38145 HUAN BOUL	12	1607	1618	1611	N18	E03	.362	11316	12.9	11	-N				.18			2 2 1 9
	12	1605	1616	1610	N17	E04	.349	11316	13.0	11	-N	2	C	1610	.18	.19		D
	12	1609	1620	1612	N18	E02	.360	11316	12.8	11	-N	2	V					
146 MCMA	12	1653	1700	1656	S06	E12	.213	11303	13.6	7	-N		C	1656	.52	.60		E 7
148 LOCK	12	1833	1905	1842	N12	W81	.990	11294	6.7	32	1F		C					7
149 HUAN	12	1852	19130	1907	N13	W63	.903	11296	8.1	210	-F	1	P	1907	.30	.66		D 5
150 MANI	13	0702	0710	0705	N18	W08	.380	11316	12.7	8	-F	2		0705	.21	.22		8
151 ONDR	13	0703E	0708		N06	E54	.816	11313	17.3	50	-F		V	0704			2.30	CDJR 8
152 ONDR	13	0740E	0752		N04	E53	.803	11313	17.3	120	-N		V	0741			2.20	DHJ 8
158 CATA	13	1105	1130	1110	N13	W90	1.000	11294	6.7	25	-N		C	1110	.34			176 T 12
159 ONDR	13	1108	1115		N06	W05	.177	11301	13.1	7	-N		V	1110			2.40	CEH 12
161 HUAN	13	1238	1255	1245	N03	E53	.802	11313	17.5	17	-F	2	C	1245	.15	.25		D 11
GRP38162 ATHN HUAN	13	1304	1340	1315	N02	E52	.790	11313	17.4	36	-N				.32			2 2 2 13
	13	1302E	1336	1314	N01	E52	.789	11313	17.4	340	-N	1		1314	.33	.66	.37	
	13	1305	1344	1315	N02	E52	.790	11313	17.4	39	-N	2	C	1315	.30	.48		E
163 CATA	13	1310	1335	1315	N13	W90	1.000	11294	6.8	25	-N		C	1315	.34			151 13
GRP38165 HUAN ATHN	13	1403	1440	1418	N02	E52	.790	11313	17.5	37	-N				.26			2 2 2 10
	13	1403	1440	1416	N03	E52	.791	11313	17.5	37	-N	2	C	1416	.18	.28		D
	13	1418E	14250	1419	N01	E52	.789	11313	17.5	70	-N	1		1419	.33	.66	.37	
166 HUAN	13	1446	1521	1452	N03	E52	.791	11313	17.5	35	-N	2	C	1452	.23	.36		E 8
167 RAMY	13	1507	1518	1509	N06	W07	.196	11301	13.1	11	-N	2	C		.21			D 6
168 HUAN	13	1507	1518	1512	N19	W12	.421	11316	12.7	11	-F	2	C	1512	.12	.14		D 7

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OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION MIN.	IM- POR- TANCE	OBS. COND.	TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE DISTANCE	REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %			
169	HUAN	13	1523	1615	1545	N02	E50	.769	11313	17.4	52	-N	2	C	1545	.43	.68			E	6
170	LOCK	13	1615	16350	1630	N14	W81	.990	11294	7.6	200	-F		C							7
171	HUAN	13	1653	17190	1703	N12	W80	.987	11296	7.7	260	-N	2	C	1703	.25					6
172	HUAN	13	1659	17190	1705	N03	E49	.759	11313	17.4	200	-N	2	P	1705	.15	.23			E	6
173	BOUL	13	1701U	1715U	1708U	N11	W81	.990	11294	7.6	140	-F	1	C	1708	.11					5
176	CATA	14	0525	05400	0530	N01	E15	.267	11312	15.4	150	-N		P	0530	.40	.42		158		7
178	HURB	14	0857E	09210	0902	N05	E42	.678	11313	17.5	240	1N						2.08			12
182	HUAN	14	1240	1258	1247	N01	E11	.202	11312	15.4	18	-N	2	C	1247	.43	.44				12
183	HUAN	14	1309	1325	1318	N03	E38	.621	11313	17.4	16	-N	2	C	1318	.25	.31			D	10
GRP38184	HUAN	14	1325	1334	1327	N05	E13	.261	11312	15.5	9	-F				.14				2 2 2	10
	ATHN	14	1323	1332	1327	N04	E13	.253	11312	15.5	9	-N	2	C	1327	.10	.11			D	
		14	1326	1335	1327	N05	E13	.261	11312	15.5	9	-F	1		1327	.17	.32	.25			
186	HUAN	14	2058E	21300	2105	N13	E22	.453	11319	16.5	320	-N	2	P	2105	.78	.87			E	5
190	MANI	15	0212E	0228	0214	N05	W57	.843	11315	10.8	160	-N	2		0214	.41	.71				4
191	MANI	15	0248E	0258	0250	S10	W81	.987	11297	9.0	100	-N	2		0250	.21	.54				4
193	PALE	15	0403	0414	0407	S01	E01	.034	11312	15.2	11	-F	2	C		.36					4
195	CATA	15	1215	1300	1225	N04	E25	.436	11313	17.4	45	-N		C	1225	.69	.77		186	T	9
197	HUAN	15	1520	1524	1522U	N02	E23	.398	11313	17.4	4	-N	2	C	1522	.23	.25			D	7
198	ATHN	15	1558	1605	1600	N03	E20	.355	11313	17.2	7	-N	1		1600	.10	.20	.36			7
199	HUAN	15	1615E	1627	1619	N03	E25	.433	11313	17.6	120	-N	2	C	1619	.30	.33			D	7
200	HUAN	15	1705	1732	1711	N03	E24	.417	11313	17.5	27	-N	2	C	1711	.33	.36			D	4
GRP38205	CATA	16	1120	1150	1126	N02	W13	.238	11312	15.5	30	-N				.63				2 2 2	10
	ATHN	16	1120	1150	1125	N02	W14	.254	11312	15.4	30	-N		C	1125	.75	.78		170		
		16	1123E	11430	1126	N02	W12	.222	11312	15.6	200	-N	1		1126	.50	.99	.22			
GRP38206	CATA	16	1313	1344	1319	N12	W02	.254	11319	16.4	31	-F				.35				2 2 2	9
	RAMY	16	1310	13300	1320	N12	W02	.254	11319	16.4	200	-N		P	1320	.29	.30		166		
	CATA	16	1315	1343	1318	N12	W02	.254	11319	16.4	28	-F	3	C		.41				D	
		16	1335E	1345	1335	N12	W01	.252	11319	16.5	100	-N		P	1335	.58	.60		174		
209	PALE	16	2218E	2251		U	S07	W54	.809	11318	12.9	330	-F	2	C						5
210	LOCK	16	2355	0025	0005	N03	W22	.386	11312	15.3	30	-F		C							5
211	ATHN	17	0655E	0658	0655	N18	W36	.655	11312	14.6	30	-F	1		0655	.17	.32	.95			12
212	ATHN	17	0728E	0730	0729	S06	W60	.865	11318	12.8	20	-F	1		0729	.17	.32	.84			11
GRP38213	CATA	17	0825	0844	0829	S04	W59	.856	11318	12.9	19	-N				.28				2 2 2	11
	ATHN	17	0825	08450	0830	S03	W58	.847	11318	13.0	200	-N		P	0830	.23	.44		188		
		17	0827E	0843	0828	S04	W59	.856	11318	12.9	160	-N	1		0828	.33	.66	.86			
GRP38214	ARCE	17	0836	0851	0838	N06	E00	.147	11313	17.4	15	-F				.45				2 2 1	11
	CANR	17	0835	0855	0839	N04	W01	.114	11313	17.3	20	-F		C	0839	.45	.50			T	
		17	0837	0846	0837	N07	E01	.165	11313	17.4	9	-F	3	V	0837	.20					
215	ATHN	17	0908	0919	0911	S04	W59	.856	11318	13.0	11	-F	1		0911	.17	.32	.86			10
GRP38216	CAPS	17	1020	1124	1055	N05	E00	.130	11313	17.4	64	-F				.60				2 1 1	9
	CATA	17	1020	1124		N05	E00	.130	11313	17.4	64	-F		V	1022	.60	.60		147		
		17	1040E	11450	1055	N08	E00	.182	11313	17.4	650	-N		P	1055	1.44	1.48		188	T	
GRP38218	HUAN	17	1403	1412	1407	S03	W80	.984	11315	11.6	9	-N				.49				2 2 2	12
	MONT	17	1401	1412	1406	S02	W79	.981	11315	11.7	11	-N	2	C	1406	.25				D	
		17	1405	1411	1407	S03	W81	.987	11315	11.5	6	-N		C	1407	.72					
219	PALE	17	1644	16490	1646	N05	W30	.513	11312	15.4	50	-F	2	C		.27				F	7
220	PALE	17	1709E	17200	1709	N02	W09	.174	11313	17.0	110	-N	2	C		.08					6

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS				
	DATE 1971 MAY	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 Hg	MAX. INT. %					
221 PALE	17	1848	1858	1852	N05	W31	.528	11312	15.5	10	-F	2	C	.19					F	5		
224 CRON	18	0201E	0204		S04	W69	.933	11318	12.9	30	-F	3	V							4		
227 ATHN	18	0430E	0447	0443	S06	W72	.950	11318	12.8	170	-N	1		0443	.33	.66	.94			6		
229 ATHN	18	0921	0931	0925	N04	W14	.265	11313	17.3	10	-F	1		0925	.17	.32	.96			10		
GRP38230	18	1047	1053	1050	S05	W73	.956	11318	13.0	6	-F				.65				2	2	2	10
MONT	18	1045	1051	1048	S05	W72	.950	11318	13.0	6	-N		C	1048	1.13							
ATHN	18	1048	1054	1051	S05	W74	.961	11318	12.9	6	-F	1		1051	.17	.32	.95					
231 MONT	18	1309	1317	1313	S05	W73	.956	11318	13.1	8	-N		C	1313	.52						12	
232 HUAN	18	1337	1351	1344	S04	W77	.974	11318	12.8	14	-N	2	C	1344	.28				D		9	
234 BOUL	18	1914	1934	1919	S03	W82	.990	11318	12.7	20	-N	2	V								4	
235 BOUL	18	2000	2015	2003	S03	W82	.990	11318	12.7	15	-N	2	V								4	
237 CRON	19	0222	0234		S03	W88	.999	11318	12.5	12	-F	3	V								4	
239 ATHN	19	0430E	0448	0433	S04	W85	.996	11318	12.8	180	-F	1		0433	.17	.32	.98				4	
240 ATHN	19	0459E	0542	0501	S05	W85	.996	11318	12.8	430	-N	1		0501	.33	.66	.98				4	
GRP38241	19	0617	0647	0620	S04	W85	.996	11318	12.9	30	-N				.33				2	1	1	10
ATHN	19	0617E	0641	0620	S05	W85	.996	11318	12.9	240	-N	1		0620	.33	.66	.98					
CAPS	19	0628	0652		S03	W85	.996	11318	12.9	24	-F		P									
242 ATHN	19	0808E	0816	0813	N13	E50	.787	11326	23.1	80	-N	1		0813	.33	.66	.78				10	
243 ATHN	19	0813	0841	0836	S06	W88	.999	11318	12.7	28	-N	1		0836	.33	.66	.99				13	
GRP38245	19	1037	1047	1039	N14	E73	.962	11328	24.9	10	-F				.33				2	1	1	11
ATHN	19	1037E	1047	1039	N14	E73	.962	11328	24.9	100	-F	1		1039	.33	.66	.94					
MONT	19	1045	1114	1101	N11	E78	.981	11328	25.3	29	-N		C	1101	1.55							
GRP38248	19	1436	1459	1443	N12	E72	.956	11328	25.0	23	-N				.66				2	1	1	12
ATHN	19	1436E	1459	1443	N12	E72	.956	11328	25.0	230	-N	1		1443	.66	1.34	.97					
HUAN	19	1453	1507	1500	N12	E73	.961	11328	25.1	14	-N	2	C	1500	.10			D				
GRP38250	19	1607	1624	1613	N15	E45	.740	11326	23.0	17	-F				.33				2	2	1	11
LOCK	19	1607	1622	1612	N15	E44	.729	11326	23.0	15	-F		C									
ATHN	19	1612E	1626	1614	N15	E46	.751	11326	23.1	140	-N	1		1614	.33	.66	.75					
251 LOCK	19	1628	1637	1632	S02	W82	.990	11318	13.5	9	-F		C								9	
252 CATA	19	1635E	1650D	1635	N13	E69	.940	11328	24.9	150	-N		P	1635	.40					199	9	
256 HUAN	19	1853	1900	1856	N13	E69	.940	11328	25.0	7	-N	2	C	1856	.18			D			6	
260 CRON	19	2346E	2358		N13	E67	.928	11328	25.0	120	-F	2	V								3	
GRP38262	20	1440E	1508	1447	N11	E58	.859	11328	25.0	28	-N				.48				2	2	2	7
CATA	20	1440E	1510D	1445	N12	E57	.851	11328	24.9	300	-N		P	1445	.46	.90				170		
ATHN	20	1444E	1505	1448	N10	E59	.866	11328	25.0	210	-N	1		1448	.50	.99	.86					
263 ATHN	20	1547	1557	1549	N12	E29	.531	11326	22.8	10	-F	1		1549	.17	.32	.52				5	
264 MANI	21	0104	0111	0107	S12	W04	.187	11322	20.7	7	-F	2		0107	.41	.40					5	
265 PALE	21	0327	0348	0334	N09	E56	.837	11328	25.3	21	-F	1	C		.27			F			7	
GRP38266	21	0523	0539	0525	S11	W08	.208	11322	20.6	16	-N				.53				2	2	2	8
MANI	21	0523	0535	0524	S11	W08	.208	11322	20.6	12	-N	2		0524	.72	.73						
ATHN	21	0523	0543	0526	S11	W08	.208	11322	20.6	20	-N	1		0526	.33	.66	.21					
267 ATHN	21	0710E	0725D	0710	N10	E51	.790	11328	25.1	150	-F	1		0710	.33	.66	.84				9	
269 ATHN	21	1349E	1405D	1349	N03	E45	.710	11328	25.0	160	-F	1		1349	.66	1.34	.21				10	
271 HUAN	21	1753	1821	1805	N04	W62	.885	11313	17.1	28	-N	1	C	1805	.28	.56		D			5	
272 HUAN	21	1853	1945	1916	N03	W62	.884	11313	17.1	52	-N	1	C	1916	.35	.71					4	
274 HUAN	21	2151	2159D	2158	N03	W63	.892	11313	17.2	80	-F	1	P	2158	.30	.63					4	
275 ATHN	22	0449E	0457	0449	N17	E35	.634	11328	24.8	80	-F	1		0449	.17	.32	.65				5	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS				
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	OMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %					
276 MANI	1971 MAY 22	0733E	0747	0735	N05	W69	.935	11313	17.1	140	-N	1	0735	.62	1.33				9			
280 HUAN	22	1928	1935	1931	N05	W74	.962	11313	17.3	7	-N	2	C	1931	.23				D	4		
281 HUAN	23	1344	1358	1349	N07	E24	.431	11328	25.4	14	-F	2	C	1349	.15	.17			D	7		
282 ATHN	23	1455E	1510	1456	N15	W03	.293	11326	23.4	150	-F	1		1456	.17	.32	.30			4		
285 MANI	24	0837	0849	0844	N10	E62	.889	11338	29.0	12	-F	2		0844	.41	.79				6		
GRP38286	24	0859	0907	0903	N03	E11	.207	11328	25.2	8	-N			.19					2	2	2	6
MANI	24	0858	0904	0902	N03	E10	.191	11328	25.1	6	-N	2		0902	.21	.21						
ATHN	24	0900	0909	0903	N03	E11	.207	11328	25.2	9	-N	1		0903	.17	.32	.21					
288 ATHN	24	0927E	0937	0929	N14	E01	.270	11328	24.5	100	-F	1		0929	.17	.32	.28				4	
292 HUAN	24	1405	1423	1412	N11	E61	.883	11338	29.2	18	-N	2	C	1412	.45	.92			E		7	
293 HUAN	24	1504	1515	1512	N10	E59	.865	11338	29.1	11	-N	2	C	1512	.33	.67			E		6	
295 HUAN	24	1836	1935D	1843	N10	E57	.847	11338	29.0	590	-N	2	P	1843	.71	1.31			ET		4	
296 LOCK	24	2237	2252	2241	N16	E56	.848	11338	29.1	15	-F		C									5
298 HURB	25	0601E	0619D	0609	N12	E48	.761	11338	28.9	180	1B						2.59		H		6	
GRP38301	25	0825	0836	0830	N09	E50	.776	11338	29.1	11	-F			.46					2	2	1	8
CATA	25	0825	0840	0830	N09	E50	.776	11338	29.1	15	-N	C	0830	.46	.74		186	T				
CRON	25	0828E	0832		N09	E50	.776	11338	29.1	40	-F	3	V									
303 ATHN	25	1035E	1100	1038	N07	E54	.815	11339	29.5	250	-F	1		1038	.17	.32	.82				6	
304 HUAN	25	1217	1226	1221	N10	E48	.756	11338	29.1	9	-F	1	C	1221	.21	.31					8	
306 HUAN	25	1448	1502	1455	N10	E47	.745	11338	29.1	14	-N	1	C	1455	.15	.23			D		7	
307 HUAN	25	1637	1643	1640	N10	E43	.699	11338	28.9	6	-N	1	C	1640	.25	.35			D		8	
GRP38311	26	0035	0110	0046	N12	E43	.704	11338	29.2	35	-F			.62					2	2	1	6
LOCK	26	0035	0110	0050	N11	E43	.701	11338	29.2	35	-F	C										
MANI	26	0037E	0044D	0041	N13	E42	.696	11338	29.2	70	-F	2		0041	.62	.87						
313 ATHN	26	0622E	0644	0624	N08	E90	1.000	11346	2.0	22D	-N	1		0624			1.00				7	
314 CATA	26	0740E	1005D	0755	S08	W12	.236	11340	25.4	145D	-F	P	0755	.58	.60		148	T		7		
315 CATA	26	1010E	1150D	1030	S08	W14	.266	11340	25.4	100D	-N	P	1030	.87	.90		151	T		6		
GRP38318	26	1620	1646	1628	N11	E30	.535	11338	28.9	26	-N			.30					2	2	2	7
HUAN	26	1620	1641	1625	N10	E30	.529	11338	28.9	21	-N	1	C	1625	.25	.29			D			
CATA	26	1625E	1650D	1630	N11	E30	.535	11338	28.9	25D	-N	P	1630	.34	.41		186	T				
324 CRON	27	0336	0344	0340	S09	W23	.409	11340	25.4	8	-F	3	V								7	
GRP38326	27	0754	0800	(0755)	S09	W26	.454	11340	25.4	6	-F			.62					2	2	1	9
HURB	27	0753E	0800D	0753	S08	W25	.435	11340	25.5	7D	1N					2.10						
MEUD	27	0754	0759D		S09	W27	.469	11340	25.3	5D	-F		0756	.62	.70			ET				
327 ATHN	27	1011	1023	1014	S09	W28	.483	11340	25.3	12	-N	1		1014	.33	.66	.50				4	
GRP38330	27	1228	1259	1233	S08	W29	.495	11340	25.3	31	-F			.47					2	2	2	8
HUAN	27	1228	1552	1233	S07	W30	.507	11340	25.3	204	-N	2	C	1233	.63	.64			ET			
MEUD	27	1232E	1236		S08	W29	.495	11340	25.3	40	-F		1232	.31	.30			C				
HUAN	27	1309	1322	1313	S07	W28	.477	11340	25.4	13	-N	2	C	1313	.28	.32			D			
HUAN	27	1339	1356	1347	S07	W28	.477	11340	25.5	17	-F	2	C	1347	.40	.46						
331 HUAN	27	1253	1300	1256	N05	W38	.622	11328	24.7	7	-F	1	C	1256	.25	.31			D		8	
333 HUAN	27	1726	1802	1731	S07	W34	.565	11340	25.2	36	-N	2	C	1731	.45	.55			E		4	
338 ATHN	28	0512E	0530	0514	S07	W40	.647	11340	25.2	18D	-F	1		0514	.66	1.34	.65				4	
339 ATHN	28	0635	0656	0640	S07	W40	.647	11340	25.3	21	-F	1		0640	.50	.99	.65				5	
GRP38341	28	0809	0828	0815	S07	W43	.685	11340	25.1	19	-F			1.03					2	2	2	9
ABST	28	0802E	0827	0812	S07	W43	.685	11340	25.1	25D	1N	P	0812	1.89	2.60		66	EJZ				
ATHN	28	0815	0828	0818	S07	W43	.685	11340	25.1	13	-F	1		0818	.17	.32	.69					
343 ARCE	28	0922E	0930D		S09	W42	.676	11340	25.2	8D	-F	P	0930	.45	.60						8	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS			
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %				
344	ABST	28	1007	1020	1010	N15	E78	.981	11344	3.3	13	1N	C	1010	.81			62	DJZ	8	
GRP38346	28	1040	1051	1044	N13	E77	.977	11344	3.2	11	-F				.90				2 2 1 5		
ISTA	28	1040	1050		N10	E78	.980	11344	3.3	10	-N								D		
ABST	28	1044E	1052	1044	N16	E75	.970	11344	3.1	8D	1F	P	1044	.90				59	DJ		
348	ATHN	28	1205	1220	1208	N12	E72	.955	11344	2.9	15	-F	1	1208	.17	.32	.95			10	
350	ATHN	28	1258	1310	1300	N08	E75	.967	11344	3.2	12	-F	1	1300	.17	.32	.96			6	
351	HUAN	28	1513	1532D	1519	S07	W47	.734	11340	25.1	19D	-F	1	P	1519	.35	.51			E	4
352	PALE	28	1634	1646	1638	N12	E69	.938	11344	2.9	12	-F	1	C		.36					6
359	CATA	29	0515E	0525D	0515	N09	E09	.233	11338	29.9	10D	-N	P	0515	.23	.24		160		4	
360	ATHN	29	0732E	0747	0735	N10	W16	.332	11338	28.1	15D	-F	1	0735	.33	.66	.21			7	
364	HUAN	29	1323	1352	1332	S08	W58	.850	11340	25.2	29	-F	1	C	1332	.78	1.44			E	5
365	HUAN	29	1400	1406	1402	N13	W09	.286	11338	28.9	6	-N	2	C	1402	.43	.45			D	6
GRP38366	29	1406	1416	1407	N11	E57	.847	11344	2.9	10	-N				.07				2 2 1 7		
HUAN	29	1405	1417	1407	N11	E57	.847	11344	2.9	12	-N	2	C	1407	.07	.13			D		
CANR	29	1407	1415		N10	E57	.846	11344	2.9	8	-N	3	V			.20					
373	HUAN	29	2005	2035	2007	N12	W07	.255	11338	29.3	30	-N	1	C	2007	.12	.13			D	4
376	ABST	30	0711	0730D	0714	N13	W13	.325	11338	29.3	19D	-F	P	0714	.90	.90				E	5
377	ABST	30	0714	0742	0718	S08	W68	.928	11340	25.2	28	-F	C	0718	.81					DJ	5
378	ABST	30	0733E	0751D	0744	S21	W60	.881	11332	25.8	18D	1F	P	0744	1.08	2.40				DF	7
379	ATHN	30	0739	0749	0740	N09	W07	.210	11338	29.8	10	-F	1	0740	.17	.32	.23				7
380	ARCE	30	0808E	0831D		N12	E47	.748	11344	2.9	23D	-F	C	0815	.32	.50					9
381	ATHN	30	0815	0828D	0820	N03	E90	1.000	11351	6.1	13D	-N	1	0820			1.00				9
385	HUAN	30	1423	1434	1427	N09	W07	.210	11338	30.1	11	-N	1	C	1427	.21	.21			E	7
387	ATHN	30	1430E	1432D	1430	N10	E07	.224	11356	31.1	20	-F	1	1430	.33	.66	.22				8
GRP38388	30	1445	1506	1452	N08	W11	.244	11338	29.8	21	-F				.16				2 2 2 8		
HUAN	30	1444	1502	1453	N08	W10	.231	11338	29.9	18	-N	1	C	1453	.10	.11			D		
MCMA	30	1446	1510	1450	N08	W12	.258	11338	29.7	24	-F	C	1450	.21	.20				DHL		
389	ATHN	30	1450E	1515	1452	N08	E10	.231	11356	31.4	25D	-F	1	1452	.17	.32	.25				8
391	HUAN	30	2107	2136	2116	S08	W77	.974	11340	25.1	29	-F	2	C	2116	.38					4
395	ISTA	31	1010	1030D		S07	W81	.988	11340	25.3	20D	-N									8
398	HUAN	31	1554	1608	1600	N10	W38	.634	11338	28.8	14	-F	1	C	1600	.23	.29			E	4