SOLAR FLARES
Confirmed
DECEMBER 1971

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971	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. %	
	DEC																		
545 TEHR	01	0522	0536	0527	S15	W51	.797	11619	27.4	14	--F	3	C		.19				D 2
546 TEHR	01	0609	0623	0613	N11	W43	.693	11621	28.0	14	--F	3	C		.19				F 2
547 TEHR	01	0618	0635	0622	S15	W56	.844	11619	27.1	17	--F	3	C		.19				F 3
GRP41549	01	0949	0958	0951	S16	W63	.902	11619	26.7	9	-N				.64				6 6 5 7
ISTA	01	0947	0958	0950	S16	W60	.879	11619	26.9	11	-N								D
TEHR	01	0948	0956	0950	S16	W63	.902	11619	26.7	8	-N	3	C		.36				F
CAPE	01	0948	1003	0950	S15	W63	.901	11619	26.7	15	-N		C	0950	.86	2.00			
ATHN	01	0949	0955	0950	S16	W66	.922	11619	26.5	6	-N	2	C		.66				D
HTPR	01	0949	0957	0950	S16	W65	.916	11619	26.5	8	-N		C	0950	.83	1.60			
CRON	01	0951	0959	0954	S16	W59	.871	11619	27.0	8	-F	3	V	0954	.50				
GRP41550	01	0955	1005	0958	N15	W45	.727	11621	28.0	10	--N				.31				4 4 3 7
TEHR	01	0954	1006	0958	N17	W44	.721	11621	28.1	12	-N	3	C		.28				F
HTPR	01	0955	1003	0958	N15	W45	.727	11621	28.0	8	-F		C	0958	.31	.40			
ISTA	01	0955	1004		N13	W44	.710	11621	28.1	9	-N								D
ATHN	01	0956	1007	0957	N15	W45	.727	11621	28.0	11	-N	2	C		.33				D
GRP41551	01	1132	1143	1136	N15	W46	.738	11621	28.0	11	--N				.56				6 6 6 7
ATHN	01	1131	1141	1136	N15	W47	.749	11621	28.0	10	-N	3	C		.33				DH
TEHR	01	1132	1143	1137	N17	W45	.732	11621	28.1	11	-N	3	C		.28				D
HTPR	01	1132	1139	1134	N15	W46	.738	11621	28.0	7	-B		C	1134	.83	1.10			
CAPE	01	1132	1143	1135	N16	W46	.741	11621	28.0	11	-N		C	1135	1.12	1.70			H
CANR	01	1133	1142	1135	N14	W45	.724	11621	28.1	9	-B	3	C	1135	.43	.63			
CATA	01	1140E	1150	1140	N13	W45	.721	11621	28.1	10D	-N		P	1140	.34	.51		199	
GRP41552	01	1410	1432	1416	S14	W59	.858	11619	27.2	22	-N				.46				4 4 4 6
MCMA	01	1409	1427D	1413	S14	W58	.860	11619	27.2	18D	-N		C	1413	.52	1.00			E
RAMY	01	1411	1435	1413	S13	W60	.875	11619	27.1	24	-F	3	C		.36				D
ATHN	01	1416E	1428	1418	S15	W60	.878	11619	27.1	12D	-N	2	C		.66				D
CATA	01	1420E	1425D	1420	S12	W58	.857	11619	27.2	5D	-N		P	1420	.29	.58		182	
GRP41553	01	2210	2249	2221	N12	W55	.826	11621	27.8	39	--F				.26				2 2 1 3
LOCK	01	2210	2250	2222	N11	W55	.824	11621	27.8	40	-F		C						
PALE	01	2217E	2247	2219	N13	W54	.817	11621	27.9	30D	-N	3	C		.26				
GRP41554	02	0044	0220	0138	S15	W66	.921	11619	27.1	96	1B				3.51				4 4 4 7
CULG	02	0044	0230	0137	S14	W68	.933	11619	26.9	106	2B			0137	4.23				
PALE	02	0113E	0151D	0135	S16	W66	.922	11619	27.1	38D	1B	2	C		1.80				
MITK	02	0125E	0230		S13	W65	.913	11619	27.2	65D	2N		P	0157	4.85				F
KODA	02	0140E	0200	0142	S16	W66	.922	11619	27.1	20D	1B		P	0157	3.17	3.20	2.24		
41554	02	0106	0202	0114	S15	W67	.927	11619	27.0	56	*1B				1.62				5 5 5 5
CULG	02	0044	0230	0113	S16	W64	.909	11619	27.2	106	2B		C	0113	2.58				FK
CRON	02	0103	0205	0116U	S14	W66	.920	11619	27.1	62	1N	2	C	0116	1.29				
MANI	02	0105	0148	0109	S15	W70	.945	11619	26.8	43	1B	1		0109	1.65	3.50			
VORO	02	0111	0155		S16	W68	.934	11619	26.9	44	1B		C	0115	1.02	2.50		108	CEJ
PALE	02	0113E	0151D	0119	S16	W66	.922	11619	27.1	38D	1B	2	C		1.54				F
GRP41556	02	0150	0203	0152	N11	W56	.834	11621	27.9	13	-N				1.33				4 4 4 8
KODA	02	0149E	0157		N08	W56	.831	11621	27.9	8D	-B		P	0157	1.14	1.20			E
MITK	02	0150E	0321D	0151	N12	W55	.826	11621	28.0	91D	1F		C	0151	2.48	4.30			EK
CULG	02	0150	0209	0153	N12	W57	.845	11621	27.8	19	1B		C	0153	1.44				
PALE	02	0151E	0156D	0151	N12	W55	.826	11621	28.0	5D	-N	1	C		.27				F
GRP41557	02	0304	0340	0308	S16	W68	.934	11619	27.0	36	-B				1.29				3 2 2 5
MITK	02	0229	0340	0309	S16	W68	.934	11619	27.0	71	1N		C	0309	.72				D
MANI	02	0242E	0306	0244	S15	W70	.945	11619	26.9	24D	-N	1		0244	.62	1.33			
KODA	02	0304	0308D	0307	S15	W67	.927	11619	27.1	4D	-B		S	0304	1.85	1.80	1.88		E
GRP41559	02	0637	0655	0640	N13	W59	.863	11621	27.9	18	-N				.76				2 2 2 4
CAPE	02	0636	0655	0640	N13	W58	.855	11621	27.9	19	-N		C	0640	.86	1.70			
ATHN	02	0638	0655	0639	N12	W59	.862	11621	27.9	17	-N	2	C		.66				D
GRP41561	02	1045	1115	1050	S09	W62	.887	11619	27.8	30	-N				.63				2 2 2 5
CATA	02	1045	1115	1050	S10	W62	.888	11619	27.8	30	-N		C	1050	.80	1.79		162	
TEHR	02	1050E	1053D	1050	S08	W62	.886	11619	27.8	3D	-N	3	C		.45				U
GRP41563	02	1404	1445	1414	S16	W71	.951	11619	27.3	41	1N				2.01				5 5 5 5
MCMA	02	1403	1450	1417	S16	W73	.961	11619	27.1	47	-N		C	1417	.52	1.80			E
RAMY	02	1405	1440	1411	S15	W73	.960	11619	27.1	35	1N	2	C		1.24				F
CANR	02	1405	1445	1414	S17	W73	.951	11619	27.1	40	1N	3	C	1414	.75				
CAPS	02	1410E	1412D		S16	W66	.922	11619	27.6	2D	1N	1	S	1411	5.80			160	E
CATA	02	1415E	1430D	1415	S15	W70	.945	11619	27.3	15D	1B		P	1415	1.73			226	
564 RAMY	02	1440	1454	1443	N12	W62	.887	11621	28.0	14	--F	2	C		.67				D 3

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
565 RAMY	02	1533	1546	1537	N12	W62	.887	11621	28.0	13	--F	2	C		.26				D 2
566 MCMA	02	1625E	1635	1626	N11	W64	.901	11621	27.9	10D	--N		C	1626	.41	1.00			E 2
GRP41567	02	1637	1644	(1638)	S15	W76	.973	11619	27.0	7	-N				.43				2 2 2 2
MCMA	02	1635	1645	1636	S16	W76	.973	11619	27.0	10	-N		C	1636	.26	1.10			D
CANR	02	1639	1642		S14	W76	.973	11619	27.0	3	-N	2	V	1640	.60	1.50			
	02	1702	1734	NO FLARE PATROL															
568 RAMY	02	2005	2014	2007	S10	W82	.991	11619	26.7	9	--F	1	C						D 3
GRP41569	02	2117	2123	2120	S17	W75	.970	11619	27.3	6	--F				.62				2 2 1 2
RAMY	02	2117	2123	2119	S16	W78	.981	11619	27.0	6	-F	1	C						D
PALE	02	2117	2123	2120	S17	W72	.957	11619	27.5	6	-N	3	C		.62				
	02	2136	2202	NO FLARE PATROL															
GRP41570	02	2218	2235	2222	S16	W78	.981	11619	27.1	17	1B				1.16				2 2 2 2
PALE	02	2218	2233	2223	S16	W79	.984	11619	27.0	15	1N	2	C		1.08				F
MANI	02	2221E	2236	2221	S15	W76	.973	11619	27.2	15D	1B	2		2221	1.24	2.90			
GRP41571	02	2333	2351	2338	N10	W69	.935	11621	27.8	18	-B				.83				2 2 2 3
PALE	02	2332	2349	2335	N08	W68	.928	11621	27.9	17	-B	1	C		.63				
MANI	02	2334	2353	2340	N12	W70	.941	11621	27.7	19	1N	2		2340	1.03	2.20			
573 TEHR	03	0355	0402D	0402	N12	W74	.962	11621	27.6	7D	1N	2	C		1.19				F 3
574 MITK	03	0445	0456D	0448	S12	W23	.440	11625	1.5	11D	1F		C	0448	3.82	4.10			E 4
575 TEHR	03	0459	0522	0514	S17	E84	.995	11632	9.5	23	-N	2	C		.28				D 2
GRP41576	03	0652	0708	0655	N11	W72	.952	11621	27.9	16	--F				.44				3 3 3 5
CATA	03	0650E	0710	0655	N10	W72	.952	11621	27.9	20D	-N		P	0655	.17			199	
ABST	03	0653	0659	0655	N11	W74	.962	11621	27.7	6	1F		C	0655	.81				DZ
ATHN	03	0655E	0714D	0655	N12	W70	.942	11621	28.0	19D	-F	2	C		.33				D
GRP41580	03	0819	0834	0821	N11	W75	.967	11621	27.7	15	-N				.79				3 3 3 8
TEHR	03	0818	0837	0822	N12	W75	.967	11621	27.7	19	-N	3	C		.55				F
ABST	03	0818E	0831	0821	N11	W75	.967	11621	27.7	13D	1F		P	0821	1.08				DZ
CATA	03	0820	0835	0820	N11	W74	.962	11621	27.8	15	-N		C	0820	.75			199	
GRP41581	03	0852	0901	0854	S14	E75	.969	11632	9.0	9	--N				.21				2 2 2 7
ATHN	03	0851	0901	0853	S15	E76	.973	11632	9.1	10	-N	3	C		.33				D
TEHR	03	0852	0900	0855	S13	E73	.959	11632	8.8	8	-N	3	C		.09				D
GRP41584	03	1002	1014	1005	S04	E48	.745	11630	7.0	12	--N				.21				3 3 3 7
ATHN	03	1001	1019	1005	S06	E47	.736	11630	6.9	18	-N	3	C		.33				D
TEHR	03	1002	1013	1005	S03	E48	.745	11630	7.0	11	-B	3	C		.09				D
HTPR	03	1003	1011	1004	S04	E49	.757	11630	7.1	8	-F		C	1004	.21	.30			
GRP41587	03	1108	1131	1116	N11	W79	.982	11621	27.5	23	-N				.94				8 8 5 9
CAPS	03	1105E	1127D		N10	W83	.993	11621	27.2	22D	-B	2	P						
ATHN	03	1107	1115	1110	N13	W75	.967	11621	27.8	8	-F	3	C		.50				DH
HTPR	03	1108	1120	1110	N12	W78	.979	11621	27.6	12	-N		C						
TEHR	03	1108	1129	1115	N12	W79	.982	11621	27.5	21	-N	1	C		.55				FH
MONT	03	1109	1143	1125	N12	W79	.982	11621	27.5	34	1N		C	1125	2.27				
RAMY	03	1109	1123	U	N12	W76	.971	11621	27.8	14	-F	2	C						D
CANR	03	1113	1200		N12	W75	.957	11621	27.8	47	-F	2	V	1115	.70	1.90			
CATA	03	1120E	1130	1120	N08	W90	1.000	11621	26.7	10D	1N		P	1120	.69			166	
GRP41588	03	1239	1252	1244	S10	E07	.220	11628	4.1	13	--F				.29				3 3 3 6
TEHR	03	1236	1251	1245	S08	E08	.204	11628	4.1	15	-F	2	C		.19				D
RAMY	03	1239	1255	1243	S11	E07	.235	11628	4.1	16	-F	3	C		.37				D
CANR	03	1241	1249	1243	S11	E05	.219	11628	3.9	8	-N	3	C	1243	.32	.32			
590 RAMY	03	1503	1515	1505	S13	W29	.527	11625	1.5	12	--F	3	C		.56				D 3
591 RAMY	03	1711	1722	1714	S14	W30	.546	11625	1.5	11	--F	3	C		.28				D 2
GRP41592	03	1730	1748	1734	N11	W78	.979	11621	27.9	18	-N								2 2 0 3
RAMY	03	1730	1750	1734	N12	W73	.958	11621	28.3	20	-N	3	C						D
LOCK	03	1730	1746	1734	N09	W82	.990	11621	27.6	16	-N		C						H
593 LOCK	03	1812	1835	1818	S18	W81	.989	11619	27.7	23	--F		C						3
	03	1905	1915	NO FLARE PATROL															
	03	1920	1925	NO FLARE PATROL															

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	DATE 1971	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. %	
	DEC																		
	03	1927	1947	NO FLARE PATROL															
	03	1952	1955	NO FLARE PATROL															
	03	2001	2004	NO FLARE PATROL															
	03	2015	2018	NO FLARE PATROL															
	03	2046	2055	NO FLARE PATROL															
	03	2110	2125	NO FLARE PATROL															
597 ATHN	04	0559E	0606	0559	S03	E38	.618	11630	7.1	7D	--N	1	C		.50				D 3
605 LOCK	04	1918	1950	1930	N08	W82	.990	11623	28.7	32	--F		C						2
606 BOUL	04	2130	2139	2134U	S16	E49	.778	11632	8.6	9	--N	2	C	2134	.22	.34			3
9 STATIONS REPORTING GROUP 41609. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP41609	05	0923	0955	0928	S06	E21	.373	11630	7.0	32	--N				.51				7 7 7 8
CAPS	05	0905E	1001D		S07	E22	.393	11630	7.0	56D	-N	2	V	0930	.80	.90		182	E
ARCE	05	0910	0920	0910	S07	E21	.378	11630	7.0	10	-F		C	0910	.31	.30			
HTPR	05	0920	1010	0927	S06	E21	.373	11630	7.0	50	-N		C	0927	.52	.60			E
MONT	05	0921	0931	0928	S06	E21	.373	11630	7.0	10	-N		C	0928	.72				
CANR	05	0923	1004	0927	S06	E21	.373	11630	7.0	41	-N	3	C	0927	.43	.46			
TEHR	05	0923	1007	0930	S08	E21	.384	11630	7.0	44	-N	3	C		.23				FH
CRON	05	0925E	0935		S06	E22	.389	11630	7.0	10D	-N	3	V		.40				
ARCE	05	0925	1000	0929	S06	E20	.358	11630	6.9	35	-F		C	0929	.46	.50			K
41609	05	0932	1009	0943	S06	E21	.373	11630	7.0	37	*-N				.71				3 3 3 9
MONT	05	0932	1009	0943	S06	E21	.373	11630	7.0	37	-N		C	0943	.72				
ABST	05	0933E	0940D	0938	S06	E20	.358	11630	6.9	7D	-F		P	0938	.90	1.00			D
ATHN	05	0948E	0949D	0948	S06	E22	.389	11630	7.1	1D	-N	1	C		.50				D
GRP41610	05	1555	1607	1558	S13	E42	.691	11632	8.8	12	--F				.35				2 2 2 3
HUAN	05	1554	1605	1557	S13	E42	.691	11632	8.8	11	-N	1	C	1557	.33	.45			D
RAMY	05	1555	1608	1558	S13	E42	.691	11632	8.8	13	-F	2	C		.36				D
612 LOCK	05	1920	1955	1935	N11	E29	.511	11634	8.0	35	--F		C						3
GRP41613	05	1932	1945	1935	S12	E68	.931	11639	10.9	13	--F				.36				3 3 2 3
RAMY	05	1932	1949	1935	S12	E70	.943	11639	11.1	17	-F	2	C		.36				D
LOCK	05	1932	1941	1935	S13	E68	.932	11639	10.9	9	-F		C						
PALE	05	1933	1946	1935	S10	E67	.924	11639	10.8	13	-N	2	C		.36				F
GRP41616	06	1319	1326	1321	N23	E68	.938	11640	11.7	7	--N				.39				3 3 3 7
RAMY	06	1318	1328	1322	N23	E70	.949	11640	11.8	10	-F	2	C		.36				D
MONT	06	1318	1325	1322	N23	E69	.943	11640	11.7	7	-N		C	1322	.52				
CATA	06	1320	1325	1320	N24	E66	.928	11640	11.5	5	-N		C	1320	.29			172	
GRP41617	06	1444	1501	1446	S06	E05	.139	11630	7.0	17	--F				.58				3 3 3 7
HTPR	06	1443	1500	1445	S06	E03	.121	11630	6.8	17	-F		C	1445	.83	.80			E
RAMY	06	1445	1507	1447	S07	E07	.175	11630	7.1	22	-F	3	C		.46				D
CATA	06	1445	1455	1445	S08	E04	.160	11630	6.9	10	-N		C	1445	.46	.47		182	
CATA	06	1445	1455	1445	S05	E04	.115	11630	6.9	10	-N		C	1445	.17	.17		170	
GRP41618	06	2011	2027	2016	S17	W74	.965	11625	1.3	16	--F				.27				2 2 1 4
LOCK	06	2010	2025	2015	S18	W73	.961	11625	1.4	15	-F		C						
PALE	06	2011	2029	2016	S15	W74	.964	11625	1.3	18	-N	3	C		.27				
GRP41622	07	0930	0950	0936	S14	E16	.362	11632	8.6	20	-N				1.40				6 6 6 9
CANR	07	0927	0955	0935	S13	E15	.339	11632	8.5	28	-N	2	V	0935	.80	.90			
CRON	07	0930	0949	0937	S19	E20	.460	11632	8.9	19	-N	2	C	0937	.43	.48			
ARCE	07	0930E	0950		S12	E15	.329	11632	8.5	20D	-F		C	0935	.57	.60			
MONT	07	0931	0948	0935	S12	E17	.355	11632	8.7	17	-N		C	0935	2.27				
CAPE	07	0932	0950	0935	S12	E16	.342	11632	8.6	18	-N		C	0935	1.21	1.30			
WEND	07	0935E	0948		S14	E15	.350	11632	8.5	13D	1N		V		3.09				
GRP41625	07	1209	1232	1213	S13	E15	.339	11632	8.6	23	-N				.92				4 4 4 6
CANR	07	1207	1230D	1211	S13	E14	.327	11632	8.6	23D	-N	2	C	1211	.32	.34			
CAPS	07	1209E	1235D		S16	E19	.419	11632	8.9	26D	-N	2	P	1212	1.20	1.30		181	
CAPE	07	1210	1235	1213	S12	E14	.317	11632	8.6	25	-F		C	1213	1.04	1.10			H
MONT	07	1211	1228	1214	S12	E14	.317	11632	8.6	17	-N		C	1214	1.13				
GRP41628	07	1440	1449	(1446)	S15	E13	.340	11632	8.6	9	--N				.40				2 2 1 4
WEND	07	1440E	1449D		S14	E11	.306	11632	8.4	9D	-B								
CAPS	07	1445E	1449D		S16	E15	.373	11632	8.7	4D	-F	2	V	1446	.40	.40		150	C
629 LOCK	07	1643	1700	1650	S11	W82	.991	11625	1.5	17	--F		C						3

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP41630	07	1923	1930	1925	N22	E53	.829	11640	11.8	7	--F				.27				2 2 1 2
PALE	07	1923	1930	1925	N23	E53	.832	11640	11.8	7	-N	2	C		.27				
LOCK	07	1923	1930	1925	N21	E52	.818	11640	11.7	7	-F		C						
GRP41631	07	1936	1948	1940	S05	W14	.257	11630	6.8	12	--F				.45				2 2 1 2
LOCK	07	1935	1950	1939	S05	W14	.257	11630	6.8	15	-F		C						
PALE	07	1936	1946	1940	S05	W14	.257	11630	6.8	10	-F	2	C		.45				F
	07	2154	2209	NO FLARE PATROL															
632 LOCK	07	2220	2255	2235	S13	W82	.991	11625	1.8	35	1F		C						2
GRP41639	08	1544	1557	1545	S06	W22	.387	11630	7.0	13	-N				1.19				3 3 3 4
CAPE	08	1543	1558	1545	S06	W22	.387	11630	7.0	15	-N		C	1545	.99	1.10			
HUAN	08	1544	1553	1545	S07	W22	.391	11630	7.0	9	-N	2	C	1545	.68	.74			E
BOUL	08	1546	1600	1546	S05	W22	.383	11630	7.0	14	-N	2	V	1546	1.90	2.00			
640 RAMY	08	1742	1752	1743	S13	E80	.986	11652	14.7	10	--F	2	C						D 3
GRP41641	08	1837	1855	1840	S04	W24	.412	11630	7.0	18	--F				.56				3 3 2 4
LOCK	08	1835	1854	1839	S05	W23	.399	11630	7.0	19	-F		C						
RAMY	08	1838	1855	1840	S04	W24	.412	11630	7.0	17	-F	2	C		.57				D
PALE	08	1840E	1842D	1842	S04	W25	.427	11630	6.9	2D	-N	1	C		.55				F
GRP41642	09	0824	0829	0825	N06	E04	.127	11642	9.7	5	--F				.44				2 2 2 6
CANR	09	0824	0829		N06	E03	.118	11642	9.6	5	-F	2	V	0825	.35	.40			
HTPR	09	0824	0828	0825	N06	E04	.127	11642	9.6	4	-F		C	0825	.52	.50			
GRP41643	09	0845	0900	0851	S03	W37	.603	11630	6.6	15	-N				.66				5 5 4 5
ARCE	09	0839E	0900D		S04	W37	.604	11630	6.6	21D	-F		C	0900	.09	.10			
ISTA	09	0845	0900	0850	S03	W35	.575	11630	6.7	15	-B								
CRON	09	0845	0858	0851	S02	W37	.602	11630	6.6	13	-N	2	C	0851	.65	.81			
HTPR	09	0848	0858	0852	S03	W38	.617	11630	6.5	10	-B		C	0852	1.24	1.40			
CANR	09	0848	0904	0850	S03	W37	.603	11630	6.6	16	-N	3	V	0850	.65	.80			
645 HTPR	09	1113	1116	1115	N10	W20	.380	11634	8.0	3	--F		C	1115	.21	.20			2
GRP41648	09	1311	1318	1315	S04	W39	.631	11630	6.6	7	--N				.31				2 2 1 5
HTPR	09	1311	1318	1315	S04	W40	.645	11630	6.5	7	-N		C	1315	.31	.40			
RAMY	09	1313E	1317	U	S03	W37	.603	11630	6.8	4D	-N	3	C						D
GRP41649	09	1435	1444	1437	S03	E40	.644	11643	12.6	9	--N				.64				2 2 2 3
HTPR	09	1435	1444	1437	S03	E40	.644	11643	12.6	9	-B		C	1437	1.03	1.20			
HUAN	09	1437E	1437D		S03	E40	.644	11643	12.6		-F	1	P	1437	.25	.33			D
GRP41652	09	1930	2130	2000	N20	E81	.989	11647	15.9	120	--F								2 1 0 5
LOCK	09	1930	2130	2000	N20	E81	.989	11647	15.9	120	-F		C						
HUAN	09	2053E	2108D		N18	E90	1.000	11647	16.6	15D	-F	1	P	2056					
653 PALE	09	2148E	2200	2148	N05	W68	.928	11633	4.8	12D	--F	2	C		.45				F 3
654 LOCK	09	2200	2217	2210	N20	E81	.989	11647	16.0	17	--F		C						3
655 PALE	09	2205	2226	2210	N25	E29	.611	11640	12.1	21	--F	2	C		.27				F 3
	09	2400	0001	NO FLARE PATROL															
GRP41656	10	0100	0125	0110	S04	W40	.645	11630	7.0	25	--N				2.10				2 1 1 3
CRON	10	0100E	0125D	0110U	S04	W40	.645	11630	7.0	25D	-N	3	V	0110	2.10				
PALE	10	0103	0114	0111	N08	W40	.652	11630	7.0	11	-F	2	C		.19				
GRP41657	10	0131	0210	0142	N09	E38	.629	11644	12.9	39	1N				2.29				3 3 3 3
PALE	10	0129	0209	0142	N10	E37	.619	11644	12.8	40	1N	2	C		3.16				UD
CRON	10	0130	0216	0142	N08	E36	.599	11644	12.8	46	1N	2	C	0142	2.15	2.60			
MITK	10	0133	0204	0143	N09	E40	.655	11644	13.1	31	-N		C	0143	1.55	2.00			E
658 MITK	10	0335E	0353D		N08	E40	.652	11644	13.1	18D	--F		C	0335	1.13	1.50			E 3
659 TEHR	10	0714	0732	0718	S07	W44	.700	11630	7.0	18	--N	4	C		.28				D 3
GRP41668	10	1149	1215	1159	N09	E32	.547	11644	12.9	26	-N				1.49				6 5 5 6
CANR	10	1146	1209	1150	N09	E32	.547	11644	12.9	23	-N	2	C	1150	.65	.77			
MONT	10	1149	1217	1201	N09	E31	.533	11644	12.8	28	1N		C	1201	3.40				
TEHR	10	1150	1217	1155	N08	E31	.530	11644	12.8	27	-N	3	C		1.28				UD
CAPE	10	1151	1215	1155	N09	E33	.561	11644	13.0	24	-N		C	1155	1.12	1.30			
CAPS	10	1152E	1158D		N10	E34	.578	11644	13.0	6D	-N	1	S	1155	1.00	1.20			
RAMY	10	1215E	1226	1215	N09	E33	.561	11644	13.0	11D	-F	2	C		1.30				D
	10	1604	1607	NO FLARE PATROL															

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	DATE 1971	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	DEC																		
671 PALE	10	2033	2040	U	N09	E27	.476	11644	12.9	7	--F	2	C						2
	10	2218	2228	NO FLARE PATROL															
	10	2400	0001	NO FLARE PATROL															
GRP41672	11	0249	0302	0255	N11	E23	.431	11644	12.8	13	--B				.64				2 2 2 5
MANI	11	0247E	0258	0257	N11	E23	.431	11644	12.8	11D	-N	2		0257	.72	.80			
VORO	11	0250	0305	0252	N10	E22	.410	11644	12.8	15	-B		C	0252	.56	.60		87	EJ
GRP41673	11	0433	0518	0440	N09	E24	.433	11644	13.0	45	-N				2.08				5 5 4 5
MANI	11	0412E	0507	0441	N10	E25	.453	11644	13.1	55D	-B	2		0441	1.75	1.90			
SIBE	11	0432E	0541D	0440	N10	E22	.410	11644	12.8	69D	-N		V						E
CULG	11	0433	0450D		N08	E25	.443	11644	13.1	17D	1N		P	0450	3.30	3.52			L
TEHR	11	0435	0507	0439	N08	E24	.428	11644	13.0	32	1B	3	C		2.27				UF
CRON	11	0436E	0459D	0441U	N08	E26	.458	11644	13.1	23D	-N	3	V	0441	1.00				
GRP41674	11	0522	0542	0525	N10	E22	.410	11644	12.9	20	--F				.85				2 2 2 4
TEHR	11	0521	0542	0523	N08	E21	.383	11644	12.8	21	-N	3	C		1.28				F
MANI	11	0523	0541	0526	N11	E23	.431	11644	12.9	18	-F	2		0526	.41	.46			
GRP41675	11	0627	0657	0638	N08	E23	.413	11644	13.0	30	-B				1.31				3 3 3 3
CRON	11	0627E	0644D	0632U	N08	E24	.428	11644	13.1	17D	-B	3	V	0632	1.50				
TEHR	11	0634E	0652	0638	N07	E23	.408	11644	13.0	18D	-B	3	C		1.19				F
MANI	11	0641E	0701	0643	N09	E22	.404	11644	12.9	20D	-N	2		0643	1.24	1.40			
GRP41679	11	0828	0909	0840	N09	E21	.389	11644	12.9	41	-N				1.98				11 11 11 11
ARCE	11	0815	1000D	0840	N09	E20	.375	11644	12.8	105D	-B		C	0840	1.97	2.00			KF
TEHR	11	0822	0920	0840	N08	E21	.383	11644	12.9	58	1B	3	C		2.09				UZ
CANR	11	0822	0848D	0835	N08	E22	.398	11644	13.0	26D	-N	2	C	0835	1.08	1.20			
CRON	11	0825U	0905	0839	N08	E21	.383	11644	12.9	40D	-N	2	C	0839	1.61	1.66			
CAPS	11	0827E	0859D		N08	E20	.368	11644	12.9	32D	1N	1	V	0839	2.50	2.60		196	
ATHN	11	0828	0905	0840	N10	E20	.382	11644	12.9	37	-N	3	C		1.65				F
CATA	11	0830	0935D	0843	N09	E21	.389	11644	12.9	65D	1B		P	0843	2.78	3.02		234	
BUCA	11	0830	0910		N09	E21	.389	11644	12.9	40	1N		C	0837	2.21	2.40			
MANI	11	0831	0837	0837	N09	E21	.389	11644	12.9	6	-N	2		0837	1.24	1.30			
MONT	11	0836	0910	0848	N10	E21	.396	11644	12.9	34	1N		C	0848	3.09				H
HTPR	11	0847E	0910		N10	E22	.410	11644	13.0	23D	-B		C	0849	1.55	1.60			E
GRP41681	11	1030	1050	1036	N09	E21	.389	11644	13.0	20	-N				1.17				6 5 5 7
HTPR	11	1028	1115	1108	N10	E22	.410	11644	13.1	47	-N		C	1108	.83	.80			
HTPR	11	1028	1115	1112	N10	E22	.410	11644	13.1	47	-N								
ATHN	11	1030	1044	1034	N09	E22	.404	11644	13.1	14	-N	3	C		.83				F
TEHR	11	1030	1050	1034	N09	E21	.389	11644	13.0	20	-N	2	C		1.09				F
CATA	11	1030	1105	1040	N09	E21	.389	11644	13.0	35	-N		C	1040	1.39	1.52		191	
CANR	11	1031	1042		N09	E20	.375	11644	12.9	11	-F	2	V	1031	.70	.70			
MONT	11	1031	1049	1036	N10	E22	.410	11644	13.1	18	-N		C	1036	1.86				
11 STATIONS REPORTING GROUP 41682. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP41682	11	1134	1216	1144	N09	E20	.375	11644	13.0	42	1N				2.31				7 7 7 9
CATA	11	1125	1220	1147	N09	E20	.375	11644	13.0	55	1B		C	1147	2.32	2.52		240	
ATHN	11	1129	1202D	1140	N09	E22	.404	11644	13.1	33D	-N	3	C		1.65				UF
RAMY	11	1134	1212	1144	N09	E19	.360	11644	12.9	38	1N	2	C		2.32				ZF
TEHR	11	1135	1212D	1143	N09	E20	.375	11644	13.0	37D	1B	2	C		2.27				UZ
MONT	11	1136	1211	1147	N10	E20	.382	11644	13.0	35	1B		C	1147	3.40				
HUAN	11	1137E	1213D		N08	E19	.354	11644	12.9	36D	1N	1	P	1142	1.97	2.10			T
HERS	11	1142	1225	1145	N08	E22	.398	11644	13.1	43	1N		P	1144	2.23	2.20	1.20	28	L
41682	11	1134	1210	1137	N09	E20	.375	11644	13.0	36	*1B				2.19				3 3 3 10
CAPS	11	1105E	1215D		N08	E20	.368	11644	13.0	70D	1B	1	V	1130	3.50	3.80		216	FJ
HTPR	11	1132	1215	1136	N10	E21	.396	11644	13.1	43	1B		C	1136	2.06	2.10			EIJ
CANR	11	1137	1200	1138	N09	E20	.375	11644	13.0	23	-N	2	V	1138	1.00	1.00			
41682	11	1204.	1235	1230	N09	E20	.375	11644	13.0	31	*-N				1.08				2 1 1 7
CAPE	11	1204E	1235		N09	E20	.375	11644	13.0	31D	-N		P	1204	1.08	1.20			
CATA	11	1230	1235	1230	N10	E17	.339	11644	12.8	5	-N		C	1230	.40	.43		178	
GRP41683	11	1425	1437	1427	N10	E18	.353	11644	13.0	12	--N				.30				4 4 4 7
MCMA	11	1424	1435	1427	N09	E18	.346	11644	12.9	11	-N		C	1427	.26	.30			D
CATA	11	1425	1440	1425	N10	E18	.353	11644	13.0	15	-B		C	1425	.46	.49		214	
RAMY	11	1425	1437	1427	N10	E18	.353	11644	13.0	12	-F	2	C		.28				D
HUAN	11	1426	1431D	1428	N10	E18	.353	11644	13.0	5D	-F	2	P	1428	.21	.22			D
GRP41684	11	1551	1619	1557	N10	E18	.353	11644	13.0	28	--F				.15				2 1 1 3
HUAN	11	1551	1619	1557U	N10	E18	.353	11644	13.0	28	-F	1	C	1557	.15	.17			D
RAMY	11	1613	1629	1617	N09	E17	.331	11644	13.0	16	-F	2	C		.46				F

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	DATE 1971	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. %	
	DEC																		
GRP41685	11	1600	1611	1602	N20	E69	.942	11647	16.8	11	--N				.62				4 4 4 4
MCMA	11	1559	1611	1600	N21	E69	.943	11647	16.8	12	-B		C	1600	.31	.90			D
RAMY	11	1600	1612	1603	N20	E70	.948	11647	16.9	12	-N	2	C		.37				D
BOUL	11	1600	1610	1602	N19	E66	.924	11647	16.6	10	-N	3	V	1602	1.50	1.50			
HUAN	11	1600	1611	1602	N20	E69	.942	11647	16.8	11	-N	1	C	1602	.30				
GRP41686	11	1659	1748	1719	N08	E16	.309	11644	12.9	49	1N				2.05				5 5 4 6
MCMA	11	1655	1815	1717	N07	E16	.302	11644	12.9	80	-N		C	1717	1.55	1.60			EFK
HUAN	11	1658	1740		N08	E17	.324	11644	13.0	42	1F	1	P	1715	1.97	2.08			E
LOCK	11	1700	1734	1715	N08	E17	.324	11644	13.0	34	1F		C						
RAMY	11	1703	1747	1720	N09	E17	.331	11644	13.0	44	-N	2	C		1.67				
RAMY	11	1703	1747	1708	N09	E17	.331	11644	13.0	44	-F	2	C		1.21				F
BOUL	11	1714	1746	1722	N09	E15	.303	11644	12.8	32	1N	2	V	1722	3.00	3.20			
GRP41687	11	1741	1751	1745	N21	E67	.932	11647	16.8	10	--F				.33				3 3 2 4
LOCK	11	1739	1752	1745	N22	E66	.927	11647	16.7	13	-F		C						
MCMA	11	1741	1751	1744	N21	E68	.938	11647	16.8	10	-N		C	1744	.41	1.20			D
HUAN	11	1742	1750	1745	N20	E68	.937	11647	16.8	8	-F	1	C	1745	.25				
GRP41688	11	1744	1805	1748	N09	E18	.346	11644	13.1	21	--F				.33				2 2 1 4
LOCK	11	1743	1805	1750	N08	E17	.324	11644	13.0	22	-F		C						
HUAN	11	1744	1750D	1746	N09	E18	.346	11644	13.1	6D	-N	1	P	1746	.33	.35			D
690 PALE	11	1912	1918	1913	N22	E68	.939	11647	16.9	6	--N	2	C		.19				3
GRP41691	11	1942	1951	1945	S05	E07	.146	11643	12.3	9	--F				.45				2 2 1 4
PALE	11	1941	1949	1944	S04	E07	.137	11643	12.3	8	-N	2	C		.45				
LOCK	11	1943	1952	1946	S05	E06	.132	11643	12.3	9	-F		C						H
GRP41693	12	0728	0739	0728	N18	E59	.873	11647	16.7	11	--N				.44				2 2 2 5
TEHR	12	0725	0737	0726	N15	E59	.869	11647	16.7	12	-F	2	C		.19				F
CATA	12	0730	0740	0730	N21	E58	.871	11647	16.7	10	-B		C	0730	.69	1.39		214	
	12	1953	2041	NO FLARE PATROL															
	12	2202	2205	NO FLARE PATROL															
	12	2239	2258	NO FLARE PATROL															
GRP41696	13	0110	0120	0114	S04	W10	.183	11643	12.3	10	--B				.78				2 2 2 5
VORO	13	0109	0118	0111	S03	W11	.195	11643	12.2	9	-B		C	0111	.93	.90		70	DH
PALE	13	0110	0122	0116	S04	W09	.157	11643	12.4	12	-N	2	C		.63				H
GRP41697	13	0456	0546	0529	N08	W50	.773	11642	9.5	50	-F				1.43				2 2 2 4
CULG	13	0456	0549	0527	N08	W49	.752	11642	9.5	53	1N		P	0527	1.86	2.79			U
CRON	13	0526E	0543	0530U	N08	W51	.783	11642	9.4	17D	-F	3	V	0530	1.00				
GRP41698	13	0529	0539	0532	N08	W04	.165	11644	12.9	10	-N				1.05				2 2 2 4
CRON	13	0525E	0540	0530U	N09	W04	.181	11644	12.9	15D	-N	3	V	0530	1.00				
TACH	13	0532	0538	0533	N07	W04	.150	11644	12.9	5	-N		C	0533	1.09	1.07			E
GRP41699	13	0657	0707	0659	S03	W14	.245	11643	12.2	10	--N				.77				3 3 3 3
CRON	13	0656	0708	0659	S03	W14	.245	11643	12.2	12	-N	2	C	0659	.43	.43			
ATHN	13	0658	0707	0700	S02	W15	.260	11643	12.2	9	-N	2	C		.99				DH
ABST	13	0659E	0706	0659	S03	W14	.245	11643	12.2	7D	-N		P	0659	.90	.90			DZ
GRP41703	13	1657	1705	1658	S04	W20	.346	11643	12.2	8	--F				.27				2 2 2 3
CANR	13	1656	1705	1658	S03	W20	.344	11643	12.2	9	-N	2	C	1658	.32	.34			
HUAN	13	1657	1704	1658	S04	W20	.346	11643	12.2	7	-F	2	C	1658	.21	.22			D
GRP41704	13	1920	1933	1923	N20	E37	.665	11647	16.6	13	--F				.81				2 2 1 2
PALE	13	1920	1933	1924	N18	E37	.654	11647	16.6	13	-N	3	C		.81				D
LOCK	13	1920	1932	1922	N21	E37	.671	11647	16.6	12	-F		C						
GRP41705	13	1937	1945	1940	S03	W22	.376	11643	12.2	8	--F				.27				2 2 1 3
LOCK	13	1936	1944	1939	S02	W22	.375	11643	12.2	8	-F		C						
PALE	13	1938	1946	1941	S04	W22	.378	11643	12.2	8	-N	3	C		.27				
GRP41706	13	2104	2131	2115	N10	W16	.328	11644	12.7	27	-N				2.17				2 2 1 2
LOCK	13	2100	2130	2112	N11	W16	.337	11644	12.7	30	-N		C						
PALE	13	2107	2132	2118	N09	W15	.305	11644	12.8	25	1N	3	C		2.17				F
GRP41708	14	0557	0635	0610	N19	E33	.615	11647	16.7	38	--F				.56				2 2 2 3
CRON	14	0550	0640D		N18	E32	.597	11647	16.6	50D	-F	3	V		.80				
MANI	14	0603	0629	0610	N20	E34	.633	11647	16.8	26	-N	2		0610	.31	.40			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971	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. %	
	DEC																		
GRP41709	14	0738	0801	0743	N09	W18	.349	11644	13.0	23	--N				.91				3 3 3 4
ATHN	14	0735	0758	0738	N09	W19	.363	11644	12.9	23	-F	2	C		.66				D
CRON	14	0738	0759	0742	N09	W17	.334	11644	13.0	21	-F	3	V	0742	.80				
CATA	14	0740	0805D	0750	N08	W18	.341	11644	13.0	25D	-B		P	0750	1.27	1.37		209	
GRP41712	14	0911	0951	0914	N08	W19	.356	11644	13.0	40	-N				1.54				7 6 5 8
ISTA	14	0909	0950	0910	N08	W20	.371	11644	12.9	41	1N								
CANR	14	0910	0945	0913	N07	W19	.350	11644	13.0	35	1N	2	C	0913	1.08	2.20			
CAPE	14	0910	1000	0915	N09	W19	.363	11644	13.0	50	-B		C	0915	1.64	1.80			
ATHN	14	0911	0948	0914	N09	W19	.363	11644	13.0	37	-N	2	C		1.98				D
CRON	14	0913	0954	0916	N09	W18	.349	11644	13.0	41	-N	2	C	0916	1.29	1.32			
CATA	14	0915	0945	0915	N08	W19	.356	11644	13.0	30	-B		C	0915	1.73	1.86		251	
WEND	14	0924	0955		N08	W19	.356	11644	13.0	31	1N		P		5.16				
GRP41713	14	1021	1038	1027	N08	W19	.356	11644	13.0	17	--F				.41				2 2 2 6
CANR	14	1021	1040	1023	N07	W18	.335	11644	13.1	19	-N	2	C	1023	.32	.34			
ATHN	14	1029E	1035	1030	N09	W19	.363	11644	13.0	6D	-F	2	C		.50				D
GRP41714	14	1154	1205	1156	S03	W30	.501	11643	12.2	11	--F				.41				2 2 2 6
RAMY	14	1154	1208	1157	S02	W30	.500	11643	12.2	14	-F	2	C		.57				D
HUAN	14	1154	1202	1155	S04	W30	.502	11643	12.2	8	-F	1	C	1155	.25	.29			
GRP41719	14	1532	1541	1535	S04	W32	.532	11643	12.2	9	--N				.57				3 3 3 3
BOUL	14	1531	1540	1534	S03	W32	.531	11643	12.2	9	-N	2	C	1534	.54	.63			
HUAN	14	1532	1541	1534	S04	W32	.532	11643	12.2	9	-N	2	C	1534	.51	.60			
RAMY	14	1536E	1542D	1536	S04	W33	.546	11643	12.2	6D	-N	2	C		.67				D
720 HUAN	14	1533	1546	1538	N08	W26	.460	11644	12.7	13	--F	2	C	1538	.43	.49			3
GRP41721	14	1558	1624	1608	N09	W26	.454	11644	12.7	26	-N				1.27				4 4 4 4
BOUL	14	1558	1644	1609	N09	W26	.454	11644	12.7	46	-N	2	C	1609	1.51	1.68			
CANR	14	1558	1606		N09	W24	.436	11644	12.9	8	-N	1	V	1606	.60	.60			
HUAN	14	1559	1622D	1610U	N08	W27	.474	11644	12.6	23D	-N	1	P	1610	1.11	1.26			E
RAMY	14	1602E	1622D	1605	N09	W25	.450	11644	12.8	20D	-N	1	C		1.86				F
GRP41722	14	1811	1833	1814	N08	W28	.489	11644	12.7	22	--F				.51				3 3 2 4
HUAN	14	1811	1834	1814U	N08	W28	.489	11644	12.7	23	-F	1	C	1814	.38	.44			
PALE	14	1813E	1836	1813	N08	W28	.489	11644	12.7	23D	-F	3	C		.63				F
LOCK	14	1815E	1830	1815	N09	W28	.493	11644	12.7	15D	-F		C						
GRP41723	14	1900	2000	1917	N08	W27	.474	11644	12.8	60	1N				1.70				4 3 2 4
BOUL	14	1835	1900	1836	N09	W28	.493	11644	12.7	25	-F	3	V	1836	1.00	1.10			
LOCK	14	1900	2000	1921	N09	W27	.479	11644	12.8	60	1N		C						
PALE	14	1905E	1918D	1913	N08	W28	.489	11644	12.7	13D	-N	3	C		1.44				D
HUAN	14	1911E	1913D		N08	W27	.474	11644	12.8	2D	1F	1	P	1911	1.95	2.21			E
725 PALE	14	2138	2147D	2139	N08	W27	.474	11644	12.9	9D	--N	3	C		.30				F 3
GRP41726	14	2205	2319	2252	N10	W30	.526	11644	12.7	74	--F				1.18				2 2 1 2
LOCK	14	2205	2320	2250	N10	W30	.526	11644	12.7	75	-F		C						
PALE	14	2242	2317	2253	N09	W30	.522	11644	12.7	35	-N	3	C		1.18				F
GRP41727	14	2325	2349	2335	N22	E25	.550	11647	16.9	24	--F				.45				2 2 1 4
LOCK	14	2322	2345	2331	N23	E25	.559	11647	16.8	23	-F		C						
PALE	14	2327	2352	2338	N21	E24	.530	11647	16.8	25	-F	2	C		.45				F
GRP41728	14	2353	0005	2357	N09	W29	.507	11644	12.8	12	--F				.72				2 2 1 5
LOCK	14	2350	0005	2356	N09	W28	.493	11644	12.9	15	-F		C						
PALE	14	2355	2359D	2358	N08	W29	.503	11644	12.8	4D	-N	3	C		.72				F
GRP41730	15	0122	0132	0126	N08	W29	.504	11644	12.9	10	--N				.65				2 2 2 3
PALE	15	0120	0131	0125	N08	W28	.489	11644	13.0	11	-F	2	C		.45				F
VORO	15	0123	0132	0126	N07	W29	.500	11644	12.9	9	-B		C	0126	.84	.90		77	EJ
GRP41731	15	0338	0400	0341	N08	W30	.518	11644	12.9	22	-B				1.92				3 2 2 3
CRON	15	0337	0359	0342	N09	W28	.494	11644	13.1	22	-N	2	C	0342	1.61	1.82			
VORO	15	0338	0401	0340	N06	W32	.540	11644	12.8	23	1B		C	0340	2.22	2.50		92	EJ
TEHR	15	0347E	0406	0354	N09	W31	.536	11644	12.8	19D	-N	1	C		.37				F
GRP41741	15	1820	1838	1823	N10	E73	.958	11653	21.2	18	--F				.46				2 2 1 4
LOCK	15	1818	1838	1824	N09	E70	.942	11653	21.0	20	-F		C						
RAMY	15	1821	1838	1822	N11	E75	.968	11653	21.4	17	-F	2	C		.46				D
743 LOCK	15	1930	2130	2030	S18	E82	.991	11656	22.0	120	--F		C						3
744 CRON	16	0055	0103	0058	N10	W42	.685	11644	12.9	8	--F	1	C	0058	.75	1.03			2

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					APPROX.		CENTRAL	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME	MEAS. AREA	CORR. AREA	MAX. WIDTH	MAX. INT.	
	DATE 1971	START	END	MAX. PHASE	LAT.	MER. DIST.	DISTANCE			MIN.				UT	Sq. Deg.	Sq. Deg.	Hα	%	
	DEC																		
GRP41745	16	0705	0813	0754	S14	E88	.999	11656	22.9	68	-N				1.02				3 3 3 6
CATA	16	0705E	0905	0755	S13	E90	1.000	11656	23.0	120D	1B		P	0755	1.79			240	A
CAPE	16	0745	0810	0754	S15	E90	1.000	11656	23.1	25	-N		C	0754	.86				
HTPR	16	0751E	0815	0753	S14	E85	.996	11656	22.7	24D	-N		C	0753	.41				A
GRP41746	16	0916	1020	0923	S14	E88	.999	11656	23.0	64	-N				.38				4 4 3 10
HTPR	16	0915	0935	0921	S14	E85	.996	11656	22.8	20	-N		C	0921	.31				A
CATA	16	0915	1005	0925	S13	E90	1.000	11656	23.1	50	-B		C	0925	.52			224	A
ISTA	16	0915	1026		S14	E90	1.000	11656	23.1	71	-F								G
CANR	16	0917	1030		S16	E88	.999	11656	23.0	73	-B	2	V	0918	.30	.90			
GRP41749	16	1210	1222	1214	S14	E86	.997	11656	23.0	12	-N				.73				5 5 5 11
HTPR	16	1209	1230	1213	S14	E85	.996	11656	22.9	21	-N		C	1213	.31				AY
CAPE	16	1210	1223	1215	S15	E88	.999	11656	23.1	13	-F		C	1215	.86				
CATA	16	1210	1220	1215	S13	E90	1.000	11656	23.3	10	-B		C	1215	.52			251	
MONT	16	1211	1216	1212	S14	E84	.994	11656	22.8	5	-N		C	1212	1.13				
ZURI	16	1212	1220	1214	S14	E84	.994	11656	22.8	8	1N		C	1214	.84				
GRP41750	16	1452	1503	1456	S14	E87	.998	11656	23.1	11	-B				.34				2 2 2 4
CATA	16	1450	1500	1455	S14	E88	.999	11656	23.2	10	-B		C	1455	.46			226	
HTPR	16	1454	1505	1456	S14	E85	.996	11656	23.0	11	-N		C	1456	.21				A
GRP41754	16	1803	1818	1805	S14	E80	.985	11656	22.8	15	-N				.54				2 2 1 5
LOCK	16	1800	1813	1804	S14	E82	.990	11656	22.9	13	-N		C						
BOUL	16	1805	1823	1805	S14	E78	.979	11656	22.6	18	-N	2	C	1805	.54				
GRP41756	16	1936	1947	1940	S15	E84	.994	11656	23.1	11	--F				.56				2 2 1 5
LOCK	16	1934	1947	1940	S14	E82	.990	11656	23.0	13	-F		C						
HUAN	16	1937	1947	1940	S15	E85	.996	11656	23.2	10	-N	1	C	1940	.56				T
GRP41757	16	1956	2003	1958	S15	E84	.994	11656	23.1	7	--F				.30				2 2 1 4
LOCK	16	1955	2005	1958	S15	E82	.990	11656	23.0	10	-F		C						
HUAN	16	1957	2001	1958	S15	E85	.996	11656	23.2	4	-F	2	C	1958	.30				D
GRP41758	16	2128	2139	2132	S13	E83	.992	11656	23.1	11	-N				.63				3 3 1 3
LOCK	16	2127	2143	2133	S14	E82	.990	11656	23.0	16	-N		C						
RAMY	16	2129	2139D	2131	S12	E82	.990	11656	23.0	10D	-N	1	C						D
HUAN	16	2132E	2136		S13	E85	.996	11656	23.3	4D	-F	1	P	2132	.63				
759 CULG	16	2253	2325	2303	S16	E79	.982	11656	22.9	32	1N		C	2303	.72				3
GRP41760	17	0023	0039	0028	N09	E53	.807	11653	21.0	16	-N				.87				4 4 4 5
CRON	17	0022	0032	0028	N07	E52	.794	11653	20.9	10	-N	1	C	0028	.54	.88			
CULG	17	0023	0045	0028	N08	E52	.795	11653	20.9	22	1N		C	0028	1.55	2.47			
PALE	17	0023	0034	0027	N11	E55	.829	11653	21.1	11	-N	2	C		.54				F
MANI	17	0023	0044	0028	N10	E52	.798	11653	20.9	21	-N	2		0028	.83	1.30			
762 TEHR	17	0544	0555	0546	N13	E09	.288	11651	17.9	11	--F	3	C		.19				F 2
GRP41764	17	0814	0824	0816	S03	W68	.927	11643	12.2	10	--F				.47				4 4 3 8
ATHN	17	0812	0821	0814	S03	W66	.913	11643	12.4	9	-F	1	C		.33				D
CAPS	17	0814E	0817D		S03	W72	.951	11643	11.9	3D	-F	1	S						
CATA	17	0815	0825	0815	S03	W66	.913	11643	12.4	10	-N		C	0815	.80			178	
TEHR	17	0817E	0826	0818	S04	W67	.920	11643	12.3	9D	-F	3	C		.28				F
GRP41771	17	1057	1120	1103	N09	E47	.742	11653	21.0	23	-B				1.22				8 8 8 9
HTPR	17	1047	1130	1103	N08	E47	.740	11653	21.0	43	-B		C	1103	.72	1.10			HU
ATHN	17	1056	1112D	1101	N09	E47	.742	11653	21.0	16D	-B	1	C		.99				D
CAPE	17	1058	1128	1103	N09	E46	.731	11653	20.9	30	-N		C	1103	.99	1.50			H
TEHR	17	1058	1114	1103	N09	E47	.742	11653	21.0	15	-B	3	C		.46				FH
WEND	17	1058E	1116		N08	E46	.729	11653	20.9	18D	1N		P		4.13				
CAPS	17	1059	1115D		N08	E48	.752	11653	21.1	16D	-B	1	P	1101	.90	1.30		312	H
ZURI	17	1059	1114	1102	N09	E45	.719	11653	20.8	15	-B		C	1102	.79	1.10			
CATA	17	1100	1125	1107	N09	E46	.731	11653	20.9	25	-B		C	1107	.75	1.22		282	
GRP41772	17	1131	1140	1135	N18	W09	.360	11647	16.8	9	--F				1.02				6 6 6 10
TEHR	17	1129	1140	1134	N17	W09	.345	11647	16.8	11	-F	3	C		.28				F
HTPR	17	1130	1140	1135	N17	W09	.345	11647	16.8	10	-F		C	1135	.62	.70			
CAPE	17	1131	1142	1135	N18	W09	.360	11647	16.8	11	-F		C	1135	1.30	1.40			
RAMY	17	1131	1142	1134	N18	W09	.360	11647	16.8	11	-F	2	C		.93				U
MONT	17	1133	1137	1135	N18	W09	.360	11647	16.8	4	1N		C	1135	2.58				
CATA	17	1135E	1140	1135	N17	W09	.345	11647	16.8	5D	-N		P	1135	.40	.43		195	
GRP41774	17	1352	1412	1355	N13	E03	.250	11651	17.8	20	--F				1.61				3 3 3 8
HTPR	17	1345	1415	1351	N13	E03	.250	11651	17.8	30	-F		C	1351	.41	.40			E
WEND	17	1355	1413		N13	E03	.250	11651	17.8	18	1F		V		4.13				
HUAN	17	1357	1407	1358	N13	E03	.250	11651	17.8	10	-F	2	C	1358	.30	.31			E
775 BOUL	17	1553	1715	1605	N12	W01	.228	11651	17.6	82	--N	3	V		.75	.75			2

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	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	17	1642	1652	NO FLARE PATROL															
776 BOUL	17	2057	2105	2059	S14	W35	.601	11646	15.2	8	--F	2	C	2059	.32	.40			2
777 CULG	18	0011	0013		N06	W67	.922	11644	13.0	2	1N		P	0012	1.34				V 3
3 STATIONS REPORTING GROUP 41780.					1 STATIONS OBSERVING AND NOT REPORTING.														
GRP41780	18	0426	0432	0428	S16	E78	.979	11657	24.0	6	--N				.21				2 2 2 4
CRON	18	0425	0432	0428	S17	E78	.979	11657	24.0	7	-N	2	C	0428	.32				
TEHR	18	0426	0432	0428	S15	E77	.975	11657	24.0	6	-N	2	C		.09				D
780 KODA	18	0235	0600	0305	S27	E90	1.000	11657	24.9	205	*2B		P	0305			4.72		AKR 4
GRP41781	18	0345	0355	0347	S15	W38	.642	11646	15.3	10	--N				.52				3 3 3 6
CRON	18	0342	0350	0346	S13	W38	.635	11646	15.3	8	-N	2	C	0346	.54	.70			
TEHR	18	0347	0355	0348	S16	W38	.646	11646	15.3	8	-N	1	C		.19				DH
MANI	18	0348E	0359	0348	S15	W38	.642	11646	15.3	11D	-N	2		0348	.83	1.08			
GRP41782	18	0511	0526	0521	S15	W39	.654	11646	15.3	15	--F				.34				3 3 3 4
CRON	18	0510	0527	0523U	S13	W39	.648	11646	15.3	17	-F	2	C	0523	.32	.42			
MANI	18	0512	0528	0520	S15	W40	.667	11646	15.2	16	-N	2		0520	.62	.83			
TEHR	18	0512	0524	0520	S16	W39	.658	11646	15.3	12	-F	3	C		.09				D
GRP41783	18	0626	0634	0628	S17	E67	.925	11656	23.3	8	--N				.16				2 2 2 7
CRON	18	0625	0631	0628	S18	E66	.919	11656	23.2	6	-N	2	C	0628	.22				
TEHR	18	0627	0636	0628	S16	E67	.924	11656	23.3	9	-N	4	C		.09				D
GRP41789	18	1117	1122	1118	S14	E58	.855	11656	22.8	5	--N				.36				4 4 4 8
RAMY	18	1116	1121	1117	S13	E57	.845	11656	22.7	5	-N	2	C		.46				D
TEHR	18	1116	1122	1117	S14	E58	.855	11656	22.8	6	-N	4	C		.09				D
HTPR	18	1117	1120	1118	S15	E58	.856	11656	22.8	3	-F		C	1118	.41	.80			
CATA	18	1120	1125	1120	S14	E58	.855	11656	22.8	5	-B		C	1120	.46	.93		229	
GRP41791	18	1228	1236	1230	S14	E76	.971	11657	24.2	8	-N				.45				3 3 3 8
ATHN	18	1227	1236	1230	S14	E78	.978	11657	24.4	9	-F	2	C		.50				D
TEHR	18	1227	1233	1229	S13	E76	.971	11657	24.2	6	-N	3	C		.09				D
CATA	18	1230	1240	1230	S15	E75	.967	11657	24.1	10	-N		C	1230	.75			151	
793 HUAN	18	1553	1607	1559U	S09	E88	.999	11657	25.3	14	--F	1	C	1559	.25				2
794 PALE	18	1835	1846	1836	S16	E57	.848	11656	23.0	11	--N	2	C		.45				F 3
795 PALE	18	1908	1912	1909	S15	E57	.847	11656	23.1	4	--N	2	C		.21				3
GRP41796	18	1919	1930	1923	S16	E59	.865	11656	23.2	11	-B				.92				2 2 2 2
PALE	18	1918	1929	1923	S15	E59	.864	11656	23.2	11	-B	2	C		1.18				H
RAMY	18	1919	1930	1922	S16	E58	.857	11656	23.2	11	-B	3	C		.65				DH
	18	2027	2222	NO FLARE PATROL															
797 PALE	18	2208E	2213D	U	S16	E52	.802	11656	22.8	5D	-N	2	C						1
	18	2237	2244	NO FLARE PATROL															
GRP41801	19	1242	1311	1246	N09	E15	.312	11653	20.7	29	--N				1.34				5 5 5 8
RAMY	19	1241	1328	1247	N09	E18	.354	11653	20.9	47	-N	3	C		.72				D
WEND	19	1241	1258		N10	E07	.231	11653	20.1	17	1N		V		4.13				
ATHN	19	1242	1303	1246	N09	E16	.326	11653	20.7	21	-N	2	C		.66				D
HTPR	19	1242	1252D		N08	E17	.332	11653	20.8	10D	-F		C	1246	.52	.50			E
CATA	19	1245E	1315	1245	N08	E17	.332	11653	20.8	30D	-N		P	1245	.69	.74		174	
GRP41804	19	1311	1335	1318	S15	E48	.758	11656	23.1	24	--F				.46				4 4 3 8
ATHN	19	1310	1337	1320	S14	E45	.722	11656	22.9	27	-N	2	C		.50				D
HTPR	19	1310	1335	1316	S15	E50	.779	11656	23.3	25	-F		C	1316	.41	.60			E
RAMY	19	1312	1342	1317	S14	E48	.756	11656	23.1	30	-F	3	C		.46				D
ONDR	19	1313E	1327		S16	E48	.760	11656	23.2	14D	1F		V	1314			2.20		CD
806 RAMY	19	1616	1636	1626	N13	W33	.584	11651	17.2	20	--F	1	C		.46				D 2
	19	1755	1804	NO FLARE PATROL															
807 RAMY	19	1920	1938	1925	N13	W36	.623	11651	17.1	18	--F	2	C		.46				D 2
	19	2335	2340	NO FLARE PATROL															
GRP41809	20	0631	0647	0636	S11	E61	.877	11657	24.8	16	--F				.32				2 2 2 3
MANI	20	0628E	0652	0635	S11	E61	.877	11657	24.8	24D	-F	2		0635	.31	.57			
ATHN	20	0634	0641	0636	S10	E60	.868	11657	24.8	7	-F	2	C		.33				D

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	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP41810	20	1058	1148	1116	S09	E40	.649	11656	23.5	50	1N				2.21				5 5 5 5
CATA	20	1050	1155	1115	S11	E39	.641	11656	23.4	65	1B		C	1115	2.78	3.69		237	
CANR	20	1056	1145	1114	S11	E41	.666	11656	23.5	49	-F	2	C	1114	.97	1.29			
ATHN	20	1108	1141	1115	S09	E40	.649	11656	23.5	33	-N	2	C		1.49				F
KHAR	20	1120E	1150		S08	E40	.648	11656	23.5	30D	2N		P	1120	3.97	5.40	2.40		E
RAMY	20	1120E	11320	1120	S08	E39	.634	11656	23.4	12D	-N	2	C		1.86				F
GRP41812	20	1213	1222	1215	N13	W44	.719	11651	17.2	9	--N				.45				3 3 3 4
RAMY	20	1212	1221	1215	N12	W45	.728	11651	17.1	9	-F	2	C		.57				D
ATHN	20	1213	1220	1215	N13	W43	.708	11651	17.3	7	-N	2	C		.33				D
CANR	20	1215	1224		N13	W43	.708	11651	17.3	9	-N	2	V	1217	.45	.60			
GRP41813	20	1220	1241	1225	S15	E32	.564	11656	22.9	21	--F				.77				4 4 4 4
CANR	20	1217	1240		S08	E33	.552	11656	23.0	23	-F	2	V	1230	.80	.90			
CATA	20	1220	1250	1225	S18	E32	.580	11656	22.9	30	-N		C	1225	1.33	1.63		186	
RAMY	20	1221	1240	1224	S16	E32	.569	11656	22.9	19	-F	3	C		.46				D
ATHN	20	1221	1234	1225	S18	E32	.580	11656	22.9	13	-F	2	C		.50				D
GRP41816	20	1620	1638	1627	S15	E47	.747	11657	24.2	18	--F				.27				3 3 2 4
LOCK	20	1619	1632	1623	S15	E47	.747	11657	24.2	13	-F		C						
CANR	20	1620	1644	1630	S15	E47	.747	11657	24.2	24	-F	2	C	1630	.32	.49			
HUAN	20	1621E	16250		S14	E47	.744	11657	24.2	40	-F	1	P	1623	.21	.31			D
817 LOCK	20	1744	1749	1746	S13	E35	.595	11656	23.4	5	--F		C						2
GRP41818	20	1845	1855	1849	S12	E25	.453	11656	22.7	10	--F				.45				2 2 2 2
RAMY	20	1843	1850D	1849	S12	E25	.453	11656	22.7	7D	-F	2	C		.36				D
BOUL	20	1847	1855	1849	S12	E25	.453	11656	22.7	8	-N	2	C	1849	.54	.61			
GRP41819	20	1845	1905	1850	S15	W75	.966	11646	15.2	20	-N				.54				2 2 1 2
BOUL	20	1845	1906	1850	S13	W74	.962	11646	15.2	21	-N	2	C	1850	.54				
RAMY	20	1849E	1904	1849	S16	W76	.971	11646	15.1	15D	-N	2	C						D
820 LOCK	20	2040E	2048	2042	S09	E24	.423	11656	22.7	8D	--F		C						3
822 LOCK	20	2310	2320	2314	S09	E24	.423	11656	22.8	10	--F		C						3
	20	2356	0000	NO FLARE PATROL															
823 VORO	21	0019	0034	0021	S11	E23	.417	11656	22.7	15	--B		C	0021	.46	.50		76	EJ 3
GRP41825	21	0215	0226	0220	S04	E02	.054	11654	21.2	11	--N				.54				2 2 2 4
PALE	21	0215	0229	0218	S04	E01	.045	11654	21.2	14	-N	3	C		.55				D
MANI	21	0218E	0223	0221	S04	E02	.054	11654	21.2	5D	-N	2		0221	.52	.51			
GRP41826	21	0354	0404	0356	S11	E21	.388	11656	22.7	10	--N				.54				3 3 2 5
TEHR	21	0354	0403	0355	S11	E19	.359	11656	22.6	9	-F	2	C						F
VORO	21	0354	0400	0355	S10	E22	.397	11656	22.8	6	-B		C	0355	.56	.60		85	D
	21	0355E	0410	0358	S12	E21	.395	11656	22.7	15D	-B			0358	.52	.56			
GRP41827	21	0511	0523	0517	S14	E40	.662	11657	24.2	12	--F				.93				2 2 1 3
TEHR	21	0511E	0521	U	S13	E39	.646	11657	24.1	10D	-N	4	C						F
MANI	21	0515E	0524	0517	S15	E40	.655	11657	24.2	9D	-F	2		0517	.93	1.23			
828 TEHR	21	0648	0728	0656	S17	E39	.660	11657	24.2	40	--N	3	C		.55				F 4
829 TEHR	21	0720	0727	0722	S18	E23	.468	11656	23.0	7	--N	3	C		.28				D 3
GRP41830	21	0804	0828	0808	S16	E41	.680	11657	24.4	24	--N				.19				2 1 1 5
TEHR	21	0804	0828	0808	S16	E41	.680	11657	24.4	24	-N	3	C		.19				F
CATA	21	0815E	0900D	0820	S16	E37	.632	11657	24.1	45D	-N		P	0820	1.27	1.64		174	
GRP41831	21	0933	0950	0935	S06	W04	.103	11654	21.1	17	--B				.37				2 2 2 5
TEHR	21	0931	0950	0934	S08	W04	.131	11654	21.1	19	-N	3	C		.28				FR
CATA	21	0935	0950	0935	S04	W04	.081	11654	21.1	15	-B		C	0935	.46	.47		209	D
GRP41832	21	1015	1034	1018	S13	E18	.361	11656	22.8	19	--N				.46				2 2 2 5
TEHR	21	1014E	1034	1016	S13	E18	.361	11656	22.8	20D	-N	3	C		.28				F
CATA	21	1015	1025D	1020	S13	E17	.347	11656	22.7	10D	-N		P	1020	.63	.68		170	
GRP41834	21	1109	1142	1118	S16	E36	.619	11657	24.2	33	--N				.69				3 3 3 7
TEHR	21	1105	1135	1120	S16	E37	.632	11657	24.2	30	-N	3	C		.64				F
CATA	21	1110	1150	1115	S16	E35	.607	11657	24.1	40	-N		C	1115	.93	1.16		195	
ATHN	21	1113	1142	1118	S15	E36	.615	11657	24.2	29	-F	2	C		.50				D
	21	1609	1631	NO FLARE PATROL															
837 BOUL	21	1720	1735	1724	S11	E13	.275	11656	22.7	15	--N	2	C	1724	.22	.22			3

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	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
840 PALE	22	0146E	0205	0146	S18	E28	.529	11657	24.2	19D	--N	3	C		.41				D 3
841 VORO	22	0330	0339	0331	S19	E35	.621	11657	24.8	9	-B		C	0331	1.02	1.30		72	EJ 1
	22	0341	0350	NO FLARE PATROL															
842 MANI	22	0353E	0410	0353	S16	E10	.298	11656	22.9	17D	--F	2		0353	.21	.22			2
843 TEHR	22	0542	0548	0544	N08	W59	.863	11651	17.8	6	--F	2	C		.19				D 3
GRP41847	22	1233	1251	1238	S13	E25	.457	11657	24.4	18	--F				1.13				7 7 7 11
CATA	22	1215	1310	1240	S16	E24	.463	11657	24.3	55	1N		C	1240	2.32	2.60		195	
RAMY	22	1232	1253	1235	S11	E26	.450	11657	24.5	21	-N	2	C		.93				D
ATHN	22	1232	1243	1236	S13	E23	.429	11657	24.2	11	-F	2	C		.83				F
TEHR	22	1233	1248D	1237	S14	E27	.490	11657	24.5	15D	-F	3	C		.36				D
HTPR	22	1233	1251	1237	S13	E26	.471	11657	24.5	18	-F		C	1237	.62	.70			EI
ZURI	22	1234	1240	1236	S11	E26	.460	11657	24.5	6	-F		C	1236	.97	1.10			
CANR	22	1235	1252	1242	S13	E25	.457	11657	24.4	17	-F	2	V	1242	1.85	2.00			
GRP41850	22	1523	1540	1526	S09	E29	.496	11657	24.8	17	--F				.53				3 3 3 5
RAMY	22	1523	1544	1526	S10	E30	.514	11657	24.9	21	-F	2	C		.83				D
MCMA	22	1523	1550	1525	S08	E28	.478	11657	24.7	27	-N		C	1525	.52	.60			EL
HUAN	22	1524	1527	1526	S08	E28	.478	11657	24.7	3	-F	2	C	1526	.25	.28			D
GRP41851	22	1553	1609	1555	S16	E17	.374	11657	23.9	16	--F				.61				3 2 2 4
RAMY	22	1550	1612	1554	S15	E17	.364	11657	23.9	22	-F	2	C		.83				D
CANR	22	1551	1608D	1608	S16	E17	.374	11657	23.9	17D	-N	2	V	1552	.20	.20			
HUAN	22	1555	1606	1556	S16	E17	.374	11657	23.9	11	-F	2	C	1556	.38	.41			E
GRP41852	22	1938	1946	1940	S16	E20	.412	11657	24.3	8	--N				.53				3 3 3 3
RAMY	22	1937	1948	1939	S16	E19	.399	11657	24.2	11	-N	2	C		.57				D
MCMA	22	1938	1945D	1939	S16	E20	.412	11657	24.3	7D	-N		C	1939	.41	.40			E
PALE	22	1939E	1944	1941	S15	E21	.416	11657	24.4	5D	-N	3	C		.62				D
	22	2113	2124	NO FLARE PATROL															
853 PALE	22	2210E	2216	2211	N13	W70	.945	11651	17.7	5D	-N	2	C		.52				F 2
	22	2239	2258	NO FLARE PATROL															
GRP41854	23	0122	0136	0129	S15	W01	.227	11656	23.0	14	-B				1.14				3 3 3 3
MANI	23	0114	0128	0128	S17	W01	.261	11656	23.0	14	-B	2		0128	1.03	1.06			
VORO	23	0126	0138	0129	S14	W02	.213	11656	22.9	12	-B		C	0129	1.66	1.70		107	EJ
PALE	23	0127	0141	0130	S14	W01	.210	11656	23.0	14	-N	2	C		.72				F
GRP41855	23	0311	0326	0315	N09	W75	.958	11651	17.5	15	1N				1.82				2 2 2 2
CRON	23	0310U	0329D	0316U	N10	W73	.959	11651	17.7	19D	1N	1	C	0316	.86				
VORO	23	0312	0323	0314	N07	W76	.972	11651	17.4	11	2N		C	0314	2.77	11.00		98	EJ
GRP41861	23	1129	1140	1133	N13	W78	.981	11651	17.6	11	-N				.51				4 4 4 5
ATHN	23	1127	1141	1132	N15	W80	.987	11651	17.5	14	-N	3	C		.66				DH
TEHR	23	1129	1140	1133	N11	W75	.969	11651	17.9	11	-N	2	C		.19				F
CAPE	23	1130	1140	1133	N12	W78	.981	11651	17.6	10	-N		C	1133	.86				
HUAN	23	1133E	1139		N13	W78	.981	11651	17.6	6D	-N	1	P	1135	.33				
866 ATHN	23	1358	1408	1402	N15	W81	.990	11651	17.5	10	-N	2	C		.66				DH 3
GRP41868	23	1523	1556	1531	S15	E07	.256	11657	24.2	33	-N				1.00				3 3 3 3
RAMY	23	1521	1600	1530	S15	E07	.256	11657	24.2	39	-N	3	C		1.24				U
CANR	23	1524	1558	1532	S16	E07	.271	11657	24.2	34	-N	2	C	1532	.65	.65			
HUAN	23	1533E	1551		S15	E07	.256	11657	24.2	18D	-F	2	P	1533	1.11	1.16			
GRP41869	23	1549	1602	1551	N13	W79	.984	11651	17.7	13	--F				.36				3 3 2 4
RAMY	23	1546	1601	U	N12	W82	.992	11651	17.5	15	-F	3	C						D
HUAN	23	1547	1559	1551U	N13	W80	.987	11651	17.7	12	-F	1	C	1551	.21				D
BOUL	23	1553	1605		N14	W76	.974	11651	18.0	12	-F	2	V	1553	.50	1.50			
870 RAMY	23	1621	1635	1628	N12	W82	.992	11651	17.5	14	--F	2	C						D 3
GRP41871	23	1638	1709	1646	N14	W76	.974	11651	18.0	31	--F				.50				2 1 1 4
BOUL	23	1638	1709	1646	N14	W76	.974	11651	18.0	31	-F	2	V	1646	.50	1.50			
RAMY	23	1639	1645D	1641	N08	W85	.997	11651	17.3	6D	-N	2	C						D
GRP41872	23	1716	1740	1719	N12	W85	.997	11651	17.3	24	--N								2 1 0 4
RAMY	23	1716	1740	1719	N12	W85	.997	11651	17.3	24	-N	2	C						D
HUAN	23	1724E	1738		N13	W82	.992	11651	17.6	14D	-F	1	P	1730					D
873 HUAN	23	1915	1923		N13	W82	.992	11651	17.7	8	--F	1	P	1917	.15				D 2

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	DATE 1971	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. %	
	DEC																		
874 BOUL	23	2054	2105	2100U	N14	W75	.970	11651	18.2	11	--F	2	C	2100	.32				2
	23	2229	2305	NO FLARE PATROL															
GRP41876	24	0350	0402	0355	S14	W12	.290	11656	23.3	12	--N				.32				2 2 2 3
CRON	24	0350	0401	0354	S14	W12	.290	11656	23.3	11	-N	2	C	0354	.32	.32			
MANI	24	0354E	0403	0356	S14	W12	.290	11656	23.3	9D	-N	2		0356	.31	.32			
GRP41878	24	0923	0940	0924	S14	W16	.339	11656	23.2	17	--F				.44				3 3 3 7
ATHN	24	0920	0930	0924	S13	W16	.330	11656	23.2	10	-N	2	C		.50				D
CANR	24	0925	1000		S14	W16	.339	11656	23.2	35	-F	3	V	0925	.30	.40			
HTPR	24	0925E	0931		S15	W15	.337	11656	23.3	6D	-F		C	0927	.52	.50			E
GRP41879	24	0943	1000	0946	S14	W19	.379	11656	23.0	17	--F				.35				3 3 3 8
ATHN	24	0943	0955D	0946	S14	W20	.393	11656	22.9	12D	-F	2	C		.33				D
HTPR	24	0945E	0957		S15	W20	.401	11656	22.9	12D	-F		C	0949	.31	.30			
CAPS	24	0950E	1002D		S12	W17	.335	11656	23.1	12D	-F	2	P	0951	.40	.40		155	C
881 RAMY	24	1237	1246	1240	S16	W08	.277	11657	23.9	9	--N	3	C		.26				D 3
GRP41882	24	1335	1347	1336	S11	W20	.371	11656	23.1	12	--B				.61				3 3 3 3
RAMY	24	1334	1350	1335	S14	W18	.366	11656	23.2	16	-B	3	C		.52				D
CAPE	24	1335	1349	1336	S13	W18	.357	11656	23.2	14	-B		C	1336	.99	1.10			V
RAMY	24	1335	1350	1336	S09	W22	.390	11656	22.9	15	-F	3	C		.21				D
CANR	24	1336	1342	1338	S10	W22	.395	11656	22.9	6	-N	2	C	1338	.11	.12			
883 CANR	24	1335	1346	1336	S16	W16	.360	11656	23.4	11	--N	2	C	1336	.54	.58			3
	24	1505	1512	NO FLARE PATROL															
884 PALE	24	2055	2107D	2058	S14	W23	.434	11656	23.1	12D	--N	2	C		.27				F 1
	24	2100	2129	NO FLARE PATROL															
885 PALE	24	2242	2253	2245	S13	W23	.427	11656	23.2	11	-B	2	C		1.44				D 1
886 MANI	25	0007	0020	0013	S16	W14	.335	11657	24.0	13	--N	2		0013	.41	.44			2
GRP41887	25	0230	0422	0237	S14	W15	.325	11657	24.0	112	-B				2.39				4 4 4 4
MANI	25	0213	0422	0237	S15	W15	.336	11657	24.0	129	-B	2		0237	2.17	2.30			
CULG	25	0228	0405D		S14	W17	.351	11657	23.8	97D	1F		P	0242	2.89	2.94			
VORO	25	0232	0400D	0234	S15	W14	.323	11657	24.1	88D	1B		C	0234	2.68	2.80		110	EJ
PALE	25	0240E	0310D	0240	S13	W15	.316	11657	24.0	30D	-B	2	C		1.80				FH
4 STATIONS REPORTING GROUP 41888.					2 STATIONS OBSERVING AND NOT REPORTING.														
GRP41888	25	0854	0916	0858	S18	W20	.426	11657	23.9	22	--N				.26				2 2 2 5
ATHN	25	0853	0916	0858	S16	W20	.408	11657	23.9	23	-N	2	C		.33				D
TEHR	25	0854	0909D	0858	S20	W19	.435	11657	23.9	15D	-N	3	C		.19				FH
41888	25	0852	0920	(0911)	S16	W19	.395	11657	23.9	28	*-N				.33				3 2 1 4
ATHN	25	0820	0859	0823	S11	W26	.458	11657	23.4	39	-F	1	C		.33				D
WEND	25	0852E	0926D		S16	W18	.383	11657	24.0	34D	-N								
ONDR	25	0910E	0913		S16	W20	.408	11657	23.9	3D	-N		V	0911			2.30		DH
5 STATIONS REPORTING GROUP 41889.					1 STATIONS OBSERVING AND NOT REPORTING.														
GRP41889	25	1319	1406	1326	S21	W09	.355	11657	24.9	47	1B				5.03				3 3 3 6
RAMY	25	1317	1412	1325	S21	W08	.349	11657	25.0	55	2B	3	C		6.31				UF
ATHN	25	1320	1358	1326	S21	W10	.362	11657	24.8	38	1B	2	C		4.29				FH
CAPS	25	1321E	1409D		S20	W08	.334	11657	25.0	48D	1B	2	P	1328	4.50	4.70		256	CF
41889	25	1321	1431	(1341)	S24	W07	.389	11657	25.0	70	*1N				7.25				2 2 2 6
HUAN	25	1321	1412D		S22	W08	.364	11657	25.0	51D	1N	1	P	1341	2.12	2.29			
WEND	25	1324E	1431		S25	W05	.397	11657	25.2	67D	2N		P		12.38				
	25	1722	1730	NO FLARE PATROL															
GRP41891	25	1859	1912	1902	S15	W35	.600	11656	23.2	13	--N				.78				2 2 2 2
PALE	25	1859	1912	1901	S15	W34	.587	11656	23.2	13	-N	2	C		.72				F
RAMY	25	1902E	1912	1903	S15	W35	.600	11656	23.2	10D	-N	2	C		.84				D
	25	2151	2207	NO FLARE PATROL															
	25	2209	2232	NO FLARE PATROL															
892 PALE	25	2243E	2243D	2243	S15	W36	.612	11656	23.2		--F	2	C		.19				1
	25	2303	2321	NO FLARE PATROL															

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
					APPROX.		CENTRAL	MCMATH PLAGE	CMP										
	DATE 1971 DEC	START	END	MAX. PHASE	LAT.	MER. DIST.	DISTANCE	REGION	DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP41893	26	0122	0140	0125	S12	W37	.615	11657	23.3	18	--F				.29				2 2 2 4
PALE	26	0119E	0133D	0121	S12	W36	.601	11657	23.4	14D	-N	2	C		.36				
MANI	26	0125	0140	0129	S11	W37	.612	11657	23.3	15	-F	2		0129	.21	.26			
GRP41894	26	0301	0329	0308	S14	W27	.487	11657	24.1	28	-N				.90				3 3 3 4
MANI	26	0259	0337	0311	S13	W27	.482	11657	24.1	38	-N	2		0311	.93	1.06			
CRON	26	0300	0328	0307	S14	W28	.501	11657	24.0	28	-N	2	C	0307	.75	.87			
VORO	26	0304	0323	0305	S15	W27	.493	11657	24.1	19	-B		C	0305	1.02	1.20		84	EJ
GRP41895	26	1149	1203	1152	S15	W37	.624	11657	23.7	14	--F				.60				2 2 2 7
ATHN	26	1148	1200	1153	S15	W37	.624	11657	23.7	12	-F	2	C		.50				D
CATA	26	1150	1205	1150	S14	W36	.608	11657	23.8	15	-N		C	1150	.69	.79		195	
	26	1706	1724	NO FLARE PATROL															
	26	1745	1758	NO FLARE PATROL															
898 RAMY	26	1758E	1814	1805	S17	W52	.800	11656	22.8	16D	-N	2	C		.65				D 2
	26	2212	2312	NO FLARE PATROL															
899 CRON	27	0520E	0524		S15	W45	.721	11657	23.8	4D	--F	5	F	0521	1.00				2
GRP41900	27	1117	1125	1118	S12	W49	.760	11657	23.8	8	--F				.37				2 2 2 4
ATHN	27	1114	1122	1118	S11	W50	.770	11657	23.7	8	-F	2	C		.33				D
CANR	27	1120	1127		S12	W48	.749	11657	23.9	7	-F	3	V	1121	.40	.60			
901 RAMY	27	2115E	2119	2115	S24	W40	.699	11657	24.9	4D	--F	2	C		.67				D 3
	27	2307	2308	NO FLARE PATROL															
902 VORO	28	0330	0339	0331	S14	W64	.900	11656	23.3	9	-B		C	0331	.46	1.00		66	DJ 3
903 MANI	28	0528E	0533	0528	S18	W60	.873	11657	23.7	5D	--N	2		0528	.41	.76			2
	28	0608	0612	NO FLARE PATROL															
GRP41904	28	0805	0817	0810	S15	W61	.878	11657	23.8	12	-N				.51				3 3 2 4
ISTA	28	0801	0813	0809	S15	W61	.878	11657	23.8	12	-N								
CATA	28	0805	0825	0810	S16	W60	.870	11657	23.8	20	-N		C	0810	.52	1.11		188	
ATHN	28	0810	0814	0811	S15	W62	.886	11657	23.7	4	-F	2	C		.50				D
GRP41905	28	0947	1002	0952	S15	W61	.878	11657	23.8	15	-N				.71				3 3 2 6
ISTA	28	0945	0956		S15	W61	.878	11657	23.8	11	-B								
ATHN	28	0946	0950	0948	S15	W62	.886	11657	23.8	4	-N	2	C		.33				D
CATA	28	0950	1020D	0955	S14	W61	.877	11657	23.8	30D	1N		P	0955	1.09	2.43		182	
	28	1447	1505	NO FLARE PATROL															
	28	1638	1645	NO FLARE PATROL															
	28	1651	1707	NO FLARE PATROL															
908 PALE	28	2232	2241	2237	S23	W60	.879	11657	24.4	9	--F	2	C		.93				S 3
909 VORO	29	0317	0325	0318	S22	W65	.913	11657	24.3	8	--B		C	0318	.37	1.80		78	DJ 3
GRP41915	29	1006	1025	1011	S06	E26	.441	11666	31.4	19	--N				.48				4 4 4 5
CANR	29	1004	1025	1011	S07	E26	.443	11666	31.4	21	-N	2	C	1011	.32	.36			
CRON	29	1005	1025	1011	S07	E25	.427	11666	31.3	20	-N	2	C	1011	.32	.36			
CAPE	29	1007	1025	1010	S05	E27	.455	11666	31.4	18	-N		C	1010	.95	1.10			H
ATHN	29	1008	1023	1011	S06	E26	.441	11666	31.4	15	-N	2	C		.33				D
917 CANR	29	1355	1400		S16	W70	.940	11657	24.3	5	--N	3	V	1357	.20	.50			2
	29	1916	2147	NO FLARE PATROL															
	29	2210	2225	NO FLARE PATROL															
	29	2231	2311	NO FLARE PATROL															
918 CRON	29	2311	2325	2315	S21	W74	.962	11657	24.4	14	1N	2	C	2315	1.51				1
	29	2400	0002	NO FLARE PATROL															
GRP41919	30	0048	0109	0054	S09	W77	.973	11657	24.3	21	1N				.85				2 2 2 2
CULG	30	0045	0117D	0052	S09	W78	.977	11657	24.2	32D	1N		P	0052	.72				R
CRON	30	0050	0100	0055	S08	W76	.969	11657	24.3	10	1N	2	C	0055	.97				

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
920 CRON	30	0219	0239	0223	S09	E19	.340	11666	31.5	20	--N	2	C	0223	.65	.70			1
921 CRON	30	0351E	0405	0356	S08	E19	.336	11666	31.6	14D	--N	5	N	0356	.50				1
GRP41927	30	1125	1154	1129	S09	E10	.204	11666	31.2	29	--F				1.45				2 2 2 4
CAPE	30	1125	1148	1132	S08	E10	.195	11666	31.2	23	-F		C	1132	1.17	1.20			
CATA	30	1125	1130D	1125	S09	E09	.189	11666	31.2	5D	-N		P	1125	1.73	1.77		182	
CATA	30	1140E	1200D	1140	S11	E11	.237	11666	31.3	20D	-N		P	1140	.46	.48		193	
GRP41929	30	1320	1328	1321	S13	W49	.761	11660	26.9	8	--N				.38				4 4 4 5
RAMY	30	1319	1328	1321	S13	W48	.750	11660	27.0	9	-N	3	C		.28				D
CAPE	30	1319	1330	1321	S12	W49	.759	11660	26.9	11	-N		C	1321	.86	1.30			
CANR	30	1320	1326	1321	S14	W50	.773	11660	26.8	5	-N	2	C	1321	.22	.34			
CATA	30	1320	1325D	1320	S14	W49	.762	11660	26.9	5D	-B		P	1320	.14	.22		251	
	30	1458	1511	NO FLARE PATROL															
	30	1642	1706	NO FLARE PATROL															
	30	1723	1735	NO FLARE PATROL															
930 RAMY	30	1735E	1750	1735	S07	E09	.172	11666	31.4	15D	--F	2	C		.57				D 1
	30	1752	1807	NO FLARE PATROL															
	30	1818	1823	NO FLARE PATROL															
	30	2003	2033	NO FLARE PATROL															
	30	2053	2259	NO FLARE PATROL															
	30	2302	2305	NO FLARE PATROL															
GRP41934	31	1233	1240	1235	N24	E29	.629	11668	2.7	7	--F				.57				3 3 3 8
RAMY	31	1232E	1240	1234	N25	E29	.637	11668	2.7	8D	-F	3	C		.57				D
CANR	31	1233	1241	1235	N22	E29	.612	11668	2.7	8	-N	3	V	1235	.35	.40			
CATA	31	1235	1240	1235	N24	E29	.629	11668	2.7	5	-F		C	1235	.80	1.03		127	
935 RAMY	31	1551	1607	1557	S08	E32	.534	11670	3.1	16	--F	2	C		.46				D 2
GRP41936	31	1837	1858	1844	S05	W09	.160	11666	31.1	21	-N				1.51				3 3 2 3
BOUL	31	1836	1858	1847	S04	W09	.157	11666	31.1	22	-N	1	V	1847					
RAMY	31	1837	1853D	1841	S06	W10	.181	11666	31.0	16D	-N	2	C		1.03				U
PALE	31	1838	1848D	1843	S06	W09	.165	11666	31.1	10D	-N	3	C		1.98				UD
	31	1853	1903	NO FLARE PATROL															
937 RAMY	31	1933	1941D	1938	N25	E26	.610	11668	2.8	8D	--F	2	C		.26				D 2
	31	2010	2031	NO FLARE PATROL															
	31	2140	2142	NO FLARE PATROL															
938 MANI	31	2335E	2343	2337	S14	W65	.907	11660	27.1	8D	--N	1		2337	.31	.61			2

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

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
711201	3.28	24.0	711213	41.46	24.0	711222	6.98	23.4
711202	121.32	23.0	711214	36.28	24.0	711223	34.64	23.4
711203	94.56	22.9	711215	19.46	24.0	711224	11.08	23.4
711207	18.19	23.8	711216	16.05	24.0	711225	163.68	22.9
711208	7.47	24.0	711217	11.85	23.8	711226	6.65	22.5
711209	2.30	24.0	711218	18.42	22.0	711227	0.00	24.0
711210	62.67	23.8	711219	9.48	23.8	711228	5.16	23.3
711211	112.18	24.0	711220	27.32	23.9	711229	13.58	20.5
711212	0.00	22.8	711221	0.00	23.6	711230	4.15	20.2
						711231	12.03	23.5

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

SOLAR FLARES
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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
548 CATA	01	0840E	0900D	0845	S21	W60	.887	11619	26.9	20D	-F		P	0845	.29	.64		141	9
555 PALE	02	0113E	0121D	0115	N12	W55	.826	11621	27.9	8D	-F	2	C		.27				F 6
558 ATHN	02	0624	0638	0628	S16	W69	.940	11619	27.1	14	-F	2	C		.33				D 4
GRP41560	02	0813	0818	0814	S17	W69	.941	11619	27.2	5	-F				.45				2 2 2 8
HTPR	02	0811	0815	0812	S16	W70	.946	11619	27.1	4	-F		C	0812	.31				
CATA	02	0815	0820	0815	S17	W68	.935	11619	27.2	5	-N		C	0815	.58			166	
562 TEHR	02	1229	1235	1232	S16	W70	.946	11619	27.3	6	-N	3	C		.28				D 4
572 MANI	03	0140	0144	0143	N12	W70	.942	11621	27.8	4	-N	2		0143	.93	2.00			3
GRP41577	03	0728	0735	0730	N11	W72	.952	11621	27.9	7	-N				.46				2 2 1 7
CATA	03	0725	0735	0730	N10	W73	.957	11621	27.8	10	-N		C	0730	.46			186	
ISTA	03	0730	0735		N12	W70	.942	11621	28.1	5	-N								B
GRP41578	03	0805	0815	0807	S16	W85	.997	11619	27.0	10	-N				.16				2 2 2 7
TEHR	03	0805	0815	0807	S16	W85	.997	11619	27.0	10	-N	3	C		.19				D
ARCE	03	0806E	0814D		S16	W85	.997	11619	27.0	8D	-N		P	0806	.12				
GRP41579	03	0813	0833	0815	S10	W74	.963	11619	27.8	20	-N				.23				2 2 2 8
TEHR	03	0810	0835	0814	S12	W74	.964	11619	27.8	25	-N	3	C		.28				F
CATA	03	0815	0830	0815	S08	W74	.962	11619	27.8	15	-N		C	0815	.17			162	
582 ATHN	03	0901	0909	0904	S04	E48	.745	11630	7.0	8	-N	3	C		.50				D 7
583 ARCE	03	0931	0934D		N10	W78	.978	11621	27.5	3D	-N		C	0934	.12				T 7
GRP41585	03	1019	1028	1022	N13	W76	.971	11621	27.7	9	-F				.26				2 2 2 8
ATHN	03	1018	1028	1021	N13	W75	.957	11621	27.8	10	-F	3	C		.33				D
TEHR	03	1020	1028	1022	N12	W77	.975	11621	27.7	8	-F	3	C		.19				D
586 CATA	03	1035E	1115D	1110	S11	W90	1.000	11619	26.7	40D	-F		P	1110	.52			140	9
589 CATA	03	1255	1305D	1300	S09	W90	1.000	11619	26.8	10D	-N		P	1300	.29			153	7
594 MITK	04	0057	0121	0108	S17	W90	1.000	11619	27.3	24	1N		C	0108	.83				D 4
595 CULG	04	0126	0211	0133	N12	W88	.999	11621	27.5	45	1F		C	0133	.52				5
596 MANI	04	0518E	0523	0518	S04	E37	.605	11630	7.0	5D	-F	2		0518	.31	.38			3
598 ARCE	04	0810E	0824		N11	W90	1.000	11621	27.6	14D	-N		C	0813	.34				9
GRP41599	04	0857	0907	0903	S06	E37	.609	11630	7.1	10	-F				.24				2 2 2 9
ARCE	04	0855	0905	0903	S06	E36	.595	11630	7.1	10	-F		C	0903	.15	.20			T
ATHN	04	0859	0908	0902	S06	E37	.609	11630	7.1	9	-N	3	C		.33				D
600 ATHN	04	1004	1011	1007	S05	W90	1.000	11619	27.7	7	-F	2	C						D 7
601 CATA	04	1100E	1105D	1100	N18	W90	1.000	11621	27.7	5D	1N		P	1100	1.16			162	A 7
602 TEHR	04	1143E	1151D	U	S13	E62	.890	11632	9.1	8D	-N	2	C						D 7
603 ATHN	04	1259	1313	1301	S04	E34	.563	11630	7.1	14	-F	3	C		.33				D 7
604 ATHN	04	1338	1347	1341	S04	E34	.563	11630	7.1	9	-F	2	C		.33				D 7
607 PALE	04	2312	2325	2316	S05	E27	.462	11630	7.0	13	-F	2	C		.83				F 5
608 ARCE	05	0830	0901	0835	S04	E22	.381	11630	7.0	31	-F		C	0835	.12	.12			6
611 HUAN	05	1740	1749	1743	S13	E40	.667	11632	8.7	9	-F	2	C	1743	.30	.41			D 4
614 ATHN	06	0730	0742	0733	S13	E32	.565	11632	8.7	12	-N	1	C		.50				F 6
615 CATA	06	1235	1250	1240	N10	E90	1.000	11644	13.3	15	-N		C	1240	.23			166	9
619 LOCK	06	2100	2115	2105	S18	W73	.961	11625	1.4	15	-F		C						4
GRP41620	07	0749	0818	0753	N10	E06	.200	11634	7.8	29	-F				.21				2 1 1 6
MANI	07	0749E	0818	0753	N10	E06	.200	11634	7.8	29D	-F	2		0753	.21	.21			
ARCE	07	0805E	0825D		N10	E07	.209	11634	7.9	20D	-F		C	0805	.34	.34			H
621 ARCE	07	0913E	0915		N11	E78	.979	11644	13.2	2D	-N		P	0915	.19				T 9
623 ATHN	07	1029E	1047	1029	S12	E15	.329	11632	8.6	18D	-N	2	C		.66				D 7

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	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP41624	07	1137	1146	1141	S14	E16	.362	11632	8.7	9	-F				.32				2 2 2 8
ATHN	07	1137	1145	1141	S11	E12	.281	11632	8.4	8	-N	2	C		.33				D
CAPS	07	1141E	1146D		S16	E19	.419	11632	8.9	5D	-F	2	V	1143	.30	.30		145	C
626 MONT	07	1318	1326	1320	S11	W90	1.000	11625	30.8	8	-N		C	1320	.52				7
627 WEND	07	1419E	1427D		S14	E12	.317	11632	8.5	8D	-F								5
633 MITK	08	0057E	0137		S13	W90	1.000	11625	1.3	40D	-N		C	0057	.52				4
634 MITK	08	0136	0138	0136	S06	W17	.309	11630	6.8	2	-F		C	0136	.83	.90			D 5
GRP41635	08	0231	0252	0234	S11	W90	1.000	11625	1.4	21	1N				1.24				1 1 1 5
MITK	08	0231	0240	0234	S10	W90	1.000	11625	1.4	9	1N		C	0234	1.24				
MITK	08	0231	0252	0234	S13	W90	1.000	11625	1.4	21	1N		C	0234	.72				
636 ATHN	08	0732	0741	0736	N10	W46	.729	11633	4.9	9	-F	2	C		.33				D 5
637 ATHN	08	0842	0855	0846	S14	W90	1.000	11625	1.6	13	-N	2	C						D 7
638 ATHN	08	0919	0929	0922	S16	W90	1.000	11625	1.6	10	-N	2	C						D 7
644 CANR	09	0944	0950D		N10	W62	.887	11633	4.8	6D	-F	2	V	0950	.50	.90			5
646 CANR	09	1140	1210		N10	W63	.895	11633	4.8	30	-N	2	V	1150	.35	.70			4
647 RAMY	09	1153	1203	1155	S01	W36	.588	11630	6.8	10	-F	2	C		.57				D 4
650 LOCK	09	1710	1805	1735	N20	E81	.989	11647	15.8	55	-F		C						4
651 LOCK	09	1830	1910	1845	N20	E81	.989	11647	15.8	40	-F		C						4
660 TEHR	10	0803	0813	0806	N13	W79	.983	11633	4.4	10	-N	3	C		.19				D 5
661 ARCE	10	0810	0930	0845	N21	E85	.997	11647	16.7	80	-N		C	0920	.34				8
662 TEHR	10	0830	0850	0833	N13	W35	.604	11634	7.7	20	-N	3	C		.28				F 7
GRP41663	10	0851	0908	0855	N09	E35	.589	11644	13.0	17	-F				.39				2 2 2 7
ARCE	10	0850E	0910D		N10	E35	.592	11644	13.0	20D	-F		C	0855	.41	.50			
TEHR	10	0852	0906	0855	N08	E34	.572	11644	12.9	14	-N	3	C		.36				F
GRP41664	10	0851	0905	0857	N09	W80	.985	11633	4.4	14	-F				.06				2 2 2 7
ARCE	10	0845E	0900D		N07	W81	.988	11633	4.3	15D	-N		C	0850	.03				
TEHR	10	0856	0905	0857	N10	W78	.979	11633	4.5	9	-F	3	C		.09				D
GRP41665	10	0946	0955	0947	N10	E32	.551	11644	12.8	9	-F				.53				2 2 2 8
ARCE	10	0946E	0955		N10	E32	.551	11644	12.8	9D	-F		C	0946	.34	.40			
MONT	10	0946	0954	0947	N09	E32	.547	11644	12.8	8	-N		C	0947	.72				
666 MONT	10	1012	1028	1017	N09	E37	.615	11644	13.2	16	-N		C	1017	.72				6
667 MONT	10	1117	1126	1119	N09	E37	.615	11644	13.2	9	-N		C	1119	1.86				6
669 RAMY	10	1245	1302	1248	N08	E32	.544	11644	12.9	17	-F	2	C		.46				D 5
670 RAMY	10	1308	1319D	1310	S07	W46	.724	11630	7.1	11D	-F	2	C		.56				D 5
676 TEHR	11	0708	0732	0712	N09	W51	.784	11634	7.5	24	-F	3	C		.28				FH 4
677 ATHN	11	0718	0728	0719	N10	E23	.425	11644	13.0	10	-N	2	C		.17				D 4
678 ATHN	11	0731	0758	0736	N10	E20	.382	11644	12.8	27	-N	3	C		.99				F 4
680 TEHR	11	1005E	1015D	U	N09	E22	.404	11644	13.1	10D	-N	2	C						F 8
689 PALE	11	1859	1909	1900	S06	W29	.492	11638	9.6	10	-F	2	C		.19				F 4
692 MANI	12	0604	0624	0608	N08	E07	.191	11644	12.8	20	-N	2		0608	.41	.42			5
694 CAPS	12	0811E	0852D		S04	W70	.940	11630	7.1	41D	-N	1	V	0825	1.00			185	8
695 ATHN	12	1144	1201D	1148	S06	W76	.970	11630	6.8	17D	-F	1	C		.33				D 4
700 ATHN	13	0916	0931	0921	S01	W15	.259	11643	12.3	15	-N	2	C		.17				D 4
701 CANR	13	1628	1630D		N07	W05	.158	11644	13.3	2D	-F	2	V	1630	.95	1.00			3
702 CANR	13	1645	1710		N07	W06	.168	11644	13.2	25	-F	2	V		1.95	2.00			3

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	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
707 MANI	14	0344	0415	0349	N21	E33	.628	11647	16.6	31	-N	2		0349	.31	.40			3
GRP41710	14	0835	0850	0841	S07	W29	.494	11643	12.2	15	-F				.33				2 2 1 8
ISTA	14	0830	0850		S04	W29	.487	11643	12.2	20	-F								
ATHN	14	0840	0850	0841	S09	W29	.500	11643	12.2	10	-N	2	C		.33				D
711 CANR	14	0850	0852		N09	W20	.378	11644	12.9	2	-F	3	V	0852	.40	.50			8
715 HUAN	14	1218	1237		N08	W21	.386	11644	12.9	19	-F	1	P	1225					T 5
716 HUAN	14	1324	1330	1325	N08	W21	.386	11644	13.0	6	-N	1	C	1325	.25	.27			D 7
717 HTPR	14	1434	1437	1435	N18	E30	.573	11647	16.9	3	-F		C	1435	.21	.20			D 6
718 HUAN	14	1438	1442	1439	N20	E27	.554	11647	16.6	4	-F	2	C	1439	.21	.25			D 6
724 PALE	14	2050	2103	2052	N09	W28	.493	11644	12.8	13	-N	3	C		.36				F 4
729 CRON	14	2356E	0008		N09	E28	.493	11651	17.1	12D	-F	3	V		1.10				5
732 CATA	15	0810	0835	0820	S16	W90	1.000	11632	8.6	25	-F		C	0820	.23			144	7
GRP41733	15	0840	0845	0842	N19	E21	.479	11647	16.9	5	-F				.61				2 2 2 7
MONT	15	0839E	0844	0841	N20	E19	.469	11647	16.8	5D	-N		C	0841	.72				
CRON	15	0840	0846	0842	N18	E22	.481	11647	17.0	6	-F	3	V	0842	.50				
734 CATA	15	0935	1015	0945	N14	E33	.587	11651	17.9	40	-N		C	0945	.17	.21		170	7
735 MONT	15	1011	1014	1012	N10	E79	.983	11653	21.3	3	-F		C	1012	.10				9
736 CAPE	15	1025	1036	1029	N20	E14	.422	11647	16.5	11	-F		C	1029	.99	1.10			H 9
737 MONT	15	1029	1035	1030	N20	E28	.566	11651	17.5	6	-N		C	1030	.72				9
738 ATHN	15	1302E	1308	1302	S12	W90	1.000	11632	8.8	6D	-N	2	C						D 10
739 MONT	15	1314	1413	1340	N07	W26	.456	11644	13.6	59	-N		C	1340	1.86				9
GRP41740	15	1323	1500	1332	N08	W14	.285	11645	14.5	97	-N				1.48				3 2 2 9
ATHN	15	1313	1324	1315	N08	W12	.257	11645	14.7	11	-F	2	C		.33				D
CATA	15	1320	1500	1335	N08	W14	.285	11645	14.5	100	-N		C	1335	.69	.73		182	
MONT	15	1325	1413D	1329	N07	W13	.262	11645	14.6	48D	-N		C	1329	2.27				
742 RAMY	15	1838	1843D	1841	N09	W39	.644	11644	12.9	5D	-F	2	C		.83				F 4
GRP41747	16	1020	1046	1027	S14	E85	.996	11656	22.8	26	-F				.72				2 2 2 12
MONT	16	0955	1047D	1027	S14	E85	.996	11656	22.8	52D	-N		C	1027	1.13				
HTPR	16	1020	1045	1026	S14	E85	.996	11656	22.8	25	-F		C	1026	.31				AY
GRP41748	16	1115	1126	1118	S14	E85	.996	11656	22.8	11	-F				.67				2 2 2 10
HTPR	16	1114	1125	1117	S14	E85	.996	11656	22.8	11	-F		C	1117	.21				A
MONT	16	1116	1126	1119	S14	E85	.996	11656	22.8	10	-N		C	1119	1.13				
751 BOUL	16	1514	1745	1552	S16	E80	.985	11656	22.6	151	1N	3	V	1552	.65	2.60			4
752 HTPR	16	1528	1538D	1529	N09	W50	.775	11644	12.9	10D	-F		C	1529	1.13	1.80			U 4
753 BOUL	16	1544	1612	1546	N17	E01	.310	11647	16.7	28	-F	3	V	1546	1.00	1.00			3
755 LOCK	16	1840	1855	1845	S14	E82	.990	11656	22.9	15	-F		C						5
761 CULG	17	0100E	0132D		N09	W41	.670	11644	14.0	32D	1B		P	0100	3.51	4.59			4
GRP41763	17	0735	0743	0735	N09	E48	.753	11653	20.9	8	-F				.23				2 2 1 8
CATA	17	0735	0740	0735	N09	E47	.742	11653	20.8	5	-N		C	0735	.23	.35		182	
TEHR	17	0737E	0745	U	N09	E48	.753	11653	20.9	8D	-F	3	C						D
GRP41765	17	0855	0908	0856	N10	E50	.777	11653	21.1	13	-F				.21				2 2 2 11
ATHN	17	0855	0857D	0856	N10	E50	.777	11653	21.1	2D	-F	1	C		.17				D
ARCE	17	0857E	0908D		N10	E49	.766	11653	21.0	11D	-F		C	0857	.25	.40			
GRP41766	17	0909	0926	0912	S13	E78	.978	11656	23.2	17	-F				.23				2 2 2 11
ARCE	17	0908E	0936D		S12	E78	.978	11656	23.2	28D	-N		C	0919	.27				
TEHR	17	0909	0915	0912	S13	E77	.975	11656	23.2	6	-F	2	C		.19				D
767 ARCE	17	0915E	0936D		N09	E48	.753	11653	21.0	21D	-F		C	0919	.25	.40			H 11
768 ARCE	17	0950	1000D	0950	S12	E78	.978	11656	23.3	10D	-N		C	0950	.12				9

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	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
769 CATA	17	1020	1025D	1020	N14	E05	.274	11651	17.8	5D	-N		P	1020	.58	.60		176	9
GRP41770	17	1057	1105	1058	N12	E02	.230	11651	17.6	8	-F				.52				2 2 2 9
HTPR	17	1056	1110	1058	N12	E02	.230	11651	17.6	14	-F		C	1058	.41	.40			
ZURI	17	1057	1059	1058	N12	E02	.230	11651	17.6	2	-F		C	1058	.63	.60			
773 HUAN	17	1316	1318	1316	S14	E73	.957	11656	23.0	2	-F	1	C	1316	.21				D 10
778 MANI	18	0118E	0148	0127	S14	E66	.917	11656	23.0	30D	-N	2		0127	.52	1.05			3
779 MANI	18	0142E	0209	0152	N17	W07	.334	11651	17.5	27D	-F	2		0152	.41	.43			3
784 TEHR	18	0740	0748	0746	S16	E67	.924	11656	23.3	8	-N	3	C		.09				FH 9
785 ATHN	18	0808	0819	0811	S14	E79	.982	11657	24.3	11	-F	2	C		.33				D 10
786 TEHR	18	1000	1007	1001	S15	E58	.856	11656	22.8	7	-F	3	C		.09				9
787 TEHR	18	1010	1020	1017	S14	W40	.663	11646	15.4	10	-F	3	C		.09				D 9
788 TEHR	18	1109	1115	1110	N12	W13	.317	11651	17.5	6	-F	2	C		.09				D 9
GRP41790	18	1210	1214	1211	N12	W14	.329	11651	17.5	4	-F				.39				2 2 2 8
RAMY	18	1209	1212D	1211	N12	W14	.329	11651	17.5	3D	-N	2	C		.37				DH
HTPR	18	1210	1214	1210	N12	W13	.317	11651	17.5	4	-F		C	1210	.41	.40			E
792 CATA	18	1450	1510D	1500	S16	E58	.857	11656	23.0	20D	-N		P	1500	.58	1.16		184	6
798 MANI	19	0309E	0344	0318	S14	W50	.777	11646	15.4	35D	-F	2		0318	.31	.48			4
799 TEHR	19	0443	0454	0445	S11	E46	.727	11656	22.6	11	-N	2	C		.09				D 5
800 TEHR	19	0514	0530	0520	N12	W26	.486	11651	17.3	16	-N	2	C		.19				FH 5
802 RAMY	19	1252	1302	1256	S13	E65	.909	11657	24.4	10	-F	3	C		.36				D 9
803 ATHN	19	1310	1330	1312	S16	E60	.873	11657	24.0	20	-F	2	C		.17				D 9
805 RAMY	19	1352	1415	1356	N15	W35	.620	11647	17.0	23	-F	2	C		.57				D 7
808 MANI	20	0206E	0213	0206	S13	W61	.878	11646	15.5	7D	-N	1		0206	.31	.57			4
811 CANR	20	1115	1122		N13	W43	.708	11651	17.2	7	-F	2	V	1116	.45	.60			5
814 RAMY	20	1358	1426D	1402	S09	E58	.850	11657	24.9	28D	-F	2	C		.36				D 4
815 RAMY	20	1505	1520	1509	N11	W01	.217	11653	20.6	15	-F	2	C		.72				D 4
821 BOUL	20	2050	2115	2053	S12	E24	.438	11656	22.7	25	-F	3	V	2053	.40	.50			3
824 CRON	21	0102E	0110	0105	S15	E40	.665	11657	24.0	8D	-N	1	V	0105	.70				4
833 TEHR	21	1020	1030	1024	S12	W49	.752	11658	17.8	10	-F	3	C		.19				F 5
835 TEHR	21	1148	1204	1150	S16	E19	.400	11656	22.9	16	-N	3	C		.19				F 6
836 CATA	21	1305	1325	1305	N10	W90	1.000	11645	14.8	20	1F		C	1305	1.39			141	A 5
838 BOUL	21	1740	1840	1750	S16	E33	.581	11657	24.2	60	-F	3	V	1750	.60	.70			4
839 BOUL	21	1823	1844	1830	S16	E33	.581	11657	24.2	21	-F	3	V	1830	.40	.50			4
844 TEHR	22	0647	0658	0649	S15	E26	.483	11657	24.2	11	-N	2	C		.09				D 4
845 HTPR	22	0906	0910	0907	S16	E25	.476	11657	24.3	4	-F		C	0907	.52	.60			7
846 TEHR	22	1024	1034	1025	S14	E08	.252	11656	23.0	10	-F	3	C		.19				F 8
848 ATHN	22	1359	1409	1402	S14	E26	.477	11657	24.5	10	-F	1	C		.33				D 11
849 RAMY	22	1445	1459	1447	N12	W65	.914	11651	17.7	14	-F	2	C		.26				D 9
856 CANR	23	0845	0848		N13	W75	.970	11651	17.7	3	-N	2	V	0845	.35	.60			7
857 TEHR	23	0902	0906D	0903	N11	W72	.955	11651	18.0	4D	-N	2	C		.19				F 6

SOLAR FLARES
Unconfirmed
DECEMBER 1971

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP41858	23	0923	0937	(0925)	N14	W77	.978	11651	17.6	14	-F				.29				2 2 2 6
ATHN	23	0918	0939	0920	N15	W79	.984	11651	17.5	21	-F	2	C		.33				DH
ATHN	23	0918	0939	0929	N15	W79	.984	11651	17.5	21	-F	2	C		.33				
CANR	23	0928	0935		N13	W75	.970	11651	17.8	7	-F	3	V	0929	.25	.50			
GRP41859	23	1007	1016	1008	N13	W76	.974	11651	17.7	9	-N				.21				2 2 2 7
TEHR	23	1006	1018	1008	N11	W73	.960	11651	17.9	12	-N	2	C		.09				FH
ATHN	23	1007	1014	1008	N15	W79	.984	11651	17.5	7	-N	3	C		.33				DH
860 ATHN	23	1047	1054	1049	N15	W80	.987	11651	17.4	7	-N	3	C		.33				D 6
862 CANR	23	1232	1243		S10	E17	.321	11657	24.8	11	-N	3	V	1236	.60	.60			5
863 CANR	23	1247	1250D		N13	W78	.981	11651	17.7	3D	-N	3	V	1250	.45	.80			6
864 RAMY	23	1300E	1308	1303	N11	W82	.991	11651	17.4	8D	-N	3	C						D 5
865 HUAN	23	1317E	1320		S22	E14	.411	11657	24.6	3D	-F	1	P	1317	.21	.23			D 4
867 CANR	23	1445	1455		N13	W80	.987	11651	17.6	10	-F	3	V	1445	.30	.40			3
875 CRON	24	0046	0055	0048	S15	W10	.281	11656	23.3	9	-N	2	C	0048	.32	.32			6
877 MANI	24	0514	0521	0517	S14	W17	.352	11656	22.9	7	-F	2		0517	.21	.22			4
880 HTPR	24	1055	1102D		S15	W15	.337	11656	23.3	7D	-F		C	1102	.41	.40			E 5
890 CATA	25	1435E	1450D	1445	S23	W07	.374	11657	25.1	15D	1N		P	1445	2.26	2.46		178	5
896 CANR	26	1309	1313		N04	E45	.712	11662	29.9	4	-N	2	V	1310	.15	.40			7
897 HUAN	26	1504	1508	1505U	S15	W38	.637	11657	23.8	4	-F	1	C	1505	.25	.31			D 4
906 CANR	28	1521	1535		S16	W55	.827	11657	24.5	14	-N	3	V	1525	.20	.50			3
907 BOUL	28	1959	2009	2000	S15	W54	.816	11657	24.8	10	-F	2	V						3
910 TACH	29	0616	0625	0617	S22	W67	.925	11657	24.2	9	-N		C	0617	.73		1.84	60	D 5
911 ATHN	29	0701	0711	0704	S19	W66	.917	11657	24.3	10	-F	2	C		.33				D 5
912 ISTA	29	0730	0740		S09	E30	.508	11666	31.6	10	-N								D 5
913 ISTA	29	0750	0835		S20	W66	.918	11657	24.4	45	-N								E 6
914 ISTA	29	0830	0845		S08	E31	.520	11666	31.7	15	-N								D 6
916 ATHN	29	1058	1111	1102	S06	E26	.441	11666	31.4	13	-N	2	C		.17				D 4
922 CRON	30	0628E	0640		S08	E17	.304	11666	31.5	12D	-F	5	F		.50				4
923 ARCE	30	0925	0949D	0931	S07	E16	.284	11666	31.6	24D	-F		C	0931	.39	.40			E 6
924 ARCE	30	0931E	0931D		S14	W32	.553	11661	28.0		-F		C	0931	.19	.20			6
925 ARCE	30	0931E	0940D		S14	W60	.868	11660	25.9	9D	-F		C	0935	.08	.20			D 6
926 ARCE	30	0935	0940D	0935	S14	W43	.694	11660	27.2	5D	-F		C	0935	.27	.40			6
928 CATA	30	1255	1310	1255	S06	E08	.150	11666	31.1	15	-N		C	1255	1.16	1.17		186	5
931 CATA	31	0845	0900D	0845	S22	W90	1.000	11657	24.6	15D	1N		P	0845	.75			157	5
932 CATA	31	1055	1150	1105	S20	W90	1.000	11657	24.7	55	1F		C	1105	.58			132	5
933 CATA	31	1205	1315	1210	S20	W90	1.000	11657	24.8	70	1N		C	1210	.58			170	AT 7