

4
Oct 70

SOLAR FLARES

Confirmed

OCTOBER 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE 1970 OCT	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. %	
	01	0207	0220	NO FLARE PATROL															
GRP33757	01	0222	0246	0230	N17	E19	.362	10965	2.5	24	--N							2 2 2 3	
CRON	01	0220E	0235	0220U	N14	E17	.313	10965	2.4	15D	-N	2	C	0220	.75	.23			
CRON	01	0223	0243	0224	N22	E23	.453	10965	2.8	20	-F	2	V		.22				
PALE	01	0237E	0248	0240U	N15	E17	.319	10965	2.4	11D	-N		C		.72			DE	
															.55				
GRP33759	01	1411	1423	1414	N16	E11	.245	10965	2.4	12	--F				.29			2 2 2 6	
BOUL	01	1411	1422	1414	N15	E11	.235	10965	2.4	11	-N	2	C	1414	.22	.22			
RAMY	01	1411	1424	1413	N14	E12	.239	10965	2.5	13	-F		C		.36			DE	
RAMY	01	1424	1442	1428	N18	E10	.257	10965	2.3	18	-F		C		.31			DE	
GRP33761	01	1606	1616	1611	N22	W75	.959	10959	26.0	10	--F				.43			2 2 1 4	
BOUL	01	1605	1615	1612	N21	W75	.959	10959	26.0	10	-N	2	C	1612	.43				
LOCK	01	1606	1616	1609	N22	W75	.959	10959	26.0	10	-F		C						
GRP33766	01	2311	2321	2314	N19	W79	.976	10959	26.0	10	--F				.27			2 2 2 5	
BOUL	01	2308	2317	2314	N22	W80	.979	10959	26.0	9	-N	2	C	2314	.22				
CRON	01	2313	2324		N16	W78	.973	10959	26.1	11	-F		V		.31				
GRP33774	02	1538	1546	1540	N24	W79	.975	10959	26.7	8	-F				.41			4 4 3 5	
LOCK	02	1537	1546	1540	N23	W80	.979	10959	26.7	9	-F		C						
BOUL	02	1539	1544	1541	N23	W77	.968	10959	26.9	5	-N	2	C	1541	.32				
CAPS	02	1540E	1548D		N25	W80	.979	10959	26.7	8D	1F	2	V	1542	.58			C	
CATA	02	1540E	1545D	1540	N24	W80	.979	10959	26.7	5D	-N		C	1540	.23		155		
GRP33775	02	1717	1739	1720	N11	W83	.990	10959	26.5	22	-B				.32			2 2 1 4	
BOUL	02	1717	1740	1719	N11	W80	.981	10959	26.7	23	-B	2	C	1719	.32				
RAMY	02	1717	1737	1720	N11	W85	.994	10959	26.3	20	-N		C					DE	
777	BOUL	02	1845	1853	1847	N14	W06	.163	10965	2.3	8	--N	1	C	1847	.43	.43		2
778	BOUL	02	1913	1933	1919	S14	W32	.614	10964	30.4	20	--N	1	C	1919	.22	.28		3
779	BOUL	02	1925	1937	1931U	N13	W06	.150	10965	2.4	12	--F	1	C	1931	.32	.32		3
780	BOUL	02	2135	2153	2144	S02	W17	.327	10974	1.6	18	--N	2	C	2144	.22	.23		1
789	MANI	03	0337	0451	0358	N13	W85	.994	10959	26.8	74	-N	2		0358	.62	1.63		4
GRP33791	03	0452	0606	0504	N18	W12	.281	10965	2.3	74	--B				.61			2 2 2 3	
ABST	03	0452	0609	0504	N16	W13	.272	10965	2.2	77	-N		C	0504	.90	.90	68	D	
MANI	03	0457E	0536D		N18	W11	.269	10965	2.4	39D	-B	1		0457	.31	.32			
TACH	03	0500	0603	0520	N18	W12	.281	10965	2.3	63	-N		C	0520	.83	.85	2.89	69	
TACH	03	0500	0603	0537	N18	W12	.281	10965	2.3	63	-N						2.39	69	
GRP33792	03	0643	0728	0645	N19	W13	.304	10965	2.3	45	-B				1.01			2 2 2 7	
MANI	03	0643E	0728D		N18	W12	.281	10965	2.4	45D	-B	1		0643	1.44	1.51			
CATA	03	0645E	0655D	0645	N19	W13	.304	10965	2.3	10D	-N			0645	.58	.61	190	T	
33792	03	0656	0707	0700	N18	W12	.281	10965	2.4	11	*-B				.91			2 2 2 7	
ABST	03	0654	0710	0659	N16	W13	.272	10965	2.3	16	-N		C	0659	.90	.90	70	D	
TACH	03	0658	0708	0700	N19	W12	.293	10965	2.4	10	-N		C	0700	1.29	1.35	2.32	54	
CATA	03	0700E	0705	0700	N18	W12	.281	10965	2.4	5D	-B			0700	.52	.54	237	T	
GRP33793	03	0922	0934	0923	N17	W14	.295	10965	2.3	12	--F				.77			3 3 3 5	
HPR	03	0921	0935	0924	N17	W13	.282	10965	2.4	14	-F		C	0924	.52	.50			
ABST	03	0922	0935	0923	N17	W16	.322	10965	2.2	13	-N		C	0923	1.35	1.40	58	D	
CANR	03	0922	0932	0923	N17	W13	.282	10965	2.4	10	-F	1	C	0923	.43	.43			
GRP33795	03	1226	1248	1230	N18	W16	.331	10965	2.3	22	-N				.82			7 7 7 8	
RAMY	03	1223	1248	1230	N18	W17	.344	10965	2.2	25	-N		C		.93			DE	
CAPE	03	1225	1250	1231	N18	W16	.331	10965	2.3	25	-N		C	1231	1.27	1.40			
CATA	03	1225	1255D	1230	N18	W16	.331	10965	2.3	30D	-B			1230	.63	.68	214	T	
ABST	03	1229	1248	1230	N17	W16	.322	10965	2.3	19	-N		C	1230	1.35	1.40	55	E	
TEHR	03	1229	1244	1231	N17	W17	.335	10965	2.2	15	-N		C		.36			DE	
HPR	03	1230E	1245D		N17	W15	.308	10965	2.4	15D	-N		C	1237	.62	.60		E	
CAPS	03	1231E	1245D		N18	W15	.318	10965	2.4	14D	-N	1	V	1234	.60	.60	166		
GRP33797	03	1411	1432	1417	N18	W18	.357	10965	2.2	21	-N				.86			5 5 5 7	
CATA	03	1405	1430	1415	N18	W18	.357	10965	2.2	25	-N			1415	.98	1.06	186	T	
CAPE	03	1410	1435	1419	N18	W17	.344	10965	2.3	25	-N		C	1419	1.22	1.30			
RAMY	03	1413	1434	1416	N19	W18	.365	10965	2.2	21	-N		C		.72			U	
CANR	03	1416	1416D		N18	W17	.344	10965	2.3		-N	2	V		.70				
CAPS	03	1417E	1430D		N15	W18	.335	10965	2.2	13D	-F	1	V	1427	.70	.70	147	J	

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	DATE 1970 OCT	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
GRP33828	04	1027	1058	1030	S12	E36	.647	10971	7.1	31	--F							2 2 2 6
ABST	04	1027	1055	1030	S11	E34	.617	10971	7.0	28	-N	C	1030	1.07	1.30		52	DK
HTPR	04	1029E	1100	1030	S13	E37	.665	10971	7.2	31D	-F	C	1030	.31	.40			DJT
GRP33830	04	1054	1300	1103	N26	E25	.511	10967	6.3	126	--F			1.08				3 3 2 6
HTPR	04	1044	1300	1105	N28	E25	.529	10967	6.3	136	-F	C	1105	1.24	1.50			EGIL
TEHR	04	1058	1135	1101	N30	E25	.547	10967	6.3	37	-F	C		.91				FS
CANR	04	1100	1220		N20	E25	.465	10967	6.3	80	-N	1 V		1.30				
GRP33832	04	1216	1230	1217	N22	W31	.554	10965	2.2	14	--F			.46				2 2 2 6
CATA	04	1215	1230	1215	N22	W31	.554	10965	2.2	15	-N		1215	.53	.76		182	
TEHR	04	1216	1229	1219	N21	W31	.549	10965	2.2	13	-F	C		.28				DE
GRP33834	04	1731	1811	1737	N18	W32	.548	10965	2.3	40	1N			1.87				6 6 5 6
BOUL	04	1730	1800	1735	N17	W32	.544	10965	2.3	30	-B	3 C	1735	1.40	1.68			
RAMY	04	1730E	1733	1730	N18	W33	.561	10965	2.3	3D	1N	C		2.16				F
LOCK	04	1730	1815	1740	N17	W32	.544	10965	2.3	45	1N	C						
MCMA	04	1731	1830D	1735	N19	W32	.552	10965	2.3	59D	-N	C	1735	1.13	1.30			EW
PALE	04	1731	1817	1737	N18	W31	.534	10965	2.4	46	1B	C		2.07				F
CANR	04	1733	1754D	1742U	N18	W31	.534	10965	2.4	21D	1N	1 C	1742	2.58	3.01			
GRP33837	04	2008	2055	2014	N18	W28	.494	10965	2.7	47	-N			1.35				3 3 2 3
PALE	04	2007	2116	2011	N18	W28	.494	10965	2.7	69	-F	C		1.18				F
LOCK	04	2008	2050	2015	N18	W26	.466	10965	2.9	42	-N	C						
BOUL	04	2009	2040	2016	N17	W29	.503	10965	2.7	31	-B	2 C	2016	1.51	1.75			
GRP33839	04	2330	2349	2335	N16	W36	.594	10965	2.3	19	--N			.54				3 3 3 6
VORO	04	2327	2347	2331	N16	W36	.594	10965	2.3	20	-B	C	2331	.93	1.10		73	D
PALE	04	2331	2350	2334	N17	W35	.584	10965	2.4	19	-N	C		.27				DE
MANI	04	2331	2350	2340	N16	W37	.608	10965	2.2	19	-F	2	2340	.41	.51			
GRP33840	05	0116	0126	0118	S09	E26	.503	10971	7.0	10	-N			1.08				2 2 2 4
VORO	05	0116	0119	0117	S09	E27	.516	10971	7.1	3	-B	C	0117	1.02	1.20		96	DJ
MANI	05	0116	0132	0118	S09	E25	.490	10971	6.9	16	-F	2	0118	1.13	1.31			
GRP33844	05	0449	0519	0456	S11	E25	.507	10971	7.1	30	-N			1.52				6 5 5 6
CULG	05	0447	0529	0457	S10	E24	.486	10971	7.0	42	1B	C	0457	2.58	2.88			
TEHR	05	0449	0525	0453	S11	E24	.494	10971	7.0	36	-N	C		1.31				DEF
ABST	05	0451	0512	0455	S12	E25	.515	10971	7.1	21	-N	C	0455	1.43	1.50		61	E
MANI	05	0457E	0512D		S10	E25	.498	10971	7.1	15D	1F	1	0501	1.96	2.26			
CRON	05	0459E	0515	0459E	S12	E25	.515	10971	7.1	16D	-F	1 C	0459	.33	.38			
KODA	05	0521	0527		S13	E26	.536	10971	7.2	6	-N	P	0522	2.34	2.30			CE
GRP33846	05	0636	0716	0647	S11	E24	.494	10971	7.1	40	-F			1.19				4 4 4 8
MANI	05	0631	0658	0641	S10	E23	.473	10971	7.0	27	-F	2	0641	1.24	1.46			
TEHR	05	0639	0729	0648	S10	E25	.498	10971	7.2	50	-N	C		1.34				DEF
CRON	05	0639	0712	0645U	S12	E24	.503	10971	7.1	33	-F	1 C	0645	.33	.37			
CATA	05	0640E	0725	0655	S12	E22	.480	10971	6.9	45D	1N		0655	1.86	2.14		178	
GRP33851	05	1753	1803	1756	N16	E80	.980	10979	11.7	10	--F			.22				2 2 1 2
LOCK	05	1752	1803	1755	N15	E80	.981	10979	11.7	11	-F	C						
BOUL	05	1753	1802	1756	N17	E80	.980	10979	11.7	9	-N	2 C	1755	.22				
GRP33852	05	1807	1818	1810	S11	E15	.391	10971	6.9	11	--F			.32				2 2 1 3
BOUL	05	1807	1820	1809	S11	E15	.391	10971	6.9	13	-N	2 C	1809	.32	.32			
LOCK	05	1807	1816	1810	S11	E15	.391	10971	6.9	9	-F	C						
GRP33853	05	2035	2112	2102	N18	W50	.766	10965	2.1	37	-N			.76				3 3 2 4
LOCK	05	2035	2115	2100	N18	W50	.766	10965	2.1	40	-F	C						
PALE	05	2051E	2107	2059	N18	W50	.766	10965	2.1	16D	-N	C		1.08				F
BOUL	05	2105E	2115D	2106	N18	W51	.777	10965	2.1	10D	-N	1 C	2106	.43	.70			
854 LOCK	05	2140	2151	2144	N15	E83	.989	10979	12.1	11	--F	C						1
855 LOCK	05	2211	2220	2213	S12	E18	.435	10971	7.3	9	--F	C						3
6 STATIONS REPORTING GROUP 33856. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP33856	06	0009	0206	0046	S10	E07	.307	10971	6.5	117	2B			6.37				3 3 3 5
PALE	06	0008	0200	0045	S10	E07	.307	10971	6.5	112	2B	C		7.76				F
CULG	06	0009	0445		S10	E07	.307	10971	6.5	276	2B	P	0052	6.70	6.83			LSU
MANI	06	0010	0212	0046	S10	E06	.301	10971	6.5	122	1N	2	0046	4.64	4.80			
33856	06	0019	0213	0037	S11	E08	.329	10971	6.6	114	*1N			4.19				3 2 2 5
MITK	06	0017	0215	0035	S10	E08	.314	10971	6.6	118	2N	C	0035	5.05	5.30			F
CRON	06	0021	0210	0038	S11	E07	.322	10971	6.5	109	1N	1 C	0038	3.32	3.40			
KODA	06	0147E	0149D		S11	E08	.329	10971	6.7	2D	-N	P	0147	2.03	2.00	1.20		I

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE 1970 OCT	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. %	
GRP33857	06	0136	0153	0142	S11	E88	1.000	10982	12.7	17	-F							2 2 2 6	
CULG	06	0135	0156	0141	S12	E87	1.000	10982	12.6	21	1N	C	0141	.72				A	
MANI	06	0137	0150	0143	S09	E88	1.000	10982	12.7	13	-F	2	0143	.31	1.01				
GRP33859	06	0400	0429	0411	S13	E80	.990	10982	12.2	29	1F			.62				2 2 2 5	
CULG	06	0358	0431	0414	S13	E80	.990	10982	12.2	33	1N	C	0414	.72				D	
MITK	06	0401	0426	0408	S13	E80	.990	10982	12.2	25	1F	C	0408	.52					
GRP33860	06	0421	0431	0422	N19	W54	.808	10965	2.1	10	-N			.65				3 3 3 6	
MITK	06	0421	0431	0422	N19	W54	.808	10965	2.1	10	-N	C	0422	.93	1.60			E	
CRON	06	0421	0429	0422	N20	W54	.809	10965	2.1	8	-N	1	0422	.56	.92			F	
TEHR	06	0422	0434	0423	N18	W54	.807	10965	2.1	12	-N	C		.45					
GRP33861	06	0525	0557	0528	N17	W52	.786	10965	2.3	32	-N			.71				5 4 4 7	
MITK	06	0523	0601	0526	N17	W51	.776	10965	2.4	38	-N	C	0526	.72	1.20			E	
TEHR	06	0524	0558	0526	N17	W52	.786	10965	2.3	34	-N	C		.32				DE	
CRON	06	0525	0553	0530	N17	W51	.776	10965	2.4	28	-N	1	0530	.44	.69			E	
TACH	06	0526	0557	0530	N18	W55	.817	10965	2.1	31	1B	C	0530	1.37	2.28	1.76	100		
MANI	06	0547E	0550D		N18	W49	.756	10965	2.6	30	-N	1	0547	.52	.79				
GRP33863	06	0805	0829	0808	S10	E08	.314	10971	6.9	24	--N			.33				3 3 3 8	
CANR	06	0804	0813D	0806	S09	E09	.307	10971	7.0	9D	-N	1	0806	.21	.23			D	
BUCA	06	0805E	0835D		S10	E08	.314	10971	6.9	30D	-N	C	0810	.55	.50				
CRON	06	0806	0823	0810	S11	E07	.322	10971	6.9	17	-F	1	0810	.23	.23				
CRON	06	0829	0837	0831	S12	E10	.358	10971	7.1	8	-F	1	0831	.22	.23				
GRP33865	06	1046	1104	1052	N17	W57	.835	10965	2.2	18	1N			1.52				7 6 4 10	
CAPS	06	1032E	1105D		N18	W55	.817	10965	2.3	33D	1F	V	1057	2.00	3.40			152	
CATA	06	1040	1045D	1040	N19	W55	.818	10965	2.3	5D	-N		1040	.29	.50			190	
MONT	06	1044	1111	1053	N18	W58	.844	10965	2.1	27	1B	C	1053	3.09					
ONDR	06	1046E	1107	1050	N17	W55	.816	10965	2.3	21D	1F	V	1050			2.40		C	
CANR	06	1046	1102	1052	N17	W58	.844	10965	2.1	16	-N	1	052	.43	.79				
ZURI	06	1046	1056	1050	N17	W59	.853	10965	2.0	10	-N	C	1050	.55	1.00				
HURB	06	1051E	1101D	1053	N17	W53	.826	10965	2.3	10D	1F					1.64			
GRP33867	06	1713	1800	1719	N17	W62	.878	10965	2.1	47	--F			.41				2 2 2 2	
PALE	06	1711	1815	1720	N16	W61	.869	10965	2.1	64	-N	C		.55				D	
MCMA	06	1714	1745	1718	N17	W63	.886	10965	2.0	31	-F	C	1718	.26	.60				
GRP33868	06	1919	1940	1928	S12	E82	.994	10982	13.0	21	-B			.81				2 2 1 2	
MCMA	06	1919	1940	1923	S13	E86	.999	10982	13.3	21	-N	C	1923						
PALE	06	1930E	1937D	1932U	S11	E78	.983	10982	12.7	7D	-B	C		.81					
GRP33869	06	2025	2040	2027	N18	W63	.886	10965	2.1	15	--F			.42				2 2 2 2	
PALE	06	2019	2041	2022	N16	W63	.885	10965	2.1	22	-F	C		.52				F	
BOUL	06	2030	2038	2032	N19	W62	.878	10965	2.2	8	-F	1	2032	.22	.44				
	06	2146	2157	NO FLARE PATROL															
GRP33871	07	0009	0033	0017	N16	E68	.921	10979	12.1	24	--F			.67				2 2 2 5	
PALE	07	0003E	0040	0017	N18	E68	.921	10979	12.1	37D	-F	C		.72				DE	
MITK	07	0015	0025	0017	N13	E68	.922	10979	12.1	10	-F	C	0017	.62					
GRP33872	07	0522	0554	0525	S10	W02	.285	10971	7.1	32	--F			.24				2 2 2 5	
CRON	07	0522	0600	0525U	S10	W02	.285	10971	7.1	38	-F	1	0525	.11	.11				
TEHR	07	0522	0547	0524	S09	W01	.266	10971	7.1	25	-F	C		.36				DE	
TEHR	07	0546	0629	0600	S12	W02	.318	10971	7.1	43	-F	C		.45				DE	
GRP33875	07	0841	0900	0844	S09	W04	.274	10971	7.1	19	-N			1.09				6 6 6 10	
CRON	07	0840	0849D	0842U	S09	W05	.279	10971	7.0	9D	-F	1	0842	.77	.75				
CATA	07	0840E	0905	0845	S09	W05	.279	10971	7.0	25D	1N	C	0845	2.02	2.11			170	
TEHR	07	0841	0909	0844	S11	W04	.307	10971	7.1	28	-N	C		.55				DE	
ZURI	07	0842	0850	0845	S08	W06	.269	10971	6.9	8	-N	C	0845	.75	.80				
CAPS	07	0843E	0900D		S07	E00	.232	10971	7.4	17D	-N	V	0846	.80	.80			176	
CAPF	07	0844E	0858		S10	W04	.290	10971	7.1	14D	-F	P	0846	1.65	1.68				
GRP33876	07	0925	1000	0928	N18	E63	.886	10979	12.1	35	--B			.29				3 3 3 7	
CAPS	07	0925	1005D		N18	E64	.894	10979	12.2	40D	-B		0932	.30	.80			210	
CRON	07	0925	0939	0928	N19	E62	.879	10979	12.0	14	-B	1	0928	.22	.45				
TEHR	07	0926	1016	0928	N18	E62	.878	10979	12.0	50	-N	C		.36				DE	
GRP33878	07	1036	1106	1051	N19	W71	.940	10965	2.1	30	-N			.25				4 2 2 8	
CATA	07	1035	1100	1050	N20	W70	.934	10965	2.2	25	-B		1050	.23				219	
TEHR	07	1036	1112	1051	N18	W71	.940	10965	2.1	36	-F	C		.27				DEH	
HURB	07	1102E	1110D	1102	N20	W80	.980	10965	1.5	8D	1F								
MONT	07	1112E	1129	1118	N19	W70	.934	10965	2.2	17D	-N	C	1118	1.13		1.76			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	WER. DIST.												
GRP33960	09	1750	1814	1756	S12	E32	.598	10982	12.1	24	--N							4 4 3 4
LOCK	09	1750	1815	1758	S12	E31	.586	10982	12.1	25	-N							
BOUL	09	1750	1812	1754	S12	E31	.586	10982	12.1	22	-B	1	C	1754	.75	.91		
PALE	09	1751E	1816	1755	S12	E36	.645	10982	12.4	250	-N		V		.31			DE
MCMA	09	1754E	1812		S12	E30	.573	10982	12.0	180	-N		P	1801	.52	.60		E
961 PALE	09	2011E	2018	2015	S12	E34	.622	10982	12.4	70	--N		V		.15			2
GRP33962	09	2021	2040	2030	S14	W43	.734	10971	6.6	19	--F				.15			2 2 1 2
LOCK	09	2021	2040	2026	S11	W39	.675	10971	6.9	19	-F		C					
PALE	09	2032E	2039	2033	S17	W46	.778	10971	6.4	70	-N		V		.15			
GRP33963	09	2119	2130	2123	N15	E22	.395	10979	11.5	11	--F				.31			2 2 1 2
LOCK	09	2119	2131	2123	N14	E21	.375	10979	11.5	12	-F		C					
PALE	09	2122E	2129	2123	N13	E22	.386	10979	11.5	70	-N		V		.31			F
PALE	09	2131	2138	2133	N17	E24	.435	10979	11.7	7	-N		V		.21			F
GRP33964	09	2202	2227	2207	S13	W39	.686	10971	7.0	25	--N				.31			2 2 1 2
LOCK	09	2202	2230	2206	S14	W38	.680	10971	7.1	28	-N		C					
PALE	09	2205E	2223	2208	S12	W39	.680	10971	7.0	180	-N		V		.31			DE
965 PALE	09	2205E	2214	2208	S12	E34	.622	10982	12.5	90	--F		V		.15			2
966 CRON	10	0155	0207	0156	S11	E48	.775	10982	13.7	12	--F	2	C	0155	.22	.34		3
GRP33967	10	0243	0302	0248	S12	W40	.692	10971	7.1	19	--F				.21			2 2 2 4
PALE	10	0240E	0246	0245U	S13	W38	.674	10971	7.3	60	-N		C		.19			
CRON	10	0245	03180	0251	S11	W41	.698	10971	7.0	330	-F	1	C	0251	.22	.30		
GRP33968	10	0300	0328	0303	S12	W44	.736	10971	6.8	28	--N				.37			2 2 2 4
TEHR	10	0300	0328	0302	S12	W48	.778	10971	6.5	28	-N		C		.28			DE
PALE	10	0303E	03250	0303E	S12	W39	.680	10971	7.2	220	-N		V		.46			DE
GRP33970	10	0332	0415	0335	S14	W49	.795	10971	6.5	43	--N				.28			2 1 1 2
TEHR	10	0332	0415	0335	S14	W49	.795	10971	6.5	43	-N		C		.28			DE
CRON	10	0404E	0420U	0410U	S11	W40	.687	10971	7.2	160	-F	1	C	0410	.22	.29		
971 CRON	10	0347	0402		S12	E25	.512	10982	12.0	15	--F	2	V		.83			2
972 TEHR	10	0528	0552	0529	S12	E28	.549	10982	12.3	24	--N		C		.28			DE 1
GRP33974	10	0759	0833	0803	S11	W43	.721	10971	7.1	34	-N				.69			3 2 2 8
CAPE	10	0758	0825	0801	S11	W43	.721	10971	7.1	27	-N		C	0801	1.03	1.50		
CATA	10	0800	08150	0805	S10	W43	.717	10971	7.1	150	-N		C	0805	.34	.50	199	
MONT	10	0808E	0833	0818	S11	W43	.721	10971	7.1	250	-N		C	0818	.52			
GRP33977	10	1340	1347	1341	S10	W46	.750	10971	7.1	7	-N				.63			4 4 4 9
MONT	10	1339	1344	1342	S11	W47	.764	10971	7.0	5	-N		C	1342	.77			
CATA	10	1340	1350D	1340	S09	W47	.758	10971	7.0	100	-B		C	1340	.29	.45	209	
CAPE	10	1340	1348	1342	S10	W47	.761	10971	7.0	8	-N		C	1342	1.03	1.70		
RAMY	10	1340	1346	1341	S08	W43	.709	10971	7.3	6	-F		V		.41			DE
GRP33981	10	1736	1742	1738	N18	E09	.254	10979	11.4	6	--N				.39			3 3 2 4
LOCK	10	1736	1744	1738	N18	E09	.254	10979	11.4	8	-N		C					
RAMY	10	1736	1737	1737	N18	E09	.254	10979	11.4	1	-N		C		.46			DE
MCMA	10	1737	1744	1739	N18	E09	.254	10979	11.4	7	-N		C	1739	.31	.30		DH
GRP33982	10	1837	1848	1840	N18	E09	.254	10979	11.5	11	--F				.33			4 4 3 4
LOCK	10	1836	1849	1841	N18	E09	.254	10979	11.4	13	-F		C					
RAMY	10	1837	1841	1839	N18	E09	.254	10979	11.5	4	-N		C		.46			DE
MCMA	10	1837	1844	1839	N18	E09	.254	10979	11.5	7	-N		C	1839	.31	.30		DL
PALE	10	1837	1859	1840	N18	E07	.235	10979	11.3	22	-F		C		.23			F
GRP33983	10	1844	1900	1852	N18	E08	.244	10979	11.4	16	--F				.27			2 2 2 3
PALE	10	1837	1859	1852	N18	E07	.235	10979	11.3	22	-F				.23			
MCMA	10	1850	1900	1851	N18	E09	.254	10979	11.5	10	-N		C	1851	.31	.30		D
984 LOCK	10	1858	1907	1901	S11	E17	.409	10982	12.1	9	--F		C					3
GRP33985	10	1906	1917	1908	N18	E09	.254	10979	11.5	11	--N				.44			3 3 2 3
MCMA	10	1906	1920	1907	N18	E10	.264	10979	11.5	14	-N		C	1907	.52	.50		EH
LOCK	10	1906	1915	1908	N18	E09	.254	10979	11.5	9	-F		C					
PALE	10	1906	1917	1909	N18	E09	.254	10979	11.5	11	-N		C		.36			F
GRP33987	10	2000	2021	2004	S10	W50	.792	10971	7.1	21	--F				.59			4 4 3 4
PALE	10	2000	2026D	2005U	S09	W49	.779	10971	7.2	26D	-N		C		.59			F
LOCK	10	2000	2020	2003	S11	W50	.795	10971	7.1	20	-F		C					
RAMY	10	2000	2019	2003	S08	W51	.797	10971	7.0	19	-N		C		.77			DE
MCMA	10	2001	2020D	2003	S11	W50	.795	10971	7.1	19D	-F		C	2003	.41	.70		E

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS			
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY				MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg		MAX. INT. %		
989 RAMY	10	2108	2117	2110	N18	E08	.244	10979	11.5	9	--N	C		.21				DE	3		
GRP33990	10	2118	2134	2121	S13	E26	.533	10982	12.8	16	--N	C		.47				3	3	2	3
LOCK	10	2117	2135	2122	S13	E26	.533	10982	12.8	18	-N	C									
MCMA	10	2118	2128	2120	S13	E26	.533	10982	12.8	100	-N	C	2120	.52	.60			E			
RAMY	10	2118	2133	2121	S12	E25	.512	10982	12.8	15	-N	C		.41				DE			
	11	0010	0142	NO FLARE PATROL																	
991 CRON	11	0154	0200	0155	N17	E12	.275	10979	12.0	6	--N	2 C	0155	.11	.11						2
GRP33992	11	0220	0256	0225	S14	E11	.390	10982	11.9	36	-N	C		1.78				3	3	3	3
MANI	11	0219E	0235D	0222	S12	E09	.346	10982	11.8	16D	1N	1 C	0222	2.37	2.53						
CRON	11	0220	0250	0228U	S15	E11	.404	10982	11.9	30	-N	1 C	0228	.89	.94						
KODA	11	0223E	0302		S14	E12	.398	10982	12.0	39D	-N	P	0223	2.09	2.10			I			
993 TEHR	11	0407	0450	0409	S13	E23	.497	10982	12.9	43	--F	C		.45				DE			4
GRP33996	11	0623	0642	0629	S12	W56	.853	10971	7.1	19	-N	C		.91				4	4	4	5
TEHR	11	0620	0649	0628	S12	W56	.853	10971	7.1	29	-N	C		.55				FDE			
CAPE	11	0624	0640	0630	S12	W56	.853	10971	7.1	16	1N	1 C	0630	1.25	2.40						
CRON	11	0624	0637	0629	S11	W55	.842	10971	7.1	13	-F	1 C	0629	.56	.99						
TACH	11	0625	0635	0630	S12	W58	.870	10971	6.9	10	1N	1 C	0630	1.28	2.49	1.84		D			
ABST	11	0628E	0636D	0630	S15	W55	.852	10971	7.1	8D	-N	P	0630	.90	1.70			D			46
GRP33997	11	0908	0941	0915	N19	E02	.225	10979	11.5	33	-N	C		1.88				8	8	8	12
MONT	11	0902	1033	0918	N18	E02	.208	10979	11.5	91	1B	1 C	0918	3.61							
CANR	11	0904	0940	0913	N18	E02	.208	10979	11.5	36	-N	1 C	0913	1.08	1.08						
TEHR	11	0906	0950	0915	N18	E02	.208	10979	11.5	44	-N	C		1.33				FDE			
ZURI	11	0908	0942	0915	N18	E01	.206	10979	11.5	34	-N	C	0915	1.68	1.70						
CRON	11	0908	0930	0913	N18	E02	.208	10979	11.5	22	-N	1 C	0913	.89	.86						
UCCL	11	0909	0951	0916	N22	E00	.273	10979	11.4	42	1N	1 C	0916	4.13	4.40			EHI			
CATA	11	0910	0950	0915	N19	E03	.228	10979	11.6	40	-B	C	0915	1.27	1.31						224
ABST	11	0913	0925	0914	N20	E04	.248	10979	11.7	12	-N	C	0914	1.07	1.10			E			50
7 STATIONS REPORTING GROUP 33999. 1 STATIONS OBSERVING AND NOT REPORTING.																					
GRP33999	11	1119	1144	1122	N18	W01	.206	10979	11.4	25	-N	C		1.33				5	5	5	7
RAMY	11	1118	1147	1121	N18	W01	.206	10979	11.4	29	-N	C		1.65				F			
TEHR	11	1119	1143	1121	N18	E00	.205	10979	11.5	24	-N	C		1.00				F			
ABST	11	1120	1140	1120	N17	W01	.189	10979	11.4	20	-N	C	1122	1.07	1.10			D			63
CAPE	11	1120	1145	1123	N18	W01	.206	10979	11.4	25	-N	C	1123	1.53	1.60						
CATA	11	1120	1145	1125	N19	E00	.222	10979	11.5	25	-N	C	1125	1.39	1.43						155
33999	11	1127	1142	(1138)	N17	E04	.200	10979	11.8	15	*-B	C		1.50				3	2	2	8
CANR	11	1127	1134		N17	E06	.213	10979	11.9	7	-N	2 V		1.10							
CAPS	11	1135E	1150D		N17	E02	.191	10979	11.6	15D	-B	V	1138	1.90	1.90			F			210
TEHR	11	1148	1205	1151	N20	W03	.244	10979	11.3	17	-N	C		.36				DE			
GRP34000	11	1338	1354	1340	N18	E02	.208	10979	11.7	16	--F	C		.47				2	2	2	7
RAMY	11	1336	1352	1339	N17	E01	.189	10979	11.6	16	-F	C		.52				DE			
MCMA	11	1339	1355	1340	N18	E02	.208	10979	11.7	16	-F	C	1340	.41	.40			E			
002 MCMA	11	1500	1510	1504	N18	E02	.208	10979	11.8	10	--F	C	1504	.41	.40			E			4
GRP34003	11	1507	1529	1513	S12	E09	.346	10982	12.3	22	-N	C		.98				3	3	3	4
MCMA	11	1500	1533	1512	S13	E07	.348	10982	12.1	33	-N	C	1512	.41	.40			EH			
CAPS	11	1510E	1530D		S11	E11	.348	10982	12.5	20D	-B	3 V	1515	1.50	1.50						220
CAPE	11	1510	1525	1513	S13	E09	.361	10982	12.3	15	-N	C	1513	1.03	1.10			H			
004 BOUL	11	1633	1645	1637	S09	W51	.799	10971	7.9	12	--F	1 C	1637	.22	.37						3
GRP34006	11	1730	1756	1745	N18	W02	.208	10979	11.6	26	--F	1 C		.47				2	2	2	4
BOUL	11	1725	1756	1746U	N18	W02	.208	10979	11.6	31	-F	1 C	1746	.22	.22						
RAMY	11	1735	1755	1744	N18	W01	.206	10979	11.7	20	-F	C		.72				DE			
GRP34007	11	1903	1917	1906	S15	E03	.365	10982	12.0	14	--F	C		.56				3	3	3	5
PALE	11	1902	1926	1906	S14	E03	.348	10982	12.0	24	-N	C		.63				F			
RAMY	11	1903	1916	1906	S16	E02	.379	10982	11.9	13	-F	C		.83				DE			
BOUL	11	1903	1910	1905U	S16	E04	.383	10982	12.1	7	-F	1 C	1905	.22	.24						
GRP34008	11	1913	1924	1915	N04	E61	.873	10987	16.4	11	--N	C		.47				3	3	3	5
BOUL	11	1913	1918	1914	N04	E61	.873	10987	16.4	5	-F	2 C	1914	.22	.42						
RAMY	11	1913	1927	1915	N02	E62	.883	10987	16.5	14	-N	C		.83				DE			
PALE	11	1913	1926	1916	N05	E60	.863	10987	16.3	13	-N	C		.36				F			
GRP34010	11	2001	2024	2005	N14	E03	.146	10979	12.1	23	--N	C		.26				2	2	2	5
PALE	11	2001	2021	2005	N09	E02	.060	10979	12.0	20	-N	C		.19				DE			
BOUL	11	2001	2027	2005	N18	E03	.211	10979	12.1	26	-N	2 C	2005	.32	.32						

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OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS				REMARKS		
	DATE 1970 OCT	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.													
	12	0153	0205	NO FLARE PATROL															
GRP34013	12	0332	0402	0337	S13	E10	.367	10982	12.9	30	--F							2 2 2 3	
TEHR	12	0331	0402	0333	S13	E09	.360	10982	12.8	31	-F	C						DE	
PALE	12	0332	04010	0340	S13	E10	.367	10982	12.9	290	-N	C						F	
014 TEHR	12	0418	0445	0421	S13	W01	.328	10982	12.1	27	--N	C						FDE 1	
GRP34023	12	1621	1647	1628	N18	W16	.336	10979	11.5	26	--F							2 2 2 4	
RAMY	12	1620	1650	1630	N19	W17	.358	10979	11.4	30	-F	C						F	
BOUL	12	1622	1644	1626	N16	W14	.291	10979	11.6	22	-F	2 C	1626	.32	.32				
024 LOCK	12	1825	1846	1836	S09	W81	.991	10971	6.7	21	--F	C						3	
GRP34025	12	1827	1842	1831	N05	E49	.752	10987	16.4	15	--F							2 2 2 3	
BOUL	12	1827	1845	1831U	N03	E50	.765	10987	16.5	18	-F	1 C	1831	.26	.50				
PALE	12	1827	1839	1830	N07	E48	.739	10987	16.4	12	-N	C						DE	
GRP34026	12	1910	1921	1914	S12	W77	.980	10971	7.0	11	--F							3 3 2 4	
RAMY	12	1908	1920	1915	S10	W80	.988	10971	6.8	12	-F	C						DE	
PALE	12	1912	1922	1914	S15	W75	.975	10971	7.2	10	-N	C						DE	
BOUL	12	1913U	1919U	1913U	S11	W77	.980	10971	7.0	60	-F	1 C	1913	.17					
GRP34027	12	1919	1936	1922	N07	E48	.739	10987	16.4	17	--F							2 2 2 4	
RAMY	12	1919	1939	1922	N05	E48	.740	10987	16.4	20	-F	C						DE	
PALE	12	1919	1933	1922	N08	E48	.739	10987	16.4	14	-N	C						DE	
GRP34028	12	2121	2134	2123	N07	E47	.728	10987	16.4	13	--B							2 2 2 4	
PALE	12	2118E	2124D	2119	N08	E47	.727	10987	16.4	60	-B	C						DE	
RAMY	12	2124	2134	2126	N05	E47	.729	10987	16.4	10	-N	C						DE	
GRP34031	13	0036	0047	(0040)	S07	W83	.994	10971	6.8	11	-B							2 2 2 3	
VORO	13	0036E	0046D		S02	W85	.997	10971	6.6	100	-B	C	0040	.30	1.90		73	DJ	
CRON	13	0041	0048		S11	W80	.989	10971	7.0	7	-N	2 V		.28					
033 VORO	13	0055	0101	0057	N06	E46	.716	10987	16.5	6	-B	C	0057	.74	1.00		75	EJ 2	
GRP34035	13	0403	0435	0406	S12	W16	.407	10982	12.0	32	--B							2 2 2 3	
TEHR	13	0402	0437	0406	S12	W15	.397	10982	12.0	35	-B	C		.35				FDE	
CRON	13	0403	0432	0405	S12	W17	.418	10982	11.9	29	-N	1 C	0405	.36	.32				
34039	13	1224	1409	1342	N03	E38	.616	10987	16.4	105	--N			.77				3 1 1 11	
MONT	13	1224	1409	1342	N03	E38	.616	10987	16.4	105	-N	C	1342	.77					
RAMY	13	1309	1315	1309	N07	E39	.626	10987	16.5	6	-F	C		.41				DE	
CANR	13	1402	1407	1403	N08	E48	.739	10987	17.2	5	-N	1 C	1403	.11	.16				
GRP34041	13	1646	1730	1651	N09	E48	.739	10987	17.3	44	--F	1 C	1651	1.27				2 2 2 3	
CANR	13	1646	1701	1651U	N09	E48	.739	10987	17.3	15	-F	1 C	1648	.43	.64			E	
SANM	13	1646E	1758		N09	E47	.727	10987	17.2	72D	1F	1 P		2.10	3.08				
4 STATIONS REPORTING GROUP 34042. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34042	13	1650	1820	1657	S15	W10	.395	10982	13.0	90	-F			1.85				2 2 2 3	
CANR	13	1615U	1744D	1658	S15	W12	.409	10982	12.8	89D	1F	1 C	1658	2.79	3.11				
PALE	13	1650	1820	1655	S15	W08	.382	10982	13.1	90	-N	V		.91				F	
34042	13	1646	1850	1750	S13	W15	.409	10982	12.6	124	*2N			8.09				2 1 1 3	
SANM	13	1646E	1850D		S13	W15	.409	10982	12.6	124D	2N	1 P	1709	8.09	8.77				
LOCK	13	1750E	1920	1750E	S15	W07	.377	10982	13.2	90D	1F	C						B	
GRP34043	13	1755	2000	1759	N04	E35	.572	10987	16.4	125	--F			.98				3 3 2 3	
SANM	13	1659E	1959		N04	E34	.558	10987	16.3	180D	-F	1 P	1801	1.56	1.88			E	
LOCK	13	1752	1810	1758	N04	E36	.587	10987	16.4	18	-F	C							
PALE	13	1758	1813	1759	N05	E34	.557	10987	16.3	15	-F	V		.40				F	
LOCK	13	1937	2000	1945	N04	E36	.587	10987	16.5	23	-F	C							
GRP34044	13	1903	1931	1907	N05	E35	.571	10987	16.4	28	--F			.23				2 2 1 3	
LOCK	13	1901	1925	1908	N04	E36	.587	10987	16.5	24	-F	C							
PALE	13	1904	1936	1905	N05	E33	.543	10987	16.3	32	-F	V		.23				F	
046 RAMY	13	2153	2157	2156	S16	E49	.801	10989	17.6	4	--F	C		.62				DE 3	
GRP34047	13	2232	2256	2241	N05	E34	.557	10987	16.5	24	--F			.50				2 2 1 4	
LOCK	13	2230	2255	2240	N04	E36	.587	10987	16.6	25	-F	C							
PALE	13	2233	2256	2242	N05	E32	.528	10987	16.3	23	-N	V		.50				F	
	13	2400	0009	NO FLARE PATROL															
049 PALE	14	0034	0052	0039	S12	W47	.767	10981	10.5	18	--F	C		.27				F 1	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS			
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %				
					LAT.	MER. DIST.															
050 PALE	14	0121	0135	0123	N18	W28	.498	10979	12.0	14	--N	C		.45				F	1		
051 PALE	14	0307E	0321	0309	N11	E42	.667	10987	17.3	140	--F	C		.72				F	3		
052 PALE	14	0318	0324D	0322	N07	E30	.497	10987	16.4	60	--F	C		.45				F	3		
GRP34053	14	0606	0617	0607	N05	E29	.483	10987	16.4	11	1N	C	0607	2.50				2	2	2	2
CRIM	14	0606	0617D	0607	N05	E29	.483	10987	16.4	11D	1N	C	0607	1.80	2.06			E			
TACH	14	0606	0617	0607	N05	E28	.468	10987	16.4	11	1N	C	0607	3.19	3.60	2.16	76	EV			
GRP34054	14	0634	0642	0635	N18	W31	.538	10979	11.9	8	--F	C		.52				2	2	2	4
HTPR	14	0633E	0639		N17	W31	.534	10979	11.9	6D	-F	C	0633	.41	.50			B			
CATA	14	0635	0645	0635	N19	W31	.543	10979	11.9	10	-N	C	0635	.63	.81		199				
GRP34055	14	0708	0731	0717	N10	E38	.613	10987	17.1	23	--N	C		.30				2	2	2	5
HTPR	14	0708	0727	0713	N10	E38	.613	10987	17.1	19	-N	C	0713	.31	.40						
CATA	14	0710E	0735D	0720	N10	E37	.600	10987	17.1	25D	-N	C	0720	.29	.37		188				
GRP34064	14	1214	1234	1217	N09	E33	.542	10987	17.0	20	--N	C		.78				2	2	2	5
HTPR	14	1214	1232	1216	N10	E35	.572	10987	17.1	18	-N	C	1216	.72	.80			E			
RAMY	14	1214	1236	1218	N11	E37	.601	10987	17.3	22	-N	C		.83				DE			
RAMY	14	1230	1251	1234	N06	E26	.436	10987	16.5	21	-F	C		.72				DE			
GRP34066	14	1335	1413	1336	N06	E24	.405	10987	16.4	38	-N	C		1.44				5	4	4	6
CANR	14	1332	1410	1336	N08	E23	.389	10987	16.3	38	-N	1 C	1336	1.08	1.16			DE			
RAMY	14	1333	1408D	1336	N05	E25	.421	10987	16.4	35D	-N	C		1.34							
MONT	14	1333	1436	1426	N05	E25	.421	10987	16.4	63	18	C	1426	4.13							
CAPS	14	1334E	1416D		N05	E25	.421	10987	16.4	42D	1N	3 V	1335	2.50	3.00		196	BE			
HTPR	14	1340	1340D		N05	E23	.389	10987	16.3		-N	C	1340	.83	.90						
GRP34068	14	1439	1513	1448	N11	E35	.573	10987	17.2	34	-N	C		1.84				4	4	4	4
MONT	14	1419	1444D	1444	N10	E35	.572	10987	17.2	25D	18	1 C	1444	3.09							
CANR	14	1436	1445D	1444	N11	E33	.545	10987	17.1	90	-N	1 C	1444	1.28	1.54						
HTPR	14	1442	1457	1450	N10	E35	.572	10987	17.2	15	18	C	1450	1.86	2.20						
RAMY	14	1452E	1528	1452E	N12	E35	.574	10987	17.2	36D	-F	C		1.13				DE			
GRP34069	14	1552	1609	1555	N11	E35	.573	10987	17.3	17	-N	C		.94				3	3	3	3
RAMY	14	1551	1616	1555	N12	E35	.574	10987	17.3	25	-N	C		.72				DE			
CANR	14	1552	1607	1555	N12	E35	.574	10987	17.3	15	-N	1 C	1555	.75	.92						
HTPR	14	1555E	1604		N10	E35	.572	10987	17.3	9D	-B	C	1555	1.34	1.60						
GRP34070	14	1703	1727	1708	N11	E33	.545	10987	17.2	24	--N	C		.76				2	2	2	3
PALE	14	1702	1726	1708	N11	E33	.545	10987	17.2	24	-N	C		.68				DE			
RAMY	14	1704	1727	1708	N11	E32	.530	10987	17.1	23	-N	C		.83				DE			
GRP34071	14	1801	1820	1803	N11	E33	.545	10987	17.2	19	--F	C		.37				2	2	2	2
RAMY	14	1801	1822	1803	N11	E32	.530	10987	17.2	21	-F	C		.52				DE			
PALE	14	1801	1817	1803	N11	E34	.559	10987	17.3	16	-F	C		.22				F			
GRP34072	14	1836	1844	1838	N06	E22	.373	10987	16.4	8	--F	C		.47				2	2	2	3
RAMY	14	1835	1844	1838	N06	E21	.356	10987	16.3	9	-F	C		.62				DE			
PALE	14	1836	1844	1837	N05	E22	.373	10987	16.4	8	-N	C		.32				F			
073 LOCK	14	1920	1937	1927	N11	E33	.545	10987	17.3	17	--F	C									3
GRP34074	14	1959	2019	2002	N12	E31	.518	10987	17.2	20	--N	C		.55				2	2	1	2
LOCK	14	1958	2015	2002	N12	E30	.503	10987	17.1	17	-N	C						DE			
PALE	14	1959	2023	2001	N11	E31	.516	10987	17.2	24	-N	C		.55							
GRP34075	14	2037	2143	2053	N17	W33	.561	10979	12.4	66	-F	C		.28				3	2	1	3
PALE	14	2036	2145	2051	N16	W32	.543	10979	12.5	69	-N	C		.28				SH			
LOCK	14	2037	2140	2055	N17	W33	.561	10979	12.4	63	1F	C						S			
RAMY	14	2129E	2143D	2129E	N17	W30	.520	10979	12.6	14D	1F	C		2.27				F			
076 LOCK	14	2246	2258	2249	N09	E29	.483	10987	17.1	12	--F	C									2
GRP34077	14	2303	2313	2307	N06	E21	.356	10987	16.5	10	--N	C		.48				4	4	3	5
PALE	14	2303E	2309D	2308U	N06	E20	.340	10987	16.5	6D	-N	C		.40				DE			
CRON	14	2303	2312		N05	E20	.341	10987	16.5	9	-N	V		.41							
LOCK	14	2303	2314	2306	N05	E19	.325	10987	16.4	11	-F	C									
MITK	14	2308E	2312		N04	E20	.342	10987	16.5	4D	-N	C	2308	.62	.70			E			
LOCK	14	2308	2320D	2313	N10	E29	.485	10987	17.1	12D	-F	C									
GRP34078	14	2318	2347	2328	N11	E31	.516	10987	17.3	29	--N	C		.79				3	3	3	4
MITK	14	2312	2347	2326	N11	E31	.516	10987	17.3	35	-F	1 C	2326	.72	.80						
CRON	14	2321	2333D	2329U	N10	E29	.485	10987	17.1	12D	-N	1 C	2329	.56	.62						
PALE	14	2321E	2339D	2329U	N12	E32	.532	10987	17.4	18D	-N	C		1.08				DE			

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970 OCT	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 Ha
GRP34079	15	0023	0027	0024	N06	E21	.357	10987	16.6	4	--F						2 2 2 4
CRON	15	0023	0027		N05	E20	.341	10987	16.5	4	-N	V					
PALE	15	0024E	0025D	0024E	N06	E22	.373	10987	16.7	10	-F	C					F
GRP34080	15	0046	0052	0049	N10	E28	.470	10987	17.1	6	-N						3 3 3 5
MITK	15	0044	0056	0048	N11	E29	.487	10987	17.2	12	-N	C	0048	1.34	1.50		E
PALE	15	0045E	0050D	0050D	N12	E29	.489	10987	17.2	5D	-F	C					F
CRON	15	0048	0049		N08	E27	.452	10987	17.1	1	-N	V					
GRP34081	15	0048	0105	0054	N06	E19	.324	10987	16.5	17	--F						2 2 2 4
PALE	15	0045E	0050D	0050D	N06	E18	.307	10987	16.4	50	-N	C					F
MITK	15	0050	0105	0058	N06	E19	.324	10987	16.5	15	-F	C	0058	.52	.50		E
GRP34082	15	0207	0255	0231	S13	E34	.625	10989	17.6	48	-N						4 4 4 5
CULG	15	0207	0255	0227	S12	E33	.607	10989	17.6	48	1N	C	0227	.93	2.37		
MITK	15	0231	0240D	0232	S13	E35	.637	10989	17.7	9D	-N	C	0232	1.13	1.50		
CRON	15	0232E	0240D	0232E	S13	E34	.625	10989	17.7	8D	-N	1 C	0232	.89	1.10		DE
PALE	15	0233E	0240D	0234U	S12	E34	.619	10989	17.7	7D	-N	C					
GRP34084	15	0259	0326	0304	N11	E29	.487	10987	17.3	27	-B						6 5 5 7
VORO	15	0256	0315	0303	N12	E29	.489	10987	17.3	19	-B	C	0303	1.02	1.10		83
CRON	15	0259	0339U	0303	N11	E29	.487	10987	17.3	40D	-N	1 C	0303	.89	.98		EJ
MITK	15	0300	0323D	0305	N12	E29	.489	10987	17.3	23D	-B	C	0305	1.13	1.30		
TEHR	15	0302	0333	0303	N12	E28	.474	10987	17.2	31	-B	C					F
MANI	15	0304E	0322D		N09	E29	.484	10987	17.3	18D	-B	1 C	0306	1.65	1.89		
PALE	15	0331E	0334D	0331E	N11	E30	.501	10987	17.4	3D	-F	C					F
GRP34085	15	0345	0404	0349	N10	E26	.439	10987	17.1	19	--N						4 4 4 5
VORO	15	0344	0358	0347	N11	E25	.426	10987	17.0	14	-B	C	0347	.46	.50		77
CRON	15	0344	0401	0346	N09	E26	.438	10987	17.1	17	-N	1 C	0346	.56	.60		E
TEHR	15	0344	0416	0346	N11	E26	.442	10987	17.1	32	-N	C					DE
MITK	15	0346	0401D	0355	N10	E26	.439	10987	17.1	15D	-F	C	0355	1.24	1.40		E
GRP34086	15	0419	0455	0431	S12	E32	.595	10989	17.6	36	-B						4 4 4 4
CULG	15	0412	0538	0427	S12	E32	.595	10989	17.6	86	1N	C	0427	4.02	4.87		L
TEHR	15	0419	0502	0434	S12	E32	.595	10989	17.6	43	-B	C					UF
MITK	15	0422	0456D		S12	E31	.583	10989	17.5	34D	1B	C	0440	3.82	4.70		LUW
MITK	15	0422	0456D		S12	E31	.583	10989	17.5	34D	1B	C	0427	2.68	3.30		FHK
CRON	15	0423	0448	0433	S13	E34	.625	10989	17.7	25	-N	1 C	0433	1.23	1.54		
GRP34087	15	0425	0439	0429	N11	E28	.472	10987	17.3	14	--F						3 3 3 4
MITK	15	0422	0433D	0429	N11	E28	.472	10987	17.3	11D	-F	C	0429	.93	1.10		
CRON	15	0427	0438	0429	N10	E27	.455	10987	17.2	11	-F	1 C	0429	.33	.36		
TEHR	15	0427	0440	0429	N11	E28	.472	10987	17.3	13	-F	C					DE
GRP34088	15	0501	0537	0506	N12	E28	.474	10987	17.3	36	--F						2 2 2 3
TEHR	15	0459	0537	0507	N12	E27	.459	10987	17.2	38	-F	C					DE
CRON	15	0503	0512D	0505	N11	E29	.487	10987	17.4	9D	-N	1 C	0505	.56	.61		
089 TEHR	15	0530	0634	0552	N12	E09	.187	10987	15.9	64	--F	C					F
GRP34090	15	0625	0634	0627	N11	E27	.457	10987	17.3	9	--F						3 3 3 4
CRON	15	0625	0635	0627	N10	E28	.470	10987	17.4	10	-F	1 C	0627	.72	.37		
TACH	15	0625	0632	0626	N11	E28	.472	10987	17.4	7	-N	C	0626	1.28	1.43	1.97	60
TEHR	15	0625	0635	0627	N11	E25	.426	10987	17.1	10	-F	C					DE
GRP34092	15	0736	0744	0737	N06	E18	.307	10987	16.7	8	--F						3 2 2 6
TEHR	15	0734	0746	0738	N08	E28	.467	10987	17.4	12	-F	C					DE
HTPR	15	0735	0742	0736	N05	E18	.308	10987	16.7	7	-F	C	0736	.41	.40		E
CRON	15	0736	0746	0737	N07	E18	.308	10987	16.7	10	-F	1 C	0737	.33	.34		
GRP34093	15	0817	0831	0819	N11	E26	.442	10987	17.3	14	--F						4 4 4 7
CAPE	15	0815	0835	0819	N11	E26	.442	10987	17.3	20	-N	C	0819	1.17	1.30		
CRON	15	0817	0832	0819	N11	E26	.442	10987	17.3	15	-F	1 C	0819	.22	.24		
TEHR	15	0817	0836	0819	N11	E25	.426	10987	17.2	19	-F	C					DE
HTPR	15	0818	0821	0819	N10	E26	.439	10987	17.3	3	-F	C	0819	.52	.50		
GRP34096	15	1002	1031	1007	N10	E25	.424	10987	17.3	29	-N						3 3 3 5
TEHR	15	1000	1045	1006	N11	E23	.396	10987	17.1	45	-N	C					DEH
UCCL	15	1002	1040	1007	N09	E28	.468	10987	17.5	38	1N	C	1007	2.06	2.50		EI
CRON	15	1003	1008		N11	E25	.426	10987	17.3	5	-N	V					
GRP34097	15	1042	1110	1042	N05	E16	.275	10987	16.6	28	--F						2 2 2 4
TEHR	15	1041	1112	1042	N05	E16	.275	10987	16.6	31	-F	C					DE
UCCL	15	1042	1107	1042	N05	E16	.275	10987	16.6	25	-F	C	1042	.52	.60		HI

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g		MAX. INT. %
GRP34117	16	0243	0258	0249	N10	E13	.234	10987	17.1	15	--N							4 3 3 6
CRON	16	0243	0257	0247	N09	E13	.230	10987	17.1	14	-N	1	C	0247	.33	.32		
MITK	16	0250E	0255	0251	N10	E13	.234	10987	17.1	5D	-N		C	0251	.52	.50		D
PALE	16	0250E	0301	0250	N10	E13	.234	10987	17.1	11D	-N		C		.40			DE
TEHR	16	0255	0325	0302	N09	E12	.213	10987	17.0	3D	-N		C		.36			DE
GRP34119	16	0329	0348	0331	N10	E13	.234	10987	17.1	19	--N				.64			2 2 2 4
MANI	16	0329	0348	0331	N10	E12	.218	10987	17.0	19	-N	3		0331	.83	.85		
TEHR	16	0329	0347	0331	N10	E13	.234	10987	17.1	18	-N		C		.45			DE
GRP34120	16	0507	0552	0528	S13	E18	.438	10989	17.6	45	-N				1.74			3 3 3 3
TEHR	16	0501	0554	0525	S13	E18	.438	10989	17.6	53	-N		C		1.31			F
CULG	16	0507	0534D	0531	S12	E17	.416	10989	17.5	27D	1N		P	0531	2.48	2.64		
CRON	16	0512	0550		S14	E19	.459	10989	17.6	38	-F		V		1.44			
GRP34124	16	1000	1012	1002	N12	E07	.161	10987	16.9	12	--F				.29			3 3 3 8
TEHR	16	0958	1016	1001	N12	E06	.149	10987	16.9	18	-N		C		.36			DE
MEUD	16	1001	1010	1001	N10	E07	.141	10987	16.9	9	-F		C	1001	.31	.30		E
HTPR	16	1002	1010	1003	N13	E07	.173	10987	16.9	8	-F		C	1003	.21	.20		
GRP34127	16	1234	1303	1240	S13	W62	.902	10982	11.9	29	-N				.79			6 6 6 8
MEUD	16	1233	1255	1240	S13	W62	.902	10982	11.9	22	-N		C	1240	.41	.90		E
TEHR	16	1233	1308	1238	S13	W63	.909	10982	11.8	35	-B		C		.64			FS
MCMA	16	1234E	1247D		S14	W63	.910	10982	11.8	13D	-N		P	1239	.52	1.20		E
HTPR	16	1234	1252	1240	S14	W60	.889	10982	12.0	18	-F		C	1240	.52	1.00		E
RAMY	16	1235	1308	1239	S12	W62	.900	10982	11.9	33	1N		C		1.29			DE
CAPE	16	1235	1310	1241	S13	W62	.902	10982	11.9	35	1N		C	1241	1.34	3.20		
GRP34129	16	1250	1333	1256	N07	E07	.123	10987	17.1	43	--F				.52			4 3 3 8
RAMY	16	1250	1343	1256	N09	E07	.133	10987	17.1	53	-F		C		1.55			DE
HTPR	16	1255	1335		N05	E08	.139	10987	17.1	40	-F		C	1315	.52	.50		E
MEUD	16	1303E	1330		N07	E07	.123	10987	17.1	27D	-F		C	1313	.52	.50		CE
MCMA	16	1312E	1317D		N09	E07	.133	10987	17.1	5D	-N		C	1315	.52	.50		EF
GRP34136	16	1814	1832	1821	N12	E80	.982	10995	22.8	18	-N				.33			3 3 3 5
PALE	16	1812E	1826	1820	N15	E80	.981	10995	22.8	14D	-B		V		.26			
BOUL	16	1814	1830	1821	N11	E79	.979	10995	22.7	16	-N	1	C	1821	.32			DE
RAMY	16	1817	1840	1821	N09	E80	.982	10995	22.8	23	-N		C		.41			
GRP34137	16	1857	1925	1910	N11	E05	.125	10987	17.2	28	--N				.44			5 5 4 5
PALE	16	1852	1932	1915	N11	E06	.137	10987	17.2	40	-N				.41			
PALE	16	1852	1932	1857	N11	E06	.137	10987	17.2	40	-N		C		.27			DE
BOUL	16	1854	1923	1909	N10	E05	.113	10987	17.2	29	-N	1	C	1909	.43	.43		
LOCK	16	1859	1920	1906	N11	E04	.114	10987	17.1	21	-N		C		.52			DE
RAMY	16	1902	1926	1908	N11	E06	.137	10987	17.2	24	-N		C		.52			E
MCMA	16	1908E	1916D		N10	E05	.113	10987	17.2	8D	-N		C	1908	.41	.40		
GRP34138	16	1939	1956	1944	N11	E05	.125	10987	17.2	17	--F				.58			3 3 2 4
BOUL	16	1939	1955	1946	N10	E05	.113	10987	17.2	16	-F	1	C	1946	.43	.43		
LOCK	16	1939	1953	1943	N11	E04	.114	10987	17.1	14	-F		C		.72			DE
RAMY	16	1940	1959	1944	N11	E06	.137	10987	17.3	19	-N		C		.72			
GRP34139	16	2031	2058	2036	N10	E04	.100	10987	17.2	27	--F				.52			2 2 1 4
MCMA	16	2030	2110D	2037	N10	E05	.113	10987	17.2	40D	-F		C	2037	.52	.50		E
BOUL	16	2031	2045	2034	N10	E03	.090	10987	17.1	14	-F	2	V					
GRP34140	16	2100	2112	2106	N10	E04	.100	10987	17.2	12	--N				.42			2 2 2 4
BOUL	16	2058E	2112	2104	N09	E03	.076	10987	17.1	14D	-N	2	C	2104	.43	.43		
RAMY	16	2102	2109D	2107	N11	E05	.125	10987	17.3	7D	-N		C		.41			DE
GRP34142	16	2128	2205	2136	N07	W13	.224	10987	15.9	37	--N				.32			3 2 1 3
LOCK	16	2126	2200	2137	N06	W13	.224	10987	15.9	34	-N		C					
BOUL	16	2130	2209	2135	N07	W14	.241	10987	15.8	39	-N	2	C	2135	.32	.32		F
PALE	16	2146E	2148D		N08	W13	.226	10987	15.9	2D	-N		C					
GRP34143	16	2138	2159	2145	N09	E02	.066	10987	17.1	21	--N				.54			3 3 1 3
LOCK	16	2135	2200	2145	N09	E01	.058	10987	17.0	25	-F		C					
BOUL	16	2140	2157	2144	N09	E03	.076	10987	17.1	17	-N	2	C	2144	.54	.54		F
PALE	16	2146E	2148D		N09	E03	.076	10987	17.1	2D	-N		C					
144 BOUL	16	2220	2243	2224	N04	W09	.159	10987	16.3	23	--F	1	C	2224	.32	.32		2
GRP34145	17	0222	0244	0228	N08	E72	.946	10995	22.5	22	-B				.63			3 3 3 3
CULG	17	0221	0249	0230	N13	E72	.943	10995	22.5	28	1B		C	0230	1.13			HR
CRON	17	0223	0240	0227	N02	E72	.951	10995	22.5	17	-N	1	C	0227	.44			
MANI	17	0225E	0244	0226M	N08	E72	.946	10995	22.5	19D	-B	1	C	0226	.31	.68		

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPOR.	OBS.	MEASUREMENTS					REMARKS		
	DATE 1970	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH FLARE REGION				CMP DAY	MIN.	TANCE	COND.	TYPE		TIME UT	MEAS. AREA Sq. Deg.
GRP34155	17	1554	1613	1557	N12	E66	.905	10995	22.6	19	-N								5 5 2 5
MCMA	17	1553	1608	1558	N13	E65	.897	10995	22.5	15	-N	C	1558	.67	1.50			E	
LOCK	17	1553	1610	1556	N12	E65	.898	10995	22.5	17	-N	C							
RAMY	17	1553	1616	1557	N12	E66	.905	10995	22.6	23	-N	C		.52				DE	
BOUL	17	1554	1617	1556	N13	E69	.925	10995	22.8	23	-N	2 V							
WEND	17	1558	1614		N12	E63	.882	10995	22.4	16	-N	V							
GRP34156	17	1605	1647	1613	N09	W09	.155	10987	17.0	42	--F			.67				2 2 2 6	
MCMA	17	1605	1643	1616	N09	W09	.155	10987	17.0	38	-F	C	1616	.41	.40			E	
RAMY	17	1606E	1650	1610	N09	W09	.155	10987	17.0	440	-F	C		.93				DE	
GRP34157	17	1821	1836	1825	N10	W09	.156	10987	17.1	15	--F			.47				2 2 2 4	
BOUL	17	1821	1832	1825	N10	W09	.156	10987	17.1	11	-N	2 C	1825	.22	.22				
RAMY	17	1823E	1840D	1825	N10	W09	.156	10987	17.1	170	-F	C		.72				DE	
GRP34158	17	1854	1933	1903	N10	W11	.190	10987	17.0	39	--F			.89				4 4 3 5	
LOCK	17	1852	1915	1900	N09	W11	.189	10987	17.0	23	-F	C							
PALE	17	1853	1928	1901	N09	W12	.206	10987	16.9	35	-N	C		.72				F	
MCMA	17	1857	1930	1902	N10	W10	.173	10987	17.0	33	-N	C	1902	.83	.80			E	
RAMY	17	1909E	1958D	1909E	N10	W10	.173	10987	17.0	490	-F	C		1.13				DE	
GRP34160	17	2019	2035	2026	N13	E63	.882	10995	22.6	16	--F			.37				4 4 3 4	
BOUL	17	2017	2035D	2026	N13	E62	.874	10995	22.5	180	-F	1 C	2026	.43	.85				
PALE	17	2019E	2033D	2026U	N12	E62	.874	10995	22.5	140	-N	C		.36				F	
MCMA	17	2020	2032D	2023	N13	E62	.874	10995	22.5	120	-N	C	2023	.31	.70			E	
LOCK	17	2020	2035	2027	N12	E65	.898	10995	22.7	15	-F	C							
162 LOCK	17	2144	2152	2147	S09	W52	.817	10997	14.0	8	--F	C						3	
164 BOUL	17	2158	2202	2200	S12	W80	.991	10982	11.9	4	--F	2 C	2200	.11				3	
GRP34165	17	2202	2225	2207	N10	W13	.223	10987	16.9	23	--F			.44				2 2 2 3	
PALE	17	2159	2227	2205	N10	W12	.206	10987	17.0	28	-N	C		.45				F	
BOUL	17	2205	2223	2209	N09	W13	.222	10987	16.9	18	-F	2 C	2209	.43	.43				
GRP34168	18	0019	0036	0028	N11	E58	.844	10995	22.4	17	--F			.52				3 3 3 4	
MANI	18	0018E	0040D		N10	E58	.844	10995	22.4	220	-F	2 C	0020	.31	.54				
CRON	18	0020	0032	0025U	N11	E60	.862	10995	22.5	12	-F	1 C	0025	.44	.84				
PALE	18	0027E	0037	0030	N13	E56	.826	10995	22.2	100	-N	C		.81					
	18	0219	0222	NO FLARE PATROL															
	18	0226	0310	NO FLARE PATROL															
GRP34169	18	0602	0619	0605	N18	W87	.997	10979	11.7	17	-F			.80				2 2 2 2	
CRON	18	0602	0618	0606	N16	W83	.990	10979	12.0	16	-F	1 C	0606	.33					
ABST	18	0602	0620	0603	N19	W90	.999	10979	11.5	18	1N	C	0603	1.26				ACE	
6 STATIONS REPORTING GROUP 34170.					1 STATIONS OBSERVING AND NOT REPORTING.														
GRP34170	18	0700	0740	0717	N08	W32	.528	10987	15.9	40	-N			.76				5 5 5 6	
CAPE	18	0640	0750	0720	N09	W32	.528	10987	15.9	70	-N			.94	1.10				
ABST	18	0652E	0732D	0718	N09	W33	.543	10987	15.8	400	-F	P	0718	1.08	1.30			D	
CRON	18	0704	0745	0720	N07	W32	.527	10987	15.9	41	-N	1 C	0720	.33	.38				
CATA	18	0705	0730	0710	N09	W33	.543	10987	15.8	25	-N			.46	.55			190	
CAPS	18	0707E	0743D		N07	W32	.527	10987	15.9	360	-N	3 V	0716	1.00	1.20			170	
34170	18	0640	0750	0646	N08	W32	.528	10987	15.9	70	*-F			.72				3 2 2 6	
CAPE	18	0640	0750	0648	N09	W32	.528	10987	15.9	70	-F			1.21	1.40			K	
CRON	18	0640	0658U	0643	N07	W32	.527	10987	15.9	180	-F	1 C	0643	.22	.25				
HTPR	18	0729E	0750		N07	W33	.542	10987	15.8	210	-F	C	0735	.41	.40			B	
GRP34173	18	0919	0948	0925	N07	W23	.389	10987	16.7	29	--F			.82				4 4 4 10	
MONT	18	0856	1001	0928	N08	W22	.374	10987	16.7	65	-N			2.27					
HTPR	18	0917	0937	0925	N05	W25	.421	10987	16.5	20	-F	C	0925	.21	.20				
CATA	18	0920	0945	0925	N09	W23	.392	10987	16.7	25	-N			.58	.63			186	
CRON	18	0920	0928D	0923U	N07	W22	.373	10987	16.7	80	-F	1 C	0923	.22	.23				
GRP34175	18	1019	1036	1023	N10	E54	.805	10995	22.5	17	-N			1.40				8 8 7 10	
CAPE	18	1015	1035	1024	N10	E54	.805	10995	22.5	20	1N	C	1024	1.34	2.30				
WEND	18	1018	1034		N08	E54	.805	10995	22.5	16	1N	V		3.09					
MONT	18	1019	1041	1023	N10	E54	.805	10995	22.5	22	-N	C	1023	2.06					
CATA	18	1020	1035	1020	N08	E54	.805	10995	22.5	15	-N			.69	1.21			186	
HTPR	18	1020	1036	1024	N10	E55	.815	10995	22.6	16	-B	C	1024	.72	1.20				
CANR	18	1020	1032	1023	N11	E52	.784	10995	22.3	12	-N	1 C	1023	.43	.69				
CAPS	18	1021	1037D		N10	E55	.815	10995	22.6	160	1N	V	1026	1.50	2.70			182	
ONDR	18	1023E	1035		N10	E52	.784	10995	22.3	120	1N	V	1023			2.50		C	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
GRP34180	18	1749	1809	1753	N10	E50	.762	10995	22.5	20	--N							3 3 3 4
RAMY	18	1748	1811	1751	N10	E51	.773	10995	22.6	23	-N	C						DE
MCMA	18	1748	1810	1753	N10	E50	.762	10995	22.5	22	-N	C	1753			.50		EH
BOUL	18	1750	1805	1756	N09	E50	.762	10995	22.5	15	-N	2 C	1755			.50		
GRP34181	18	1753	1835	1758	N04	W28	.469	10987	16.6	42	--N							4 4 3 4
RAMY	18	1751	1839	1754	N05	W27	.452	10987	16.7	48	-N	C						DE
BOUL	18	1754	1830	1757	N04	W29	.484	10987	16.6	36	-N	2 C	1757			.68		
LOCK	18	1754	1835	1802	N05	W28	.468	10987	16.6	41	-N	C						EH
MCMA	18	1754	1835		N03	W27	.455	10987	16.7	41	-F	C	1759			.50		
GRP34182	18	1826	1846	1830	N10	E50	.762	10995	22.5	20	--F							2 2 2 4
RAMY	18	1826	1837	1831	N09	E49	.751	10995	22.4	11	-N	C						DE
MCMA	18	1826	1855	1829	N10	E50	.762	10995	22.5	29	-F	C	1829			.50		D
GRP34183	18	1854	1915	1901	N09	W30	.499	10987	16.5	21	--F							2 2 1 4
LOCK	18	1854	1920	1902	N08	W31	.513	10987	16.5	26	-F	C						U
RAMY	18	1854	1909	1859	N09	W28	.469	10987	16.7	15	-F	C						
GRP34184	18	1901	1914	1905	N10	E49	.751	10995	22.5	13	--F							4 4 3 4
MCMA	18	1900	1915	1903	N10	E48	.740	10995	22.4	15	-F	C	1903			.50		D
LOCK	18	1900	1915	1905	N09	E50	.762	10995	22.5	15	-F	C						DE
RAMY	18	1901	1916	1905	N09	E49	.751	10995	22.5	15	-N	C						
BOUL	18	1903	1910	1905	N10	E50	.762	10995	22.5	7	-N	2 C	1905			.67		
GRP34187	19	0247	0307	(0248)	N09	W42	.666	10987	16.0	20	--N							2 2 2 3
MANI	19	0246E	0255D		N08	W42	.666	10987	16.0	9D	-N	1	0248			.42		
CRON	19	0247	0307		N09	W42	.666	10987	16.0	20	-N	V						
GRP34189	19	0320	0338	0324	N12	E47	.729	10995	22.7	18	--F							2 2 2 3
CRON	19	0320	0338U	0324	N12	E44	.693	10995	22.4	18D	-F	1 C	0324			.30		
MANI	19	0327E	0337		N12	E50	.763	10995	22.9	10D	-F	1	0328			.95		
191 MANI	19	0518E	0542		S12	W71	.955	10982	13.9	24D	-N	1	0522			.96		4
GRP34192	19	0838	0851	0843	N14	E36	.594	10995	22.1	13	--F							4 4 4 6
CANR	19	0837	0852	0844U	N14	E33	.553	10995	21.8	15	-F	1 C	0844			.39		
MONTR	19	0838	0851	0842	N14	E37	.607	10995	22.1	13	-N	C	0842			1.55		H
HTPR	19	0838	0851	0844	N15	E35	.583	10995	22.0	13	-F	C	0844			.50		E
CRON	19	0839	0850	0841	N12	E37	.603	10995	22.1	11	-F	1 C	0841			.40		
GRP34193	19	0936	0955	0940	N16	W08	.226	10993	18.8	19	--F							3 3 3 7
CANR	19	0936	0948	0943	N15	W07	.202	10993	18.9	12	-F	1 C	0943			.43		
MONTR	19	0936	1003	0938	N17	W08	.239	10993	18.8	27	-N	C	0938			1.13		
HTPR	19	0937	0955	0939	N15	W09	.224	10993	18.7	18	-F	C	0939			.40		
GRP34194	19	1129	1143	1131	N20	W12	.318	10993	18.6	14	--F							3 3 3 8
HTPR	19	1129	1144	1132	N19	W10	.285	10993	18.7	15	-F	C	1132			.30		
CANR	19	1129	1146	1130	N20	W13	.328	10993	18.5	17	-F	2 C	1130			.23		
RAMY	19	1132E	1139	1132E	N21	W13	.341	10993	18.5	7D	-N	C						DE
GRP34200	19	1539	1551	1542	N09	E34	.558	10995	22.2	12	--N							3 3 3 3
RAMY	19	1538	1553	1541U	N08	E35	.571	10995	22.3	15	-N	C						DE
CANR	19	1539	1552	1542	N09	E33	.543	10995	22.1	13	-N	1 C	1542			.77		
HTPR	19	1540	1548	1542	N10	E33	.544	10995	22.1	8	-F	C	1542			.60		
GRP34201	19	1546	1625	1553	N10	W16	.283	10992	18.5	39	--F							3 2 2 4
RAMY	19	1546	1625	1552	N11	W16	.288	10992	18.5	39	-F	C				1.24		F
CANR	19	1546	1553D	1553	N09	W15	.263	10992	18.5	7D	-N	1 C	1553			.54		.54
LOCK	19	1610E	1625U	1610E	N09	W18	.312	10992	18.3	15D	-N	C						B
202 RAMY	19	1551	1603	1555	S11	W80	.989	10982	13.7	12	-N	C						DE 3
203 RAMY	19	1741	1807	1746	N13	E36	.591	10995	22.4	26	-N	C						F 2
206 MITK	20	0358	0414	0401	N09	W44	.692	10987	16.9	16	--F	C	0401			.80		D 3
GRP34208	20	0654	0731	0657	N05	W54	.807	10987	16.2	37	-N							6 6 6 6
CATA	20	0650	0735D	0655	N06	W52	.785	10987	16.4	45D	18		0655			2.56		254
CRON	20	0654	0723	0657	N03	W54	.808	10987	16.2	29	-N	1 C	0657			1.80		
TEHR	20	0654	0736	0657	N04	W53	.797	10987	16.3	42	-N	C				1.00		F
MITK	20	0655	0707D	0657	N04	W54	.807	10987	16.2	12D	1N	C	0657			2.80		
CAPE	20	0655	0730	0657	N05	W55	.817	10987	16.2	35	-N	C	0657			2.00		
CAPS	20	0705E	0730D		N05	W55	.817	10987	16.2	25D	18	V	0707			2.50		312

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 OCT	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. %	
231 CRON	21	2220	2244		N16	E90	1.000	11002	28.7	24	-N	V		.31				2
232 PALE	21	2238	2254D	2246U	N13	E04	.149	10995	22.2	160	--N	C		.19				3
GRP34233	21	2303	2331	2308	N12	E03	.126	10995	22.2	28	--F	1 C	2308	.22	.21			2 1 1 3
CRON	21	2303U	2331U	2308U	N12	E03	.126	10995	22.2	280	-F	1 C		.22				
PALE	21	2326E	2328D	2326E	N12	E04	.134	10995	22.3	20	-F	C		.45				F
235 MITK	22	0114	0122	0115	N04	E90	1.000	11006	28.8	8	-N	C	0115	.52				D 4
GRP34236	22	0212	0230	0216	N14	E00	.151	10995	22.1	18	--N	C		.37				3 3 3 6
MITK	22	0212	0232	0215	N14	E01	.152	10995	22.2	20	-N	C	0215	.52	.50			D
CRON	22	0212	0230	0215	N14	E00	.151	10995	22.1	18	-N	1 C	0215	.33	.32			
PALE	22	0218E	0228	0219	N14	W01	.152	10995	22.0	100	-N	C		.27				
GRP34237	22	0240	0253	0243	S10	E66	.924	11000	27.1	13	--F	C		.37				2 2 2 4
MITK	22	0239	0253	0243	S10	E67	.930	11000	27.1	14	-F	C	0243	.52				E
CRON	22	0240	0252	0242	S10	E65	.917	11000	27.0	12	-F	1 C	0242	.22				
GRP34238	22	0733	0751	0735	N20	W49	.764	10993	18.6	18	-N	C		.95				5 4 4 8
ISTA	22	0730	0745		N18	W48	.749	10993	18.7	15	-B							
CRON	22	0733	0735D	0735U	N20	W48	.753	10993	18.7	20	-N	2 C	0735	.33	.50			
CAPE	22	0733	0748	0735	N21	W49	.766	10993	18.6	15	-N	C	0735	1.03	1.60			H
HTPR	22	0734	0746	0734	N20	W50	.774	10993	18.6	12	-B	C	0734	1.13	1.60			C
BUCA	22	0735E	0800D		N20	W50	.774	10993	18.6	250	-N	C	0737	1.32	2.00			
239 HTPR	22	1411	1426	1416	N16	E37	.613	10998	25.4	15	--F	C	1416	.21	.20			3
240 PALE	22	1758	1829	1803	N12	W58	.845	10992	18.4	31	-N	C		.81				DE 2
GRP34241	22	1951	2011	1957	N21	W57	.842	10993	18.6	20	--F	C		.32				1 1 1 2
PALE	22	1951	2011	1957	N21	W57	.842	10993	18.6	20	-F	C		.32				F
PALE	22	1951	2011	2002	N21	W57	.842	10993	18.6	20	-F	C		.19				
242 CULG	22	2231	2334	2256	N13	E73	.952	11002	28.4	63	1N	C	2256	1.13				5
GRP34243	22	2252	2315	2258	N14	W61	.871	10992	18.4	23	-N	C		.68				2 1 1 5
PALE	22	2252	2315	2258	N14	W61	.871	10992	18.4	23	-N	C		.68				FH
CULG	22	2253	2320	2258	N20	W59	.858	10992	18.5	27	1B	C	2258	1.13	2.20			HRV
GRP34245	22	2324	2341	2326	N15	E32	.543	10998	25.4	17	--F	C		1.31				3 3 3 4
PALE	22	2319	2354	2326	N15	E32	.543	10998	25.4	35	-N	C		.55				F
CRON	22	2325U	2337U	2326U	N15	E31	.529	10998	25.3	120	-F	1 C	2326	1.11	1.30			
MITK	22	2327	2332		N14	E33	.554	10998	25.5	5	1F	C	2327	2.27	2.70			BE
GRP34249	23	0256	0323	0304	N12	E71	.942	11002	28.4	27	-F	C		.82				4 4 4 7
PALE	23	0255	0326	0303	N13	E70	.936	11002	28.4	31	-N	C		.58				F
CULG	23	0255	0330	0309	N13	E71	.942	11002	28.4	35	1N	C	0309	1.24				
MITK	23	0256	0315	0302	N12	E71	.942	11002	28.4	19	1F	C	0302	1.13				E
CRON	23	0257	0320U	0301	N10	E71	.942	11002	28.4	230	-F	1 C	0301	.33				
GRP34250	23	0312	0333	0316	N11	W13	.243	10995	22.2	21	--F	C		.35				4 4 4 6
TEHR	23	0311	0335	0315	N09	W13	.232	10995	22.2	24	-F	C		.28				F
CRON	23	0312	0334	0315	N12	W13	.251	10995	22.2	22	-N	1 C	0315	.33	.32			
MITK	23	0312	0325D	0316	N12	W13	.251	10995	22.2	130	-F	C	0316	.52	.50			E
PALE	23	0313	0331	0316	N12	W12	.236	10995	22.2	18	-N	C		.27				F
GRP34258	23	1350	1404	1352	N19	E76	.966	11002	29.3	14	1N	C		1.10				5 5 4 6
CATA	23	1350	1355D	1350	N17	E74	.957	11002	29.1	50	-N	C	1350	.29				180
CAPS	23	1350E	1405D		N17	E75	.962	11002	29.2	150	1B	V	1351	1.94				228
RAMY	23	1350	1412	1353	N19	E77	.970	11002	29.4	22	1N	C		1.13				
HTPR	23	1351	1358	1352	N21	E78	.974	11002	29.4	7	-F	C	1352	1.03				DE
BOUL	23	1351	1401	1353	N21	E76	.966	11002	29.3	10	1N	1 V						
GRP34259	23	1433	1450	1436	N17	E87	.997	11002	30.1	17	--F	C		.25				2 2 2 5
RAMY	23	1433	1450	1436	N18	E88	.998	11002	30.2	17	-F	C		.21				DE
CAPS	23	1440E	1445D		N16	E85	.994	11002	30.0	50	-F	V	1442	.29				
GRP34260	23	1445	1505	1447	N17	E71	.942	11002	28.9	20	-N	C		.73				3 3 2 5
RAMY	23	1444	1522	1446	N18	E72	.947	11002	29.0	38	-N	C		.62				DE
HTPR	23	1445	1452	1447	N16	E70	.936	11002	28.9	7	-F	C	1447	.83				E
BOUL	23	1446	1501	1447	N17	E71	.942	11002	28.9	15	1N	2 V						
GRP34261	23	1452	1519	1459	N16	E72	.947	11002	29.0	27	-B	C		.31				3 2 2 6
RAMY	23	1444	1522	1458	N18	E72	.947	11002	29.0	38	-N	C		.21				
CATA	23	1500	1515	1500	N14	E72	.947	11002	29.0	15	-B	C	1500	.40				206
BOUL	23	1513	1524	1516	N14	E65	.903	11002	28.5	11	-F	2 V						

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	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
GRP34262	23	1456	1503	1458	N15	E88	.998	11002	30.2	7	-N							3 3 2 6	
RAMY	23	1455	1504	1458	N17	E88	.998	11002	30.2	9	-N	C			.42			DE	
HTPR	23	1456	1503	1458	N12	E90	1.000	11002	30.4	7	-F	C	1503		.31			A	
BOUL	23	1457	1502	1458	N17	E85	.994	11002	30.0	5	-N	2 V			.52				
GRP34263	23	1526	1535	1527	N19	W69	.930	10993	18.5	9	--F				.36			2 2 1 5	
BOUL	23	1526	1530	1526	N19	W70	.936	10993	18.4	4	-F	2 V						DE	
RAMY	23	1526	15400	1527	N18	W68	.924	10993	18.5	140	-F	C			.36				
GRP34264	23	1609	1623	1614	N18	E86	.996	11002	30.1	14	--F				.22			2 2 2 3	
BOUL	23	1609	1622	1613U	N18	E83	.990	11002	29.9	13	-F	1 C	1613		.22			DE	
RAMY	23	1614E	1623	1614E	N17	E89	.999	11002	30.4	90	-F	C			.21				
GRP34265	23	1651	1731	1656	N13	W06	.169	10995	23.3	40	--N				.81			3 3 3 3	
CANR	23	1649	1717D	1656	N13	W06	.169	10995	23.3	280	-N	2 C	1656		.97			F	
RAMY	23	1651	1738	1656	N13	W06	.169	10995	23.3	47	-N	C			.83				
BOUL	23	1652	1723	1657	N13	W06	.169	10995	23.3	31	-F	1 C	1657		.64	.64			
4 STATIONS REPORTING GROUP 34266.					1 STATIONS OBSERVING AND NOT REPORTING.														
GRP34266	23	1658	1750	1716	N18	E84	.992	11002	30.0	52	1N				.58			3 3 2 4	
BOUL	23	1658	1753	1720U	N18	E83	.990	11002	29.9	55	1N	1 C	1720		.64			DE	
RAMY	23	1708E	1747	1712U	N17	E83	.990	11002	29.9	390	-N	C			.52			B	
MCMA	23	1719E	1732D		N19	E87	.997	11002	30.2	130	1B	P	1719						
34266	23	1726	1748	1732	N12	E85	.995	11002	30.1	22	*-N				.32			3 3 2 4	
PALE	23	1726	1749	1729	N08	E87	.998	11002	30.3	23	-N	C						F	
BOUL	23	1726	1740	1730	N14	E83	.990	11002	30.0	14	-N	1 C	1730		.32			DE	
RAMY	23	1736E	1755	1736E	N14	E85	.994	11002	30.1	190	-F	C			.31				
GRP34267	23	1754	1809	1757	N15	E83	.990	11002	30.0	15	--F				.43			2 2 1 4	
PALE	23	1753	1802D	1757	N11	E83	.991	11002	30.0	90	-N	C							
BOUL	23	1754	1809	1756	N19	E83	.989	11002	30.0	15	-F	1 C	1755		.43				
269 PALE	23	1925	1948	1932	N07	E86	.997	11002	30.3	23	-N	C						3	
GRP34270	23	2151	2233	2211	N13	E76	.967	11002	29.6	42	-B				1.65			3 2 1 3	
PALE	23	2151	2236	2211U	N09	E79	.979	11002	29.8	45	-B	C						FH	
CRON	23	2214	2229		N16	E72	.947	11002	29.3	15	1N	V			1.65				
BOUL	23	2215E	2230	2215E	N23	E80	.981	11002	29.9	150	1N	2 C	2215		.54				
271 PALE	23	2231	2251	2236	N12	W28	.477	10995	21.8	20	--N	C			.19			H 3	
272 MITK	24	0025	0037	0030	N18	E77	.971	11002	29.8	12	--F	C	0030		.52			E 2	
274 MANI	24	0206E	0217		N15	E75	.962	11002	29.7	110	--N	1	0207		.31	.73		2	
4 STATIONS REPORTING GROUP 34275.					1 STATIONS OBSERVING AND NOT REPORTING.														
GRP34275	24	0230	0315	0239	N17	E75	.962	11002	29.7	45	-N				.74			2 2 2 4	
MITK	24	0230E	0322	0240	N18	E76	.966	11002	29.8	520	1N	C	0240		1.03			E	
CRON	24	0230E	0307	0237U	N16	E74	.957	11002	29.7	370	-N	2 C	0237		.44				
34275	24	0221	0232	0224	N18	E76	.966	11002	29.8	11	*-B				.61			2 2 2 3	
MANI	24	0221E	0232D		N20	E75	.962	11002	29.7	110	-B	1	0222		.31	.73			
PALE	24	0224E	0228D	0224E	N18	E76	.966	11002	29.8	40	-N	C			.81			F	
MANI	24	0226E	0327D		N14	E76	.967	11002	29.8	610	-B	1	0228		.41	.98			
GRP34276	24	0351	0413	0401	N12	W27	.462	10995	22.1	22	--F				.53			3 2 2 6	
MANI	24	0345E	0402D		N10	W30	.502	10995	21.9	170	-N	1	0350		.83	.95			
MITK	24	0347	0425	0403	N12	W27	.462	10995	22.1	38	-F	C	0403		.83	.90		D	
CRON	24	0354	0400	0358	N12	W27	.462	10995	22.1	6	-F	1 C	0358		.22	.24			
7 STATIONS REPORTING GROUP 34277.					1 STATIONS OBSERVING AND NOT REPORTING.														
GRP34277	24	0454	0632	0518	N18	E75	.962	11002	29.8	98	2N				2.33			5 5 5 7	
CRON	24	0450	0635	0518	N16	E74	.957	11002	29.8	105	1N	1 C	0518		1.33				
MANI	24	0450	0632	0520	N14	E74	.958	11002	29.8	102	2N	2	0520		3.09	7.20			
MITK	24	0454	0625D	0513	N20	E77	.970	11002	30.0	91D	2N	C	0513		2.27			FK	
TACH	24	0456	0630	0520	N19	E76	.966	11002	29.9	94	2N	C	0520		3.09		2.69 105	EKZ	
TEHR	24	0502	0631	0517	N19	E75	.962	11002	29.8	89	1N	C			1.85			FDE	
34277	24	0451	0645	0543	N18	E75	.962	11002	29.8	114	*2N				3.10			5 3 3 6	
MANI	24	0447E	0628		N14	E75	.962	11002	29.8	101D	1B	1	0450		.62	1.44			
CULG	24	0448	0555D	0534	N19	E75	.962	11002	29.8	67D	2B	P	0534		4.64				
CRON	24	0450	0635	0532	N16	E74	.957	11002	29.8	105	1N	1 C	0532		1.33				
TACH	24	0456	0630	0540	N19	E76	.966	11002	29.9	94	2N	C							
ABST	24	0532E	0615D	0540	N18	E75	.962	11002	29.9	43D	2N	P	0540		3.33			E	
CATA	24	0605E	0645D	0605	N18	E74	.957	11002	29.8	40D	-B		0605		.34		219		

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	DATE 1970 OCT	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hr	MAX. INT. %	
					LAT.	MER. DIST.												
34277	24	0452	0632	0552	N17	E76	.966	11002	29.9	100	*2N							2 2 1 7
MANI	24	0450	0632	0552	N14	E74	.958	11002	29.8	102	2N	2						
MITK	24	0454	0625D		N20	E77	.970	11002	30.0	91D	2N		C	0543	2.68			
GRP34280	24	0743	0756	0745	N11	W35	.575	10995	21.7	13	-N				.92			6 6 6 7
ABST	24	0742	0750	0745	N11	W36	.589	10995	21.6	8	1N		C	0745	1.80	2.20		E
TEHR	24	0742	0802	0745	N11	W35	.575	10995	21.7	20	-N		C		.55			DEH
MANI	24	0743	0802	0745	N10	W35	.574	10995	21.7	19	-N	2		0745	.83	1.01		
CRON	24	0743	0752	0746	N11	W35	.575	10995	21.7	9	-F	1	C	0746	.22	.26		
CAPE	24	0743	0752	0745	N12	W34	.563	10995	21.8	9	-N		C	0745	1.17	1.40		
CATA	24	0745	0755	0745	N12	W34	.563	10995	21.8	10	-N			0745	.93	1.13		166
GRP34281	24	0805	0833	0814	N12	W29	.492	10995	22.2	28	-N				1.12			3 2 2 10
CATA	24	0805	0825D	0810	N12	W28	.477	10995	22.2	20D	-N			0810	.69	.80		170
MONT	24	0809E	0833	0817	N11	W29	.489	10995	22.2	24D	-N		C	0817	1.55			
ABST	24	0818	0830	0827	N12	W31	.521	10995	22.0	12	-F		C	0827	.90	1.00		D
GRP34282	24	0848	0906	0853	N19	W78	.974	10993	18.5	18	-N				.58			4 4 4 6
MONT	24	0842	0906	0853	N18	W78	.974	10993	18.5	24	-N		C	0853	1.55			
TEHR	24	0844	0909	0848	N18	W78	.974	10993	18.5	25	-N		C		.36			DE
CRON	24	0850	0903	0854	N19	W77	.970	10993	18.6	13	-N	1	C	0854	.22			
ARCE	24	0855	0905	0858	N19	W78	.974	10993	18.5	10	-F		C	0858	.18	.60		
GRP34284	24	1027	1053	1038	N12	W38	.618	10995	21.6	26	--F				.79			2 2 2 6
TEHR	24	1026	1056	1037	N10	W37	.601	10995	21.7	30	-F		C		.45			DE
HTPR	24	1027	1050	1038	N13	W38	.620	10995	21.6	23	-N		C	1038	1.13	1.30		EG
GRP34285	24	1109	1118	1111	N07	W84	.993	10992	18.2	9	--N				.26			2 2 2 5
CANR	24	1108	1117	1111	N07	W82	.989	10992	18.3	9	-N	1	C	1111	.21			DE
RAMY	24	1109	1118	1111	N06	W86	.997	10992	18.0	9	-N		C		.31			
GRP34289	24	1226	1249	1230	N10	E56	.826	11002	28.7	23	1N				2.12			8 8 8 9
CANR	24	1225	1249	1228	N10	E57	.835	11002	28.8	24	1N	2	C	1228	1.94	3.58		
RAMY	24	1225	1257	1229	N10	E55	.816	11002	28.6	32	1B		C		2.06			RS
HTPR	24	1226	1242	1230	N08	E55	.816	11002	28.6	16	1B		C	1230	1.96	3.10		EU
MONT	24	1226	1259	1232	N08	E56	.826	11002	28.7	33	1B		C	1232	4.13			
TEHR	24	1226	1248	1229	N11	E57	.835	11002	28.8	22	-N		C		1.22			FDE
CAPE	24	1227	1242	1230	N09	E56	.826	11002	28.7	15	1N		C	1230	1.30	2.30		
ZURI	24	1229E	1241	1231	N09	E55	.816	11002	28.6	12D	-N		P	1231	1.36	2.30		
CAPS	24	1231E	1250D		N12	E55	.816	11002	28.6	19D	2F	1	V	1237	3.00	5.40		F
GRP34290	24	1308	1320	1309	N12	E12	.237	10998	25.4	12	--N				.39			3 3 3 7
RAMY	24	1308	1316	1309	N11	E11	.214	10998	25.4	8	-N		C		.52			DE
TEHR	24	1308	1323D	1310	N13	E13	.259	10998	25.5	15D	-N		C		.45			DE
CANR	24	1308	1322D	1309	N11	E11	.214	10998	25.4	14D	-N	2	C	1309	.21	.21		
GRP34295	24	1425	1500	1429	N12	W33	.549	10995	22.1	35	-N				1.68			5 5 5 5
MONT	24	1420	1511	1428	N11	W32	.533	10995	22.2	51	1B		C	1428	3.40			
RAMY	24	1425	1504	1429	N12	W33	.549	10995	22.1	39	-B		C		1.65			U
HTPR	24	1425	1450	1430	N14	W32	.544	10995	22.2	25	-N		C	1430	1.44	1.60		GU
BOUL	24	1427E	1446U	1431U	N09	W33	.544	10995	22.1	19D	-F	1	C	1431	.64	.76		
CAPE	24	1427	1455	1429	N12	W33	.549	10995	22.1	28	-F		C	1429	1.25	1.50		
GRP34296	24	1517	1533	1521	N12	W38	.618	10995	21.8	16	-F				1.26			4 4 4 4
RAMY	24	1515	1539	1519	N11	W38	.616	10995	21.8	24	-N		C		1.03			DE
BOUL	24	1517U	1527U	1521U	N11	W40	.643	10995	21.6	10D	-F	1	C	1521	.43	.57		
CAPE	24	1519	1528	1522	N11	W38	.616	10995	21.8	9	-F		C	1522	1.07	1.40		
CAPS	24	1520E	1532D		N13	W35	.579	10995	22.0	12D	1F	2	V	1521	2.50	3.00		123 BH
GRP34299	24	1634	1731	1702	N18	E68	.924	11002	29.8	57	1F				1.61			2 2 2 7
RAMY	24	1633	1719	1642	N21	E69	.931	11002	29.9	46	-F		C		.31			DE
SANM	24	1634	1659D		N17	E68	.924	11002	29.8	25D	2F	1	P	1656	2.91			E
RAMY	24	1653	1724	1702	N18	E65	.904	11002	29.6	31	-N		C		.31			DE
SANM	24	1707E	1738D		N17	E68	.924	11002	29.8	31D	2F	1	P	1728	2.91			E
GRP34302	24	1822	1841	1827	N11	W40	.643	10995	21.8	19	--N				.35			3 3 3 5
BOUL	24	1821U	1829U	1824U	N10	W40	.642	10995	21.8	8D	-N	1	C	1824	.22	.29		
PALE	24	1822	1844D	1829	N11	W41	.656	10995	21.7	22D	-N		C		.63			DE
PALE	24	1822	1844D	1839	N11	W41	.656	10995	21.7	22D	-F				.19			
RAMY	24	1824	1838	1828	N11	W40	.643	10995	21.8	14	-N		C		.21			DE
GRP34303	24	1836	1851	1838	N17	E69	.930	11002	30.0	15	--N				.33			3 3 3 6
MCHA	24	1835	1849	1838	N17	E70	.936	11002	30.0	14	-N		C	1838	.31	1.00		D
RAMY	24	1836	1853	1838	N16	E68	.924	11002	29.9	17	-N		C		.41			DE
PALE	24	1837	1844D	1837	N17	E70	.936	11002	30.0	7D	-B		C		.27			DE

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OBSERVATORY	OBSERVED UT			LOCATION					DURATION	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
GRP34305	24	1939	2009	1943	N16	E69	.930	11002	30.0	30	1B						5 5 5 6
MCMA	24	1938E	1946D	1942	N17	E70	.936	11002	30.1	8D	1B	C	1942	1.55	2.10		E
RAMY	24	1938	1958	1943	N15	E68	.923	11002	29.9	20	-B	C		.72			DE
PALE	24	1940	1957	1941	N16	E68	.924	11002	29.9	17	-N	C		.93			
BOUL	24	1941U	2027U	1944U	N15	E69	.930	11002	30.0	460	-N	1 C	1944	.81			
SANM	24	1942E	2012D		N16	E68	.924	11002	29.9	30D	2B	1 P	1943	.75			E
RAMY	24	2027E	2032	2027E	N15	E68	.923	11002	30.0	5D	-N	V		4.53			DE
GRP34306	24	2105	2126	2107	N17	E66	.910	11002	29.8	21	--F			.62			2 2 1 4
RAMY	24	2104	2109D	2106	N15	E68	.923	11002	30.0	5D	-N	V		.62			DE
BOUL	24	2105	2126	2108	N18	E64	.897	11002	29.7	21	-F	1 V					
309 PALE	24	2339	2357D	2349	N15	E48	.745	11002	28.6	18D	--N	C		.36			DE 3
GRP34311	25	0152	0208	0200	N18	E53	.802	11002	29.1	16	--F			.26			2 2 2 4
CRON	25	0150	0202		N17	E55	.820	11002	29.2	12	-F	V		.31			
MANI	25	0154	0213	0200	N19	E51	.783	11002	28.9	19	-N	2	0200	.21	.33		
GRP34312	25	0207	0229	0213	N16	E66	.910	11002	30.0	22	-N			.70			4 4 4 4
CULG	25	0202	0235	0214	N17	E64	.896	11002	29.9	33	1N	C	0214	1.65	3.54		
PALE	25	0209	0230	0213	N15	E67	.917	11002	30.1	21	-N	C		.72			F
CRON	25	0210	0220	0211	N15	E67	.917	11002	30.1	10	-F	1 C	0211	.22			
MANI	25	0213E	0230		N18	E65	.904	11002	30.0	17D	-N	2	0215	.21	.48		
GRP34313	25	0421	0441	0422	N17	E64	.896	11002	30.0	20	--F			.53			3 2 2 5
CRON	25	0421	0431	0422	N14	E63	.888	11002	29.9	10	-F	1 C	0422	.22	.47		
MITK	25	0426E	0450D		N19	E65	.904	11002	30.1	24D	-F	C	0427	.83	1.90		E
MANI	25	0436E	0444D		N17	E58	.848	11002	29.5	8D	-N	1	0437	.41	.78		
314 TEHR	25	0600	0615	0605	N10	W47	.729	10995	21.7	15	--N	C		.36			DE 3
GRP34315	25	0749	0811	0754	N14	W27	.470	10995	23.3	22	--F			.43			2 2 2 7
TEHR	25	0749	0822	0753	N13	W27	.466	10995	23.3	33	-N	C		.64			SF
CRON	25	0749	0800	0755U	N15	W27	.475	10995	23.3	11	-F	1 C	0755	.22	.25		
GRP34316	25	0909	0918	0910	N14	E42	.673	11002	28.5	9	-N			.86			2 2 2 9
ZURI	25	0909	0911	0910	N13	E41	.659	11002	28.5	2	-N	C	0910	.59	.80		
MONT	25	0910E	0925	0910	N15	E43	.687	11002	28.6	15D	-N	C	0910	1.13			
8 STATIONS REPORTING GROUP 34318. 0 STATIONS OBSERVING AND NOT REPORTING.																	
GRP34318	25	1045	1146	1055	N17	E60	.865	11002	29.9	61	-N			1.52			6 6 6 8
RAMY	25	1043E	1141	1047	N16	E61	.873	11002	30.0	58D	1N	C		1.44			DE
TEHR	25	1045	1141	1052	N19	E60	.866	11002	29.9	56	-N	C		1.10			F
ZURI	25	1046	1154	1056	N17	E59	.856	11002	29.9	68	-B	C	1055	1.56	2.90		
HTRP	25	1046	1150	1059	N16	E60	.864	11002	29.9	64	1N	C	1059	2.27	3.70		E
CAPP	25	1047E	1140D		N17	E60	.865	11002	29.9	53D	1N	P	1052	1.86	3.96		
CANR	25	1055E	1145	1101U	N17	E61	.873	11002	30.0	50D	-N	1 C	1101	.86	1.74		
34318	25	1050	1210	1110	N18	E60	.865	11002	30.0	80	*1B			2.51			2 2 2 8
CAPS	25	1049E	1200D		N20	E60	.867	11002	30.0	71D	2N	2 P	1118	3.50	5.90	190	F
CATA	25	1050	1210	1110	N16	E59	.856	11002	29.9	80	1B		1110	1.51	3.01	229	E
GRP34320	25	1508	1600	1513	N16	E57	.838	11002	29.9	52	-N			1.40			6 6 5 7
RAMY	25	1506	1595	1511	N16	E59	.856	11002	30.1	49	1N	C		1.70			DE
CAPE	25	1507	1538D	1514	N14	E59	.855	11002	30.1	31D	1N	P	1514	1.43	2.70		
ZURI	25	1508	1536D	1512	N15	E59	.855	11002	30.1	28D	-B	C	1512	1.89	3.50		
CAPS	25	1509E	1550D		N20	E55	.824	11002	29.8	41D	1N	V	1516	1.20	2.40	196	C
BOUL	25	1510	1604	1512	N17	E52	.791	11002	29.5	54	-N	1 V		.80	1.53	251	
CATA	25	1510	1530D	1515	N15	E57	.837	11002	29.9	20D	-B						
GRP34321	25	1612	1624	1614	N11	W51	.775	10995	21.9	12	-N			.72			3 3 1 5
RAMY	25	1612	1624	1614	N10	W53	.796	10995	21.7	12	-N	C		.72			DE
BOUL	25	1612	1622	1614	N12	W49	.753	10995	22.0	10	-N	1 V					
LOCK	25	1612	1625	1615	N10	W52	.785	10995	21.8	13	-N	C					
GRP34327	25	1942	1959	1947	N16	E51	.779	11002	29.6	17	--F			.18			3 2 2 6
RAMY	25	1942	1958	1947	N18	E52	.792	11002	29.7	16	-N	C		.26			DE
PALE	25	1946E	1959D	1947	N13	E50	.765	11002	29.6	13D	-F	C		.10			DE
LOCK	25	1951	2010	1955	N14	E37	.609	11002	28.6	19	-F	C					
GRP34328	25	2315	2326	2319	N14	W58	.846	10995	21.6	11	--F			.38			2 2 1 4
PALE	25	2231	2350	2237	N20	W55	.824	10995	21.8	79	-F	C		.45			
PALE	25	2314	2326	2319	N17	W58	.848	10995	21.6	12	-N	C		.38			
LOCK	25	2315	2325	2319	N09	W60	.863	10995	21.5	10	-F	C					H
GRP34329	25	2337	0013	2348	N12	E50	.764	11002	29.7	36	--N			.56			3 3 3 6
PALE	25	2327	0000D	2348	N10	E50	.763	11002	29.7	33D	-F	C		.54			F
MANI	25	2340E	0006		N13	E49	.754	11002	29.7	26D	-N	1	2343	.72	1.06		
CRON	25	2343	0020		N13	E51	.776	11002	29.8	37	-N	V		.41			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM-POR-TANCE	OBS. COND.	TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MGMATH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg		MAX. INT. %
					LAT.	MER. DIST.													
GRP34330	26	0130	0139	0132	N12	W60	.863	10995	21.6	9	--F							3 3 3 5	
CRON	26	0130	0138	0132	N12	W58	.845	10995	21.7	8	-F	1	C	0132	.22	.41			
PALE	26	0131E	0140	0131E	N11	W60	.863	10995	21.6	90	-F		C		.27				
KODA	26	0136E	0138		N12	W61	.871	10995	21.5	20	-N		P	0136	1.60	1.60	1.72	D	
GRP34332	26	0240	0307	0246	N16	E49	.758	11002	29.8	27	-N				1.28			4 3 3 5	
CRON	26	0240	0301	0248	N14	E49	.755	11002	29.8	21	-N	1	C	0248	.44	.66			
VORO	26	0240	0314	0242	N18	E49	.761	11002	29.8	34	1N		C	0242	2.12	3.26		77 EJ	
PALE	26	0241E	0305D	0248	N16	E49	.758	11002	29.8	240	-N		C		1.27			DE	
KODA	26	0300	0335	0301	N19	E52	.794	11002	30.0	35	1N		V	0300	3.21	3.20	2.08	CEK	
4 STATIONS REPORTING GROUP 34333. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34333	26	0407	0506	0417	N15	E51	.778	11002	30.0	59	1N				3.06			3 3 3 3	
CULG	26	0404	0423D	0416	N15	E50	.768	11002	29.9	190	2B		P	0416	5.67	8.25		R	
TEHR	26	0406	0455U	0418	N17	E52	.791	11002	30.1	490	1N		C		1.74			F	
CRON	26	0411	0506	0418	N14	E51	.777	11002	30.0	55	1N	1	C	0418	1.77	2.73			
34333	26	0411	0503	0428	N18	E51	.782	11002	30.0	52	*1N				3.08			2 2 2 4	
CRON	26	0411	0506	0428	N16	E51	.779	11002	30.0	55	1N	1	C	0428	1.55	2.39			
KODA	26	0427E	0459	0428	N20	E50	.775	11002	29.9	320	1N		P	0427	4.60	4.60	2.08	CEK	
GRP34336	26	0757	0825	0801	N15	E49	.757	11002	30.0	28	1N				1.93			11 11 11 11	
TEHR	26	0749	0820	0800	N15	E49	.757	11002	30.0	31	-N		C		1.32			FDE	
MONT	26	0752	0848	0803	N14	E49	.755	11002	30.0	56	1B		C	0803	3.40				
HTRP	26	0756	0813	0800	N14	E50	.766	11002	30.1	17	1N		C	0800	1.55				
CRON	26	0757	0815	0800	N16	E47	.736	11002	29.9	18	-N	1	C	0800	.66	.96		E	
CANR	26	0757U	0817	0801U	N15	E48	.746	11002	29.9	200	-N	1	C	0801	1.18	1.76			
ABST	26	0759	0817	0803	N15	E50	.768	11002	30.1	18	1N		C	0803	2.25	3.50		E	
BUCA	26	0800E	0830D	0802	N13	E48	.743	11002	29.9	300	1F		C	0802	2.76	4.10			
CAPS	26	0800E	0826D		N16	E52	.790	11002	30.2	260	1N		V	0807	1.80	3.00		196	
CATA	26	0800	0825	0800	N15	E49	.757	11002	30.0	25	-B			0800	1.16	1.80		240	
CRIM	26	0802E	0828D		N13	E48	.743	11002	29.9	260	1F		P	0806	2.25	3.40		EI	
CAPF	26	0807E	0840D		N14	E47	.733	11002	29.9	330	1N		C	0809	2.89	4.20			
GRP34337	26	0941	1004	0941	N13	E47	.732	11002	29.9	23	--F				.42			5 4 4 12	
MONT	26	0904	1002	0918	N15	E46	.723	11002	29.8	58	1N		C	0918	2.58				
TEHR	26	0937	1006	0941	N14	E47	.733	11002	29.9	29	-F		C		.83			DE	
CATA	26	0940	0945D	0940	N12	E45	.707	11002	29.8	50	-B		V	0940	.14	.21		216	
CRON	26	0947	1002		N13	E50	.765	11002	30.2	15	-F		V		.31				
MEUD	26	0950E	0953D		N13	E46	.720	11002	29.9	30	-F		C	0950	.41	.60		E	
GRP34338	26	0956	1007	1001	N13	E29	.496	11002	28.6	11	--F				.57			3 3 3 10	
HTRP	26	0956	1003	1000	N13	E29	.496	11002	28.6	7	-F		C	1000	.52	.60		E	
MONT	26	0956	1012	1001	N14	E29	.499	11002	28.6	16	-N		C	1001	.77				
MEUD	26	0958E	1005		N13	E28	.481	11002	28.5	70	-F		C	0958	.41	.50		E	
GRP34340	26	1118	1135	1120	N16	E36	.602	11002	29.2	17	--N				.27			3 2 2 9	
TEHR	26	1117	1130	1120	N18	E41	.671	11002	29.5	13	-N		C		.28			DE	
RAMY	26	1119	1135	1120	N17	E41	.668	11002	29.5	16	-N		C		.26			DE	
WEND	26	1130	1139		N12	E26	.448	11002	28.4	9	-F		V						
11 STATIONS REPORTING GROUP 34345. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34345	26	1234	1302	1243	N13	E46	.720	11002	30.0	28	-B				1.57			8 8 8 8	
MONT	26	1224	1308	1247	N13	E45	.708	11002	29.9	44	1B		C	1247	2.58				
HTRP	26	1235	1300	1245	N12	E45	.707	11002	29.9	25	-B		C	1245	1.24				
CAPS	26	1235E	1304D		N16	E52	.790	11002	30.4	290	1B		V	1241	1.90	3.20		312	
TEHR	26	1235	1259	1240	N13	E44	.696	11002	29.8	24	-N		C		1.22			FDE	
CANR	26	1236	1303	1241	N14	E44	.698	11002	29.8	27	-B	2	G	1241	.75	1.05			
ZURI	26	1237	1257	1242	N13	E44	.696	11002	29.8	20	-B		C	1242	1.16	1.60			
WEND	26	1238	1301		N11	E47	.730	11002	30.1	23	1B		P		3.09				
CATA	26	1241E	1255D	1245	N13	E44	.696	11002	29.8	140	-B			1245	.58	.82		295	
34345	26	1255	1304	1255	N14	E45	.710	11002	29.9	9	*-N				.71			3 3 3 12	
RAMY	26	1254E	1305	1255U	N14	E44	.698	11002	29.8	110	-N		C		.52			U	
HERS	26	1255	1302	1255E	N14	E46	.721	11002	30.0	7	-N		P	1255	1.19	1.60		BE	
MEUD	26	1259E	1300D		N13	E45	.708	11002	29.9	10	-F		C	1259	.41	.60		E	
GRP34346	26	1325	1332	1326	N11	E28	.475	11002	28.7	7	--N				.49			6 6 5 10	
CATA	26	1325	1335	1325	N11	E28	.460	11002	28.6	10	-N			1325	.40	.46		191	
ZURI	26	1325	1329	1326	N11	E27	.460	11002	28.6	4	-N		C	1326	.55	.60			
CANR	26	1325	1331	1326	N11	E28	.475	11002	28.7	6	-N	2	C	1326	.43	.49			
HTRP	26	1325	1330	1325	N10	E27	.457	11002	28.6	5	-N		C	1325	.62	.70		E	
WEND	26	1325	1331		N10	E28	.473	11002	28.7	6	-N		V						
RAMY	26	1326	1333	1326	N13	E28	.481	11002	28.7	7	-N		C		.46			DEF	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE 1970 OCT	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 α	MAX. INT. %
GRP34347	26	1423	1510	1425	S14	E90	1.000	11012	2.3	47	1N							4 3 2 10
HTPR	26	1420	1442D	1423	S12	E90	1.000	11012	2.3	22D	1B	C						VW
CAPE	26	1423	1450	1428	S15	E90	1.000	11012	2.3	27	1N	C	1428	1.49				A
CATA	26	1425	1530	1425	S15	E90	1.000	11012	2.4	65	1N	C	1425	1.16			199	AW
CAPF	26	1450E	1550D		S13	E90	1.000	11012	2.4	60D	1B	C	1458	.83				AH
GRP34348	26	1508	1521	1510	N15	E20	.376	11002	28.1	13	--N			.53				4 4 4 8
ZURI	26	1507	1515	1510	N15	E20	.376	11002	28.1	8	-N	C	1510	.59	.60			
CANR	26	1508	1522	1510	N14	E19	.355	11002	28.1	14	-N	2 C	1510	.43	.46			
RAMY	26	1508	1525	1511	N15	E19	.362	11002	28.1	17	-F	C		.41				DE
CATA	26	1510	1520	1510	N14	E20	.369	11002	28.1	10	-N		1510	.69	.75		174	
GRP34349	26	1509	1520	1511	N16	E45	.713	11002	30.0	11	--N			.49				3 3 3 8
RAMY	26	1509	1525	1511	N17	E45	.715	11002	30.0	16	-F	C		.26				DE
ZURI	26	1509	1515	1512	N15	E45	.711	11002	30.0	6	-N	C	1512	.63	.90			
CATA	26	1510	1520	1510	N15	E45	.711	11002	30.0	10	-N		1510	.58	.83		178	
GRP34350	26	1744	1757	1748	N16	E38	.628	11002	29.6	13	-B			.91				4 4 3 4
CANR	26	1740	1749	1743	N17	E37	.618	11002	29.5	9	-N	1 C	1743	.32	.41			
RAMY	26	1741	1749	1743	N18	E37	.621	11002	29.5	8	-N	C		.31				DE
PALE	26	1741	1748	1743	N19	E36	.613	11002	29.4	7	-F	C		.23				F
LOCK	26	1746	1805	1749	N14	E38	.622	11002	29.6	19	-B	C						F
RAMY	26	1746	1808	1747	N14	E38	.622	11002	29.6	22	-B	C		1.13				F
CANR	26	1746	1751D	1748	N14	E39	.635	11002	29.7	5D	-B	1 C	1748	.97	1.25			
PALE	26	1747	1802	1749	N16	E38	.628	11002	29.6	15	-B	C		.63				DE
GRP34351	26	1805	1856	1813	N21	E42	.692	11002	29.9	51	-N			.92				3 3 2 3
RAMY	26	1801	1925	1809	N21	E43	.703	11002	30.0	84	-B	C		.93				F
LOCK	26	1806	1845	1816	N21	E44	.714	11002	30.1	39	-N	C						
PALE	26	1808	1848	1814	N23	E43	.710	11002	30.0	40	-N	C		.91				DE
RAMY	26	1820	1914	1825	N17	E36	.605	11002	29.5	54	-N	C		.41				DE
352 LOCK	26	2055	2110	2059	N15	E15	.306	11002	28.0	15	--F	C						2
GRP34353	26	2057	2122	2101	N21	E42	.692	11002	30.0	25	--F			.27				2 2 1 3
LOCK	26	2055	2130	2100	N19	E41	.674	11002	29.9	35	-F	C						
PALE	26	2059	2114	2102	N22	E42	.695	11002	30.0	15	-F	C		.27				F
GRP34354	26	2200	2305	2237	N18	E41	.671	11002	30.0	65	1N			1.32				3 3 2 3
LOCK	26	2157	2315	2236	N15	E41	.663	11002	30.0	78	1N	C						
PALE	26	2159	2306	2237	N22	E42	.695	11002	30.1	67	1N			1.71				
PALE	26	2159	2306	2207	N22	E42	.695	11002	30.1	67	-N	C		.72				F
CRON	26	2203	2255		N16	E41	.665	11002	30.0	52	-N	V		.93				
GRP34355	27	0233	0250	0241	N21	E39	.658	11002	30.0	17	--F			.25				2 2 2 4
PALE	27	0229	0250	0243	N21	E39	.658	11002	30.0	21	-F	C		.27				
CRON	27	0236	0250	0239	N21	E38	.646	11002	30.0	14	-F	1 C	0239	.22	.28			
GRP34356	27	0313	0341	0320	N18	E36	.609	11002	29.8	28	-N			1.14				4 4 4 4
KODA	27	0304	0338	0325	N21	E37	.634	11002	29.9	34	1N	P	0324	2.44	2.40	1.96		CEK
CRON	27	0315	0338	0319	N16	E34	.576	11002	29.7	23	-N	1 C	0319	.56	.66			
PALE	27	0315	0341	0320	N17	E35	.593	11002	29.8	26	-N	C		.81				F
TEHR	27	0316	0347	0317	N17	E36	.606	11002	29.8	31	-N	C		.73				F
357 CRON	27	0418	0430	0422	N14	E18	.341	11002	28.5	12	--N	1 C	0422	.22	.23			3
GRP34360	27	0700	0715	0705	N14	E31	.528	11002	29.6	15	--N			.51				4 3 3 8
MANI	27	0640E	0700D		N15	E33	.559	11002	29.8	20D	1F	1 C	0643	1.65	2.60			
HTPR	27	0654E	0716		N14	E30	.514	11002	29.5	22D	-F	C	0709	.62	.70			EU
CRON	27	0656	0715	0700	N14	E30	.514	11002	29.5	19	-F	1 C	0700	.33	.38			
CATA	27	0710	0715	0710	N14	E32	.542	11002	29.7	5	-B		0710	.58	.69		224	
GRP34361	27	0817	0823	0819	N14	E19	.355	11002	28.8	6	--N			.46				4 4 4 10
MONT	27	0817	0821	0819	N15	E19	.362	11002	28.8	4	-N	C	0819	.77				
CRON	27	0817	0823	0819	N14	E19	.355	11002	28.8	6	-N	1 C	0819	.33	.35			
CANR	27	0817	0823	0818	N14	E20	.370	11002	28.8	6	-N	1 C	0818	.21	.23			
HTPR	27	0818	0823	0819	N14	E19	.355	11002	28.8	5	-B	C	0819	.52	.50			
GRP34362	27	0826	0844	0830	N14	E31	.528	11002	29.7	18	-N			1.48				10 10 9 11
CANR	27	0824	0841	0826U	N13	E32	.539	11002	29.8	17	-N	1 C	0826	1.29	1.56			
MONT	27	0824	0842	0832	N14	E32	.542	11002	29.8	18	1N	C	0832	2.58				H
TEHR	27	0824	0855	0827	N14	E32	.542	11002	29.8	31	-B	C		.83				F
BUCA	27	0825E	0850D	0831	N13	E31	.525	11002	29.7	25D	1N	C	0831	2.21	2.60			
CRON	27	0825	0838	0829	N14	E30	.514	11002	29.6	13	-B	1 C	0829	.56	.63			
HTPR	27	0826	0840	0830	N14	E29	.500	11002	29.5	14	-B	C	0830	1.13	1.30			EU
MANI	27	0826E	0840D		N15	E31	.532	11002	29.7	14D	1N	1 C	0828	1.86	2.90			
ONDR	27	0827E	0832D		N16	E31	.536	11002	29.7	5D	1N	V	0831			2.50		CH
ABST	27	0827	0843	0834	N14	E33	.556	11002	29.8	16	1N	P	0834	1.80	2.10			F
CATA	27	0830	0845	0830	N13	E32	.539	11002	29.8	15	-B		0830	1.09	1.31		278	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	MIN.	TIME UT	MEAS. AREA Sq. Deg.		CORR. AREA Sq. Deg.
GRP34366	27	0936	0949	0939	N03	E11	.193	11015	28.2	13	--N						3 3 3 10
CAPF	27	0936E	1000D		N03	E12	.210	11015	28.3	240	-N	P	0941	1.03	1.05		G
HTPR	27	0936	0943	0939	N03	E10	.176	11015	28.1	7	-F	C	0939	.52	.50		
CANR	27	0936	0945	0938	N03	E10	.176	11015	28.1	9	-N	2 C	0938	.32	.32		
GRP34371	27	1144	1210	1153	N18	E35	.597	11002	30.1	26	--N						5 5 5 9
MONT	27	1136	1226	1151	N19	E35	.601	11002	30.1	50	-N	C	1151	1.13			257
CATA	27	1145	1205	1155	N17	E35	.593	11002	30.1	20	-B		1155	.23	.29		
HTPR	27	1150	1205	1154	N19	E34	.588	11002	30.0	15	-F	C	1154	.52	.60		
MEUD	27	1154E	1200		N18	E34	.584	11002	30.0	60	-F	C	1155	.26	.30		D
CAPS	27	1155E	1213D		N19	E36	.613	11002	30.2	180	-F	3 V	1158	1.00	1.30		C
GRP34372	27	1321	1357	1330	N15	E07	.212	11002	28.1	36	--N						7 7 7 7
HTPR	27	1314	1353	1325	N15	E08	.222	11002	28.2	39	-F	C	1325	.31	.30		
MEUD	27	1320E	1350		N15	E06	.203	11002	28.0	300	-F	C	1333	.52	.50		E
RAMY	27	1323	1352	1327	N16	E06	.218	11002	28.0	29	-N	C		.52			DE
CAPS	27	1323E	1355D		N14	E07	.198	11002	28.1	32D	-N	3 V	1334	.80	.80		C
CANR	27	1324	1400U	1330	N14	E07	.198	11002	28.1	36D	-B	2 C	1330	.64	.64		170
CATA	27	1330E	1410	1330	N14	E07	.198	11002	28.1	40D	-B		1330	.46	.48		209
ZURI	27	1338E	1356	1338	N14	E07	.198	11002	28.1	18D	-N	P	1338	1.11	1.10		
GRP34373	27	1326	1340	1327	N14	E27	.471	11002	29.6	14	--N						3 3 3 6
RAMY	27	1325	1344	1327	N15	E26	.462	11002	29.5	19	-N	C		.31			DE
HTPR	27	1326	1335	1327	N14	E27	.471	11002	29.6	9	-B	C	1327	.52	.60		E
MEUD	27	1328E	1329D		N13	E28	.482	11002	29.7	1D	-F	C	1328	.41	.50		C
GRP34374	27	1410	1420	1415	N19	W12	.315	11011	26.7	10	--N						5 5 4 8
ZURI	27	1410	1418	1414	N19	W13	.325	11011	26.6	8	-N	C	1414	.60	.70		
CATA	27	1410	1425	1415	N18	W12	.302	11011	26.7	15	-N		1415	.71	.24		178
BOUL	27	1411	1416	1412	N18	W12	.302	11011	26.7	5	-F	2 V		.23			
RAMY	27	1412E	1417D	1417	N20	W13	.337	11011	26.6	5D	-N	C		.52			DE
MEUD	27	1414E	1425	1419	N18	W12	.302	11011	26.7	11D	-F	C	1419	.93	.90		D
GRP34375	27	1414	1434	1419	N11	W77	.972	10995	21.8	20	-N						6 5 4 8
RAMY	27	1413	1443	1417	N12	W79	.979	10995	21.7	30	-B	C		.56			DE
BOUL	27	1414	1433	1418	N13	W80	.982	10995	21.6	19	-N	2 V					
ZURI	27	1414	1436	1422	N12	W79	.979	10995	21.7	22	-N	C	1422	1.22			
CANR	27	1414	1438	1417	N10	W76	.968	10995	21.9	24	-N	3 C	1417	.43			
CATA	27	1415	1430	1420	N12	W76	.967	10995	21.9	15	-B		1420	.29			221
MEUD	27	1415	1428D	1418	N10	W72	.948	10995	22.2	13D	-F	C	1418	.31			
8 STATIONS REPORTING GROUP 34376. 0 STATIONS OBSERVING AND NOT REPORTING.																	
GRP34376	27	1425	1440	1430	N17	E29	.513	11002	29.8	15	-N			1.37			8 8 8 8
ZURI	27	1423	1440	1430	N17	E27	.486	11002	29.6	17	1B	C	1430	2.94	3.30		
CANR	27	1423	1442	1424	N14	E28	.486	11002	29.7	19	-N	2 C	1424	.86	.99		
MEUD	27	1424	1435	1424	N13	E30	.510	11002	29.9	11	-N	C	1424	1.34	1.50		V
BOUL	27	1424	1444	1427	N14	E28	.486	11002	29.7	20	-F	1 C	1427	.22	.25		
CATA	27	1425	1440	1430	N13	E29	.496	11002	29.8	15	-B		1430	.93	1.07		229
CAPS	27	1426E	1442D		N14	E31	.528	11002	29.9	16D	-N	3 V	1434	.80	1.00		C
CANR	27	1428	1440	1430	N20	E28	.517	11002	29.7	12	-N	2 C	1430	.75	.88		
BOUL	27	1429	1440U	1430	N13	E29	.496	11002	29.8	11D	-F	1 C	1430	.32	.37		
RAMY	27	1430E	1444	1430E	N16	E29	.508	11002	29.8	14D	-B	C		1.34			DE
CATA	27	1430	1440	1430	N20	E30	.543	11002	29.9	10	-B		1430	1.16	1.37		214
HTPR	27	1432E	1442		N23	E30	.561	11002	29.9	10D	-N	C	1432	1.24	1.40		EF
MEUD	27	1433E	1435		N20	E28	.517	11002	29.7	2D	-F	C	1433	.83	1.00		CE
376 RAMY	27	1432E	1443	1435	N22	E29	.543	11002	29.8	11D	*-F	C		.52			DE
GRP34379	27	1616	1634	1623	N15	E09	.233	11002	28.4	18	--F						3 3 2 4
BOUL	27	1615	1632	1622	N14	E10	.232	11002	28.4	17	-F	1 C	1622	.54	.54		
RAMY	27	1616	1630	1621	N16	E08	.235	11002	28.3	14	-F	C		.52			DE
LOCK	27	1617	1640	1625	N14	E10	.232	11002	28.4	23	-F	C					
GRP34382	27	1745	1808	1751	N15	E04	.188	11002	28.0	23	--N						6 6 5 6
RAMY	27	1743	1807D	1751	N15	E03	.183	11002	28.0	24D	-N	C		.57			DE
LOCK	27	1743	1812	1751	N14	E03	.167	11002	28.0	29	-N	C		.72			
CANR	27	1743	1750D	1746	N14	E05	.180	11002	28.1	7D	-N	2 C	1746	.64	.64		
MCHA	27	1744	1808	1750	N15	E04	.188	11002	28.0	24	-N	C	1750	.41	.40		E
BOUL	27	1744	1806	1750	N14	E04	.173	11002	28.0	22	-N	1 C	1750	.64	.64		F
PALE	27	1752	1809	1758	N15	E04	.188	11002	28.0	17	-N	C		.45			
GRP34384	27	1815	1837	1818	N17	E17	.352	11002	29.0	12	--N						5 4 3 5
PALE	27	1815	1831	1818	N17	E18	.365	11002	29.1	26	-F	C		.59			DE
RAMY	27	1815	1837	1817U	N18	E16	.349	11002	29.0	22	-B	C		.99			F
BOUL	27	1815	1842	1818	N16	E17	.343	11002	29.0	27	-N	1 C	1818	.43	.46		
MCHA	27	1816	1836	1817	N17	E18	.365	11002	29.1	20	-N	C	1817	.36	.36		E
LOCK	27	1830E	1850	1830U	N17	E16	.339	11002	29.0	20D	-F	C					

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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	MIN.	TIME UT	MEAS. AREA Sq. Deg.		CORR. AREA Sq. Deg.	MAX. WIDTH Ha
GRP34410	28	0759	0833	0804	N14	W04	.174	11002	28.0	34	-N						13 12 12 13	
MONT	28	0754	0851	0756	N15	W04	.190	11002	28.0	57	1B		C	0756	3.40			
ISTA	28	0755	0821		N15	W01	.178	11002	28.3	26	1B							
TEHR	28	0755	0850	0757	N13	W05	.166	11002	28.0	55	-N		C		1.50		FDE	
CRON	28	0755	0821	0758	N13	W03	.152	11002	28.1	26	-N	1	C	0758	1.11	1.08		
TACH	28	0756	0818	0758	N14	W04	.174	11002	28.0	22	1N		C	0758	2.56	2.60	2.23	78
CAPS	28	0756E	0800D		N16	W05	.212	11002	28.0	40	1B	1	V	0759	2.00	2.00		260
HTPR	28	0756	0820	0758	N14	W04	.174	11002	28.0	24	-B		C	0758	1.65	1.60		
BUCA	28	0758E	0850D	0759	N14	W06	.190	11002	27.9	520	1N		C	0759	2.76	2.70		
CAPF	28	0800E	0835D		N13	W03	.152	11002	28.1	350	1N		C	0801	3.51	3.57		
CAPE	28	0800	0826	0803	N14	W04	.174	11002	28.0	26	-N		C	0803	1.43	1.50		
CANR	28	0803E	0837D	0804	N14	W04	.174	11002	28.0	340	-N	1	C	0804	1.08	1.08		
CATA	28	0805E	0835D	0805	N13	W04	.158	11002	28.0	300	1B		C	0805	2.32	2.36		269
KODA	28	0807	0817	0808	N16	E01	.195	11002	28.4	10	-N		V	0807	1.31	1.30	1.44	
GRP34411	28	0834	0849	0834	N15	E17	.335	11002	29.6	15	-N				1.58			3 3 3 10
MONT	28	0831	0848	0834	N16	E18	.357	11002	29.7	17	-N		C	0834	2.06			
BUCA	28	0833E	0850D		N14	E17	.327	11002	29.6	17D	-N		C	0835	1.66	1.70		
CRON	28	0837	0850		N14	E17	.327	11002	29.6	13	-N		V		1.03			
12 STATIONS REPORTING GROUP 34415.					0 STATIONS OBSERVING AND NOT REPORTING.													
GRP34415	28	1241	1339	1257	N21	E20	.427	11002	30.0	58	2B				8.67			11 11 11 12
RAMY	28	1231	1352	1259	N20	E20	.418	11002	30.0	81	2B		C		8.25			UDE
RAMY	28	1231	1352	1250	N20	E20	.418	11002	30.0	81	1B				4.90			
ZURI	28	1232	1527	1259	N20	E19	.406	11002	29.9	175	2B				7.98			
CAPS	28	1233E	1343D	1253	N23	E20	.447	11002	30.0	70D	2B	3	P	1256	7.50	8.60		402
CATA	28	1245E	1310D	1255	N21	E22	.451	11002	30.2	250	1B			1255	3.48	3.90		380
CANR	28	1246	1355	1253	N21	E22	.451	11002	30.2	69	1B	2	C	1253	2.69	3.01		
MEUD	28	1249	1320	1253	N22	E22	.460	11002	30.2	31	2B		C	1253	4.85	5.20		
HTPR	28	1251	1324	1256	N20	E20	.418	11002	30.0	33	2B		C	1256	6.70	7.10		
WEND	28	1252E	1330		N21	E20	.427	11002	30.0	38D	3N		P		16.50			
CAPF	28	1256E	1425D		N23	E21	.458	11002	30.1	89D	3B		C	1300	17.53	19.55		
MONT	28	1258E	1305D	1258	N20	E21	.430	11002	30.1	7D	3B		C	1258	13.82			
CAPE	28	1300E	1328	1304	N22	E22	.460	11002	30.2	28D	1B		P	1304	2.59	2.90		
34415	28	1232	1304	1235	N21	E21	.439	11002	30.1	32	*-F				.62			4 4 4 10
TEHR	28	1230	1325	1234	N21	E21	.439	11002	30.1	55	-N		C		.28			IU
RAMY	28	1231	1352	1236	N20	E20	.418	11002	30.0	81	-F				1.03			
MEUD	28	1233	1239	1235	N22	E22	.460	11002	30.2	6	-F		C	1235	.72	.80		E
CANR	28	1234	1243	1235	N20	E20	.418	11002	30.0	9	-N	1	C	1235	.43	.48		
GRP34416	28	1252	1316	1256	N15	E18	.349	1002	29.9	24	1N				3.31			4 4 4 12
MEUD	28	1251	1320		N16	E17	.344	1002	29.8	29	1N		C	1255	2.06	2.10		
WEND	28	1252E	1304		N15	E18	.349	1002	29.9	12D	2N		P		8.25			
CATA	28	1253	1310D	1257	N15	E18	.349	1002	29.9	17D	-B			1257	1.39	1.49		229
HTPR	28	1253	1324	1256	N15	E17	.335	1002	29.8	31	1N		C	1255	1.55	2.40		
8 STATIONS REPORTING GROUP 34418.					3 STATIONS OBSERVING AND NOT REPORTING.													
GRP34418	28	1423	1455	1429	N20	E03	.267	11002	28.8	32	-N				1.21			7 6 6 10
CANR	28	1422	1435D	1425	N19	E03	.251	11002	28.8	13D	-N	2	C	1425	.54	.54		
ZURI	28	1422	1453	1429	N21	E03	.284	11002	28.8	31	-N		C	1429	1.26	1.30		
MONT	28	1422	1456D	1430	N21	E03	.284	11002	28.8	34D	1N		C	1430	2.58			
RAMY	28	1424	1435D	1428	N20	E04	.271	11002	28.9	11D	-N		C		1.03			DE
HTPR	28	1424	1545	1432	N20	E04	.271	11002	28.9	81	-F		C	1432	.83	.80		E
CAPE	28	1424	1435D	1428	N20	E03	.267	11002	28.8	11D	-F		P	1428	1.03	1.10		
BOUL	28	1538	1553	1540	N15	E08	.223	11002	29.3	15	-N	1	V					
34418	28	1440	1455	1440	N17	E10	.270	11002	29.4	15	*-N				.93			2 1 1 10
CATA	28	1440E	1450D	1440	N20	E04	.271	11002	28.9	10D	-N			1440	.93	1.00		166
CANR	28	1446	1500D		N14	E15	.299	11002	29.7	14D	-F	2	V		.90			
GRP34420	28	1552	1608	1600	N15	W08	.223	11002	28.1	16	--N				.77			5 5 3 5
HTPR	28	1550	1604D		N14	W08	.210	11002	28.1	14D	-N		C	1559	.93	.90		
RAMY	28	1551E	1604D	1559U	N18	W09	.274	11002	28.0	13D	-N		C		.83			DE
BOUL	28	1551	1607	1558	N15	W08	.223	11002	28.1	16	-N	1	V					
CANR	28	1555	1606	1558	N14	W08	.210	11002	28.1	11	-N	2	C	1558	.54	.54		
LOCK	28	1603E	1610	1603	N14	W09	.221	11002	28.0	7D	-F		C					
422 LOCK	28	1626	1642	1630	N14	W09	.221	11002	28.0	16	--F							3
GRP34423	28	1736	1749	1740	N15	W09	.234	11002	28.1	13	--F				.27			3 3 1 4
LOCK	28	1734	1748	1738	N15	W09	.234	11002	28.1	14	-F		C					
PALE	28	1734	1748	1742	N15	W09	.234	11002	28.1	14	-F		C		.27			F
BOUL	28	1739	1750	1740	N15	W09	.234	11002	28.1	11	-F	1	V					
427 PALE	28	1842	1851	1844U	N17	E02	.214	11002	28.9	9	--N				.27			F

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	DATE 1970 OCT	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %	
					LAT.	MER. DIST.													
GRP34428	28	1903	1919	1906	N13	E13	.263	11002	29.8	16	--N							4 4 2 4	
PALE	28	1902	1921	1904	N13	E13	.263	11002	29.8	19	-N	C						DE	
LOCK	28	1902	1915	1905	N13	E13	.263	11002	29.8	13	-N	C							
RAMY	28	1902	1912D	1906	N14	E13	.272	11002	29.8	10D	-N	C						U	
BOUL	28	1904	1922	1907	N11	E12	.232	11002	29.7	18	-N	1 V							
GRP34429	28	1934	1940	1935	N21	E18	.404	11002	30.2	6	--F	1 C	1935		.22	.23		2 2 1 4	
BOUL	28	1934	1940	1935	N21	E18	.404	11002	30.2	6	-F	1 C			.22				
LOCK	28	1934	1940	1935	N20	E17	.382	11002	30.1	6	-F	1 C							
GRP34430	28	2042	2103	2047	N21	E16	.382	11002	30.1	21	--F				.33			4 4 3 4	
RAMY	28	2041	2100	2046	N22	E17	.404	11002	30.1	19	-F	C			.41			DE	
LOCK	28	2042	2100	2047	N22	E16	.393	11002	30.1	18	-F	C							
PALE	28	2042	2054	2049	N22	E19	.426	11002	30.3	12	-N	C			.27			F	
BOUL	28	2043	2159	2046	N21	E17	.393	11002	30.1	76	-F	1 C	2046		.32	.35			
BOUL	28	2106	2116	2109	N17	E04	.222	11002	29.2	10	-F	1 V							
GRP34431	28	2057	2113	2104	S14	E61	.894	11012	2.4	16	--F				.42			2 2 2 4	
RAMY	28	2057	2113	2104	S13	E62	.899	11012	2.5	16	-F	C			.52			DE	
BOUL	28	2102U	2113U	2104U	S15	E59	.880	11012	2.3	11D	-F	1 C	2104		.32	.68			
432 BOUL	28	2151	2159	2153	N16	W44	.702	10998	25.6	8	--F	1 V						2	
GRP34434	28	2348	2358	2351	N12	W11	.226	11002	28.2	10	--F				.11			2 2 1 3	
LOCK	28	2345	2357	2348	N13	W12	.249	11002	28.1	12	-F	C							
CRON	28	2350	2358	2353	N11	W10	.203	11002	28.2	8	-F	1 C	2353		.11	.11			
435 CRON	29	0020	0025	0022	N16	E08	.238	11002	29.6	5	--F	1 C	0022		.22	.21		2	
	29	0045	0104	NO FLARE PATROL															
437 CRON	29	0240	0250	0241	N13	E06	.177	11002	29.6	10	--F	1 C	0241		.22	.21		3	
GRP34438	29	0301	0317	0305	N14	E08	.211	11002	29.7	16	--F				.44			2 2 2 6	
PALE	29	0259	0316	0305U	N14	E08	.211	11002	29.7	17	-N	C			.55			F	
CRON	29	0302	0318	0304	N13	E07	.187	11002	29.7	16	-F	1 C	0304		.33	.32			
GRP34440	29	0538	0602	0544	N03	W14	.243	11015	28.2	24	--N				.51			3 3 2 7	
SIBE	29	0510	0600D	0547	N03	W13	.226	11015	28.2	50D	1F	V						EY	
TEHR	29	0534	0601	0540	N03	W14	.243	11015	28.2	27	-N	C			.45			DE	
CRON	29	0542	0602	0546	N03	W14	.243	11015	28.2	20	-N	2 C	0546		.56	.54			
4 STATIONS REPORTING GROUP 34441. 5 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34441	29	0718	0728	0721	N04	W16	.275	11015	28.1	10	-N				1.12			2 2 2 9	
CRON	29	0715	0729	0717	N03	W15	.260	11015	28.2	14	-N	1 C	0717		.56	.54			
KODA	29	0720	0727	0725	N04	W16	.275	11015	28.1	7	-N	V	0720		1.67	1.70	1.56	CE	
34441	29	0610	0730	0620	N03	W15	.260	11015	28.1	80	*-N				.98			2 1 1 5	
CATA	29	0610E	0730	0620	N03	W15	.260	11015	28.1	80D	-N		0620		.98	1.02	186	T	
TEHR	29	0654	0706	0655	N03	W15	.260	11015	28.2	12	-N	C			.36			DE	
GRP34443	29	0858	0911	0902	N03	W18	.310	11015	28.0	13	--N				.66			3 3 3 7	
MONT	29	0856	0923	0902	N04	W17	.292	11015	28.1	27	-N	C	0902		1.55				
HTPR	29	0858	0905	0903	N03	W18	.310	11015	28.0	7	-F	C	0903		.31	.30		E	
CRON	29	0900	0906	0902	N02	W19	.328	11015	28.0	6	-N	1 C	0902		.11	.11			
GRP34449	29	1127	1145	1131	N22	E09	.332	11002	30.2	18	--F				.73			5 5 5 9	
CATA	29	1125	1150	1130	N22	E10	.339	11002	30.2	25	-N		1130		.58	.62	191		
RAMY	29	1127	1148	1130	N22	E08	.325	11002	30.1	21	-N	C			.52			DE	
HTPR	29	1128	1146	1131	N22	E09	.332	11002	30.2	18	-F	C	1131		.41	.40		E	
MEUD	29	1128	1140	1130	N22	E09	.332	11002	30.2	12	-F	C	1130		.52	.50		E	
ABST	29	1128	1142	1132	N22	E09	.332	11002	30.2	14	-F	C	1132		1.62	1.70		E	
GRP34451	29	1140	1152	1140	N04	W21	.358	11015	27.9	12	--N				.17			2 1 1 9	
CATA	29	1140	1150	1140	N03	W21	.359	11015	27.9	10	-N		1140		.17	.19	182	Z	
CANR	29	1153	1153D		N04	W20	.341	11015	28.0		-N	2 V			.80				
34451	29	1153	1217	1159	N03	W18	.310	11015	28.1	24	*-F				.69			7 7 7 8	
CAPS	29	1137E	1220D		N02	W20	.344	11015	28.0	43D	-N	3 V	1205		.70	.70	170		
TEHR	29	1150	1219	1155	N04	W18	.308	11015	28.1	29	-N	C			.36			DEH	
MEUD	29	1151	1211		N02	W18	.312	11015	28.1	20	-F	C	1156		.52	.50		E	
ABST	29	1151	1240	1200	N04	W19	.325	11015	28.1	49	-F	C	1200		1.89	2.00		F	
RAMY	29	1153	1212	1158	N04	W18	.308	11015	28.1	19	-F	C			.41			DE	
HTPR	29	1155	1205	1200	N04	W17	.292	11015	28.2	10	-F	C	1200		.52	.50			
CATA	29	1155	1215	1200	N04	W17	.292	11015	28.2	20	-N		1200		.46	.48	191		

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	DATE 1970 OCT	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
GRP34477	30	0915	0927	0917	S13	E38	.664	11012	2.2	12	--N							8 8 8 11
ARCE	30	0910	0925	0910	S12	E36	.635	11012	2.1	15	-F	C	0910	.61	.80			DE
TEHR	30	0914	0927	0916	S12	E38	.660	11012	2.2	13	-N	C		.28				
MEUD	30	0915	0926	0917	S13	E37	.653	11012	2.2	11	-F	C	0917	.41	.50			
CRON	30	0915	0927	0916	S14	E36	.646	11012	2.1	12	-N	1 C	0916	.22	.28			
CANR	30	0915	0930	0919	S17	E44	.749	11012	2.7	15	-N	1 C	0919	.21	.33			
ZURI	30	0916	0928	0916	S13	E35	.629	11012	2.0	12	-N	C	0916	.75	1.00			
MONT	30	0916	0926	0918	S12	E39	.671	11012	2.3	10	-N	C	0918	1.13				
HTPR	30	0917	0928	0921	S14	E38	.670	11012	2.2	11	-F	C	0921	.10	.10			
GRP34479	30	1004	1016	1006	N16	W25	.455	11002	28.5	12	--N			.82				7 6 5 10
CANR	30	1002	1017	1003	N15	W24	.435	11002	28.6	15	-N	2 C	1003	.75	.84			
MONT	30	1003	1021	1005	N17	W25	.461	11002	28.5	18	-N	C	1005	1.13				
ZURI	30	1004	1012	1006	N16	W26	.469	11002	28.5	8	-N	C	1006	.79	.90			
HTPR	30	1004	1015	1005	N16	W25	.455	11002	28.5	11	-F	C	1005	.41	.40			E
MEUD	30	1004	1011	1005	N16	W25	.455	11002	28.5	7	-F	C						E
CRON	30	1005	1018	1007	N15	W24	.435	11002	28.6	13	-N	V		1.03				
CAPS	30	1006E	1019D		N15	W15	.310	11002	29.3	13D	-F	3 V	1008	.70	.80		158	
GRP34481	30	1049	1107	1053	N15	W28	.492	11002	28.4	18	-N			1.28				10 9 8 11
CANR	30	1046	1109	1053	N14	W28	.487	11002	28.3	23	-N	2 C	1053	.86	.98			
RAMY	30	1046E	1114	1050U	N16	W28	.496	11002	28.3	28D	-N	V		.62				DE
TEHR	30	1047	1110	1049	N14	W26	.459	11002	28.5	23	-F	C		.28				DE
MONT	30	1047	1107	1054	N15	W29	.505	11002	28.3	20	1B	C	1054	2.58				
HTPR	30	1048	1104	1053	N14	W28	.487	11002	28.3	16	-F	C	1053	.62	.70			
CATA	30	1050	1110	1055	N15	W27	.478	11002	28.4	20	-B	V	1055	.93	1.05		204	E
ZURI	30	1052	1102	1056	N14	W28	.487	11002	28.4	10	-N	C	1055	1.26	1.40			
WEND	30	1052	1108		N15	W27	.478	11002	28.4	16	1N	P		3.09				
MEUD	30	1052E	1102		N15	W28	.492	11002	28.4	10D	-F	C						
CAPS	30	1052E	1107D		N15	W15	.310	11002	29.3	15D	-N	3 V	1053	.70	.80		170	
GRP34482	30	1140	1154	1144	S09	E36	.621	11012	2.2	14	--F			.49				6 6 4 11
CANR	30	1138	1155		S09	E37	.634	11012	2.3	17	-N	2 V			.30			
HTPR	30	1140	1152	1142	S10	E38	.650	11012	2.3	12	-F	C	1142	.52	.60			
MEUD	30	1140	1150	1144	S10	E36	.625	11012	2.2	10	-F	C	1144	.31	.40			E
WEND	30	1141	1151		S10	E36	.625	11012	2.2	10	-N	V						
CAPS	30	1142E	1152D		S09	E34	.595	11012	2.0	10D	-F	3 V	1147	.70	.90			C
RAMY	30	1145E	1204	1147	S08	E32	.564	11012	1.9	19D	-F	V		.41				DE
GRP34484	30	1206	1236	1215	N15	W30	.519	11002	28.3	30	--F			.78				3 2 2 11
MONT	30	1204	1238	1214	N15	W30	.519	11002	28.3	34	-N	C	1214	1.13				
CANR	30	1208	1234	1215	N14	W30	.515	11002	28.3	26	-F	2 C	1215	.43	.50			
RAMY	30	1225	1242	1228	N16	W30	.524	11002	28.3	17	-F	V		.62				DE
GRP34485	30	1208	1227	1212	S09	E35	.608	11012	2.1	19	--F			.47				4 4 4 11
RAMY	30	1205	1227	1209	S07	E33	.572	11012	2.0	22	-N	V		.52				DE
CANR	30	1209	1230	1212	S10	E35	.613	11012	2.1	21	-N	2 C	1212	.32	.41			
HTPR	30	1211	1225	1214	S10	E38	.650	11012	2.4	14	-F	C	1214	.52	.60			
CAPS	30	1214E	1220D		S09	E34	.595	11012	2.1	6D	-F	2 V	1215	.50	.70		140	C
GRP34486	30	1214	1229	1218	S10	W48	.766	11000	26.9	15	--F			.32				4 4 2 11
CANR	30	1214	1225	1217	S10	W48	.766	11000	26.9	11	-F	2 C	1217	.32	.51			
WEND	30	1214	1225		S10	W47	.755	11000	27.0	11	-N	V						
RAMY	30	1216E	1240	1219U	S09	W48	.763	11000	26.9	24D	-F	V		.31				DE
CAPS	30	1217E	1227D		S09	W49	.774	11000	26.8	10D	-F	2 V						C
GRP34487	30	1243	1254	1244	N15	W15	.310	11002	29.4	11	--N			.72				8 8 7 12
MONT	30	1241	1250	1243	N15	W15	.310	11002	29.4	9	-N	C	1243	.77				
CANR	30	1242	1249	1244	N14	W14	.287	11002	29.5	7	-N	2 C	1244	.43	.43			
RAMY	30	1242	1250	1243	N17	W16	.342	11002	29.3	8	-N	V		.31				DE
TEHR	30	1242	1300	1243	N15	W15	.310	11002	29.4	18	-F	C		.28				DE
HTPR	30	1243	1247	1244	N15	W15	.310	11002	29.4	4	-F	C	1244	.41	.40			
CAPF	30	1244E	1315D		N15	W22	.407	11002	28.9	31D	1N	P	1246	2.27	2.53			
ZURI	30	1244	1249	1244	N15	W14	.297	11002	29.5	5	-N	C	1244	.59	.60			
CAPS	30	1245E	1253D		N16	W12	.282	11002	29.6	8D	-N	2 V						
GRP34488	30	1244	1312	1253	N14	W29	.501	11002	28.4	28	--N			.86				8 8 8 12
ZURI	30	1208	1316	1252	N14	W28	.487	11002	28.4	68	-N	C	1252	.95	1.10			
CATA	30	1235E	1315	1255	N14	W29	.501	11002	28.3	40D	-B	V	1255	.87	1.00		436	
MONT	30	1238	1340	1253	N15	W29	.505	11002	28.4	62	-N	C	1253	2.06				
HTPR	30	1249	1305	1255	N14	W30	.515	11002	28.3	16	-F	C	1255	.72	.80			E
TEHR	30	1250	1307	1252	N14	W28	.487	11002	28.4	17	-F	C		.32				DE
CANR	30	1250	1305	1254	N13	W29	.497	11002	28.4	15	-F	1 C	1254	.43	.50			
RAMY	30	1251	1305	1252	N16	W30	.524	11002	28.3	14	-N	V		.52				DE
CAPS	30	1253E	1306D		N15	W26	.463	11002	28.6	13D	-N	2 V	1254	1.00	1.10		164	

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OBSERVATORY	OBSERVED UT			LOCATION				DURATION	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS				
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE				MCMATH PLAGE REGION	CMP DAY	MIN.	TIME UT		MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _α	MAX. INT. %
GRP34489	30	1255	1310	1257	S09	E34	.595	11012	2.1	15	-B							10 10 10 12	
CATA	30	1250	1310	1255	S09	E35	.608	11012	2.2	20	-B		1255	.98	1.25		232		
ZURI	30	1254	1312	1258	S09	E34	.595	11012	2.1	18	-B	C	1258	1.26	1.60				
CANR	30	1255	1310	1257	S10	E35	.613	11012	2.2	15	-N	2	C	1257	.75	.95			
RAMY	30	1255	1308D	1257	S07	E32	.559	11012	1.9	13D	-B	V		.83					
TEHR	30	1256	1309	1257	S09	E34	.595	11012	2.1	13	-B	C		.64				DE	
CAPE	30	1256	1310	1259	S10	E35	.613	11012	2.2	14	-N	C	1259	1.16	1.50			H	
HTPR	30	1257	1307	1258	S10	E35	.613	11012	2.2	10	-B	C	1258	1.55	1.80				
WEND	30	1258	1311		S10	E35	.613	11012	2.2	13	1N	V		3.09					
CAPS	30	1259E	1308D		S09	E34	.595	11012	2.1	9D	-B	2	V	1300	.50	.60		237	H
CAPF	30	1300E	1315D		S10	E33	.587	11012	2.0	15D	-N	P	1304	1.44	1.82			H	
GRP34490	30	1353	1405	1358	N21	W09	.319	11002	29.9	12	--N			.42				3 3 2 10	
CANR	30	1345	1409		N18	W14	.328	11002	29.5	24	-N	2	V		.20				
RAMY	30	1356E	1403	1357	N23	W08	.341	11002	30.0	7D	-F	V		.21				DE	
ZURI	30	1357	1402	1358	N21	W05	.294	11002	30.2	5	-N	C	1358	.63	.60				
GRP34493	30	1423	1432	1424	S12	E35	.623	11012	2.2	9	--N			.49				4 4 3 12	
RAMY	30	1421	1432D	1424	S11	E32	.580	11012	2.0	11D	-N	V		.52					
MCMA	30	1422	1430	1424	S13	E36	.641	11012	2.3	8	-N	C	1424	.31	.40			DE	
ZURI	30	1424	1432	1424	S13	E35	.629	11012	2.2	8	-N	C	1424	.63	.80			E	
BOUL	30	1425	1432	1425	S12	E35	.623	11012	2.2	7	-N	1	V						
11 STATIONS REPORTING GROUP 34494. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34494	30	1433	1504	1437	N15	W29	.505	11002	28.4	31	-N			1.65				6 6 5 12	
CATA	30	1430	1520D	1435	N15	W30	.519	11002	28.4	50D	-B		1435	.63	.74		209		
MEUD	30	1431	1441		N15	W31	.533	11002	28.3	10	-N	C	1441	.62	.70			E	
BOUL	30	1431	1510	1436	N15	W30	.519	11002	28.4	39	-N	1	V						
WEND	30	1434	1506		N14	W29	.501	11002	28.4	32	1N	V		3.09					
CAPS	30	1435E	1500D		N15	W27	.478	11002	28.6	25D	1N	2	V	1440	2.00	2.20		170	C
LOCA	30	1435	1505D	1440	N14	W29	.501	11002	28.4	30D	1N	V	1440	1.89	2.20				
34494	30	1432	1509	1450	N15	W29	.505	11002	28.4	37	*-B			1.27				6 6 6 11	
HTPR	30	1431	1505D	1450	N14	W30	.515	11002	28.4	34D	-B	C	1450	1.55	1.80				
MCMA	30	1432	1514	1448	N17	W22	.421	11002	29.0	42	-N	C	1448	1.13	1.20			E	
ZURI	30	1432	1506	1450	N14	W29	.501	11002	28.4	34	-B	C	1450	1.58	1.80				
RAMY	30	1433E	1511	1449	N15	W31	.533	11002	28.3	38D	-B	V		1.55				F	
MEUD	30	1451E	1453D		N15	W31	.533	11002	28.3	2D	-N	C	1451	.72	.80			E	
CANR	30	1451E	1506	1451U	N13	W30	.512	11002	28.4	15D	-N	2	C	1451	1.08	1.26			
GRP34495	30	1442	1450	1444	N21	E60	.869	11014	4.1	8	--N			.44				4 4 2 11	
BOUL	30	1442	1448	1443	N20	E55	.825	11014	3.7	6	-F	1	V						
MCMA	30	1442	1451	1444	N21	E60	.869	11014	4.1	9	-N	C	1444	.26	.50			EH	
RAMY	30	1442E	1448	1445	N22	E63	.893	11014	4.3	6D	-N	V		.62				DE	
CANR	30	1442	1452		N20	E60	.868	11014	4.1	10	-N	2	V		.70				
GRP34496	30	1443	1456	1449	N02	W31	.516	11015	28.3	13	--F			.21				4 4 1 11	
BOUL	30	1442	1453	1448	N02	W29	.486	11015	28.4	11	-F	1	V						
MCMA	30	1443	1455	1449	N01	W31	.518	11015	28.3	12	-F	C	1449	.21	.30			DL	
CANR	30	1445	1456		N01	W35	.576	11015	28.0	11	-N	2	V		.50				
RAMY	30	1447E	1501		N05	W29	.483	11015	28.4	14D	-N	V						DE	
GRP34497	30	1554	1616	1557	S13	E43	.722	11012	2.9	22	-N			.72				4 4 2 5	
CANR	30	1552	1614	1556	S14	E47	.768	11012	3.2	22	-N	2	V		1.20				
RAMY	30	1553	1610	1557	S13	E45	.744	11012	3.0	17	-F	V		1.03				U	
MCMA	30	1554	1617	1558	S13	E36	.641	11012	2.4	23	-N	C	1558	.41	.50			EL	
BOUL	30	1556	1622	1557	S12	E44	.729	11012	3.0	26	-N	1	V						
GRP34498	30	1618	1629	1621	S12	E32	.586	11012	2.1	11	--F			.38				3 3 3 4	
RAMY	30	1615	1633	1619	S10	E31	.561	11012	2.0	18	-F	V		.52				DE	
MCMA	30	1619	1628	1621	S12	E33	.599	11012	2.2	9	-F	C	1621	.31	.40			EH	
BOUL	30	1620	1626	1624	S13	E33	.605	11012	2.2	6	-N	1	C	1624	.22	.27			
GRP34499	30	1654	1714	1704	S11	E34	.605	11012	2.3	20	--F			.27				2 2 1 5	
BOUL	30	1654	1709	1702	S10	E31	.561	11012	2.0	15	-F	1	V						
BOUL	30	1705	1709	1706	S12	E35	.623	11012	2.3	4	-F	1	V						
PALE	30	1706E	1712	1706E	S13	E34	.617	11012	2.3	6D	-N	C		.27				DE	
BOUL	30	1709	1715	1710	S08	E35	.603	11012	2.3	6	-F	1	V						
GRP34500	30	1729	1737	1731	N15	W16	.323	11002	29.5	8	--N			.31				3 3 1 4	
RAMY	30	1728E	1739	1730	N17	W15	.329	11002	29.6	11D	-N	V		.31				DE	
LOCK	30	1729	1737	1732	N14	W15	.301	11002	29.6	8	-F	C							
BOUL	30	1729	1734	1731	N14	W17	.329	11002	29.5	5	-N	1	V						

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	
GRP34501	30	1737	1749	1741	N15	W31	.533	11002	28.4	12	--N						5 5 3 5
LOCK	30	1733	1741	1736	N12	W25	.435	11002	28.9	8	-F	C					
BOUL	30	1735	1749	1739	N15	W35	.587	11002	28.1	14	-N	1 V					
RAMY	30	1736	1745	1739	N13	W31	.526	11002	28.4	9	-B	V			.62		DE
LOCK	30	1737	1752	1740	N14	W33	.557	11002	28.3	15	-N	C					
MCMA	30	1738	1749	1740	N17	W25	.461	11002	28.9	11	-N	C	1740	.83	.90		E
PALE	30	1744E	1750	1746U	N15	W34	.574	11002	28.2	6D	-N	C			.36		F
GRP34502	30	1743	1751	1745	N16	W18	.359	11002	29.4	8	--F						4 4 2 5
LOCK	30	1741	1749	1745	N15	W17	.337	11002	29.5	8	-F	C					
RAMY	30	1743	1749	1745	N17	W17	.355	11002	29.5	6	-N	V			.31		DE
BOUL	30	1743	1755	1745	N14	W19	.358	11002	29.3	12	-F	1 V					FH
PALE	30	1744	1752	1745	N16	W17	.346	11002	29.5	8	-N	C			.45		
GRP34507	30	2020	2032	2022	S13	E30	.568	11012	2.1	12	--N					.53	3 3 2 3
RAMY	30	2020E	2029	2020E	S10	E28	.522	11012	1.9	9D	-N	V			.62		DE
BOUL	30	2020	2038D	2023U	S14	E31	.587	11012	2.2	18D	-N	1 C	2034	.43	.53		
LOCK	30	2020	2030	2024	S14	E31	.587	11012	2.2	10	-N	C					
GRP34508	30	2049	2201	2050	N11	W24	.416	11002	29.1	72	--F					.62	2 2 1 2
RAMY	30	2048E	2058	2048E	N12	W26	.450	11002	28.9	10D	-N	V			.62		DE
BOUL	30	2049	2201	2052	N10	W22	.382	11002	29.2	72	-F	1 V					
GRP34509	30	2051	2113	2058	N15	W34	.574	11002	28.3	22	--N					.62	2 2 1 2
BOUL	30	2051	2112	2058	N14	W32	.543	11002	28.5	21	-N	1 V					
RAMY	30	2055E	2114	2057U	N16	W35	.591	11002	28.2	19D	-N	V			.62		DE
	30	2123	2128	NO FLARE PATROL													
511 BOUL	30	2131	2140	2133	S11	E30	.555	11012	2.1	9	--F	1 V					2
512 BOUL	30	2155	2225	2200	S11	E30	.555	11012	2.2	30	--F	1 V					1
GRP34513	30	2249	2255	2251	S12	E30	.561	11012	2.2	6	-N				.88		3 3 2 5
MITK	30	2248E	2258	2251	S13	E30	.568	11012	2.2	10D	-N	C	2251	.93	1.10		E
BOUL	30	2249	2251	2250	S11	E30	.555	11012	2.2	2	-N	1 V					
CRON	30	2251	2255	2251	S13	E31	.580	11012	2.3	4	-N	V			.83		
GRP34515	30	2329	0011	2337	N15	W30	.519	11002	28.7	42	1B				5.74		4 4 3 4
CULG	30	2327	0025	2340	N17	W30	.528	11002	28.7	58	2B	C	2340	7.43	8.42		VZ
LOCK	30	2328	2350D	2337	N16	W31	.537	11002	28.7	22D	1B	C					
MITK	30	2329	2359	2335	N15	W30	.519	11002	28.7	30	1B	C	2335	4.23	4.90		F
VORO	30	2331	0009	2335	N13	W28	.483	11002	28.9	38	2N	C	2335	5.55	6.39	98	FJ
GRP34519	31	0349	0401	0349	N20	W13	.342	11002	30.2	12	--B				.80		4 4 4 5
MITK	31	0346	0358	0349	N20	W13	.342	11002	30.2	12	-N	C	0349	.83	.90		E
VORO	31	0347	0358	0349	N19	W12	.320	11002	30.3	11	-B	C	0349	1.38	1.44	85	EH
PALE	31	0348	0349D	0349D	N20	W14	.353	11002	30.1	1D	-N	C			.27		DE
CRON	31	0354	0406	0406	N21	W14	.365	11002	30.1	12	-B	V			.72		
GRP34520	31	0643	0657	0645	S11	E27	.515	11012	2.3	14	-F				1.08		2 2 2 3
TEHR	31	0642	0700	0645	S11	E27	.515	11012	2.3	18	-F	C			.36		DE
ABST	31	0643	0653	0645	S10	E26	.495	11012	2.2	10	1N	C	0645	1.80	2.10		E
GRP34521	31	0722	0757	0727	N17	W32	.556	11002	28.9	35	-N				1.21		4 4 4 6
TACH	31	0720	0751	0728	N17	W32	.556	11002	28.9	31	-N	C	0728	1.34	1.60	1.55	54
CATA	31	0720	0805D	0725	N17	W33	.569	11002	28.8	45D	-N	C	0725	1.04	1.26	188	E
TEHR	31	0720	0756	0729	N17	W32	.556	11002	28.9	36	-N	C			1.00		F
CRON	31	0727	0756	0756	N18	W30	.534	11002	29.1	29	-F	V			1.44		
GRP34522	31	0812	0845	0816	N17	W34	.582	11002	28.8	33	-N				1.84		4 4 4 7
TEHR	31	0811	0850	0814	N17	W32	.556	11002	28.9	39	-N	C			.55		DE
ZURI	31	0813	0827	0815	N17	W34	.582	11002	28.8	14	-N	C	0815	.97	1.20		
ABST	31	0814E	0845	0816	N17	W32	.556	11002	28.9	31D	1N	P	0816	2.43	2.90		FK
MONT	31	0815E	0857	0819	N17	W33	.569	11002	28.9	42D	1N	C	0819	3.40			
MONT	31	0826	0920	0846	N14	W41	.663	11002	28.3	54	-N	C	0846	.77			
GRP34525	31	0943	1000	0950	S10	E23	.456	11012	2.1	17	--N				.30		6 6 6 8
TEHR	31	0938	1001	0950	S10	E23	.456	11012	2.1	23	-N	C			.27		DE
MONT	31	0938	0959	0949	S09	E24	.461	11012	2.2	21	-N	C	0949	.52			
HTPR	31	0942	1001	0950	S09	E24	.461	11012	2.2	19	-F	C	0955	.31	.30		
CANR	31	0944	1000	0952	S10	E23	.456	11012	2.1	16	-F	2 C	0952	.22	.24		
CATA	31	0945	1000	0950	S10	E23	.456	11012	2.1	15	-N	C	0950	.17	.20	166	
CRON	31	0951	1001	0951	S11	E23	.464	11012	2.1	10	-N	V			.31		

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OBSERVATORY	OBSERVED UT			LOCATION					DURATION	IM-POR-TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION					CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H α
GRP34526	31	1023	1042	1030	S10	E23	.456	11012	2.2	19	--N							5 5 5 7
CATA	31	1020	1040	1030	S10	E23	.456	11012	2.2	20	-B		1030	.46	.52		219	
MONT	31	1021	1042	1029	S09	E24	.461	11012	2.2	21	1N	C	1029	2.58				
TEHR	31	1023	1045	1028	S10	E23	.456	11012	2.2	22	-N	C		.45				DE
HTPR	31	1025	1040	1032	S09	E24	.461	11012	2.2	15	-N	C	1032	.62	.70			E
CANR	31	1027	1041	1029	S10	E23	.456	11012	2.2	14	-N	2 C	1029	.54	.60			
GRP34528	31	1130	1156	1135	N14	W42	.675	11002	28.3	26	1N			2.14				6 6 6 6
RAMY	31	1125	1157	1135	N14	W42	.675	11002	28.3	32	1N	C		2.06				U
CANR	31	1130	1151	1133	N15	W42	.677	11002	28.3	21	-N	2 C	1133	1.29	1.69			
TEHR	31	1130	1201	1134	N12	W43	.684	11002	28.3	31	-B	C		1.67				DE
TEHR	31	1130	1201	1134	N12	W43	.684	11002	28.3	31	-B	C		.61				DE
CAPE	31	1131	1155	1136	N15	W43	.689	11002	28.3	24	1N	C	1136	1.51	2.10			
HTPR	31	1133	1144	1137	N14	W42	.675	11002	28.3	11	1N	C	1137	1.75	2.20			E
MONT	31	1136E	1208	1136	N15	W42	.677	11002	28.3	32D	1B	C	1136	4.54				
GRP34529	31	1149	1520	1228	S10	W62	.894	11000	26.8	211	-N			.62				4 2 2 9
RAMY	31	1149	1220	1154	S11	W65	.917	11000	26.6	31	-F	C		.41				DE
MONT	31	1206	1227D	1226	S11	W61	.888	11000	26.9	21D	-N	C	1226	.77				
CATA	31	1211E	1405	1230	S09	W63	.901	11000	26.8	114D	-N	C	1230	.46	1.06		178	
MCMA	31	1334E	1520	1343	S12	W63	.905	11000	26.8	106D	-N	C	1343	.41	1.00			EK
6 STATIONS REPORTING GROUP 34531. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP34531	31	1321	1340	1331	S10	E21	.430	11012	2.1	19	---N			.56				5 5 5 6
RAMY	31	1314	1343	1331	S08	E22	.427	11012	2.2	29	-N			.72				
CATA	31	1315	1340	1330	S11	E20	.426	11012	2.1	25	-N		1330	.52	.58		170	
CANR	31	1324	1339	1331	S11	E21	.439	11012	2.1	15	-N	1 C	1331	.43	.48			
HTPR	31	1330	1339	1332	S10	E21	.430	11012	2.1	9	-F	C	1332	.52	.60			E
MCMA	31	1334E	1340		S10	E20	.417	11012	2.1	6D	-N	P	1334	.62	.70			EL
34531	31	1314	1334	1317	S09	E22	.434	11012	2.2	20	*-F			.37				2 2 2 6
TEHR	31	1313	1324	1316	S10	E22	.443	11012	2.2	11	-N	C		.27				DE
RAMY	31	1314	1343	1317	S08	E22	.427	11012	2.2	29	-F	V		.46				DE
GRP34532	31	1447	1454	1450	S09	E21	.421	11012	2.2	7	--F			.36				2 2 2 5
RAMY	31	1446	1454	1449	S08	E21	.413	11012	2.2	8	-N	C		.41				DE
HTPR	31	1448	1453	1450	S10	E20	.417	11012	2.1	5	-F	C	1450	.31	.30			
GRP34533	31	1516	1605	1519	N19	E44	.711	11014	3.9	49	--F			.68				2 2 2 5
RAMY	31	1515	1537D	1518	N17	E43	.694	11014	3.9	22D	-F	C		.52				DE
MCMA	31	1517	1605	1519	N20	E45	.725	11014	4.0	48	-F	C	1519	.83	1.20			E
535 MCMA	31	1535	1600	1546	S12	W63	.905	11000	26.9	25	---N	C	1546	.36	.80			DT 3
GRP34536	31	1558	1613	1601	S09	E20	.408	11012	2.2	15	--F			.34				2 2 2 4
RAMY	31	1557	1612	1600	S08	E20	.399	11012	2.2	15	-F	C		.41				DE
MCMA	31	1558	1614	1602	S10	E20	.417	11012	2.2	16	-F	C	1602	.26	.30			E
GRP34537	31	1646	1715	1656	N17	W33	.569	11002	29.2	29	--F			.46				4 4 3 4
RAMY	31	1640	1721	1650	N18	W33	.573	11002	29.2	41	-N	C		.52				DE
MCMA	31	1649	1710	1658	N18	W33	.573	11002	29.2	21	-F	C	1658	.31	.40			D
LOCK	31	1650	1710	1654	N16	W34	.578	11002	29.2	20	-F	C						
PALE	31	1702E	1720	1703U	N16	W33	.565	11002	29.2	18D	-N	C		.55				
GRP34538	31	1653	1712	1658	N18	E45	.719	11014	4.1	19	--F			.52				2 2 1 4
RAMY	31	1651	1717	1657	N17	E43	.694	11014	3.9	26	-F	C		.52				DE
LOCK	31	1655	1706	1659	N18	E46	.731	11014	4.2	11	-F	C						
GRP34539	31	1815	1833	1819	S11	W67	.930	11000	26.7	18	--F			.62				2 2 1 3
LOCK	31	1815	1830	1820	S11	W65	.917	11000	26.9	15	-F	C						
RAMY	31	1815	1835	1818	S11	W68	.936	11000	26.7	20	-F	C		.62				DE
GRP34540	31	1825	1843	1835	N17	E45	.717	11014	4.1	18	--F			.38				2 2 2 3
PALE	31	1820	1845	1836	N16	E44	.703	11014	4.1	25	-F	C		.45				H
RAMY	31	1830	1841	1833	N18	E45	.719	11014	4.1	11	-F	C		.31				DE
GRP34541	31	1859	1914	1902	S09	E17	.369	11012	2.1	15	--F			.43				3 3 2 4
LOCK	31	1857	1912	1902	S10	E17	.379	11012	2.1	15	-F	C						
RAMY	31	1857	1910	1901	S08	E18	.373	11012	2.1	13	-F	C		.41				DE
PALE	31	1902	1920	1902U	S09	E17	.369	11012	2.1	18	-N	C		.45				
542 LOCK	31	1925	1950	1933	S12	E81	.991	11019	6.9	25	--F	C						3
543 RAMY	31	1931	1957D	1936	N16	W46	.726	11002	28.4	26D	--B	C		.41				DE 3
GRP34544	31	1940	1945	1941	S11	E20	.426	11012	2.3	5	--F			.31				2 2 1 3
RAMY	31	1939	1944	1940	S11	E20	.426	11012	2.3	5	-N	C		.31				DE
LOCK	31	1940	1946	1942	S11	E20	.426	11012	2.3	6	-F	C						

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MEMPH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %	
545 LOCK	31	2000	2015	2005	S16	E31	.600	11013	3.2	15	--F	C						2
GRP34546	31	2001	2041	2007	S09	E19	.395	11012	2.3	40	--F	C	.62					2 2 1 2
LOCK	31	2000	2015	2005	S09	E18	.382	11012	2.2	15	-F	C						
PALE	31	2002	2045	2008	S09	E18	.382	11012	2.2	43	-F	C	.62					
LOCK	31	2027	2037	2030	S10	E20	.417	11012	2.4	10	-F	C						
GRP34547	31	2004	2205	2007	N21	W22	.454	11002	30.2	121	--N	C	.62					2 2 1 2
LOCK	31	2003	2010	2006	N20	W22	.445	11002	30.2	7	-N	C						
PALE	31	2005	2205	2007	N22	W22	.463	11002	30.2	120	-N	C	.62					H
PALE	31	2005	2205	2015	N22	W22	.463	11002	30.2	120	-F	C	.45					
GRP34548	31	2048	2059	2050	S10	E20	.417	11012	2.4	11	--F	C	.72					2 2 1 2
LOCK	31	2047	2057	2050	S10	E20	.417	11012	2.4	10	-F	C						
PALE	31	2048	2100	2050	S09	E19	.395	11012	2.3	12	-F	C	.72					
GRP34549	31	2100	2120	2105	S09	E17	.369	11012	2.2	20	--N	C	.57					3 3 2 3
LOCK	31	2100	2115	2104	S10	E17	.379	11012	2.1	15	-F	C						
PALE	31	2102E	2130	2105	S09	E17	.369	11012	2.2	280	-N	C	.62					F
RAMY	31	2103E	2115	2105U	S08	E17	.359	11012	2.2	120	-N	C	.52					DE
550 LOCK	31	2102	2109	2105	N22	E62	.886	11018	5.5	7	--F	C						3
552 LOCK	31	2313	2340	2329	N17	E41	.670	11014	4.0	27	--F	C						3
553 LOCK	31	2342	2355	2345	N23	E62	.887	11018	5.6	13	--F	C						3

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.

"Remarks":

- | | |
|---|--|
| A = Eruptive prominence, base at >90°. | N = Continuous spectrum shows effects of polarization. |
| B = Probably the end of a more important flare. | O = Observations have been made in the calcium II lines H or K. |
| C = Invisible 10 minutes before. | P = Flare shows helium D ₃ in emission. |
| D = Brilliant point. | Q = Flare shows the Balmer continuum in emission. |
| E = Two or more brilliant points. | R = Marked asymmetry in H α line. |
| F = Several eruptive centers. | S = Brightening follows disappearance of filament (same position). |
| G = No spots visible in the neighborhood. | T = Region active all day. |
| H = Flare with high velocity dark surge. | U = Close and somewhat parallel bright filaments (or Y shape). |
| I = Very extensive active region. | V = Occurrence of an explosive phase. |
| J = Plage with flare shows marked intensity variations. | W = Great increase in area after time of maximum intensity. |
| K = Several intensity maxima. | X = Unusually wide H α emission. |
| L = Filaments show effects of sudden activation. | Y = Onset of a system of loop-type prominences. |
| M = White-light flare. | Z = Major sunspot umbra covered by flare. |

In the importance column "--" signifies the subflare has been confirmed by the ESSA 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
701001	0.00	23.8	701011	56.46	22.5	701021	5.74	21.1
701002	1.43	24.0	701012	0.00	23.8	701022	18.83	24.0
701003	38.15	24.0	701013	21.43	23.9	701023	31.17	24.0
701004	38.25	24.0	701014	66.88	24.0	701024	117.76	24.0
701005	28.87	24.0	701015	85.50	24.0	701025	31.76	24.0
701006	238.16	23.8	701016	28.63	24.0	701026	118.10	24.0
701007	42.55	24.0	701017	3.81	24.0	701027	53.13	24.0
701008	46.90	24.0	701018	17.09	23.2	701028	505.27	24.0
701009	10.61	24.0	701019	6.89	24.0	701029	21.79	23.6
701010	4.61	24.0	701020	8.78	24.0	701030	230.44	23.9
When no Flare Index is given, it is 0 for that day.						701031	57.95	24.0

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 OCT	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 Hg	MAX. INT. %		
758 PALE	01	0237E	0243	0239U	N13	W58	.842	10959	26.8	60	-N	V		.36				DE	4
760 BOUL	01	1440	1447D	1441	S10	W25	.500	10964	29.7	70	-N	2 C	1441	.22	.25				6
762 BOUL	01	1624	1647	1632	N22	W75	.959	10959	26.1	23	-N	2 C	1632	.32					5
763 BOUL	01	1743	1756	1743	S09	W27	.518	10964	29.7	13	-F	2 V							5
764 BOUL	01	1848	1857	1852	N14	E09	.199	10965	2.5	9	-F	2 C	1852	.32	.32				4
765 RAMY	01	1936	1949	1939	S12	E75	.974	10971	7.4	13	-F	C						DE	5
767 CRON	02	0516U	0529U	0517U	S08	W32	.575	10964	29.8	130	-F	1 C	0517	.11	.13				6
768 BOUL	02	1410	1418	1412	N18	W03	.203	10965	2.4	8	-F	3 V							4
769 BOUL	02	1424	1436	1426	N18	W03	.203	10965	2.4	12	-N	3 V							4
770 BOUL	02	1434	1557	1535	N18	W03	.203	10965	2.4	83	-N	3 V							4
771 BOUL	02	1439	1443	1440	N23	W75	.959	10959	27.0	4	-N	3 V							4
772 BOUL	02	1455E	1523	1503	N17	W03	.186	10965	2.4	280	-N	2 C	1503	.32	.32				4
773 BOUL	02	1530	1556	1535	N17	W03	.186	10965	2.4	26	-N	2 C	1535	.22	.22				4
776 BOUL	02	1748	1755	1752	N13	W05	.139	10965	2.4	7	-B	2 C	1752	.32	.32				5
781 BOUL	02	2157	2217	2205	S12	E57	.863	10971	7.2	20	-N	2 C	2205	.22	.41				4
782 BOUL	02	2208	2221	2212	N12	W83	.990	10959	26.7	13	-N	2 C	2212	.11					4
783 BOUL	02	2249	2337	2257	N18	W06	.221	10965	2.5	48	-N	2 C	2257	.22	.22				4
784 MANI	03	0052E	0113	0058	N13	W85	.994	10959	26.7	210	-N	1	0058	.31	.81				4
785 CRON	03	0136	0148	0140	S04	W48	.756	10964	29.5	12	-F	1 C	0140	.11	.17				5
786 KODA	03	0139E	0148		N15	W11	.236	10965	2.2	90	-N	P	0140	.99	.99			E	5
787 PALE	03	0250E	0259	0250E	N19	W08	.252	10965	2.5	90	-F	V		.15				DE	6
788 PALE	03	0317E	0342D	0317E	N19	W08	.252	10965	2.5	250	-N	V		.26					4
790 ABST	03	0403E	0420	0408	N17	W12	.270	10965	2.3	170	-N	P	0408	.90	.90			D	4
794 ABST	03	1027	1040	1035	S08	E47	.756	10971	7.0	13	-N	C	1035	.90	1.40		68	D	9
796 GATA	03	1335E	1350D	1340	N17	W17	.335	10965	2.3	150	-N		1340	.58	.62		166	T	6
798 RAMY	03	1424	1430	1428	N18	W62	.878	10962	28.9	6	-F	C		.31				DE	6
799 CAPS	03	1448E	1457D		N15	W18	.335	10965	2.3	90	-F	1 V						C	4
807 MCMA	03	1954E	1954D		N17	W20	.377	10965	2.3		-F	P	1954	.46	.50			E	4
811 MANI	03	2352E	0012	2355	S11	E42	.712	10971	7.1	200	-F	1	2355	.72	1.01				5
812 MANI	04	0043	0100	0048	S10	E40	.684	10971	7.0	17	-F	2	0048	.52	.73				5
814 KODA	04	0149E	0210		S11	E39	.677	10971	7.0	210	1N	P	0150	2.64	2.60			E	5
817 CRON	04	0310	0327		N22	W37	.628	10965	1.4	17	-F	V		.31					5
818 CRON	04	0513	0523D	0515	N19	W73	.950	10962	28.7	100	-F	1 C	0515	.11					5
819 MANI	04	0558E	0608		N18	W28	.494	10965	2.1	100	-N	1	0558	1.03	1.19				4
GRP33824	04	0725	0748	0734	S10	E37	.648	10971	7.1	23	-F			.81				2 2 2	7
MANI	04	0721	0756	0735	S11	E36	.642	10971	7.0	35	-F	2	0735	.72	.95				
ABST	04	0729	0740	0732	S09	E37	.643	10971	7.1	11	-N	C	0732	.90	1.20		60	D	
GRP33825	04	0731	0807	0735	S10	W62	.898	10964	29.7	36	-F			1.17				2 2 2	9
TEHR	04	0731	0813	0734	S10	W62	.898	10964	29.7	42	-F	C		1.10				FS	
MANI	04	0731	0800	0735	S10	W62	.898	10964	29.7	29	1F	2	0735	1.24	2.32				
826 MANI	04	0904	0916	0907	S10	E38	.660	10971	7.2	12	-F	2	0907	1.44	1.89				8
829 CAPS	04	1038E	1045D		N02	W02	.087	10975	4.3	70	-F	V	1041	.70	.70			H	5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
831 HTPR	04	1130	1140	1133	S13	E37	.665	10971	7.3	10	-N	C						5	
833 CATA	04	1515E	15300	1520	S11	E33	.605	10971	7.1	150	-N		1520	.63	.80		182	7	
835 BOUL	04	1800	1818	1805	S10	E28	.536	10971	6.9	18	-F	2 C	1805	.22	.26			4	
1 STATIONS REPORTING GROUP 33836.					3 STATIONS OBSERVING AND NOT REPORTING.														
836 PALE	04	1819	1916	1821	N18	E90	.999	10979	11.5	57	-B	C		.32				DE	4
836 PALE	04	1819	1916	1857	N18	E90	.999	10979	11.5	57	*-B	C		.13					4
838 LOCK	04	2318	2330	2322	S10	E27	.524	10971	7.0	12	-F	C						6	
841 PALE	05	0126	0144	0132	N18	W37	.613	10965	2.3	18	-F	C		.19				DE	4
842 CULG	05	0247	0321	0300	S07	W70	.946	10964	29.9	34	1N	C	0300	.67				6	
843 MANI	05	0348	0416	0350	N16	E86	.995	10979	11.6	28	-N	2	0350	.41	1.18			7	
845 KODA	05	0521	0527		N18	W38	.626	10965	2.4	6	-N	P	0522	1.23	1.20			CE	7
847 CRON	05	0908	0914		N18	W39	.639	10965	2.5	6	-F	2 V		.31				10	
GRP33848	05	0921	0934	0924	N12	W55	.814	10965	1.3	13	-N			.31				2 2 2 10	
MONT	05	0921	0932	0924	N11	W56	.824	10965	1.2	11	-N	C	0924	.21				H	
CRON	05	0928	0935		N12	W53	.794	10965	1.4	7	-N	2 V		.41					
849 MONT	05	0944	0954	0948	S08	W49	.777	10974	1.7	10	-N	C	0948	1.13				10	
850 BOUL	05	1521	1530	1524	N16	E80	.980	10979	11.6	9	-N	1 C	1524	.22				4	
858 CRON	06	0213	0225		N15	W50	.763	10965	2.3	12	-F	2 V		.31				5	
862 CRON	06	0630	0639		S21	E13	.504	10971	7.2	9	-F	2 V		.41				6	
864 CRON	06	0955	1003		S21	E13	.504	10971	7.4	8	-F	2 V		.31				13	
866 CAPS	06	1145E	11580		N20	W44	.704	10965	3.2	130	-F	V	1147	.50	.70			7	
870 CRON	06	2304	2316	2304	S06	W18	.372	10969	5.6	12	-F	2 V	2304	.31				3	
873 CAPS	07	0810E	08530		S08	W70	.947	10974	2.1	430	1F	V	0811	1.65				10	
874 CAPS	07	0811E	08300		N18	W70	.934	10965	2.1	190	1N	V	0820	1.75			164	11	
877 CAPF	07	0930E	0950		N19	W70	.934	10965	2.1	200	-N	P	0934	.62				7	
881 CANR	07	1310	1320	1313	S12	E66	.928	10982	12.5	10	-F	1 C	1313	.21				9	
892 PALE	08	0102	0121	0107	N15	W81	.984	10965	2.0	19	-F	C		.32				6	
893 PALE	08	0103	0119	0109	S13	W13	.395	10971	7.1	16	-N	C		.23				5	
894 CRON	08	0130	0137	0134	S11	W15	.389	10971	6.9	7	-F	1 C	0134	.11	.12			5	
895 PALE	08	0140	0148	0142	S13	W20	.465	10971	6.6	8	-N	C		.40				F	6
896 CRON	08	0236	0243	0238	N18	W80	.980	10965	2.1	7	-F	1 C	0238	.22				6	
897 PALE	08	0248	0256	0249	N18	E49	.756	10979	11.8	8	-N	C		.13				7	
GRP33898	08	0250	0311	0255	N16	W84	.991	10965	1.8	21	-F			.22				2 2 1 7	
SIBE	08	0247E	0320		N14	W85	.994	10965	1.7	330	1F	V						CD	
CRON	08	0253	0302	0255	N17	W83	.989	10965	1.9	9	-F	1 C	0255	.22					
902 MANI	08	0514	0527	0516	N18	W81	.983	10965	2.1	13	-N	2	0516	.21	.54			7	
GRP33905	08	0759	0803	0800	N18	W86	.995	10965	1.9	4	-N			.25				2 2 2 10	
TACH	08	0757	0800	0759	N17	W88	.998	10965	1.7	3	-N	C	0759	.27			64	D	
CATA	08	0800	0805	0800	N19	W83	.989	10965	2.1	5	-N		0800	.23			182		
GRP33910	08	1010	1035	1018	S10	W19	.423	10971	7.0	25	-F			1.24				2 1 1 8	
CAPF	08	1010	1035D	1018	S10	W19	.423	10971	7.0	250	-F	P	1018	1.24	1.38				
TEHR	08	1034	1053	1042	S13	W27	.546	10971	6.4	19	-F	C		.36				DE	
GRP33911	08	1029	1045	1035	S11	W20	.445	10971	6.9	16	-F			.80				2 2 2 9	
TEHR	08	1028	1045	1035	S12	W19	.444	10971	7.0	17	-F	C		.55				DE	
CATA	08	1030	1045D	1035	S10	W20	.435	10971	6.9	150	-N		1035	1.04	1.16		178		

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OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
998 TEHR	11	0947	0958	0948	S17 W48	.796	10971	7.8	11	-F	C		.28			DE	11
001 MCMA	11	1428	1443	1431	S13 E05	.339	10982	12.0	15	-F	C	1431	.41	.40		E	5
005 PALE	11	1657E	1713	1659	N18 E05	.221	10979	12.1	160	-F	V		.52				5
009 PALE	11	1916	1931	1918	N09 E03	.072	10979	12.0	15	-F	C		.23				5
011 PALE	12	0253	0319	0258	S11 W69	.944	10971	6.9	26	-F	C		.32			DE	6
GRP34012	12	0316	0331	0320	N11 E70	.935	10987	17.4	15	-N			.36			2 2 2 5	
PALE	12	0309	0331	0320	N12 E68	.922	10987	17.2	22	-B			.19				
PALE	12	0309	0331	0312	N12 E68	.922	10987	17.2	22	-N	C		.19			DE	
CRON	12	0323	0330		N10 E72	.947	10987	17.5	7	-F	2 V		.52				
GRP34015	12	0704	0720	0706	N21 W16	.367	10979	11.1	16	-F			.35			2 2 2 7	
TEHR	12	0702	0729	0705	N21 W16	.367	10979	11.1	27	-N	C		.28			F	
CRON	12	0705	0710	0706	N21 W15	.355	10979	11.2	5	-F	1 V		.41				
GRP34016	12	0816	0847	0819	N08 E64	.895	10987	17.1	31	-F			.64			2 2 2 8	
TEHR	12	0816	0847	0819	N07 E60	.862	10987	16.8	31	-F	C		.55			F	
CRIM	12	0821E	0831D		N08 E68	.923	10987	17.4	100	-F	P	0823	.72			D	
GRP34017	12	1142	1211	1147	N05 E54	.806	10987	16.5	29	-F			.78			2 2 2 12	
RAMY	12	1139	1207	1148	N05 E55	.816	10987	16.6	28	-F	C		.72			DE	
TEHR	12	1144	1215	1146	N05 E52	.785	10987	16.4	31	-F	C		.83			FDE	
018 RAMY	12	1200	1227	1208	S13 W07	.347	10982	12.0	27	-N	C		.62			DE	11
019 UCCL	12	1235	1240	1235	N05 E55	.816	10987	16.6	5	-F	C	1235	.52			DJ	12
GRP34020	12	1236	1249	1237	N10 E65	.902	10987	17.4	13	-F			.40			2 2 2 13	
TEHR	12	1234	1248	1236	N10 E65	.902	10987	17.4	14	-N	C		.28			DE	
UCCL	12	1237	1250	1237	N10 E65	.902	10987	17.4	13	-F	C	1237	.52			E	
021 WEND	12	1300	1312		N03 E49	.754	10987	16.2	12	-N	V						13
GRP34022	12	1520	1530	1520	N04 E50	.764	10987	16.4	10	-N			.46			2 2 1 7	
CATA	12	1520	1530D	1520	N04 E50	.764	10987	16.4	100	-N		1520	.46	.75	162		
WEND	12	1520	1529		N03 E49	.754	10987	16.3	9	-N	V						
029 BOUL	12	2248	2310	2254	S11 W77	.980	10971	7.2	22	-N	1 C	2254	.43				4
030 PALE	12	2316E	2325D	2319U	N09 E46	.715	10987	16.4	90	-F	C		.45				6
032 CRON	13	0041	0049		N08 E60	.862	10987	17.5	8	-F	2 V		.62				3
034 CRON	13	0337E	0348	0339	N18 W11	.277	10979	12.3	11D	-N	1 C	0339	.22	.23			4
036 CATA	13	0620	0630	0620	N03 E41	.656	10987	16.3	10	-N		0620	.52	.70	166		4
037 CATA	13	0645	0715	0655	N04 E40	.641	10987	16.3	30	-N		0655	.69	.92	178		4
038 CATA	13	0715	0720	0715	S12 W17	.418	10982	12.0	5	-N		0715	.63	.71	182		6
4 STATIONS REPORTING GROUP 34039. 5 STATIONS OBSERVING AND NOT REPORTING.																	
GRP34039	13	1350	1403	1353	N01 E37	.605	10987	16.4	13	-F			.29			2 2 2 8	
CATA	13	1350	1400D	1355	N02 E37	.603	10987	16.4	100	-N		1355	.46	.59	170		
CANR	13	1350	1403	1351	S00 E37	.608	10987	16.4	13	-F	1 C	1351	.11	.14			
040 MONT	13	1412	1452D	1431	N03 E38	.616	10987	16.4	40D	-N	C	1431	.77				6
045 PALE	13	2032	2051	2037	N15 W83	.990	10000	7.6	19	-N	V		.19			DE	3
048 PALE	13	2301	2334	2305	N15 W84	.992	10000	7.7	33	-N	V		.23			DE	3
056 CATA	14	0715E	0735D	0720	N04 E29	.484	10987	16.5	20D	-N		0720	.29	.33	182		6
057 HTPR	14	0736	0744	0737	N05 E29	.483	10987	16.5	8	-F	C	0737	.21	.20		E	4
058 CAPS	14	0746E	0807D		N05 E28	.468	10987	16.4	21D	-F	1 V	0750	.80	.90	152		6
059 MONT	14	0811	0825	0812	N05 E28	.468	10987	16.4	14	1N	C	0812	3.09				7
060 MONT	14	0929	1026	0948	N10 E38	.613	10987	17.2	57	1N	C	0948	3.40				4
061 CATA	14	1015	1020	1015	S15 E39	.694	10989	17.4	5	-N		1015	.23	.33	158		4
062 MONT	14	1041	1055	1044	N05 E27	.452	10987	16.5	14	-N	C	1044	2.06				5

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	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %					
063	RAMY	14	1159E	1205	1159E	N08	E20	.341	10987	16.0	60	-F	V		.36				DE	6		
065	RAMY	14	1302	1313	1303	N12	E37	.602	10987	17.3	11	-F	C		.41				DE	6		
067	RAMY	14	1353	1408	1355	S12	E42	.713	10989	17.7	150	-F	C		.41				DE	4		
083	PALE	15	0218E	0233	0218E	N11	E30	.501	10987	17.3	150	-F	C		.23				F	4		
091	TEHR	15	0652	0718	0654	S12	E30	.571	10989	17.5	26	-F	C		.27				DE	7		
094	TEHR	15	0935	0952	0941	N11	E26	.442	10987	17.3	17	-N	C		.36				DE	8		
095	UCCL	15	0940	0945	0943	N06	E08	.138	10987	16.0	5	-F	C	0943	.52	.50			E	8		
099	TEHR	15	1257	1319	1300	N07	E23	.389	10987	17.3	22	-F	C		.64				DE	6		
101	TEHR	15	1335	1348	1339	N09	E14	.246	10987	16.6	13	-F	C		.45				DE	4		
105	PALE	15	1808	1826	1810	N11	E18	.318	10987	17.1	18	-F	C		.36				F	4		
114	BOUL	15	2219U	2225	2223	N04	E04	.077	10987	16.2	60	-N	1 C	2223	.22	.54				5		
118	PALE	16	0250E	0259	0254	S12	E23	.485	10989	17.8	90	-F	C		.27				F	6		
121	TEHR	16	0847	0909	0853	N07	E07	.123	10987	16.9	22	-N	C		.36				DE	8		
122	TEHR	16	0850	0930	0905	N21	E37	.628	10993	19.1	40	-F	C		.27				DE	8		
123	TEHR	16	0916	0936	0920	N11	E83	.990	10995	22.6	20	-N	C		.27				DE	9		
125	TEHR	16	1000	1023	1004	S08	W31	.557	10982	14.1	23	-N	C		.27				DE	8		
126	RAMY	16	1114	1133	1117	N10	E80	.982	10995	22.5	19	-F	C		.26				DE	9		
128	WEND	16	1246E	1306		N21	W70	.935	10979	11.3	200	2N	P		10.31					8		
130	RAMY	16	1427	1453	1431	N10	E79	.979	10995	22.5	26	-N	C		.31				DE	8		
131	RAMY	16	1504	1525	1507	N09	W03	.076	10987	16.4	21	-N	C		.83				DE	9		
132	BOUL	16	1520	1555	1525	N11	E18	.318	10987	18.0	35	1N	2 V							7		
133	RAMY	16	1716	1725	1718	N10	E80	.982	10995	22.7	9	-F	C		.41				DE	5		
134	BOUL	16	1741	1806	1746	N09	E05	.103	10987	17.1	25	-F	1 C	1746	.32	.32				4		
135	BOUL	16	1758	1815	1800	N03	W07	.131	10987	16.2	17	-F	2 V							4		
141	BOUL	16	2111	2126	2116	N10	E85	.995	10995	23.3	15	1N	2 V							3		
146	CRON	17	0350	0405	0356	N09	E71	.940	10995	22.5	15	-F	1 C	0356	.33					4		
147	CRON	17	0457	0509	0500	N09	E71	.940	10995	22.5	12	-F	1 C	0500	.22					4		
148	CRON	17	0807	0830	0813	N10	W02	.041	10987	17.2	23	-F	1 C	0813	.22	.21				8		
149	MONT	17	0931	0944	0937	S08	W45	.742	10997	14.0	13	-N	C	0937	.21					9		
150	CANR	17	1119	1126	1120	N10	E72	.945	10995	22.9	7	-N	3 V			.50				8		
151	RAMY	17	1148	1206	1154	N17	W76	.971	10979	11.6	18	-F	C						DE	7		
152	RAMY	17	1208	1305	1212	S14	W76	.981	10982	11.8	57	-F	C						DE	7		
153	RAMY	17	1254	1321	1258	N18	W80	.978	10979	11.5	27	-F	C						DE	8		
GRP34154		17	1405	1410	1407	N20	E11	.267	10993	18.4	5	-N			.37				2	2	2	9
	BOUL	17	1405	1410	1407	N19	E10	.244	10993	18.3	5	-N	1 C	1407	.43	.43						
	MCMA	17	1405	1409	1406	N20	E11	.267	10993	18.4	4	-N	C	1406	.31	.30			E			
159	LOCK	17	1931	1943	1934	N19	E83	.987	10996	24.0	12	-F	C							6		
161	MCMA	17	2108	2114	2109	N08	E08	.138	10992	18.5	60	-N	P	2109	.31	.30			E	3		
163	LOCK	17	2155	2210	2201	S13	W04	.376	10989	17.6	15	-F	C							4		
166	CRON	17	2213	2236		S11	W80	.990	10982	11.9	23	-F	V		.41					6		
167	PALE	17	2226	2341	2230	N09	E65	.900	10995	22.8	75	-F	C		.19					5		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	OMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %			
248 PALE	23	0157	0216	0208	N16	E31	.534	10998	25.4	19	*-N				.36					5
251 CRON	23	0608	0612	0610	N19	W63	.889	10993	18.5	4	-N	1	C	0610	.22	.47				5
252 CAPE	23	0800	0810	0803	N18	W67	.917	10993	18.3	10	1F		C	0803	1.21	2.60			H	8
253 CATA	23	0950	1000	0950	N18	E75	.962	11002	29.0	10	-N			0950	.29			158		9
254 RAMY	23	1112	1134	1113	N23	W10	.345	10995	22.7	22	-N		C		.52				DE	9
GRP34255	23	1114	1123	1115	N11	W22	.383	10995	21.8	9	-N				.49				2 2 2	9
TEHR	23	1112	1121	1114	N11	W22	.383	10995	21.8	9	-N		C		.45				DEH	
CATA	23	1115	11250	1115	N11	W22	.383	10995	21.8	100	-N			1115	.52	.57		166		
256 RAMY	23	1249	1304	1251	N12	E66	.910	11002	28.5	15	-F		C		.36				DE	6
257 CATA	23	1325	13400	1325	N10	E63	.887	11002	28.3	150	-N			1325	.23	.53		182		10
268 RAMY	23	1832	1842	1835	N18	E81	.984	11002	29.8	10	-F		C		.31				DE	4
273 MANI	24	0057	01020		N18	E76	.966	11002	29.7	50	-F	2		0100	.21	.49				3
278 CRON	24	0541	0548	0543	N13	E57	.836	11002	28.5	7	-F	1	C	0543	.22	.40				6
279 HTPR	24	0721	0731	0725	N10	E60	.863	11002	28.8	10	-F		C	0725	.41	.70				7
283 MONT	24	0900	0909	0901	N11	W30	.504	10995	22.1	9	-N		C	0901	.77					6
286 HTPR	24	1120	1135	1123	N11	E57	.835	11002	28.7	15	-F		C	1123	.52	.80				5
287 CANR	24	1142	1151	1144	N03	W82	.990	10992	18.3	9	-N	1	C	1144	.21					7
GRP34288	24	1146	1212	1150	N11	W34	.561	10995	21.9	26	-F				.39				2 2 2	7
TEHR	24	1142	1206	1147	N11	W30	.504	10995	22.2	24	-F		C		.36				DE	
RAMY	24	1149	1218	1152	N11	W37	.603	10995	21.7	29	-F		C		.41				DE	
291 CANR	24	1312	13220	1316	N10	E55	.816	11002	28.7	100	-N	2	C	1316	.11	.19				8
GRP34292	24	1314	1321	1316	N19	E73	.952	11002	30.0	7	-F				.29				2 2 2	8
TEHR	24	1313	13230	1315	N18	E72	.947	11002	30.0	100	-F		C		.36				DE	
CANR	24	1314	1318	1316	N19	E74	.957	11002	30.1	4	-N	2	C	1316	.21					
293 RAMY	24	1327E	13400	1327E	N13	W80	.982	10992	18.6	130	-N		V		.31				DE	9
294 MONT	24	1348	1405	1353	N16	E70	.936	11002	29.8	17	1N		C	1353	2.27					6
297 RAMY	24	1546	1600	1552	N16	E48	.746	11002	28.3	14	-F		C		.31				DE	6
GRP34298	24	1629	1656	1639	N14	E48	.744	11002	28.3	27	-F				1.13				2 2 2	5
SANM	24	1629	16590		N12	E49	.753	11002	28.4	300	1F	1	P	1634	1.94	2.95			E	
RAMY	24	1639E	1652	1639E	N15	E46	.722	11002	28.1	130	-N		V		.31				DE	
300 SANM	24	1745E	18180		N16	E68	.924	11002	29.8	330	2N	1	P	1750	3.24				E	6
301 RAMY	24	1805	1834	1809	N14	E48	.744	11002	28.4	29	-F		C		.41				DE	7
304 SANM	24	1857E	19250		N16	E68	.924	11002	29.9	280	1F	1	P	1925	1.56				E	4
307 PALE	24	2112E	2120	2112E	N15	E48	.745	11002	28.5	80	-N		C		.27				DE	5
308 PALE	24	2143	2320	2225	N14	E49	.755	11002	28.6	97	-F		C		.63				F	4
310 CRON	25	0147	0152	0148	N15	E08	.219	10998	25.7	5	-F	1	C	0148	.22	.21				4
317 MONT	25	0940	1026	0956	N17	E61	.873	11002	30.0	46	-N		C	0956	2.06					6
319 RAMY	25	1101	1115	1104	N13	W15	.289	10996	24.3	14	-F		C		.36				DE	7
322 RAMY	25	1749	1812	1754	N15	W90	1.000	10993	19.0	23	-N		C						DE	6
1 STATIONS REPORTING GROUP 34323.											5 STATIONS OBSERVING AND NOT REPORTING.									
323 RAMY	25	1804	1846	1807	N14	E54	.808	11002	29.8	42	-N		C		.93				DES	6
323 RAMY	25	1804	1846	1830	N14	E54	.808	11002	29.8	42	*-N		C		.62					6
324 RAMY	25	1819	1832	1821	N14	W19	.354	10996	24.3	13	-N		C		.31				DE	6
325 RAMY	25	1838	1901	1843	N15	W90	1.000	10993	19.0	23	-N		C						DE	6

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	DATE 1970 OCT	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. %	
2 STATIONS REPORTING GROUP 34326. 4 STATIONS OBSERVING AND NOT REPORTING.																			
326 RAMY	25	1941	2002	1945	S08	W08	.264	11000	25.2	21	-N	C		.62				DE	6
326 MCMA	25	1943	1951	1944	S09	E07	.271	11000	26.3	8	*-F	C	1944	.41	.40			E	6
331 CRON	26	0154	0202		N15	E54	.809	11002	30.1	8	-N	V		.31					5
334 TEHR	26	0524	0540	0525	S13	W08	.336	11000	25.6	16	-F	C		.28				DE	5
335 CATA	26	0610E	0620	0615	N16	E41	.665	11002	29.3	10D	-N		0615	.29	.39		178		5
339 RAMY	26	1051	1119	1053	N10	W63	.888	10995	21.7	28	-F	C		.21				DE	10
341 WEND	26	1145	1159		N13	E21	.378	11002	28.1	14	-F	V							10
342 WEND	26	1155	1215		N17	E31	.539	11002	28.8	20	-N	V							9
GRP34343	26	1213	1229	1221	N14	W63	.888	10995	21.8	16	-N			1.13				2 2 1 10	
MONT	26	1206	1228	1221	N13	W62	.880	10995	21.9	22	-N	C	1221	1.13					
WEND	26	1219	1229		N14	W64	.896	10995	21.7	10	-N	V							
344 HTPR	26	1220	1236	1232	N20	E32	.567	11002	28.9	16	-F	C	1232	.10	.10				8
358 CRON	27	0455	0508	0457	N15	E18	.348	11002	28.6	13	-N	1 C	0457	.33	.39				4
359 TEHR	27	0457	0514	0458	N14	E33	.556	11002	29.7	17	-F	C		.28				DE	4
GRP34363	27	0832	0858	0836	N09	E22	.378	11002	29.0	26	-F			.28				2 1 1 11	
TEHR	27	0832	0858	0836	N09	E22	.378	11002	29.0	26	-F	C		.28				DE	
CAPS	27	0837E	0845D		N14	E31	.528	11002	29.7	8D	-F	2 V	0841	1.00	1.20		142		
364 HTPR	27	0916	0925	0916	N21	E35	.610	11002	30.0	9	-F	C	0916	.21	.20				8
365 MONT	27	0923	0932D	0925	N19	W10	.295	11011	26.6	9D	-N	C	0925	1.13				H	10
367 MONT	27	0947	0959	0950	N14	W40	.649	10996	24.4	12	-N	C	0950	.21					9
368 MONT	27	1003	1030	1013	N14	W40	.649	10996	24.4	27	-N	C	1013	.52					7
369 MONT	27	1031	1046	1035	N14	W40	.649	10996	24.4	15	-N	C	1035	.21					8
GRP34370	27	1101	1109	1103	N10	W70	.937	10995	22.2	8	-F			.21				2 2 2 10	
MONT	27	1059	1111	1103	N10	W70	.937	10995	22.2	12	-N	C	1103	.21					
MEUD	27	1102	1107	1102	N10	W70	.937	10995	22.2	5	-F	C	1102	.21				D	
377 BOUL	27	1524	1542	1530	N23	E27	.526	11002	29.7	18	-F	2 C	1530	.54	.63				7
378 BOUL	27	1538	1545D	1540	N22	E28	.531	11002	29.8	7D	-F	2 C	1540	.22	.25				5
380 BOUL	27	1624	1639	1628	N19	W14	.336	11011	26.6	15	-F	1 C	1628	.43	.46				4
381 LOCK	27	1735	1752	1740	N22	E28	.531	11002	29.8	17	-F	C							7
383 PALE	27	1806	1814	1810	N21	E31	.561	11002	30.1	8	-F	C		.18					6
385 BOUL	27	1859	1918	1901	N14	W50	.767	10996	24.0	19	-F	2 V							5
387 BOUL	27	1920U	1930	1921U	S10	E75	.971	11012	2.4	10D	-N	1 C	1921	.11					5
393 PALE	27	2117E	2122	2118U	S09	E78	.982	11012	2.7	5D	-F	V		.15					3
401 CRON	28	0029	0037		N18	W18	.375	11011	26.7	8	-N	V		.41					3
407 CRON	28	0513	0527	0516	N15	W03	.184	11002	28.0	14	-F	1 C	0516	.33	.32				4
409 TEHR	28	0703	0711	0706	N15	W38	.626	10998	25.4	8	-F	C		.28				DE	5
GRP34412	28	0850	0900	0852	N23	E20	.447	11002	29.9	10	-F			.68				2 2 2 10	
MONT	28	0849	0856	0851	N23	E19	.436	11002	29.8	7	-N	C	0851	1.13				H	
CRON	28	0850	0903	0852	N22	E20	.437	11002	29.9	13	-F	1 C	0852	.22	.24				
413 RAMY	28	1101	1102D	1102D	N03	W04	.076	11015	28.2	1D	-F	C		.26				DE	11
GRP34414	28	1135	1149	1139	N15	E16	.322	11002	29.7	14	-F			.66				2 2 2 10	
RAMY	28	1135	1147	1139	N16	E15	.317	11002	29.6	12	-F	C		.62				U	
CAPS	28	1140E	1151D		N14	E16	.313	11002	29.7	11D	-F	3 V	1145	.70	.70				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
GRP34417	28	1420	1435	1426	N03	W06	.109	11015	28.1	15	-N						2 2 2 9	
CANR	28	1417	1435D	1424	N02	W06	.115	11015	28.1	18D	-N	2	C	1424	.32	.32		DE
RAMY	28	1422	1435D	1427	N03	W05	.092	11015	28.2	13D	-N		C		.36			
419 MONT	28	1440	1456D	1442	N15	W59	.856	10996	24.2	16D	-N		C	1442	.21			7
421 CANR	28	1615	1623		S12	E67	.932	11012	2.7	8	-F	2	V			.90		3
424 RAMY	28	1751	1805	1755	N03	W06	.109	11015	28.3	14	-F		C		.46			DE 4
425 PALE	28	1823E	1828	1823U	N19	E13	.326	11002	29.7	5D	-N		C		.19			4
426 PALE	28	1827	1844	1830	N16	W62	.881	10996	24.1	17	-N		C		.19			F 4
433 CRON	28	2311	2319		S12	E62	.898	11012	2.6	8	-F		V		.37			3
436 KODA	29	0149	0226		N04	W13	.225	11015	28.1	37	-N		C	0149	1.65	1.70		E 3
439 CRON	29	0322	0326	0324	N20	E11	.320	11002	30.0	4	-F	1	C	0324	.11	.11		6
442 MONT	29	0802E	0811	0806	N04	W17	.292	11015	28.1	9D	-N		C	0806	1.13			10
444 MONT	29	0906	0921	0910	N15	W49	.758	10998	25.7	15	-N		C	0910	1.55			9
445 MONT	29	0915	0926	0920	N15	W19	.364	11002	28.0	11	-N		C	0920	1.55			9
446 CRON	29	0927	1000		N12	W19	.345	11002	28.0	33	-F		V		.62			9
GRP34447	29	0934	0952	0939	N04	W17	.292	11015	28.1	18	-F		C		1.84			2 2 2 8
TEHR	29	0934	0955	0936	N04	W16	.275	11015	28.2	21	-F		C		.28			DE
MONT	29	0934	0949	0942	N04	W17	.292	11015	28.1	15	1N		C	0942	3.40			
448 MEUD	29	1122	1127	1122	N02	W21	.361	11015	27.9	5	-F		C	1122	.41	.40		10
450 MEUD	29	1146	1152	1146	N15	W13	.283	11002	28.5	6	-F		C	1146	.41	.40		E 8
452 MEUD	29	1202	1210	1203	N15	W13	.283	11002	28.5	8	-F		C	1203	.41	.40		E 8
GRP34453	29	1227	1248	1236	N04	W20	.341	11015	28.0	21	-F		C		.63			2 2 2 12
CATA	29	1220	1250	1235	N03	W20	.342	11015	28.0	30	-N		C	1235	.63	.68	174	DE
RAMY	29	1233	1245	1236	N04	W20	.341	11015	28.0	12	-F		C		.62			
454 RAMY	29	1304E	1315	1308	N05	W18	.308	11015	28.2	11D	-F		C		.31			DE 8
455 ZURI	29	1316	1346	1324	N04	W17	.292	11015	28.3	30	-N		C	1324	.53	.50		8
457 RAMY	29	1406E	1419	1408U	N05	W18	.308	11015	28.2	13D	-F		C		.41			DE 8
461 RAMY	29	1718	1730	1720	N22	E02	.299	11002	29.9	12	-N		C		.93			DE 4
465 BOUL	29	2020	2031	2022	S08	E57	.850	11012	3.1	11	-N	2	V					3
467 CRON	29	2319	2330		S12	E42	.707	11012	2.1	11	-N		V		.41			4
468 CULG	29	2333	0110	0021	S12	E52	.812	11012	2.9	97	1N		C	0021	2.68	4.42		4
470 CRON	30	0454	0503	0456	N14	W22	.401	11002	28.6	9	-N	1	C	0456	.22	.24		6
473 CATA	30	0710E	0745	0715	N15	W06	.207	11002	29.8	35D	-N		C	0715	.46	.47	162	6
GRP34478	30	0944	0949	0945	N15	W13	.284	11002	29.4	5	-N		C		.27			2 2 2 10
CANR	30	0940	0948	0942	N16	W12	.282	11002	29.5	8	-N	1	C	0942	.21	.21		
CRON	30	0947	0950D	0948	N14	W14	.287	11002	29.4	3D	-N	1	C	0948	.33	.32		
480 CRON	30	1019	1026	1020	N19	W49	.765	11011	26.8	7	-F		V		.52			11
483 CANR	30	1204	1210	1205	N15	W13	.284	11002	29.5	6	-F	2	C	1205	.22	.22		11
GRP34491	30	1406	1418	1409	N12	W23	.405	11002	28.9	12	-N		C		.58			2 2 2 10
CANR	30	1404	1420	1407	N11	W23	.401	11002	28.9	16	-N		V	1407	.54	.59		DE
RAMY	30	1407	1415	1410	N13	W22	.395	11002	28.9	8	-N		V		.52			
492 RAMY	30	1410	1423	1412	N05	W29	.483	11015	28.4	13	-N		V		.31			DE 11
503 PALE	30	1820E	1823D	1820E	S13	E35	.629	11012	2.4	3D	-N		C		.55			6
504 BOUL	30	1847	1900	1847	S11	E32	.580	11012	2.2	13	-F	1	V					5
505 PALE	30	1850E	1854	1850E	N12	E32	.537	11014	2.2	4D	-N		C		.36			6

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970 OCT	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
506 RAMY	30	1900E	1912D	1902U	N17	W31	.542	11002	28.5	120	-F	V		.21				DE 5
GRP34510	30	2126	2139	2130	N22	W11	.349	11002	30.1	13	-N							2 1 0 2
RAMY	30	2123E	2123		N23	W11	.362	11002	30.1		-B	V						F
BOUL	30	2128	2139	2130	N20	W10	.313	11002	30.1	11	-N	1 V						
514 CULG	30	2313	2331	2319	N25	E80	.982	11018	6.0	18	1N	C	2319	.62				4
516 PALE	31	0238	0300	0240U	S09	E27	.502	11012	2.1	22	-F	C		.45				5
GRP34517	31	0247	0310	0252	N18	W26	.482	11002	29.2	23	-F			.80				2 2 2 7
CRON	31	0247	0310	0248	N19	W25	.475	11002	29.2	23	-N	V		.72				
PALE	31	0255E	02590	0255E	N17	W26	.475	11002	29.2	40	-F	C		.88				
518 PALE	31	0346	0349D	0347	S13	E28	.543	11012	2.3	30	-N	C		.81				4
523 CRON	31	0835	0854	0836	S15	E36	.651	11012	3.1	19	-F	V		.52				9
524 TEHR	31	0930	1031	0931	N22	W19	.429	11002	30.0	61	-N	C		.45				DE 7
527 RAMY	31	1126	1138	1129	S08	E23	.440	11012	2.2	12	-N	C		.36				DE 6
530 RAMY	31	1251	1307	1253	S13	E90	1.000	11019	7.3	16	-N	C						DE 6
534 RAMY	31	1524	1534D	1527	S08	E21	.413	11012	2.2	100	-N	C		.31				DE 4
551 CRON	31	2237	2249		N18	W32	.560	11002	29.5	12	-F	V		.31				4