

SOLAR FLARES
Confirmed
APRIL 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
GRP28958 CULG CRON	01	0554	0620	0557	N16	E64	.922	10676	6.0	26	-F			.77				2 2 2 3
	01	0553	0622	0557	N14	E63	.912	10676	6.0	29	1N		C	0557	1.24			H
	01	0554	0617		N17	E64	.924	10676	6.0	23	-F	2	V		.30			
GRP28960 CAPE CANR ABST HTPR	01	1021	1047	1026	S11	E73	.952	10661	6.9	26	-N			1.16				4 3 2 5
	01	1021	1045	1027	S11	E73	.952	10661	6.9	24	-N		C	1027	.89	3.00		
	01	1021	1045	1026	S12	E73	.951	10661	6.9	24	-N	3	V		.60			
	01	1022	1050	1026	S09	E74	.958	10661	7.0	28	1F		C	1026	1.43			E
	01	1048	1127	1103	S12	E70	.934	10661	6.7	39	1B		C	1103	1.03	2.50		
GRP28961 CANR CAPE CATA	01	1159	1216	1200	N14	E64	.919	10676	6.3	17	-N			.82				3 3 2 7
	01	1155	1215	1157	N14	E66	.931	10676	6.4	20	-N	3	V		.60			
	01	1156	1207	1157	N15	E64	.920	10676	6.3	11	-N		C	1157	.94	2.40		
	01	1205	1225	1205	N13	E61	.896	10676	6.1	20	-B			1205	.69		257	
6 STATIONS REPORTING GROUP 28965. 3 STATIONS OBSERVING AND NOT REPORTING.																		
GRP28965 HUAN MONT CAPE MCMA	01	1407	1445	1416	N23	W68	.955	10647	27.5	38	-N			.74				4 4 4 8
	01	1402U	1415U	1415U	N21	W68	.952	10647	27.5	130	-F	2	C	1415	.37			D
	01	1407	1450D	1419	N23	W69	.959	10647	27.4	430	-N		C	1419	1.55			
	01	1408	1440	1418	N23	W68	.955	10647	27.5	32	-N		C	1418	.89	2.90		D
	01	1410	1423D	1413	N23	W68	.955	10647	27.5	130	-N		C	1413	.15	.50		
28965 RAMY BOUL	01	1413	1435	1428	N22	W67	.948	10647	27.6	22	*-N							2 2 0 8
	01	1413	1431		N21	W66	.942	10647	27.6	18	-N		C					DE
	01	1428E	1439	1428	N23	W67	.950	10647	27.6	110	-N		S					
GRP28967 RAMY BOUL CANR	01	1549	1619	1551	N05	W20	.392	10652	31.2	30	--N			.62				3 3 1 6
	01	1544	1605	1549	N04	W21	.398	10652	31.1	21	-F		C	.62				DE
	01	1547	1620	1552	N05	W19	.378	10652	31.2	33	-N		V					
	01	1555	1632		N06	W20	.400	10652	31.2	37	-N	3	V		.80			
969 BOUL	01	1931	2000	1932	N04	W21	.398	10652	31.2	29	--F		V	1932	.50			2
970 BOUL	01	2000	2017D	2009	N22	W70	.962	10647	27.6	170	--F		V					2
GRP28971 BOUL VORO	01	2145	2206	2147	N04	W21	.398	10652	31.3	21	-F		V	2147	1.57			2 1 1 3
	01	2145	2206	2147	N04	W21	.398	10652	31.3	21	-F		V	2147	.80			
	01	2158E	2221		N01	W28	.484	10652	30.8	230	-B		P	2200	1.57	1.75	77	EJ
972 CULG	01	2146	2159	2150	N23	W78	.989	10647	27.1	13	1B		C	2150	.98			3
GRP28973 MANI BOUL	01	2245	2256	2249	S11	E66	.908	10661	6.9	11	--F			.31				2 2 1 3
	01	2244	2256	2248	S10	E66	.909	10661	6.9	12	-N	1		.31	.62			
	01	2245	2256	2249	S12	E66	.908	10661	6.9	11	-F		V	2249	1.50			
974 CULG	01	2353	0033	2357	N14	E52	.824	10676	5.9	40	1N		C	2357	1.96	3.52		HRS 4
GRP28978 MANI CULG CRON	02	0413	0429	0416	N23	W76	.984	10647	27.5	16	1B			1.02				3 3 3 3
	02	0412E	0427D	0414	N25	W76	.985	10647	27.5	150	-B	1		.83	2.10			
	02	0414	0438	0417	N20	W75	.979	10647	27.6	24	1B		C	0417	1.03			
	02	0414	0423		N25	W78	.990	10647	27.3	9	1N	3	V	1.20				
GRP28980 ISTA CULG ABST CAPE	02	0639	0658	0643	N23	W75	.981	10647	27.7	19	-B			.87				4 4 3 7
	02	0639	0652	0644	N21	W70	.961	10647	28.0	13	-N							
	02	0639	0705	0644	N21	W75	.980	10647	27.7	26	1B		C	0644	.67			
	02	0639	0700	0642	N25	W75	.983	10647	27.7	21	1N		C	0642	.90			D
	02	0640	0655	0643	N24	W78	.990	10647	27.4	15	-B		C	0643	1.03			T
GRP28990 CANR SANM CANR RAMY HUAN LVOV CAPS	02	1143	1200	1146	N06	W34	.590	10652	30.9	17	-N			1.23				6 6 5 9
	02	1135	1140		N05	W32	.558	10652	31.1	5	-F	2	V		.20			
	02	1139	1206D		N06	W33	.577	10652	31.0	270	-B	2	P	1145	1.62	2.03		D
	02	1142	1156	1145	N05	W32	.558	10652	31.1	14	-N	2	V		.80			
	02	1143	1152	1145	N08	W33	.587	10652	31.0	9	-N		C		.72			F
	02	1145E	1155D	1147U	N06	W36	.616	10652	30.8	100	-F	2	C	1147	.45	.50		E
	02	1145	1217	1147	N06	W36	.616	10652	30.8	32	1N		C	1148	2.78	3.36	57	E
GRP28992 LVOV RAMY MONT SANM CAPE HUAN ABST CANR UCCL	02	1146E	1151		N07	W33	.582	10652	31.0	50	-B		V	1147	.60	.80	210	C
	02	1227	1255	1233	N07	W20	.408	10652	1.0	28	1N			3.21				9 8 7 9
	02	1210	1256	1234	N06	W20	.400	10652	1.0	46	1N		C	1234	4.95	5.05	68	E
	02	1222	1300	1235	N08	W20	.417	10652	1.0	38	1N		C		3.40			F
	02	1224	1233D	1233	N07	W20	.408	10652	1.0	90	1N		C	1233	4.54			
	02	1224E	1233D		N07	W20	.408	10652	1.0	90	1B	2	P	1233	4.53	4.91		EI
	02	1228	1250	1234	N08	W20	.417	10652	1.0	22	1N		C	1234	1.89	2.10		
	02	1229	1255	1231U	N08	W20	.417	10652	1.0	26	-N	2	C	1231	.45	.50		D
	02	1229	1252D	1233	N06	W20	.400	10652	1.0	23D	1N		P	1233	2.69	2.90		E
	02	1233	1258		N06	W18	.373	10652	1.2	25	-N	2	V		1.90			
02	1256E	1256D		N05	W22	.419	10652	31.9	1N		P	1256	2.06	2.50				

Note: Cinematographic film exists for BOUL, CANA and CRON, but has not been reduced. The flares from these stations in the above table for April 1970 are the visual flare reports.

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
					LAT.	MER. DIST.												
	APR																	
GRP28999	02	1757	1815	1800	N06	W37	.629	10652	31.0	18	-N			.93				4 4 2 5
BOUL	02	1757	1812	1800	N07	W36	.621	10652	31.0	15	-N	V	1800		.80			
RAMY	02	1757	1809	1800	N07	W38	.646	10652	30.9	12	-N	C		.72				F
CANR	02	1757	1818		N06	W36	.616	10652	31.0	21	-N	2 V						E
SANM	02	1758	1821	1759	N05	W36	.612	10652	31.0	23	-B	2 C		1.13	1.44			
GRP29003	02	2023	2116	2025	N08	W22	.443	10652	1.2	53	-F			.62				3 2 1 5
RAMY	02	2021	20240	2024	N08	W23	.456	10652	1.1	30	-F	C		.62				DE
BOUL	02	2024	2053	2026	N08	W20	.417	10652	1.3	29	-N	V	2026		1.00			
CULG	02	2028E	21160	2048	N08	W23	.456	10652	1.1	480	1N	P	2048	2.17	2.35			
005 BOUL	02	2135	2141	2138	N08	W36	.625	10652	31.2	6	--F	V	2138		.50			2
009 CRON	03	0030	0033		S10	E85	.994	10669	9.4	3	--N	2 V		.30				2
010 CRON	03	0030	0035		S14	E47	.729	10661	6.5	5	-N	2 V		.30				2
GRP29013	03	1022	1042	1027	N05	W46	.735	10652	31.0	20	-N			1.40				5 5 4 7
MONT	03	1019	10280	1026	N03	W45	.718	10652	31.1	90	-N	C	1026	2.27				
KHAR	03	1020	1038		N08	W46	.744	10652	31.0	18	1F	V	1023			2.10		E
HTPR	03	1021	10320		N05	W47	.747	10652	30.9	110	-N	C	1027	.72	1.00			
ABST	03	1022E	10330	1024	N04	W45	.721	10652	31.1	110	1N	P	1024	1.79	2.50			D
CATA	03	1030	10450	1030	N05	W46	.735	10652	31.0	150	-B		1030	.80	1.19		257	
GRP29016	03	1149	1220	1152	N07	W33	.582	10652	1.0	31	-N			1.54				4 4 3 5
CATA	03	1145	1235	1150	N07	W34	.595	10652	31.9	50	-B		1150	1.39	1.72		214	
RAMY	03	1147	1219	1154	N07	W33	.582	10652	1.0	32	-N	C		1.34				F
CAPS	03	1150E	12000		N07	W31	.555	10652	1.2	100	1N	2 S	1155	1.90	2.30		160	
CANR	03	1153	1205		N07	W33	.582	10652	1.0	12	-F	2 V		1.10				
022 MCMA	03	1716E	1729		N07	W37	.633	10652	31.9	130	--N	C	1718	.62	.80			E 3
023 RAMY	03	1716	1728	1719	N30	E62	.938	10664	8.4	12	--F	C		.26				DE 3
	03	2130	2139	NO FLARE PATROL														
GRP29031	04	1106	1140	1111	S08	E62	.879	10669	9.1	34	--F			.28				2 2 2 5
RAMY	04	1106	1140	1111	S06	E60	.863	10669	9.0	34	-F	C		.26				DE
CAPS	04	1109E	11400		S09	E64	.894	10669	9.3	310	-N	V	1112	.30			165	CD
7 STATIONS REPORTING GROUP 29034. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP29034	04	1159	1242	1207	S12	W04	.120	10654	4.2	43	1N			2.57				6 6 5 6
RAMY	04	1158	1242	1208	S13	W04	.134	10654	4.2	44	1N	C		2.17				F
CAPE	04	1158	1235	1207	S13	W05	.144	10654	4.1	37	1N	C	1207	2.59	2.60			
CANR	04	1159	1239		S13	W04	.134	10654	4.2	40	-N	3 V			1.70			
MONT	04	1200	12270	1207	S13	W03	.126	10654	4.3	270	1N	C	1207	3.61				
CAPS	04	1204E	12500		S12	W02	.104	10654	4.4	460	-B	V	1207	1.80	1.80		200	CGU
CAPF	04	1210E	12300		S07	W05	.087	10654	4.1	200	1N	C	1215	2.68	2.73			
29034	04	1204	1245 (1224)		S13	W03	.126	10654	4.3	41	*-B			2.43				2 2 2 7
CAPS	04	1204E	12500		S12	W02	.104	10654	4.4	460	-B		1224	3.30	3.30			W
MCMA	04	1222E	1240		S13	W04	.134	10654	4.2	180	-N	C	1223	1.55	1.60			E
GRP29036	04	1346	1427	1401	S09	E63	.886	10669	9.3	41	--F			.44				2 2 2 7
RAMY	04	1346	1430	1403	S08	E62	.879	10669	9.2	44	-F	C		.36				DE
MCMA	04	1346	1423	1359	S10	E63	.886	10669	9.3	37	-N	C	1359	.52	1.20			E
040 RAMY	04	1928	1932	1929	S09	E28	.467	10661	6.9	4	--N	C		.26				DE 3
GRP29044	04	2343	0015	2344	S11	E62	.878	10669	9.6	32	--N			.41				2 1 1 5
BOUL	04	2343	00150	2344	S11	E62	.878	10669	9.6	320	-N	V	2344		.80			
MANI	05	0007E	00210		S13	E58	.843	10669	9.4	140	-F	1	0009	.41	.72			
047 CULG	05	0121	0214	0136	N10	E47	.761	10670	8.6	53	1F	C	0136	1.75	2.63			3
GRP29049	05	0359	0419	0404	N02	W62	.887	10652	31.5	20	-B			1.23				2 2 2 2
CULG	05	0357	0428	0406	N02	W62	.887	10652	31.5	31	1B	C	0406	1.55	3.00			
CRON	05	0401	0410	0402	N02	W62	.887	10652	31.5	9	-N	3 V	0402	.90				
GRP29052	05	0633	0705	0636	N07	W56	.843	10652	1.1	32	1N			1.51				7 7 5 7
TEHR	05	0630	06550	0637	N03	W54	.816	10652	1.2	250	1N							
CULG	05	0631	07230	0638	N08	W57	.854	10652	1.0	520	2B	P	0638	2.68	6.48			SKR
MANI	05	0632	07040		N07	W57	.852	10652	1.0	320	-N	1	0638	.93	1.96			
CRON	05	0632	0705	0635	N06	W59	.867	10652	31.8	33	1N	3 V	0635	1.10				
TEHR	05	0632	06400	0637	N12	W53	.827	10652	1.3	80	2N	V						
ISTA	05	0634	0745	0637	N05	W55	.830	10652	1.1	71	-B							
BUCA	05	0635	0710	0636	N07	W55	.834	10652	1.1	35	-F	C	0636	1.10	1.90			
CATA	05	0635	0655	0635	N08	W55	.836	10652	1.1	20	1B		0635	1.73	3.11		285	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %		
					LAT.	MER. DIST.													
054 CRON	05	0905	0923		N10	E49	.782	10670	9.1	18	--N	3	V		.30				2
GRP29056	05	1140	1157	1144	N10	E47	.761	10670	9.0	17	-N				1.53			5 5 4 6	
	05	1136	1158	1141	N09	E49	.779	10670	9.2	22	1N		C	1141	3.09	4.95	55	D	
	05	1140	1202	1148	N11	E47	.765	10670	9.0	22	1N	2	C		1.62	2.47		E	
	05	1141E	11510		N10	E48	.772	10670	9.1	100	-N	2	V	1146	.80	1.30	175	C	
	05	1141	1153	1143	N10	E46	.751	10670	8.9	12	-N		C		.62			DE	
05	1143	1156		N11	E46	.754	10670	8.9	13	-F	1	V			.60				
GRP29057	05	1222	1238	1224	N29	E36	.760	10664	8.2	16	-N				1.25			7 7 5 7	
	05	1219	1249	1223	N30	E37	.775	10664	8.3	30	1N		C	1223	3.92	6.10	58	E	
	05	1220	1248	1224	N30	E33	.745	10664	8.0	28	-N		C		.52			DE	
	05	1222	1230	1223	N29	E36	.760	10664	8.2	8	-N		C	1223	.41	.60		E	
	05	1222	12230	1223	N29	E36	.760	10664	8.2	10	-B	3	V		.50				
	05	1223	1235	1226	N30	E35	.760	10664	8.1	12	-B	2	C		.80	1.20	3.00	EC	
	05	1223E	1231		N31	E36	.775	10664	8.2	80	1B		V	1224				CE	
	05	1225E	12320		N27	E36	.746	10664	8.2	70	-N	2	S	1229	.60	1.00	180	C	
	05	1339	1358	1343	N10	E45	.740	10670	8.9	19	-N				.56			4 4 3 7	
05	1252	1406	1342	N11	E46	.754	10670	9.0	74	-B	2	C		.32	.47		E		
05	1338	1358	1344	N09	E43	.713	10670	8.8	20	-N		C	1344	.52	.70		E		
05	1340	1358	1343	N10	E46	.751	10670	9.0	18	-N		C		.83		2.50	DE		
05	1340E	1351		N10	E46	.751	10670	9.0	110	1N		V	1344				CE		
GRP29060	05	1333	1436	1350	S12	E49	.751	10669	9.2	63	1N				2.12			5 5 4 7	
	05	1329	1444	1352	S13	E48	.740	10669	9.2	75	1B	2	C		3.24	4.74		EL	
	05	1332	1425	1350	S12	E51	.773	10669	9.4	53	-N	3	V			1.10			
	05	1334	1435	1350	S13	E48	.740	10669	9.2	61	1N		C	1350	1.29	2.10		E	
	05	1335	14300	1355	S13	E47	.728	10669	9.1	550	1B			1355	2.08	3.12	331	Z	
	05	1336	1445	1344	S11	E49	.750	10669	9.2	69	1N		C		1.86			F	
	05	1340	1605	1516	S11	E47	.727	10669	9.1	145	*2N				2.30			2 1 1 8	
05	1340E	1605		S11	E47	.727	10669	9.1	1450	2N		V	1516			2.80	CFHIK		
05	1358E	1440		S12	E48	.739	10669	9.2	420	1N	3	S	1404	2.30	3.10	196			
GRP29062	05	1508	1530	1511	N29	E33	.737	10664	8.1	22	-N				.66			7 7 5 7	
	05	1506	1525	1510	N29	E34	.745	10664	8.2	19	-B	2	C		.65	.95		E	
	05	1506	1518	1507	N30	E34	.753	10664	8.2	12	-F		C	1507	.41	.60		DE	
	05	1506	1535	1508	N30	E31	.731	10664	8.0	29	-F		C		.72				
	05	1508	15080		N28	E33	.729	10664	8.1		-F	1	V			.70	2.50	C	
	05	1510E	1537		N30	E32	.738	10664	8.0	270	1N		V	1513					
	05	1510	1535	1515	N29	E33	.737	10664	8.1	25	-B			1515	.80	1.19	219		
	05	1512	1528		N29	E35	.752	10664	8.3	16	-N		V	1514	.70	1.10	170		
GRP29063	05	1747	1757	1747	N29	E32	.730	10664	8.1	10	-N				1.13			5 5 3 5	
	05	1744	1758	1746	N29	E31	.722	10664	8.1	14	-N				.93			DE	
	05	1746	1755	1747	N30	E32	.738	10664	8.1	9	-B		C	1747	.83	1.20		EJ	
	05	1746	1753	1746	N29	E34	.745	10664	8.3	7	1B	2	C		1.62	2.37		EC	
	05	1749E	1804	1749	N28	E32	.721	10664	8.1	150	-N		S						
	05	1750	1757		N29	E32	.730	10664	8.1	7	-N	3	V			.70			
GRP29064	05	1911	1936	1915	N03	W66	.917	10652	31.8	25	-N				1.20			3 3 2 3	
	05	1910	1938	1916	N02	W67	.923	10652	31.8	28	1B	2	C		1.77			E	
	05	1912	1939	1914	S00	W67	.922	10652	31.8	27	-N		C	1914	.62	1.70			
	05	1912	1930	1914	N07	W63	.901	10652	1.1	18	-N		V						
GRP29071	06	0439	0448	0440	S15	E47	.730	10669	9.7	9	--F				.66			2 2 2 4	
	06	0437	0444	0440	S15	E48	.742	10669	9.8	7	-F		C	0440	.72	1.10		D	
	06	0441	0452		S15	E46	.719	10669	9.6	11	-F	3	V		.60				
GRP29072	06	0536	0639	0552	S15	W18	.337	10661	4.9	63	-F				2.58			3 2 2 4	
	06	0531	06590	0555	S15	W18	.337	10661	4.9	880	1N		P	0555	3.61	3.67			
	06	0541	0619	0549	S15	W18	.337	10661	4.9	38	-F		C	0549	1.55	1.60		E	
	06	0605E	0715		S17	W17	.339	10661	5.0	700	-F		P	0605	1.99	2.10		B	
29072	06	0608	0655	0625	S16	W16	.317	10661	9.4	47	*1N				1.83			3 3 3 8	
	06	0556	0640		S16	W09	.227	10661	5.6	44	1F	3	V		2.00				
	06	0620E	07150	0625	S16	W20	.373	10661	4.8	550	1B			0625	2.15	2.31	202	B	
	06	0622E	0651		S16	W20	.373	10661	4.8	290	-F	1		0625	1.34	1.44			
GRP29077	06	0850	0917	0857	S10	E41	.653	10669	9.4	27	-N				1.53			8 7 5 9	
	06	0849	0912	0851	S10	E41	.653	10669	9.4	23	-B	3	V	0851	1.20				
	06	0849	09270	0856	S09	E40	.639	10669	9.4	380	1F		P	0856	1.79	2.40		E	
	06	0850	0920	0900	S12	E40	.641	10669	9.4	30	-B			0900	1.51	1.97	309		
	06	0850	0916	0857	S11	E40	.640	10669	9.4	26	-N	1	V	0857	1.24	1.62		C	
	06	0850E	09000		S09	E44	.691	10669	9.7	100	-N			0858			2.10		
	06	0853E	0919	0901	S09	E39	.626	10669	9.3	260	1B		P	0901	1.90	2.50	220	C	
	06	0854	0917	0855	S10	E35	.571	10669	9.0	23	-B		V		.90		2.10		
	06	0855E	0907	0858	S09	E42	.665	10669	9.5	120	1F								

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OBSERVATORY	OBSERVED UT				LOCATION						DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAC REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
					LAT.	MER. DIST.													
8 STATIONS REPORTING GROUP 29084. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP29084	06	1140	1228	1152	S11	E35	.572	10669	9.1	48	1N			2.13				7 7 3 9	
RAMY	06	1139	1215	1152	S11	E36	.586	10669	9.2	36	1N	C		2.99				F	
CAPS	06	1140E	1236D		S09	E35	.570	10669	9.1	56D	-N	2 S	1144	.70	.90		210	C	
CANR	06	1140	1235	1144	S11	E35	.572	10669	9.1	55	1N	1 V			2.40				
ONDR	06	1141	1233	1156	S12	E38	.615	10669	9.3	52	2F	V	1156			1.90	CD		
TEHR	06	1145E	1215D		S10	E34	.557	10669	9.0	30D	2F	V							
HURB	06	1147E	1222D	1153	S10	E35	.571	10669	9.1	35D	1B					2.60			
ABST	06	1154E	1241D	1154	S11	E35	.572	10669	9.1	47D	1N	P	1154	2.69	3.40		E		
29084	06	1154	1236	1203	S11	E39	.627	10669	9.4	42	*1N			3.57				3 2 2 9	
CAPS	06	1153E	1236D		S10	E42	.665	10669	9.6	43D	1N	2 S	1210	3.00	3.90		180		
MONT	06	1155E	1215D	1203	S11	E35	.572	10669	9.1	20D	1N	C	1203	4.13					
CANR	06	1234	1234D		S14	E41	.657	10669	9.6	1B	3 V			3.50					
CAPS	06	1236E	1320D		S12	E45	.704	10669	9.9	44D	1B	2 P	1247	1.50	2.10		320		
GRP29086	06	1233	1352	1245	S13	E38	.616	10669	9.4	79	2N			6.49				7 7 6 8	
LVOV	06	1126	1400	1246	S12	E37	.601	10669	9.3	154	2F	C	1246	7.22	8.82		72 FIK		
CATA	06	1200E	1345	1250	S13	E35	.575	10669	9.1	105D	2B		1250	6.50	7.83		416 Z		
RAMY	06	1232	1347	1245	S12	E35	.574	10669	9.1	75	2B	C		5.78			U		
ONDR	06	1234	1307		S12	E44	.692	10669	9.8	33	3F	V	1247			2.40	CFIJ		
ABST	06	1235E	1241D	1238	S14	E35	.577	10669	9.1	6D	1N	P	1238	4.04	5.05		E		
ABST	06	1236E	1241D	1238	S16	E44	.697	10669	9.8	5D	1N	P	1238	2.33	3.20		F		
SANM	06	1242E	1518		S13	E37	.603	10669	9.3	156D	2B	2 P	1246	9.07	11.20		FI		
CAPS	06	1246E	1355D		S11	E38	.613	10669	9.4	69D	2B	2 P	1247	4.00	5.60		320		
GRP29089	06	1407	1420	1410	N11	E32	.591	10670	9.0	13	-N			.93				3 3 2 9	
SANM	06	1406	1521	1408	N10	E32	.585	10670	9.0	75	-B	2 C		1.45	1.80		E		
RAMY	06	1406	1423	1410	N11	E31	.579	10670	8.9	17	-F	C		.41			DE		
BOUL	06	1410	1417	1411	N11	E32	.591	10670	9.0	7	-F	V							
GRP29090	06	1435	1501	1439	N11	E32	.591	10670	9.0	26	-N			2.12				4 4 3 9	
SANM	06	1406	1521		N10	E32	.585	10670	9.0	75	1B	2 C	1438	3.07	3.75				
RAMY	06	1435	1457	1439	N11	E31	.579	10670	8.9	22	-N	C		1.03			F		
MONT	06	1435	1452	1440	N10	E33	.597	10670	9.1	17	-N	C	1440	2.27					
BOUL	06	1437E	1455	1437	N11	E32	.591	10670	9.0	18D	-N	V							
GRP29091	06	1548	1608	1550	N09	E30	.553	10670	8.9	20	-N			1.11				3 3 2 7	
RAMY	06	1547	1554	1549	N10	E30	.559	10670	8.9	7	-N	C		.93			DE		
SANM	06	1548	1616D		N09	E30	.553	10670	8.9	28D	-B	2 P	1550	1.29	1.54		EK		
BOUL	06	1549	1554	1550	N10	E30	.559	10670	8.9	5	-N	V							
RAMY	06	1559	1615	1602	N09	E32	.579	10670	9.1	16	-F	C		.72			DE		
GRP29092	06	1656	1719	1704	N11	E32	.591	10670	9.1	23	-N			1.51				3 3 2 3	
SANM	06	1653	1708D		N11	E31	.579	10670	9.0	15D	1B	2 P	1702	1.77	2.16		EK		
BOUL	06	1656	1717	1703	N12	E34	.621	10670	9.3	21	-N	V							
RAMY	06	1700	1720	1704	N11	E31	.579	10670	9.0	20	-N	C		1.24			F		
GRP29093	06	1729	1755	1734	N11	E31	.579	10670	9.1	26	-N			1.55				3 3 2 3	
SANM	06	1726	1922D		N10	E30	.559	10670	9.0	116D	1B	2 P	1730	2.27	2.74		E		
RAMY	06	1729	1755	1735	N11	E31	.579	10670	9.1	26	-N	C		.83			F		
BOUL	06	1731	1755	1733	N11	E31	.579	10670	9.1	24	-N	V							
GRP29094	06	1948	2104	2015	S13	E32	.533	10669	9.2	76	1N			2.89				3 2 1 3	
BOUL	06	1928	2115	2020	S12	E34	.560	10669	9.4	107	-N	V							
BOUL	06	1943	2054	2015	S13	E29	.490	10669	9.0	71	1N	V							
BOUL	06	1943	2040	1958	S08	E27	.452	10669	8.8	57	-N	V							
BOUL	06	1943	1954	1945	S14	E39	.631	10669	9.7	11	-N	V							
RAMY	06	1953	2015D	2015	S13	E30	.505	10669	9.1	22D	1N	C		2.89			U		
CULG	06	2034E	2150		S12	E30	.502	10669	9.1	76D	2B	P	2034	4.54	5.28				
GRP29098	07	0105	0128	0105	N29	E13	.607	10664	8.0	23	--N			.46				2 2 2 4	
MANI	07	0101	0124	0105	N29	E12	.602	10664	7.9	23	-N	1	0105	.62	.79				
CRON	07	0109	0131		N28	E13	.594	10664	8.0	22	-	3 V		.30					
GRP29101	07	0209	0738	0454	N22	W10	.498	10676	6.3	329	2F			9.39				3 2 2 4	
CULG	07	0209	0736D		N23	W05	.494	10676	6.7	327D	3N	P	0257	15.47	17.35		LSU		
CRON	07	0246	0420	0248	N21	W14	.507	10676	6.1	94	1F	2 V	0248	3.30					
BUCA	07	0655	0738	0700	N20	W13	.487	10676	6.3	43	-B	C	0700	.55	.60		D		
GRP29105	07	0550	0610	0558	N18	E82	.995	10675	13.4	20	-N			.54				2 2 2 5	
CULG	07	0541	0610	0558	N17	E79	.989	10675	13.2	29	1N	C	0558	.67					
CRON	07	0558	0610		N18	E84	.998	10675	13.5	12	-	2 V		.40					
GRP29106	07	0552	0611	(0600)	S10	E27	.454	10669	9.3	19	--F			.97				2 2 2 5	
CRON	07	0552	0605		S10	E25	.423	10669	9.1	13	-	2 V		.50					
MITK	07	0558E	0616D		S09	E28	.468	10669	9.3	18D	-F	C	0600	1.44	1.60		E		

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP29109	07	0724	0807	0732	S11	E24	.410	10669	9.1	43	1N			2.26				7 7 6 9
CULG	07	0722	07360	0730	S09	E24	.406	10669	9.1	140	1N	P	0730	3.40	3.63			L
CRON	07	0723	0805		S12	E23	.398	10669	9.0	42	-	2 V		1.70				
CAPE	07	0724	0755	0732	S12	E25	.428	10669	9.2	31	1N	C	0732	1.89	2.10			
BUCA	07	0725	08150	0735	S11	E27	.456	10669	9.3	500	1B	C	0735	2.76	3.10			
MANI	07	0730E	07550		S10	E26	.439	10669	9.3	250	-N	1	0732	.83	.94			
CAPS	07	0730E	08100		S11	E24	.410	10669	9.1	400	1N	3 P	0731	3.00	3.30		190	
TEHR	07	0735E	08300		S11	E19	.332	10669	8.7	550	1N	V						
TEHR	07	0735E	08200		S10	E27	.454	10669	9.3	450	1N	V						
CRON	07	0827	0835		S12	E20	.351	10669	8.9	8	-	2 V		.50				
GRP29110	07	0826	0838	0826	S17	W37	.612	10654	4.6	12	--N			.64				3 3 2 8
HERS	07	0826E	08300	0826	S19	W46	.726	10654	3.9	40	-N	S	0826	.57	.80			E
CRON	07	0826	0838		S16	W32	.542	10654	5.0	12	-F	2 V		.70				
CAPS	07	0831	08450		S15	W32	.539	10654	5.0	140	-N	1 S						
GRP29115	07	1635	1648	1643	N10	E17	.398	10670	9.0	13	--N			.89				3 3 3 5
SANM	07	1627	1820	1643	N09	E18	.399	10670	9.0	113	-N	2 C		1.29	1.39			EK
RAMY	07	1638	1650	1642	N10	E17	.398	10670	9.0	12	-F	C		.52				DE
MCMA	07	1641	1646	1643	N10	E16	.386	10670	8.9	5	-F	C	1643	.52	.50			E
GRP29116	07	1701	1719	1707	N12	E16	.410	10670	8.9	18	--F			.40				2 2 2 5
SANM	07	1655	1720	1704	N14	E17	.443	10670	9.0	25	-F	2 C		.48	.54			D
RAMY	07	1707	1718	1709	N09	E15	.364	10670	8.8	11	-N	C		.31				DE
GRP29117	07	1706	1950	1815	S11	E14	.253	10669	8.8	164	-B			1.62				2 1 1 5
SANM	07	1706	1950	1815	S11	E14	.253	10669	8.8	164	-B	2 C		1.62	1.67			E
RAMY	07	1719	1749	1728	S10	E14	.248	10669	8.8	30	-F	C		1.29				DE
GRP29118	07	1723	1748	1727	N09	E16	.375	10670	8.9	25	-N			.73				3 2 2 4
SANM	07	1627	1820	1643	N09	E17	.387	10670	9.0	113	-B	2 C	1727	1.62	1.74			D
MCMA	07	1723	1751	1726	N09	E15	.364	10670	8.8	28	-N	C	1726	.62	.70			E
RAMY	07	1723	1745	1728	N09	E16	.375	10670	8.9	22	-N	C		.83				F
GRP29119	07	1304	1516	1353	S10	E21	.360	10669	9.1	132	1N			3.01				2 2 2 7
SANM	07	1304E	20490		S10	E22	.376	10669	9.2	4650	2B	2 P	1520	5.50	5.92			EFIKLT
RAMY	07	1347	1417	1353	S10	E23	.392	10669	9.3	30	-N	C		1.03				F
RAMY	07	1447	1516	1454	S11	E16	.284	10669	8.8	29	-F	C		.52				DE
29119	07	1554	1638	1606	S10	E21	.360	10669	9.2	44	*-B			2.30				5 4 4 6
SANM	07	1304E	20490		S10	E22	.376	10669	9.2	4650	-B	2 P	1603	1.94	2.09			
MCMA	07	1407E	2000	1604	S10	E20	.345	10669	9.1	3530	1B	C	1604	2.32	2.50			IK
RAMY	07	1554	1638	1605	S10	E20	.345	10669	9.2	44	1N	C		3.20				F
CANR	07	1555	1557		S11	E21	.363	10669	9.2	2	1N	1 V						
CATA	07	1610E	16150	1610	S11	E20	.348	10669	9.2	50	-B		1610	1.73	1.88		372	
29119	07	1747	1837	1803	S11	E21	.363	10669	9.3	50	*1B			3.56				2 2 1 5
SANM	07	1304E	20490		S10	E22	.376	10669	9.2	4650	1B	2 P	1803	3.56	3.83			
CANR	07	1747	1837		S11	E20	.348	10669	9.2	50	1N	3 V						
GRP29120	07	1844	2049	2017	S08	E19	.325	10669	9.2	125	--F			.42				2 2 2 5
SANM	07	1844	20490		S06	E24	.405	10669	9.6	1250	-N	2 P	1914	.48	.52			D
SANM	07	1903	2010	1912	S05	E16	.275	10669	9.0	67	-N	2 C		.48	.50			D
RAMY	07	2015	2049	2017	S10	E18	.313	10669	9.2	34	-F	C		.36				DE
GRP29123	07	1952	2059	2035	S35	E21	.569	10667	9.4	67	1F			1.66				3 3 2 6
SANM	07	1952	20490		S35	E22	.577	10667	9.5	570	1N	2 C	2038	2.59	3.16			E
BOUL	07	2005E	2049	2035	S34	E20	.550	10667	9.3	440	1F	S	2035		3.00			E
MCMA	07	2035	2120		S36	E22	.588	10667	9.5	45	-F	C	2046	.72	.90			
GRP29124	07	2021	2047	2024	N09	E14	.352	10670	8.9	26	-B			1.02				4 4 3 5
SANM	07	2020	20490		N08	E14	.341	10670	8.9	290	-B	2 P	2027	1.30	1.39			E
RAMY	07	2021	2044	2024	N09	E14	.352	10670	8.9	23	-B	C		.93				DE
MCMA	07	2022	2049	2024	N09	E14	.352	10670	8.9	27	-B	C	2024	.83	.90			E
BOUL	07	2022E	20440	2024	N09	E14	.352	10670	8.9	220	-N	V						
GRP29125	07	2032	2054	2044	N11	W20	.443	10676	6.4	22	--F			.80				3 3 3 6
SANM	07	2023	20490		N09	W19	.411	10676	6.4	260	-N	2 C	2045	1.62	1.79			E
MCMA	07	2040	2052	2043	N14	W20	.474	10676	6.4	12	-F	C	2043	.36	.40			E
RAMY	07	2044E	2055	20450	N09	W20	.424	10676	6.4	110	-F	C		.41				DE
126 MCMA	07	2140	22010		N14	W20	.474	10676	6.4	210	--F	C	2150	.72	.70			E
GRP29127	07	2221	2240	2225	S10	E19	.329	10669	9.4	19	-N			1.55				4 4 3 4
RAMY	07	2220	22290	2223	S10	E20	.345	10669	9.4	90	-N	C		1.34				F
BOUL	07	2220	2244	2226	S09	E21	.358	10669	9.5	24	1N	S	2226		2.50			
CULG	07	2222	22310		S10	E16	.280	10669	9.1	90	1N	P	2229	2.37	2.40			
MANI	07	2223E	2236		S09	E19	.326	10669	9.4	130	-N	1	2228	.93	.98			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.													
GRP29128 MITK BOUL MANI	07	2308	2346	2312	N18	E66	.936	10675	12.9	38	1N			.93				3 3 2 5	
	07	2306E	2357	2311	N18	E64	.925	10675	12.8	510	1N	C	2311	1.03			D		
	07	2310	2338	2312	N17	E67	.940	10675	13.0	28	1B	S	2312		4.50				
	07	2312E	2343		N19	E68	.948	10675	13.1	310	-N	1	2318	.83	1.82				
132 CRON	08	0333	0347		S18	E46	.724	10671	11.6	14	--F	2	V	.50				3	
GRP29139 ABST CANR RAMY CAPS	08	1045	1109	1053	N13	E07	.348	10670	9.0	24	--N			.62				4 4 3 5	
	08	1045	1110	1053	N12	E07	.332	10670	9.0	25	-F	C	1053	.90	.90		D		
	08	1045	1108		N12	E07	.332	10670	9.0	23	-N	1	V	.50			DE		
	08	1050E	1107	1052U	N13	E08	.354	10670	9.1	170	-N	V		.36			C		
	08	1052E	11110		N13	E06	.343	10670	8.9	190	-N	3	V	1054	.60	.60	160	DE	
GRP29140 RAMY CANR CAPS	08	1153	1221	1156	N12	E06	.327	10670	8.9	28	--F			.41				3 2 2 7	
	08	1153	1235	1156	N12	E05	.322	10670	8.9	42	-F	C		.31			DE		
	08	1153	1153D		N12	E07	.332	10670	9.0		-N	1	V		.40				
	08	1159E	1206		N12	E06	.327	10670	8.9	70	-N	2	V	1203	.50	.50	152	C	
GRP29141 SANM ABST RAMY MCMA CANR CAPS ONDR HERS	08	1305	1338	1318	N17	E59	.889	10675	13.0	33	1N			1.11				8 7 5 8	
	08	1256E	1423		N17	E58	.881	10675	12.9	870	1B	2	P	1321	1.30	2.77		E	
	08	1304	1330	1313	N16	E56	.863	10675	12.7	26	1F	C	1313	1.79	3.80		EK		
	08	1306	1329	1309	N16	E58	.879	10675	12.9	23	-F	C		.46			DE		
	08	1306	1350		N18	E58	.884	10675	12.9	44	-N	C	1310	.52	1.00		E		
	08	1306	1340		N17	E60	.896	10675	13.0	34	-N	2	V		1.40				
	08	1310E	1343D		N17	E60	.896	10675	13.0	330	1N	2	V	1314	1.50		190		
	08	1317	1338D	1323	N17	E60	.896	10675	13.1	210	1N	V	1323			2.30	AC		
	08	1322E	1327D	1326	N17	E67	.940	10675	13.6	50	-N	P	1326	.57	1.80		E		
GRP29143 SANM MCMA SANM RAMY RAMY	08	1402	1502	1410	N12	E06	.327	10670	9.0	60	--F			.91				3 2 2 7	
	08	1340	1519	1410	N12	E06	.327	10670	9.0	99	-N	2	C	1422	1.30	1.36		E	
	08	1354	1450		N12	E05	.322	10670	9.0	56	-N	C		.52	.60		EHK		
	08	1359	1509	1443	N13	E08	.354	10670	9.2	70	-F	2	C		.32	.34		D	
	08	1404	1455	1409	N12	E04	.318	10670	8.9	51	-F	C		.52			DE		
	08	1404	1455	1413	N12	E04	.318	10670	8.9	51	-F	C		.15			DE		
GRP29144 SANM MCMA RAMY	08	1407	1418	1408	N18	E57	.876	10675	12.9	11	--B			.38				3 3 3 7	
	08	1256E	1423		N18	E57	.876	10675	12.8	870	-B	2	P	1408	.48	.97		D	
	08	1407	1415	1408	N18	E58	.884	10675	12.9	8	-B	C	1408	.31	.70		D		
	08	1407	1415	1408	N18	E57	.876	10675	12.9	8	-N	C		.36			DE		
GRP29145 SANM MCMA RAMY	08	1432	1443	1435	S10	E07	.138	10669	9.1	11	--F			.68				3 3 3 5	
	08	1407	1446	1435	S10	E08	.153	10669	9.2	39	-F	2	C		.97	.98		E	
	08	1431	1441	1433	S10	E07	.138	10669	9.1	10	-N	C	1433	.31	.30		E		
	08	1433	1442	1436	S10	E07	.138	10669	9.1	9	-F	C		.77			DE		
GRP29146 SANM MCMA	08	1535	1554	1544	N12	E05	.322	10670	9.0	19	--F			.40				2 2 2 6	
	08	1526	1600D		N12	E04	.318	10670	8.9	340	-F	2	P	1548	.48	.51		E	
	08	1543	1547	1544	N12	E05	.322	10670	9.0	4	-N	C	1544	.31	.30		D		
GRP29147 SANM MCMA RAMY BOUL	08	1543	1620	1554	N18	E56	.868	10675	12.9	37	-N			.83				4 4 3 6	
	08	1505	1600D		N18	E57	.876	10675	12.9	550	1N	2	P	1549	1.62	3.23		E	
	08	1540	1555D	1542	N18	E57	.876	10675	12.9	150	-N	C	1542	.52	1.00		E		
	08	1545	1612	1553U	N17	E56	.866	10675	12.9	27	-N	C		.36			DE		
	08	1551	1628	1555	N17	E55	.858	10675	12.8	37	1N	V							
GRP29149 MCMA SANM RAMY	08	1737	1744	1739	N09	W31	.565	10676	6.4	7	-N			.85				3 3 3 5	
	08	1737	1744	1739	N08	W33	.585	10676	6.3	7	-N	C	1739	.72	.90		E		
	08	1737	1744	1738	N10	W29	.546	10676	6.6	7	-N	2	C	1.30	1.57		E		
	08	1737	1745	1740	N09	W30	.552	10676	6.5	8	-F	C		.52			DE		
GRP29150 SANM RAMY BOUL	08	1811	1830	1818	S09	E07	.131	10669	9.3	19	-N			1.10				3 3 2 4	
	08	1802	1830	1817	S09	E08	.147	10669	9.4	28	-N	2	C	1.62	1.63		E		
	08	1815	1831	1818	S10	E07	.138	10669	9.3	16	-N	C		.57			DE		
	08	1816	1830	1818	S09	E07	.131	10669	9.3	14	-N	V							
GRP29151 SANM RAMY BOUL RAMY	08	1816	1833	1820	N17	E55	.858	10675	12.9	17	-N			1.21				3 3 2 4	
	08	1751	2043	1820	N17	E56	.866	10675	12.9	172	1B	2	C	2.10	4.20		E		
	08	1815	1833	1820U	N16	E55	.855	10675	12.9	18	-N	C		.31			F		
	08	1816	1833	1820	N17	E55	.858	10675	12.9	17	-N	V					DE		
	08	1844	1923	1903	N17	E55	.858	10675	12.9	39	-F	C		.41					
GRP29152 RAMY BOUL	08	1908	1922	1912	N12	E04	.318	10670	9.1	14	--B			.26				2 2 1 5	
	08	1908	1922	1910	N12	E02	.313	10670	8.9	14	-B	C		.26			DE		
	08	1908	1922	1913	N12	E06	.327	10670	9.2	14	-N	V	1913		.80				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
GRP29154 SANM HUAN BOUL RAMY RAMY RAMY MCMA	08	1944	2033	1951	N17	E55	.858	10675	12.9	49	1N				1.17				5 5 4 5
	08	1751	2043		N17	E56	.866	10675	12.9	172	2B	2	C	1956	2.59	5.17			E
	08	1943E	2001D	1947U	N18	E52	.836	10675	12.7	180	-F	1	P	1947	.21	.40			D
	08	1945E	2030	1957	N18	E57	.876	10675	13.1	450	1N		V	1957		4.00			
	08	1945	2026	1949	N16	E55	.855	10675	12.9	41	1N		C		.93				
	08	1945	2026	1956	N16	E55	.855	10675	12.9	41	-B		C		1.34				
	08	1945	2026	2013	N16	E55	.855	10675	12.9	41	1N		C		.72				DE
	08	1953E	2020D		N18	E56	.868	10675	13.0	270	-N		C	1958	.93	1.80			E
GRP29156 MANI BOUL	08	2216	2232	2218	S15	E10	.229	10669	9.7	16	--N				.41				2 2 1 3
	08	2215	2232		S16	E09	.229	10669	9.6	17	-N	1		2218	.41	.42			
	08	2216	2231	2218	S14	E10	.218	10669	9.7	15	-N		V	2218		1.00			
157 BOUL	08	2230	2245	2233	N12	E05	.322	10670	9.3	15	--F		S	2233		.80			3
GRP29158 MANI BOUL CRON	08	2331	0005	2337	N16	E55	.855	10675	13.1	34	-N				.97				3 3 2 3
	08	2324	2353	2336	N16	E59	.886	10675	13.4	29	-N	2		2336	.83	1.60			
	08	2333E	2352	2335	N16	E52	.829	10675	12.9	190	-N		V	2335		2.00			
	08	2335	0030	2341	N15	E55	.852	10675	13.1	55	-	1	V	2341	1.10				
GRP29160 CULG BOUL MANI	09	0011	0034	0014	N17	E54	.849	10675	13.1	23	1N				1.24				3 3 2 4
	09	0010E	0038		N18	E50	.818	10675	12.8	280	1N		P	0010	1.44	2.38			
	09	0011	0017D	0014	N17	E52	.832	10675	12.9	60	1N		S	0014		3.50			
	09	0013E	0029		N16	E59	.886	10675	13.4	160	-B	3		0015	1.03	2.00			
161 MANI	09	0046E	0053		N17	W57	.873	10657	4.8	70	-N	3		0046	.52	.96			3
GRP29162 MANI CRON	09	0239	0257	0241	N28	W16	.607	10664	7.9	18	--F				1.17				2 2 2 4
	09	0234	0255	0238	N26	W16	.582	10664	7.9	21	-N	2		0238	1.13	1.42			
	09	0243	0258	0244	N29	W15	.615	10664	8.0	15	-F	2	V	0244	1.20				
GRP29163 MANI CRON	09	0304	0344	0314	N10	W02	.279	10670	9.0	40	--F				.61				2 2 2 4
	09	0257	0331D	0313	N09	W01	.260	10670	9.0	340	-F	2		0313	.72	.76			
	09	0311	0344	0314	N10	W03	.281	10670	8.9	33	-	2	V	0314	.50				
GRP29164 CRON MANI	09	0314	0336	0320	S13	E06	.158	10669	9.6	22	-B				1.12				2 2 2 5
	09	0314	0334	0323	S13	E04	.139	10669	9.4	20	-B	2	V	0323	1.10				
	09	0314	0337D	0317	S12	E07	.158	10669	9.7	230	-N	2		0317	1.13	1.16			
GRP29165 CULG CRON MANI	09	0332	0356	0337	N16	E51	.820	10675	13.0	24	1N				1.54				3 3 3 5
	09	0329	0353D	0338	N18	E52	.835	10675	13.0	240	1N		P	0338	1.86	3.06			T
	09	0334	0352	0336	N16	E50	.811	10675	12.9	18	-F	2	V	0336	.80				
	09	0337E	0404		N15	E51	.817	10675	13.0	270	1N	2		0338	1.96	2.44			
GRP29166 KODA MANI CRON TACH CULG	09	0400	0424	0406	N16	E52	.829	10675	13.1	24	1B				2.12				5 5 5 5
	09	0359	0420	0405	N17	E51	.823	10675	13.0	21	1B		V	0412	3.45	3.40	2.32		CEK
	09	0400	0430D	0405	N15	E55	.852	10675	13.3	300	1N	2		0405	1.34	3.26			
	09	0400	0415	0402	N16	E53	.838	10675	13.1	15	-	2	V	0402	.60				
	09	0402	0425	0406	N16	E51	.820	10675	13.0	23	1B		V	0405	2.73	4.80	2.60	93	E
09	0410E	0432	0413	N17	E52	.832	10675	13.1	220	1B		P	0413	2.48	4.08			RT	
GRP29168 CRON MANI	09	0510	0534	0517	N14	W40	.701	10676	6.2	24	--F				.71				2 2 2 4
	09	0509	0535		N18	W40	.722	10676	6.2	26	-	2	V		.90				
	09	0510	0532	0517	N09	W40	.677	10676	6.2	22	-F	2		0517	.52	.62			
GRP29171 MANI ABST CRON HTPR KODA	09	0650	0717	0659	N17	E48	.796	10675	12.9	27	-N				1.27				5 5 5 5
	09	0649	0716	0654	N16	E51	.820	10675	13.1	27	-N	2		0654	.93	1.69			
	09	0650E	0720D	0657	N19	E45	.776	10675	12.7	300	1N		P	0657	2.25	3.50			E
	09	0650	0714		N17	E49	.805	10675	13.0	24	-	2	V		.90				
	09	0655E	0715		N15	E48	.788	10675	12.9	200	-F		C	0659	.62	1.00			E
	09	0705E	0719	0705	N17	E49	.805	10675	13.0	140	-N		V	0705	1.64	1.60	1.88		CEK
GRP29172 MANI HTPR	09	0744	0808	0800	N15	E50	.807	10675	13.1	24	--F				.62				2 1 1 5
	09	0744E	0808		N15	E50	.807	10675	13.1	240	-F	2		0746	.62	1.05			
	09	0759	0803	0800	N15	E48	.788	10675	12.9	4	-F		C	0800	.31	.40			
GRP29174 MANI CANR CRON CATA	09	0806	0825	0811	S13	E04	.139	10669	9.6	19	--N				.71				4 4 3 5
	09	0806	0827	0810	S12	E04	.124	10669	9.6	21	-N	2		0810	.83	.83			
	09	0806	0820	0807	S12	E04	.124	10669	9.6	14	-N	3	V			.30			
	09	0807	0823	0810	S13	E03	.131	10669	9.6	16	-	2	V	0810	.60				
	09	0815E	0830	0815	S13	E03	.131	10669	9.6	150	-B			0815	.69	.70		251	
GRP29175 MANI CRON	09	0808	0821	0813	N16	W40	.711	10676	6.3	13	--F				.66				2 2 2 5
	09	0808	0822	0813	N15	W40	.706	10676	6.3	14	-F	2		0813	.41	.51			
	09	0808	0820		N17	W40	.716	10676	6.3	12	-F	2	V		.90				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 APR																	
GRP29176 CRON MANI CRON CANR	09	0831	0853	0834	S10	W06	.124	10669	8.9	22	--F			.72				3 3 2 5
	09	0817	0825		S10	W08	.154	10669	8.7	8	-F	2 V		.20				
	09	0827E	0856	0834	S10	W06	.124	10669	8.9	29D	-F	2	0834	1.03	1.03			
	09	0832	0847		S10	W08	.154	10669	8.8	15	-	2 V		.40				
	09	0833	0855		S10	W04	.097	10669	9.1	22	-N	2 V		.60				
GRP29178 MANI MONT	09	0904	0935	0913	N17	E49	.805	10675	13.1	31	--F			1.19				2 2 2 7
	09	0904	0926	0912	N16	E49	.801	10675	13.1	22	-F	2	0912	.31	.44			
	09	0910E	0943	0913	N18	E49	.809	10675	13.1	33D	-N	C	0913	2.06				
GRP29180 MONT CAPE CAPS MCMA CATA SANM	09	1223	1259	1231	N29	W16	.620	10664	8.3	36	1N			1.63				220 263 VH GHL EH E
	09	1209	1304	1229	N32	W13	.643	10664	8.5	55	1N	C	1229	2.58				
	09	1216	1305	1231	N33	W13	.656	10664	8.5	49	1N	C	1231	2.54	3.40			
	09	1224	1256		N30	W17	.637	10664	8.2	32	1B	1 P	1235	1.90	2.50			
	09	1225	1249	1228	N32	W17	.661	10664	8.2	24	-N	C	1228	.62	.80			
	09	1225	1300	1235	N20	W17	.514	10664	8.2	35	1B		1235	1.68	2.19			
	09	1237E	1258		N29	W16	.620	10664	8.3	21D	-N	2 P	1242	.48	.63			
GRP29185 SANM MCMA	09	1507	1514	1510	S09	W10	.179	10669	8.9	7	--N			.24				2 2 2 7 D D
	09	1506	1514	1510	S09	W09	.163	10669	9.0	8	-N	2 C		.32	.32			
	09	1508	1513	1510	S08	W10	.176	10669	8.9	5	-N	C	1510	.15	.20			
GRP29186 SANM MCMA CAPS BOUL	09	1509	1520	1512	N12	W10	.352	10670	8.9	11	--N			.40				4 4 3 7 D E 155
	09	1506	1526	1511	N11	W11	.346	10670	8.8	20	-B	2 C		.48	.52			
	09	1510	1516	1511	N13	W07	.347	10670	9.1	6	-N	C	1511	.21	.30			
	09	1510E	1518		N11	W12	.356	10670	8.7	8D	-F	3 V	1512	.50	.50			
	09	1511	1521	1513	N12	W09	.345	10670	9.0	10	-N	V						
GRP29187 SANM MCMA CAPS CATA BOUL	09	1531	1544	1538	N15	E45	.758	10675	13.0	13	-B			.86				5 5 4 6 E E CD 288
	09	1522	1548	1537	N07	E45	.728	10675	13.0	26	-B	2 C		1.29	2.00			
	09	1532	1544	1538	N18	E43	.752	10675	12.9	12	-N	C	1538	.52	.80			
	09	1535E	1541	1538	N17	E45	.767	10675	13.0	6D	-B	3 V	1538	.60	.90			
	09	1535	1545	1540	N16	E44	.753	10675	12.9	10	-B		1540	1.04	1.59			
	09	1537E	1540	1537	N17	E47	.786	10675	13.2	3D	-N	V						
GRP29190 MCMA BOUL	09	1601	1616	1607	N17	E42	.737	10675	12.8	15	--F			.31				2 2 1 6 E
	09	1601	1614	1604	N18	E43	.752	10675	12.9	13	-F	C	1604	.31	.50			
	09	1610E	1617	1610	N16	E40	.711	10675	12.7	7D	-F	V						
GRP29191 BOUL MCMA	09	1621	1648	1626	N16	E43	.742	10675	12.9	27	--N			.36				2 2 1 5 D
	09	1621	1643	1624	N16	E42	.732	10675	12.8	22	-N	V						
	09	1621	1653	1627	N15	E43	.738	10675	12.9	32	-N	C	1627	.36	.50			
GRP29192 SANM BOUL MCMA CANR	09	1728	1742	1731	S09	W10	.179	10669	9.0	14	--N			.99				4 4 2 5 E E
	09	1721	1742	1730	S09	W10	.179	10669	9.0	21	-N	2 C		1.45	1.49			
	09	1728	1740	1732	S10	W11	.201	10669	8.9	12	-N	V						
	09	1729	1741	1730	S08	W11	.192	10669	8.9	12	-N	C	1730	.52	.60			
	09	1734	1745		S09	W09	.163	10669	9.1	11	-N	2 V			.60			
193 SANM	09	1755	1806	1759	N07	W49	.773	10676	6.1	11	--N	2 C		.65	.87			D 4
194 SANM	09	1800	1844	1820	N06	W48	.759	10676	6.1	44	--N	2 C		.32	.51			D 4
GRP29195 MCMA SANM BOUL	09	1807	1839	1811	N29	W19	.637	10664	8.3	32	-N			1.36				3 3 2 4 E E
	09	1806	1833	1810	N30	W20	.654	10664	8.3	27	-N	C	1810	.62	.90			
	09	1807	1900	1811	N30	W19	.648	10664	8.3	53	18	2 C		2.10	2.79			
	09	1808	1823	1811	N28	W19	.625	10664	8.3	15	-N	V			2.00			
GRP29196 MCMA BOUL	09	1823	1834	1825	S09	W11	.196	10669	8.9	11	--N			.52				2 2 1 4 E
	09	1822	1835	1824	S08	W11	.192	10669	8.9	13	-N	C	1824	.52	.60			
	09	1823	1832	1826	S10	W11	.201	10669	8.9	9	-N	V						
GRP29197 MCMA BOUL	09	1826	1847	1829	N18	E42	.742	10675	12.9	21	--F			.62				2 1 1 4 E
	09	1826	1847	1829	N18	E42	.742	10675	12.9	21	-F	C	1829	.62	.90			
	09	1837	1845	1842	N16	E42	.732	10675	12.9	8	-N	V						
198 SANM	09	1834	1955	1857	N16	W58	.879	10657	5.4	81	--F	2 C		.65	1.34			D 3
GRP29200 MCMA SANM BOUL	09	1846	1928	1857	S13	E50	.763	10674	13.5	42	-N			.83				3 3 2 3 EL E
	09	1846	1930	1854	S14	E50	.764	10674	13.5	44	-N	C	1854	.52	.80			
	09	1846	1942	1901	S13	E50	.763	10674	13.5	56	-N	2 C		1.13	1.76			
	09	1847	1911	1855	S13	E50	.763	10674	13.5	24	-N	V						
201 MCMA	09	1910	1920	1911	S08	W12	.209	10669	8.9	10	--N	C	1912	.36	.40			E 3
GRP29202 SANM MCMA	09	2008	2014	2011	S08	W13	.226	10669	8.9	6	--F			.24				2 2 2 5 D E
	09	2007	2015	2010	S08	W13	.226	10669	8.9	8	-F	2 C		.17	.17			
	09	2009	2013	2011	S08	W12	.209	10669	8.9	4	-N	C	2011	.31	.30			

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OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA TH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
203 BOUL	09	2133	2143	2136	N07	W50	.783	10676	6.1	10	--F	V						2
GRP29205 BOUL MANI	09	2241	2306	2247	N18	W49	.809	10676	6.3	25	--N			.62				2 2 1 2
	09	2241	2308	2247	N17	W45	.767	10676	6.6	27	-N	V	2247		.80			
	09	2242E	2304		N19	W52	.839	10676	6.0	220	-N	2	2246	.62	1.09			
GRP29206 BOUL MANI	09	2302	2317	2304	S16	W06	.200	10669	9.5	15	--F			1.34				2 2 1 2
	09	2302	2313	2304	S17	W04	.201	10669	9.7	11	-F	V	2304		2.00			
	09	2304E	2321		S15	W07	.196	10669	9.4	170	-F	3	2311	1.34	1.37			
207 MANI	09	2331	2359	2345	S12	W04	.124	10669	9.7	28	--F	2	2345	.41	.43			3
GRP29208 MANI BOUL VORO	10	0002	0022	0007	N11	W18	.418	10670	8.7	20	-N			.88				3 3 2 4
	10	0001	0023	0007	N11	W18	.418	10670	8.7	22	-N	3	0007	.83	.90			
	10	0003	0030	0006	N13	W17	.429	10670	8.7	27	-N	V	0006		1.50			
	10	0005E	0014		N10	W19	.419	10670	8.6	90	-B	C	0005	.93	1.00	128	D	
GRP29209 MANI VORO	10	0013	0029	0015	S09	W14	.245	10669	9.0	16	-B			1.24				2 2 2 4
	10	0012	0029	0014	S09	W14	.245	10669	9.0	17	-N	3	0014	.72	.75			
	10	0014	0029	0016	S09	W14	.245	10669	9.0	15	-B	C	0016	1.75	1.78	95	EHJ	
GRP29210 MANI CRON VORO VORO	10	0104	0159	0119	N16	E39	.700	10675	13.0	55	1B			2.28				3 3 3 3
	10	0103	0145	0118	N16	E40	.711	10675	13.0	42	1N	2	0118	2.06	2.98			
	10	0104	0205	0115	N15	E38	.684	10675	12.9	61	1	2	V	0115	1.90			
	10	0105	0137	0125	N18	E38	.701	10675	12.9	32	1B	C	0119	2.87	4.00	120	EHJK	
	10	0150	0207	0152	N18	E39	.711	10675	13.0	17	-B	C	0152	1.02	1.44	99	E	
GRP29213 MANI CRON	10	0302	0323	0305	S08	W15	.259	10669	9.0	21	--B			.82				2 2 2 3
	10	0301	0330	0304	S07	W13	.224	10669	9.2	29	-B	2	0304	.93	.96			
	10	0302	0315	0305	S08	W17	.292	10669	8.9	13	-	2	V	0305	.70			
GRP29214 MANI CRON KODA	10	0330	0354	0354	S14	W08	.195	10669	9.5	24	--N			.46				3 2 2 4
	10	0330E	0350		S13	W07	.171	10669	9.6	200	-N	2	0336	.52	.52			
	10	0330	0358		S15	W09	.218	10669	9.5	28	-	2	V		.40			
	10	0353	0401D	0354	S11	W18	.317	10669	8.8	80	1N	P	0353	1.69	1.70	1.44	CEK	
218 TACH	10	0559	0605		N15	E41	.716	10675	13.3	6	1F	V	0604	1.84	2.67	3.11	48	D 4
GRP29219 BUCA CRON MANI	10	0708	0731	(0721)	S09	W16	.278	10669	9.1	23	-F			.64				3 3 3 5
	10	0700	0750		S07	W17	.291	10669	9.0	50	-N	C	0717	1.10	1.80		E	
	10	0715	0718		S12	W12	.230	10669	9.4	3	-	1	V		.50			
	10	0724E	0725D		S07	W18	.308	10669	9.0	10	-F	1	0725	.31	.32			
GRP29224 CAPE CAPS ZURI	10	1032	1042	1036	S08	W19	.325	10669	9.0	10	-N			.99				3 3 3 4
	10	1030	1045	1037	S07	W20	.340	10669	8.9	15	-N	C	1037	.99	1.10			
	10	1032E	1043		S10	W18	.313	10669	9.1	110	-N	2	V	1034	.40	.40	190	E
	10	1034	1038	1035	S08	W20	.341	10669	8.9	4	-N	C	1035	1.58	1.70			
GRP29227 CAPS ZURI CAPE	10	1048	1105	1051	N17	E35	.663	10675	13.1	17	-N			1.47				3 3 3 5
	10	1047	1110		N17	E35	.663	10675	13.1	23	1B	2	V	1050	1.80	2.30	256	
	10	1048	1055D	1053	N17	E35	.663	10675	13.1	70	-N	P	1053	1.26	1.70			
	10	1048	1100	1049	N17	E36	.674	10675	13.2	12	-N	C	1049	1.36	1.90			
GRP29228 RAMY ZURI CAPS MCMA	10	1156	1208	1158	S09	W20	.343	10669	9.0	12	--N			.82				4 4 3 6
	10	1155	1212	1158	S08	W20	.341	10669	9.0	17	-F	C		.52			F	
	10	1156E	1200	1158	S08	W21	.357	10669	8.9	40	-N		P	1158	1.32	1.40		
	10	1158	1212D		S10	W18	.313	10669	9.1	140	-N	1	S				160	
	10	1203E	1206D		S08	W22	.373	10669	8.9	30	-N	P	1204	.62	.70		E	
GRP29229 RAMY CAPS MCMA SANM	10	1223	1248	1226	N11	W22	.465	10670	8.9	25	--N			.60				4 4 4 6
	10	1223	1245	1226	N11	W25	.502	10670	8.6	22	-N		C		.41			DE
	10	1225E	1250		N08	W18	.387	10670	9.2	250	-N	1	S	1.20	1.30			
	10	1229E	1243D		N11	W21	.453	10670	8.9	140	-N	P	1234	.31	.40			
	10	1239E	1427		N12	W23	.486	10670	8.8	1080	-N	2	P	1241	.48	.56		D
GRP29231 SANM RAMY MCMA HURB HERS	10	1257	1332	1310	S08	W19	.325	10669	9.1	35	-N			1.97				5 5 4 8
	10	1252	1339	1311	S08	W21	.357	10669	9.0	47	1N	2	C	4.21	4.53		EH	
	10	1302	1324	1308	S08	W21	.357	10669	9.0	22	-N	C		.83			F	
	10	1303E	1314D	1308	S09	W15	.262	10669	9.4	110	-N	C	1308	1.24	1.30		F	
	10	1304E	1312D	1310	S07	W20	.340	10669	9.0	80	1F					2.20		
10	1312E	1318D	1312	S09	W20	.343	10669	9.1	60	-N	P	1312	1.59	1.70		B		
GRP29233 SANM RAMY HURB ZURI	10	1344	1452	1433	S10	W20	.345	10669	9.1	68	1N			1.51				4 3 2 5
	10	1344	1512	1431	S09	W20	.343	10669	9.1	88	1B	2	C	2.10	2.27		E	
	10	1350	1405	1352	S08	W20	.341	10669	9.1	15	-F	C		.62			DE	
	10	1425E	1439	1431	S12	W20	.352	10669	9.1	140	1F					2.10		
	10	1430E	1446	1437	S08	W20	.341	10669	9.1	160	-N	P	1437	.91	1.00			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %		
					LAT.	MER. DIST.													
GRP29234 SANM SANM SANM RAMY CANR MCMA	10	1350	1414	1352	N11	W23	.477	10670	8.9	24	--F				.46				4 4 3 8
	10	1239E	1427		N12	W23	.486	10670	8.8	108D	-F	2	P	1355	.65	.75			E D DE
	10	1314	1335	1326	N10	W19	.419	10670	9.1	21	-F	2	C		.65	.72			
	10	1326	1345	1327	N10	W24	.481	10670	8.8	19	-F	2	C		.48	.56			
	10	1349	1405	1352	N12	W20	.451	10670	9.1	16	-F		C		.41				
	10	1350	1410		N12	W26	.523	10670	8.6	20	-N	3	V			.50			
	10	1352E	1358D		N11	W24	.490	10670	8.8	60	-N		P	1352	.31	.40		E	
	235 SANM	10	1415	1504	1441	N14	E58	.874	10682	14.9	49	--F	2	C		.80	1.71		E 4
238 SANM	10	1538	1551	1542	N12	W25	.510	10670	8.8	13	-N	2	C		1.45	1.68		EU 3	
GRP29239 SANM CANR RAMY SANM SANM SANM MCMA	10	1626	1644	1635	S13	W19	.342	10669	9.3	18	1B				2.57			4 4 3 4	
	10	1608	1643	1616	S08	W23	.389	10669	8.9	35	-N	2	C		1.29	1.40		E	
	10	1622	1636	1633	S12	W17	.306	10669	9.4	14	1B	3	V			2.70			
	10	1627	1652D	1638	S15	W20	.368	10669	9.2	25D	-B		C		1.96			F	
	10	1627	1743	1634	S15	W14	.283	10669	9.6	76	1B	2	C		2.27	2.36		E	
	10	1629	1755	1636	S14	W16	.303	10669	9.5	86	-B	2	C		.97	1.02		D	
	10	1629	1755	1636	S13	W24	.417	10669	8.9	86	-B	2	C		.80	.89		D	
	10	1638E	1800D		S14	W19	.347	10669	9.3	82D	1B		P	1638	2.68	2.80		F	
241 SANM	10	1744	1822	1753	N09	W60	.880	10676	6.2	38	--F	2	C		.80	1.71		E 3	
GRP29242 SANM SANM MCMA	10	1756	1826	1756	N11	W26	.514	10670	8.8	30	-B				1.31			2 2 2 3	
	10	1755	1826	1756	N11	W26	.514	10670	8.8	31	1B	2	C		2.10	2.48		EU	
	10	1755	1826		N11	W26	.514	10670	8.8	31	-B	2	C	1806	.97	1.15			
	10	1757	1814D		N11	W25	.502	10670	8.9	17D	-N		C	1800	.52	.60		EK	
GRP29243 SANM CANR	10	1810	1853	1819	N18	E28	.596	10675	12.9	43	-B				2.91			2 2 1 3	
	10	1804	1918	1819	N17	E27	.577	10675	12.8	74	1B	2	C		2.91	3.55		EL	
	10	1816	1828		N18	E29	.607	10675	12.9	12	-N	2	V			.90			
244 SANM	10	1920	1931	1923	N23	W55	.875	10676	6.7	11	-N	2	C		.48	1.03		D 2	
245 SANM	10	2009	2028	2015	N18	E30	.617	10675	13.1	19	--N	1	C		.80	1.01		E 2	
	10	2112	2121	NO FLARE PATROL															
246 MCMA	10	2132E	2200D		N14	E28	.563	10675	13.0	28D	--N		C	2142	.77	.90		E 1	
247 MANI	10	2225E	2237D		N32	W32	.751	10664	8.5	12D	--F	1		2234	1.03	1.66		1	
248 MANI	10	2324	2334D	2329	N11	W31	.577	10670	8.6	10D	-N	1		2329	.93	1.13		2	
GRP29249 MANI CRON BOUL	10	2324	2356	2332	S14	W18	.333	10669	9.6	32	-N				1.17			3 3 2 3	
	10	2324	0010	2328	S14	W20	.362	10669	9.5	46	-N	1		2328	1.44	1.55			
	10	2324	2353	2330	S16	W21	.389	10669	9.4	29	-F	1	V	2330	.90				
	10	2335E	2345	2338	S13	W13	.252	10669	10.0	10D	-N		S	2338		2.00			
251 CRON	10	2345	2352		N12	W38	.667	10663	8.1	7	--F	1	V		.40			2	
GRP29252 MANI BOUL CRON	11	0006	0020	0008	N16	E26	.556	10675	13.0	14	--N				.56			3 3 2 3	
	11	0003	0026	0007	N15	E26	.548	10675	13.0	23	-N	1		0007	.62	.75			
	11	0005E	0018	0009	N16	E25	.546	10675	12.9	13D	-N		S	0009		1.30			
	11	0009	0017		N17	E26	.566	10675	13.0	8	-F	2	V		.50				
GRP29253 MANI CRON	11	0055	0114	0058	S16	W20	.375	10669	9.5	19	--F				.76			2 2 2 2	
	11	0055	0122D	0058	S16	W19	.361	10669	9.6	27D	-N	1		0058	.52	.55			
	11	0055	0105		S15	W21	.383	10669	9.5	10	-F	2	V		1.00				
4 STATIONS REPORTING GROUP 29254. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP29254 SIBE CRON	11	0207	0233	0211	N15	E23	.514	10675	12.8	26	-F				1.70			2 2 2 3	
	11	0206E	0225	0212	N15	E22	.503	10675	12.7	19D	-F		C	0212	1.49	1.60	68	CE	
	11	0207	0241	0209	N15	E24	.525	10675	12.9	34	1N	2	V	0209	1.90				
29254 MANI KODA	11	0228	0247	0235	N17	E23	.534	10675	12.8	19	*-N				1.57			2 2 2 4	
	11	0225E	0253D		N17	E23	.534	10675	12.8	28D	-N	1		0226	.83	.98			
	11	0230	0240	0235	N16	E23	.524	10675	12.8	10	-N		V	0233	2.30	2.30	1.64	CE	
257 CULG	11	0448	0505	0451	N09	W70	.947	10676	6.0	17	1N		C	0451	1.13			4	
GRP29262 CRON TEHR BUCA MANI HTPR	11	0615	0701	0645	N12	W32	.595	10670	8.9	46	-N				1.30			5 3 2 9	
	11	0612	0621		N11	W38	.662	10670	8.4	9	-N	2	V		1.10				
	11	0615	0700D		N12	W32	.595	10670	8.9	45D	1N								
	11	0620E	0713		N12	W33	.607	10670	8.8	53D	-N		P	0622	1.66	2.10			
	11	0621E	0650		N13	W31	.590	10670	8.9	29D	-N	1		0623	.93	1.13			
	11	0625E	0700	0645	N13	W35	.637	10670	8.6	35D	-F		C	0645	.62	.70			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
GRP29263	HTPR	11 0704	0743	0720	S11	W28	.472	10669	9.2	39	--F			1.07				4 4 2 9
	BUCA	11 0703	0735	0720	S12	W28	.474	10669	9.2	32	-F	C	0720	1.03	1.10		E	
	TEHR	11 0705	0800		S08	W31	.513	10669	9.0	55	-F	C	0722	1.10	1.30			
	ISTA	11 0705E	0720		S08	W31	.513	10669	9.0	150	-F							
	ISTA	11 0720	0727		S10	W27	.455	10669	9.3	7	-F							
	ISTA	11 0723	0735		S14	W23	.407	10669	9.6	12	-B							
	ISTA	11 0725	0735		S16	W22	.404	10669	9.7	10	-F							
GRP29265	ISTA	11 0801	0815	0810	N10	W31	.570	10670	9.0	14	-N						2 2 0 5	
	TEHR	11 0755	0815	0810	N08	W30	.545	10670	9.1	20	-B							
	TEHR	11 0807	0813	0810	N12	W32	.595	10670	8.9	60	-F							
GRP29266	HTPR	11 0810	0833	0815	S13	W25	.433	10669	9.5	23	1F			1.34			3 3 1 5	
	HTPR	11 0810	0830	0815	S12	W29	.489	10669	9.2	20	-F	C	0815	1.34	1.40		E	
	ISTA	11 0810	0835		S18	W20	.390	10669	9.8	25	1N							
	TEHR	11 0810	0815		S07	W29	.482	10669	9.2	50	1F							
	TEHR	11 0810	0818		S10	W21	.361	10669	9.8	80	1F							
GRP29272	TEHR	11 1049	1105	1051	N16	E19	.483	10675	12.9	16	--N			.36			4 4 2 7	
	RAMY	11 1045E	1102	1050	N13	E21	.472	10675	13.0	170	-N							
	HTPR	11 1047	1118	1051	N17	E16	.467	10675	12.6	31	-N	C		.31		DE		
	HTPR	11 1051	1056	1052	N15	E20	.482	10675	13.0	5	-F	C	1052	.41	.40			
	CANR	11 1052	1105		N18	E18	.497	10675	12.8	13	-N	2 V			.30			
GRP29273	LVOV	11 1146	1154	1149	S15	W33	.554	10669	9.0	8	-N			1.38			5 5 4 9	
	LVOV	11 1143	1154	1148	S17	W32	.547	10669	9.1	11	1N	C	1148	4.13	4.92	59	D	
	MONT	11 1146	1154	1148	S15	W33	.554	10669	9.0	8	-N	C	1148	.77				
	RAMY	11 1146	1156	1148	S14	W32	.537	10669	9.1	10	-F	C		.31		DE		
	CANR	11 1147	1152		S14	W32	.537	10669	9.1	5	-N	2 V			.40			
	HTPR	11 1148	1152	1150	S15	W36	.595	10669	8.8	4	-F	C	1150	.31	.40			
GRP29274	MONT	11 1207	1234	1218	N12	W37	.655	10670	8.7	27	-N			1.60			5 5 4 10	
	LVOV	11 1204	1248	1227	N14	W38	.678	10670	8.7	44	-N	C	1227	2.27				
	CANR	11 1204	1235	1219	N11	W37	.650	10670	8.7	31	1N	C	1219	2.58	3.35	60	E	
	CANR	11 1207	1221		N11	W37	.650	10670	8.7	14	-F	2 V			.90			
	RAMY	11 1208	1234	1212	N12	W37	.655	10670	8.7	26	-N	C		.83		F		
	MCMA	11 1210	1230	1213	N11	W34	.613	10670	9.0	200	-N	C	1213	.72	1.00		EL	
GRP29276	SANM	11 1359	1415	1402	S14	W27	.466	10669	9.6	16	-N			.95			5 5 5 10	
	SANM	11 1358	1424	1402	S13	W27	.462	10669	9.6	26	-N	2 C		.97	1.10		E	
	RAMY	11 1359	1414	1403	S14	W27	.466	10669	9.6	15	-N	C		.62		DE		
	MONT	11 1359	1411	1401	S14	W26	.451	10669	9.6	12	-N	C	1401	1.80				
	MCMA	11 1400	1413	1402	S15	W27	.470	10669	9.6	13	-N	C	1402	.62	.70		EK	
	HTPR	11 1400	1415	1402	S14	W29	.495	10669	9.4	15	-F	C	1402	.72	.80			
GRP29277	SANM	11 1402	1416	1406	S07	W35	.571	10669	9.0	14	--F			.49			3 3 3 9	
	SANM	11 1358	1419	1407	S07	W36	.585	10669	8.9	21	-F	2 C		.65	.79		E	
	MONT	11 1404	1413	1406	S07	W34	.556	10669	9.0	9	-N	C	1406	.52			DE	
	RAMY	11 1404	1416	1406	S08	W36	.585	10669	8.9	12	-F	C		.31				
GRP29279	RAMY	11 1525	1536	1528	N15	E14	.424	10675	12.7	11	--N			.54			4 4 3 5	
	RAMY	11 1524	1541	1528	N15	E14	.424	10675	12.7	17	-N	C		.36		DE		
	SANM	11 1524	1535	1527	N15	E15	.433	10675	12.8	11	-B	2 C		.65	.72		E	
	HTPR	11 1525	1534	1528	N15	E15	.433	10675	12.8	9	-F	C	1528	.62	.70			
	CANR	11 1526	1533		N16	E12	.422	10675	12.5	7	-N	2 V			.30			
GRP29280	RAMY	11 1533	1544	1536	S11	W40	.641	10669	8.6	11	--F			.48			3 3 2 5	
	SANM	11 1533	1546	1536	S11	W41	.654	10669	8.6	13	-F	C		.31		DE		
	SANM	11 1533	1545	1535	S11	W40	.641	10669	8.6	12	-F	2 C		.65	.85		E	
	CANR	11 1533	1542		S11	W40	.641	10669	8.6	9	-N	2 V			.40			
GRP29282	RAMY	11 1700	1713	1703	N16	E13	.429	10675	12.7	13	--F			.62			2 2 2 4	
	RAMY	11 1659	1716	1703	N16	E13	.429	10675	12.7	17	-F	C		.41		DE		
	MCMA	11 1700	1710	1703	N16	E12	.422	10675	12.6	10	-N	C	1703	.83	.90		EH	
GRP29283	CANR	11 1730	1741	1734	N17	E20	.504	10675	13.2	11	--F			.31			2 2 1 4	
	CANR	11 1729	1740		N17	E20	.504	10675	13.2	11	-N	2 V			.30			
	RAMY	11 1731	1741	1734	N17	E19	.495	10675	13.2	10	-F	C		.31		DE		
GRP29284	SANM	11 1756	1818	1803	N16	E19	.483	10675	13.2	22	--N			.69			4 4 3 4	
	SANM	11 1754	1828	1804	N15	E19	.472	10675	13.2	34	-N	2 C		1.13	1.28		E	
	CANR	11 1754	1813		N17	E20	.504	10675	13.2	19	-N	2 V			.50			
	RAMY	11 1755	1814	1801	N16	E18	.473	10675	13.1	19	-F	C		.41		DE		
	MCMA	11 1759	1815	1803	N16	E18	.473	10675	13.1	16	-N	C	1803	.52	.60		E	

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	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.													
GRP29285	11	1833	1847	1838	S15	W30	.512	10669	9.5	14	--N				.66				4 4 3 4
SANM	11	1831	1855	1835	S16	W30	.516	10669	9.5	24	-F	2	C		.80	.95			E
RAMY	11	1832	1848	1839	S15	W31	.526	10669	9.4	16	-N		C		.67				DE
CANR	11	1834	1839		S14	W29	.495	10669	9.6	5	-N	1	V			.40			E
MCMA	11	1836	1846	1839	S15	W28	.484	10669	9.7	10	-N		C	1839	.52	.60			
GRP29286	11	1853	2045	1941	N16	E13	.429	10675	12.8	112	--F				.88				3 2 2 4
RAMY	11	1853	1912	1858	N15	E13	.416	10675	12.8	19	-F		C		.41				DE
MCMA	11	1857E	2045		N16	E12	.422	10675	12.7	1080	-F		C	1904	1.34	1.50			EH
HOUT	11	2021	2044	2023U	N09	E14	.349	10675	12.9	23	-N		C		.90	1.00			
287 HOUT	11	2025	2045D	2035	S37	E22	.602	10674	13.5	200	-N		C		1.00	1.30			E 3
GRP29288	11	2315	2349	2317	N16	E11	.414	10675	12.8	34	-N				1.02				2 2 2 4
MANI	11	2314	2354	2317	N16	E11	.414	10675	12.8	40	-N	2		2317	.83	.98			
CRON	11	2316	2344		N15	E11	.400	10675	12.8	28	-	1	V		1.20				
GRP29290	12	0052	0208	0107	N28	W52	.870	10664	8.1	76	1F	2			2.32				3 3 3 3
MANI	12	0050	0217D	0107	N27	W55	.887	10664	7.9	87D	1F	2		0107	2.17	4.01			
CRON	12	0053	0140		N28	W48	.842	10664	8.4	47	1F	2	V		1.50				
CULG	12	0059E	0226D		N30	W53	.884	10664	8.1	87D	2N		P	0059	3.30	7.04			RS
GRP29291	12	0122	0133	0123	S01	W16	.287	10673	10.9	11	--F	2			.46				2 2 2 3
MANI	12	0119	0131	0123	S01	W16	.287	10673	10.9	12	-F			0123	.41	.43			
CRON	12	0124	0134		S01	W15	.271	10673	10.9	10	-	2	V		.50				
293 CRON	12	0204	0223		S07	E58	.844	10680	16.4	19	--F	2	V		.30				2
GRP29296	12	0620	0632	0621	S00	W17	.308	10673	11.0	12	1N				1.39				4 4 2 7
CULG	12	0617	0645	0622	N01	W19	.345	10673	10.8	28	1N		C	0622	2.17	2.20			HLRV
TEHR	12	0617	0626D	0620	S01	W18	.319	10673	10.9	90	1N								
ONDR	12	0620E	0626		S00	W13	.246	10673	11.3	6D	1B		V	0622			3.90		CDH
CRON	12	0624	0632		S01	W19	.335	10673	10.8	8	-	2	V		.60				
GRP29297	12	0624	0649	0626	S08	E55	.815	10680	16.4	25	-N				2.00				4 4 2 7
TEHR	12	0620	0637D	0625	S08	E55	.815	10680	16.4	17D	1N								
CRON	12	0626	0645	0627	S08	E56	.825	10680	16.5	19	-	2	V	0627	.90				
WEND	12	0626E	0655D		S09	E54	.805	10680	16.3	290	1N		V		3.09				
ONDR	12	0631E	0646		S07	E55	.815	10680	16.4	15D	-N		V	0632			2.40		D
GRP29300	12	0738	0800	0743	S08	E55	.815	10680	16.4	22	-N				1.84				5 5 3 6
WEND	12	0729	0759	0736	S09	E53	.795	10680	16.3	30	1N		V		4.13				
TEHR	12	0735E	0755D		S08	E55	.815	10680	16.4	200	1N								
CRON	12	0736	0759	0743	S08	E56	.825	10680	16.5	23	-B	2	V	0743	.40				
CAPS	12	0745E	0801		S06	E55	.816	10680	16.4	16D	-B	3	V	0749	1.00	1.70		195	
CANR	12	0747	0747D		S08	E54	.805	10680	16.4		-N	1	V		.50				
GRP29301	12	0757	0807	0800	N15	E11	.399	10675	13.2	10	--F				1.05				3 3 2 8
TEHR	12	0755	0804D	0800	N15	E08	.380	10675	12.9	9D	-F								
TEHR	12	0755	0805D	0800	N14	E14	.410	10675	13.4	100	-F								
CRON	12	0758	0810		N16	E09	.400	10675	13.0	12	-	2	V		1.10				
CAPS	12	0759E	0805		N16	E14	.436	10675	13.4	6D	-F	3	V	0804	1.00	1.10		152	
GRP29302	12	0837	0846	0841	N14	E14	.410	10675	13.4	9	--F				1.07				2 2 2 8
MONT	12	0837	0844	0841	N15	E12	.407	10675	13.3	7	-N		C	0841	1.13				
CAPS	12	0844E	0848		N13	E15	.407	10675	13.5	4D	-F	3	V	0847	1.00	1.10		152	
GRP29303	12	0945	0959	0947	N15	E12	.407	10675	13.3	14	-N				2.06				3 3 1 7
MONT	12	0945	0956	0946	N15	E11	.399	10675	13.2	11	-N		C	0946	2.06				
TEHR	12	0945E	0955D	0947	N14	E14	.410	10675	13.5	100	-F								
CANR	12	0945	1002		N17	E11	.427	10675	13.2	17	-N	2	V			.90			
GRP29304	12	0948	1009	0954	S07	E54	.805	10680	16.5	21	1N				1.53				6 5 3 8
MONT	12	0944	1011	0952	S08	E53	.795	10680	16.4	27	1B		C	0952	2.58				
TEHR	12	0945E	1005D	0952	S08	E55	.815	10680	16.5	200	1N		V						
CANR	12	0948	1006		S09	E54	.805	10680	16.5	18	-N	2	V			1.30			
HURB	12	0951	1006	0956	S07	E55	.815	10680	16.5	15	1F						2.30		
CAPS	12	0952E	1016D		S06	E55	.816	10680	16.5	24D	1N	3	V	0955	1.60	2.60		180	
CAPP	12	0958E	1007D		S07	E53	.795	10680	16.4	9D	-N		P	1002	.41	.88			

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	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
GRP29305	12	1007	1038	1018	N15	E12	.407	10675	13.3	31	1N			2.89				8 5 3 9
CAPS	12	1001E	10450		N15	E13	.415	10675	13.4	440	1N	3	P	1015	2.50	2.80	176	
MONT	12	1006	1039	1016	N15	E11	.399	10675	13.2	33	1B		C	1016	3.09			
CANR	12	1010	10120	1012	N17	E11	.427	10675	13.2	20	-B	2	V					
TEHR	12	1010	10200	1014	N15	E13	.415	10675	13.4	100	1B		P					
HURB	12	1013E	1034	1013	N14	E11	.385	10675	13.3	210	1N					2.30		G
CAPF	12	1015E	1038		N15	E11	.399	10675	13.3	230	1N		P	1023	3.09	4.20		
TEHR	12	1023E	10350	1025	N15	E13	.415	10675	13.4	120	1B		V					
ONDR	12	1024E	1035		N14	E12	.393	10675	13.3	110	2F		V	1025			2.90	
RAMY	12	1031E	1046	1033	N14	E11	.385	10675	13.3	150	-B		V		.98			F
GRP29306	12	1242	1257	1246	S08	E53	.795	10680	16.5	15	--N			.41				2 2 1 4
CANR	12	1241	1253	1247	S08	E53	.795	10680	16.5	12	-N	2	V		.50			
MCMA	12	1242	1300	1245	S08	E52	.784	10680	16.4	18	-N		C	1245	.41	.60		E
GRP29307	12	1345	1351	1348	N28	W60	.920	10664	8.1	6	--F			.26				3 3 1 8
RAMY	12	1343	1352	1348	N27	W61	.924	10664	8.0	9	-F		C					DE
MCMA	12	1346	1351	1348	N28	W64	.941	10664	7.8	5	-F		C	1348	.26	.70		E
BOUL	12	1346E	1351	1347	N29	W55	.893	10664	8.4	50	-F		V					
GRP29308	12	1451	1511	1454	S08	E51	.773	10680	16.4	20	-N			.93				5 5 4 7
MCMA	12	1420	14500	1433	S08	E52	.784	10680	16.5	300	-F		C	1433	.41	.60		EK
MCMA	12	1450	16000	1455	S08	E52	.784	10680	16.5	700	-N		C	1455	.41	.60		EK
RAMY	12	1451	1509	1453	S06	E51	.774	10680	16.4	18	-F		C		.57			F
BOUL	12	1453E	15050	1454	S08	E49	.751	10680	16.3	120	-N		V					
CAPS	12	1455E	15100		S06	E53	.795	10680	16.6	150	1N	3	V	1500	2.00	3.00	158	C
CATA	12	1455E	1515	1455	S10	E50	.762	10680	16.4	200	-B			1455	.75	1.17	224	
GRP29309	12	1501	1526	1508	N15	E02	.357	10675	12.8	25	--N			.80				3 3 2 7
MCMA	12	1459	1525	1508	N15	E02	.357	10675	12.8	26	-N		C	1508	1.03	1.10		E
RAMY	12	1500	1532	1508	N14	E02	.341	10675	12.8	32	-N		C		.57			DE
CANR	12	1505	1522		N15	E02	.357	10675	12.8	17	-N	2	V		.90			
GRP29310	12	1616	1634	1625	S07	E79	.980	10684	18.6	18	1F			.90				2 1 1 8
HOUT	12	1616	1634	1625U	S07	E79	.980	10684	18.6	18	1F		C		.90	2.70		
BOUL	12	1620	1635	1623	S05	E80	.983	10684	18.7	15	-N		V					
GRP29312	12	1703	1721	1706	N17	E07	.405	10675	13.2	18	-N			.91				5 5 3 6
HUAN	12	1702U	1712	1705U	N18	E06	.416	10675	13.2	100	-N	2	C	1705	.50	.50		E
RAMY	12	1703	1727	1705	N16	E07	.389	10675	13.2	24	-B		C		1.19			F
MCMA	12	1703	1728	1705	N17	E06	.400	10675	13.2	25	-N		C	1705	1.03	1.10		EV
BOUL	12	1703	1725D	1708	N17	E07	.405	10675	13.2	220	-F		V					
CANR	12	1703	1714	1705	N17	E07	.405	10675	13.2	11	-B	2	V					
GRP29314	12	1713	1845	1747	N11	W49	.784	10670	9.0	92	1B			2.25				6 5 3 6
CANR	12	1712	1742D	1742	N10	W50	.791	10670	9.0	300	1B	2	V		2.50			
MCMA	12	1713	1745D		N10	W50	.791	10670	9.0	320	1N		C	1740	1.29	2.10		F
RAMY	12	1715	1910	1741	N11	W49	.784	10670	9.0	115	1B		C		1.65			F
BOUL	12	1718	1826	1721	N10	W49	.781	10670	9.0	68	-B		V					
BOUL	12	1725E	1845	1750	N13	W45	.749	10670	9.4	800	-B		V					
HOUT	12	1734E	1830	1749U	N11	W51	.804	10670	8.9	560	2N		C		3.80	6.50		E
HUAN	12	1753E	1855D	1754U	N14	W53	.831	10670	8.8	620	1N	2	C	1754	1.75	2.90		E
GRP29317	12	1805	1828	1811	N17	E05	.397	10675	13.1	23	--N			.31				2 2 2 5
RAMY	12	1802	1832	1810	N17	E06	.400	10675	13.2	30	-N		C		.36			DE
HUAN	12	1808	1824	1812	N17	E04	.394	10675	13.1	16	-N	2	C	1812	.25	.30		E
GRP29319	12	1922	1953	1930	S08	E47	.728	10680	16.3	31	-N			.91				3 3 3 4
HOUT	12	1920	2000	1930U	S08	E46	.716	10680	16.3	40	-N		C		1.30	1.80		
RAMY	12	1922	1945	1932U	S08	E48	.739	10680	16.4	23	-F		C		.72			F
MCMA	12	1924	1953	1929	S08	E48	.739	10680	16.4	29	-N		C	1929	.72	1.10		E
GRP29320	12	1932	2012	1955	S22	W70	.935	10661	7.6	40	--F			.35				2 2 2 5
RAMY	12	1932	2012	1951U	S22	W69	.930	10661	7.6	40	-F		C		.21			DE
HUAN	12	1946E	2001D	1958U	S22	W70	.935	10661	7.6	150	-N	2	C	1958	.48			D
GRP29322	12	2123	2155	2130	S22	W69	.930	10661	7.7	32	-N			.94				6 5 4 6
HUAN	12	2010	2220	2137	S22	W70	.935	10661	7.6	130	-F	2	P	2137	.36			D
MCMA	12	2030E	2115D		S23	W68	.924	10661	7.8	45D	-B		C	2055	.26	.70		OK
HOUT	12	2122	2145	2129	S23	W70	.936	10661	7.6	23	1B		C		1.70	4.10		
CULG	12	2122	2218	2128	S20	W68	.923	10661	7.8	56	1B		C	2128	1.55			R
RAMY	12	2123	2136	2128	S22	W69	.930	10661	7.7	13	-F		C		.15			DE
BOUL	12	2125	2138	2128	S21	W69	.929	10661	7.7	13	-F		V					
GRP29323	12	2124	2133	2127	N17	E05	.397	10675	13.3	9	--F			.67				2 2 1 5
BOUL	12	2124	2129	2126	N18	E06	.416	10675	13.3	5	-F		V					
RAMY	12	2124	2137	2127U	N16	E04	.378	10675	13.2	13	-F		C		.67			FH

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	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
GRP29328 CRON VORO	13	0039	0055	(0042)	N17	E02	.389	10675	13.2	16	--B			.72				2 2 2 5
	13	0039	0055		N17	E03	.390	10675	13.3	16	-	2	V	.50				
	13	0041E	0055		N16	E00	.371	10675	13.0	140	-B		C	.93	.98		81	E
GRP29329 CULG CRON KODA TACH	13	0420	0436	0422	N16	W03	.374	10675	13.0	16	-B			1.80				4 4 4 4
	13	0414	0440	0422	N17	E01	.388	10675	13.3	26	1B		C	2.27	2.42			L
	13	0418	0439		N15	W02	.356	10675	13.0	21	-B	2	V	.70				
	13	0421	0431	0421	N16	W01	.371	10675	13.1	10	-B		C	0422	1.04	1.00	2.32	CEK
	13	0427	0433		N16	W09	.399	10675	12.5	6	1N		V	0428	3.19	3.48	1.42	54
GRP29333 CANR RAMY TEHR	13	1129	1143	1131	S08	W57	.835	10669	9.2	14	-N			.93				3 3 1 5
	13	1128	1145		S09	W59	.853	10669	9.1	17	-N	3	V		.80			
	13	1129	1142	1131	S09	W58	.844	10669	9.1	13	-N		C	.93				DE
	13	1135E	11420		S07	W54	.805	10669	9.4	70	-F							
GRP29334 CAPE MCMA	13	1205	1218	1210	N15	E90	1.000	10687	20.3	13	-N			.90				2 2 1 7
	13	1203	1220	1209	N14	E90	1.000	10687	20.3	17	-N		C	.90				TW
	13	1206	1215	1211	N16	E90	1.000	10687	20.3	9	-N		C					
GRP29335 CATA RAMY MCMA CAPE BOUL	13	1406	1417	1410	S07	W60	.863	10669	9.1	11	-N			.83				5 5 4 6
	13	1405	1420	1410	S05	W60	.864	10669	9.1	15	-B			.87	1.74		246	
	13	1406	1418	1408	S08	W60	.862	10669	9.1	12	-N		C	.83				DE
	13	1407	1417	1410	S07	W61	.871	10669	9.0	10	-N		C	1410	.62	1.30		E
	13	1407	1417	1410	S06	W60	.863	10669	9.1	10	-N		C	1410	.99	2.00		
	13	1407	1415	1410	S08	W58	.844	10669	9.2	8	-N		V					
GRP29340 RAMY BOUL	13	1551	1600	1554	S11	W64	.894	10669	8.9	9	--F			.72				2 2 1 4
	13	1548	1559	1551	S12	W63	.886	10669	8.9	11	-N		C	.72				DE
	13	1554	1600	1556	S10	W64	.895	10669	8.9	6	-F		V					
341 RAMY	13	1825	1855	1827	S13	W57	.835	10669	9.5	30	--N		C	.41				DE 3
	14	0152	0153	NO FLARE PATROL														
344 MANI	14	0255E	0309	0258	N18	E80	.991	10687	20.1	140	--F	2		0258	.26	.68		2
GRP29345 CULG BUCA	14	0605	0626	0620	N17	E83	.996	10687	20.5	21	-B			.59				2 2 2 5
	14	0600	0626	0620	N17	E86	.999	10687	20.7	26	1B		C	.62				
	14	0610	0626		N16	E80	.990	10687	20.3	16	-N		C	.55				D
GRP29347 ISTA MANI TEHR CATA CANR	14	0814	0825	0816	N15	W21	.490	10675	12.8	11	-N			.94				5 5 2 6
	14	0811	0821		N15	W20	.480	10675	12.8	10	-F							
	14	0812	0826	0816	N15	W22	.501	10675	12.7	14	-N	2		0816	.83	.97		
	14	0815E	0821D	0818	N15	W20	.480	10675	12.8	6D	1F							
	14	0815	0835	0815	N16	W21	.501	10675	12.8	20	-B			0815	1.04	1.20	219	
	14	0816	0824		N13	W20	.458	10675	12.8	8	-N	2	V		.50			
GRP29348 TEHR HERS RAMY CAPS	14	1109	1128	1116	N11	W68	.938	10670	9.4	19	-N			.43				4 4 2 6
	14	1100	1120D	1115	N11	W67	.932	10670	9.4	20D	1N							
	14	1113E	1124	1116	N10	W75	.972	10670	8.8	11D	-N		P	1116	.46	1.30		D
	14	1114	1128	1116	N11	W65	.919	10670	9.6	14	-N		C					F
	14	1115E	1132D		N10	W65	.918	10670	9.6	17D	-N	3	V	1118	.40		175	E
354 RAMY	14	2001	2015	2004	N20	W22	.553	10675	13.2	14	--F		C	.31				DE 3
GRP29356 MANI CRON	15	0030	0040	0034	N16	E74	.972	10687	20.6	10	--B			.36				2 2 2 3
	15	0029	0043	0034	N14	E75	.974	10687	20.6	14	-N	2		.31	.76			
	15	0030	0036		N17	E73	.968	10687	20.5	6	-B	2	V	.40				
GRP29360 CULG CRON CRON KODA MANI	15	0404	0518	0420	N13	W86	.999	10670	8.7	74	2B			7.09				4 3 3 4
	15	0354	0530		N14	W85	.998	10670	8.8	96	2B		P	0416	2.06			K
	15	0413	0505	0418	N13	W87	1.000	10670	8.7	52	2B	2	V	0418	7.20			
	15	0413	0505	0418	N13	W87	1.000	10670	8.7	52	2B	2	V	0418	1.60			
	15	0419E	0519D	0421	N11	W85	.998	10670	8.8	60D	2B		C	0429	12.01	12.00	4.20	CIKX
	15	0432E	0538		N15	W85	.998	10670	8.8	66D	1B	2		0434	1.65	4.70		
361 CULG	15	0417	0431	0420	S06	W77	.973	10669	9.4	14	1N		C	0420	.93			3
GRP29366 RAMY SANM CANR BOUL MONT MCMA CATA	15	1342	1354	1347	N14	W43	.731	10675	12.3	12	--N			.44				7 7 5 11
	15	1341	1357	1343	N12	W44	.733	10675	12.3	16	-N		C	.41				DE
	15	1342	1350	1348	N13	W42	.716	10675	12.4	8	-N	1	C	.48	.72			D
	15	1342	1355		N15	W45	.756	10675	12.2	13	-N	2	V		.60			
	15	1343	1352	1344	N14	W44	.742	10675	12.3	9	-N		V					
	15	1343	1352	1348	N15	W43	.735	10675	12.3	9	-N		C	1348	.52			
	15	1343	1350		N12	W44	.733	10675	12.3	7	-N		C	1348	.21	.30		EK
	15	1345E	1400D	1350	N15	W42	.725	10675	12.4	15D	-B			1350	.58	.85	219	
372 MITK	16	0149	0203	0153	N14	W90	1.000	10670	9.3	14	1F		C	0153	.93			3

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
373 MANI	16	0223E	0315		N16	W45	.760	10675	12.7	520	-N	2	0223	1.24	1.91			4
GRP29374	16	0645	0729	0704	N15	W50	.805	10675	12.5	44	1N			1.22				6 5 4 12
CAPE	16	0635	0725	0656	N15	W49	.796	10675	12.6	50	1N		C	0656	1.22	2.10		T
HTPR	16	0655	0727	0700	N15	W50	.805	10675	12.5	32	-F		C	0700	1.03	1.60		
CAPS	16	0657E	0744D		N15	W50	.805	10675	12.5	470	1N	2	S	0703	2.00	3.40		175
ONDR	16	0700E	0721		N15	W50	.805	10675	12.5	210	1N		V	0710			2.40	C
MANI	16	0710E	0730		N15	W49	.796	10675	12.6	200	-N	2		0710	.62	.98		
ZURI	16	0715E	0720	0715	N15	W52	.824	10675	12.4	50	1N		P	0715	1.74	2.90		
GRP29378	16	1254	1313	1259	S07	E53	.795	10684	20.5	19	--N				.31			5 5 3 9
CANR	16	1240	1321		S05	E55	.817	10684	20.7	41	-N	2	V					
RAMY	16	1253	1309	1258	S07	E51	.774	10684	20.4	16	-N		C		.31			DE
CAPS	16	1253E	1323D		S08	E55	.815	10684	20.7	300	-N	3	V	1300	.30			170
HTPR	16	1255	1306	1301	S06	E51	.774	10684	20.4	11	-F		C	1301	.31	.50		E
BOUL	16	1255	1308	1259	S08	E54	.805	10684	20.6	13	-N		V					
GRP29381	16	1406	1417	1409	N15	W54	.842	10675	12.5	11	-N				.75			4 4 3 11
MONT	16	1404	1419	1409	N15	W54	.842	10675	12.5	15	-N		C	1409	1.13			
RAMY	16	1405	1416D	1409	N14	W55	.848	10675	12.5	110	-N		C		.41			DE
HTPR	16	1406	1415	1408	N15	W54	.842	10675	12.5	9	-F		C	1408	.72	1.10		
BOUL	16	1410	1417	1411	N14	W53	.830	10675	12.6	7	-N		V					
GRP29387	16	1751	1813	1756	N15	W54	.842	10675	12.7	22	-N				1.58			3 3 2 5
SANM	16	1745	1813	1755	N14	W55	.848	10675	12.6	28	1B	1	C		2.59	4.88		E
BOUL	16	1753	1812	1758	N15	W53	.833	10675	12.8	19	-N		V					F
RAMY	16	1754	1813	1755	N15	W54	.842	10675	12.7	19	-N		C		.57			
GRP29388	16	1913	1932	1920	S08	E49	.751	10684	20.5	19	-N				.72			3 3 2 4
SANM	16	1908E	1934		S07	E47	.728	10684	20.3	260	-N	1	P	1917	.97	1.42		E
RAMY	16	1914	1923D	1921U	S08	E50	.762	10684	20.6	90	-F		C		.46			F
BOUL	16	1917	1930	1918	S09	E49	.751	10684	20.5	13	-N		V					
GRP29389	16	1951	2002	1954	N13	W11	.367	10679	16.0	11	--F				.46			2 2 1 3
RAMY	16	1950	2004	1955U	N12	W12	.362	10679	15.9	14	-N		C		.46			DE
BOUL	16	1951	1959	1953	N13	W10	.359	10679	16.1	8	-F		V	1953		.50		
392 BOUL	16	2152E	2152D	2152	S11	E51	.774	10684	20.7		--F		S	2152		.80		3
GRP29396	17	0128	0202	0132	N13	W16	.413	10679	15.9	34	-B				1.62			5 5 5 5
CULG	17	0126	0230	0133	N15	W15	.427	10679	15.9	64	1N		C	0133	2.58	2.75		L
VORO	17	0127	0147	0134	N11	W17	.401	10679	15.8	20	-B		C	0134	1.02	1.10		126
MANI	17	0127	0159	0131	N12	W13	.370	10679	16.1	32	-B	3		0131	1.55	1.64		E
CRON	17	0130	0158	0130	N11	W18	.412	10679	15.7	28	-	2	V	0130	1.50			
CRON	17	0132	0156	0136	N14	W20	.466	10679	15.6	24	-	2	V	0136	.60			
KODA	17	0138E	0155		N13	W17	.423	10679	15.8	170	-N		C	0138	1.43	1.40		E
GRP29398	17	0339	0359	0342	S06	E45	.704	10684	20.5	20	-B				1.09			3 2 2 5
MANI	17	0339	0358		S07	E47	.728	10684	20.7	19	-N	1		0344	1.34	1.59		
VORO	17	0339	0349	0342	S06	E45	.704	10684	20.5	10	-B		C	0342	.84	1.10		88
CRON	17	0350	0410		S05	E44	.692	10684	20.5	20	-F	2	V		.90			E
GRP29400	17	0721	0741	0728	N12	W17	.412	10679	16.0	20	--N				.53			3 3 3 10
MANI	17	0721	0743	0725	N12	W16	.401	10679	16.1	22	-N	1		0725	.52	.56		
CAPS	17	0725E	0740		N11	W15	.378	10679	16.2	150	-N		V	0728	.60	.60		180
CATA	17	0730E	0740D	0730	N14	W19	.456	10679	15.9	100	-B			0730	.46	.52		214
GRP29401	17	0917	0924	0921	N15	W67	.936	10675	12.4	7	-N				.64			3 3 2 12
CANR	17	0915	0924		N16	W66	.932	10675	12.4	9	-N	3	V			.50		
MONT	17	0918	0924	0921	N15	W67	.936	10675	12.4	6	-N		C	0921	.77			
CRON	17	0919	0924		N13	W68	.940	10675	12.3	5	-	1	V		.50			
GRP29405	17	2009	2031	2015	N15	W26	.543	10679	15.9	22	--F				.52			2 2 2 2
MCMA	17	2009	2027	2018	N15	W24	.521	10679	16.0	18	-N		C	2018	.41	.50		E
RAMY	17	2012E	2034D	2012E	N15	W28	.566	10679	15.7	220	-F		C		.62			DE
GRP29406	17	2027	2115	2040	N15	W68	.942	10675	12.8	48	--F				.52			2 1 1 2
MCMA	17	2027	2115	2040	N15	W68	.942	10675	12.8	48	-F		C	2040	.52	1.50		FK
RAMY	17	2028E	2058D	2028E	N13	W70	.951	10675	12.6	300	-N		C		.83			F
407 MCMA	17	2045	2120	2052	N15	W24	.521	10679	16.1	35	--N		C	2052	.52	.60		EL 2
GRP29409	17	2342	0020	2348	N19	W77	.984	10675	12.2	38	-N				.86			2 2 2 4
CULG	17	2339	0035	2347	N18	W79	.989	10675	12.1	56	1N		C	2347	.88			T
MANI	17	2344	0005	2348	N19	W74	.974	10675	12.4	21	-N	2		2348	.83	1.95		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _a	MAX. INT. %	
					LAT.	MER. DIST.												
GRP29411	18	0207	0222	0207	N18	W74	.973	10675	12.5	15	-N			.89				3 3 3 4
MANI	18	0206E	0224	0207	N19	W72	.966	10675	12.7	180	-N	2	0207	.72	1.64			
KODA	18	0206E	0225	0206	N15	W73	.966	10675	12.6	190	-N		P	0208	1.24	1.20	2.28	CEK
CRON	18	0208	0218	0208	N19	W76	.980	10675	12.4	10	-	2	V	0208	.70			
412 MANI	18	0302	0316	0306	N16	W72	.963	10675	12.7	14	-N	2		0306	.52	1.17		4
GRP29413	18	0320	0347	0323	N12	W75	.973	10675	12.5	27	--F			.56				2 2 2 4
MANI	18	0320	0353	0324	N10	W73	.963	10675	12.7	33	-N	2		0324	.62	1.44		
CRON	18	0320	0340	0321	N14	W76	.977	10675	12.4	20	-F	2	V	0321	.50			
GRP29414	18	0554	0611	0556	N17	W75	.976	10675	12.6	17	-N			.68				2 2 2 5
CULG	18	0554	0605	0556	N17	W76	.979	10675	12.5	11	1N		C	0556	.83			T
MANI	18	0605E	0617		N17	W74	.972	10675	12.7	120	-N	2		0605	.52	1.22		
GRP29415	18	0621	0634	0624	N17	W76	.979	10675	12.6	13	1B			1.58				6 6 5 8
CULG	18	0615	0640	0624	N17	W77	.982	10675	12.5	25	1B		C	0624	1.55			T
MANI	18	0619	0635	0623	N17	W75	.976	10675	12.6	16	1N	2		0623	1.44	3.42		
CRON	18	0620	0635		N19	W78	.986	10675	12.4	15	-	2	V		.50			
CAPE	18	0621	0631	0624	N17	W76	.979	10675	12.6	10	1B		C	0624	1.45			
CAPS	18	0624	0630		N16	W72	.963	10675	12.9	6	-B	3	V	0625			230	CD
ZURI	18	0624E	0630	0624	N16	W77	.982	10675	12.5	60	2N		P	0624	2.94			
GRP29417	18	0715	0726	0717	N17	W51	.820	10677	14.5	11	-F			.84				2 2 2 10
ABST	18	0713	0728	0717	N17	W53	.838	10677	14.3	15	1F		C	0717	1.07	2.10		48
CRON	18	0716	0723		N17	W49	.802	10677	14.6	7	-	2	V		.60			D
GRP29422	18	1019	1030	1022	N17	W78	.985	10675	12.6	11	1N			1.32				6 6 5 9
CAPE	18	1018	1027	1022	N18	W78	.986	10675	12.6	9	-N		C	1022	.90			
MONT	18	1018	1036	1023	N18	W76	.980	10675	12.7	18	-N		C	1023	2.06			
ONDR	18	1019E	1028		N16	W77	.982	10675	12.7	90	1N		V	1023		3.50		C
ABST	18	1019	1035	1021	N18	W75	.976	10675	12.8	16	1N		C	1021	1.35			52
ZURI	18	1020	1026	1022	N16	W79	.988	10675	12.5	6	1N		C	1022	1.26			DK
HTPR	18	1021	1027	1023	N16	W80	.990	10675	12.4	6	1N		C	1023	1.03			
GRP29423	18	1122	1132	1125	N18	W56	.866	10677	14.3	10	1N			1.09				5 4 4 8
MONT	18	1119	1133	1125	N16	W65	.926	10677	13.6	14	-N		C	1125	2.27			
RAMY	18	1120	1134	1126	N17	W58	.879	10677	14.1	14	-N		C		.72			DE
CAPE	18	1120	1130	1123	N17	W56	.863	10677	14.3	10	-N		C	1123	1.04	2.00		H
UCCL	18	1121	11240		N19	W57	.876	10677	14.2	30	2N		P	1122	1.85			D
HTPR	18	1122	1130	1124	N17	W55	.855	10677	14.3	8	-N		C	1124	1.03	1.70		
CATA	18	1125	1135	1125	N20	W53	.847	10677	14.5	10	-B			1125	.80	1.58		331
GRP29427	18	1745	1825	(1816)	N17	W76	.979	10675	13.0	40	-N			.32				3 1 1 4
CANR	18	1744	1752		N18	W72	.965	10675	13.3	8	-N	2	V		1.00			
SANM	18	1746E	1825		N15	W80	.990	10675	12.7	390	-N	1	P	1816	.32			D
HUAN	18	1816E	18210		N13	W90	1.000	10675	12.0	50	-F	1	C	1818	.25			D
GRP29428	18	2226	2245	2228	N18	W73	.969	10675	13.5	19	1B			1.12				3 2 2 4
MANI	18	2225E	2252	2228	N17	W72	.964	10675	13.5	270	1N	2		2228	1.13	2.40		
VORO	18	2226	2237	2227	N18	W73	.969	10675	13.5	11	1B		C	2227	1.11	3.80		104
CULG	18	2235	2253	2239	N20	W70	.958	10675	13.7	18	2B		C	2239	2.48			
GRP29429	18	2306	2322	2312	N20	W75	.978	10675	13.3	16	1N			.82				2 2 2 4
CULG	18	2302	2324	2312	N19	W72	.966	10675	13.6	22	1N		C	2312	.83			R
CRON	18	2310	2320		N20	W77	.984	10675	13.2	10	1	1	V		.80			
GRP29431	19	0115	0126	0119	N22	E69	.955	10692	24.2	11	-N			.39				2 2 2 3
VORO	19	0111	01290	0119	N23	E68	.952	10692	24.1	180	-B		C	0119	.37	1.00		71
CRON	19	0118	0123		N20	E69	.953	10692	24.2	5	-F	2	V		.40			D
435 MANI	19	2235	2255	2238	N16	E15	.438	10687	21.1	20	--F	2		2238	1.03	1.14		2
GRP29439	20	1206	1224	1210	S08	E34	.557	10691	23.1	18	--F			.38				3 2 2 5
CANR	20	1205	1215		S07	E32	.528	10691	22.9	10	-N	2	V					
RAMY	20	1206	1218	1210	S08	E34	.557	10691	23.1	12	-F		C		.36			DE
CAPS	20	1210E	12300		S07	E34	.557	10691	23.1	200	-N	3	V	1213	.40	.50		165
GRP29440	20	1249	1306	1251	S06	W02	.037	10684	20.4	17	--F			.36				2 2 2 6
RAMY	20	1249	1309	1251	S06	W04	.071	10684	20.2	20	-F		C		.21			DE
CAPS	20	1250E	1302		S05	E01	.018	10684	20.6	120	-N	3	V	1251	.50	.50		160
GRP29441	20	1834	1856	1835	S08	E31	.514	10691	23.1	22	--F			.21				2 2 1 5
BOUL	20	1834	1856	1835	S07	E32	.528	10691	23.2	22	-N		V					
RAMY	20	1834	18370	1835	S08	E30	.499	10691	23.0	30	-F		C		.21			DE

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.														
	1970 APR																			
GRP29450	HOUT	21	1419	1449	1421	S06	W17	.291	10684	20.3	30	--F				1.31			6 5 4 11	
	SANM	21	1417	1455	1421	S07	W18	.309	10684	20.2	38	-N		C		1.20	1.30	E		
	ZURI	21	1419	1448	1422	S06	W17	.291	10684	20.3	29	-F	1	C		.80	.84	E		
	CAPE	21	1419	1448	1420	S06	W16	.275	10684	20.4	29	-F		C	1420	.97	1.00			
	CATA	21	1419	1450	1422	S06	W17	.291	10684	20.3	31	1F		C	1422	2.03	2.10			
	BOUL	21	1420	1445	1420	S06	W18	.308	10684	20.2	25	-N			1420	1.44	1.52	151		
		21	1422E	1452		S06	W18	.308	10684	20.2	300	1F		S						
GRP29453	SANM	21	1506	1524	1510	N20	W10	.454	10687	20.9	18	-N				1.69		5 5 4 11		
	CAPE	21	1504	1525D		N16	W07	.378	10687	21.1	210	-N	1	P	1509	.80	.87	E		
	BOUL	21	1505	1525D	1510	N16	W07	.378	10687	21.1	200	1N		P	1510	1.94	2.10			
	WEND	21	1506	1516D	1509	N18	W13	.445	10687	20.7	100	-N		S						
	ZURI	21	1507	1524		N26	W17	.577	10687	20.4	17	1N		P		3.09				
		21	1509	1520	1510	N26	W05	.523	10687	21.3	11	-F		C	1510	.91	1.00			
GRP29454	HOUT	21	1537	1546	1539	S10	W71	.942	10680	16.3	9	--F				.47		3 2 2 8		
	ZURI	21	1536	1555	1538U	S10	N70	.936	10680	26.9	19	-N		C		.80	1.80	L		
	HUAN	21	1536	1543	1538	S10	W68	.924	10680	16.5	7	-F		C	1538	.69				
		21	1537	1548	1539	S09	W74	.958	10680	16.1	11	-F	1	C	1539	.25		D		
		21	1949	2000		NO FLARE PATROL														
458 HOUT	21	2020	2140	2036U	S21	W71	.942	10680	16.5	80	1N		C		2.10	4.20	EL 4			
460 MANI	22	0115	0150	0118	N12	E53	.823	10698	26.0	35	-N	2		0118	.62	1.05	4			
GRP29470	RAMY	22	1404	1417	1410	N03	W37	.613	10684	19.8	13	-N				.94		3 3 3 5		
	MCMA	22	1403	1420	1409	N03	W38	.627	10684	19.7	17	-N		C		.83		DE		
	ZURI	22	1403	1418	1410	N03	W37	.613	10684	19.8	15	-N		C	1410	.62	.80	DH		
		22	1407	1412	1410	N03	W36	.600	10684	19.9	5	-N		C	1410	1.36	1.70			
472 RAMY	22	1726	1731	1727	N04	W40	.656	10684	19.7	5	--N		C		.41		DE 2			
474 MANI	23	0444E	0508D		N22	E23	.575	10692	24.9	240	--F	1		0448	.72	.90	3			
475 CRON	23	0520	0528		N25	E15	.549	10692	24.3	8	--F	2	V		.40		2			
GRP29477	ZURI	23	0918	0944	0929	S09	W06	.125	10691	22.9	26	--F				1.53		3 3 3 7		
	CRON	23	0910	0938	0927	S08	W07	.132	10691	22.9	28	-F		C	0927	1.89	1.90			
	ABST	23	0926	0943		S09	W06	.125	10691	22.9	17	-F	1	V		.90				
		23	0930E	0950D	0930	S09	W06	.125	10691	22.9	200	-F		P	0930	1.79	1.70	50 E		
	23	1927	1928		NO FLARE PATROL															
GRP29487	MCMA	23	2110	2126	2118	N05	W56	.837	10684	19.7	16	--N				.36		2 2 2 4		
	RAMY	23	2104	2126		N04	W57	.845	10684	19.6	22	-N		C	2117	.41	.70	EHK		
		23	2116	2126	2118	N06	W54	.819	10684	19.8	10	-N		V		.31		DE		
GRP29488	MANI	23	2208	2231	2212	S07	W11	.193	10691	23.1	23	-N				.66		4 4 3 4		
	BOUL	23	2205E	2230	2212	S08	W13	.230	10691	22.9	250	-N	2		2212	.62	.64			
	VORO	23	2208	2235	2214	S07	W11	.193	10691	23.1	27	-N		V	2214		1.90			
	RAMY	23	2208	2229	2210	S07	W12	.210	10691	23.0	21	-B		C	2210	.74	.80	94		
		23	2209	2219D	2213	S05	W08	.139	10691	23.3	100	-N		V		.62		EJ DE		
GRP29489	MANI	23	2231	2243	2233	N05	W59	.864	10684	19.5	12	-B				.53		2 2 2 3		
	VORO	23	2230	2247	2232	N08	W60	.877	10684	19.4	17	-N	2		2232	.41	.75			
		23	2231	2238	2234	N01	W58	.850	10684	19.6	7	-B		C	2234	.65	1.20	83 DE		
490 VORO	23	2355	0010	2357	N07	W60	.875	10684	19.5	15	--B		C	2357	.37	.70	83 DE 4			
GRP29493	CRON	24	0148	0201	0152	N04	W60	.871	10684	19.6	13	-N				1.39		3 3 3 4		
	SIBE	24	0148	0206	0152	N04	W61	.879	10684	19.5	18	-	1	V	0152	.60				
	KODA	24	0148	0159	0151	N04	W60	.871	10684	19.6	11	-F		C	0151	.83	1.70	73 D		
		24	0152E	0158	0152	N03	W60	.870	10684	19.6	60	1B		P	0158	2.74	2.70	CD		
GRP29494	MANI	24	0413	0423	0415	N05	W60	.872	10684	19.7	10	-N				.78		2 2 2 6		
	MITK	24	0412E	0426		N05	W61	.881	10684	19.6	140	-N	1		0415	.83	1.60			
		24	0414	0420	0415	N04	W59	.863	10684	19.8	6	-N		C	0415	.72	1.50	DH		
GRP29495	MANI	24	0429	0446	0433	N04	W62	.888	10684	19.5	17	1F				1.04		5 5 5 6		
	CULG	24	0426	0448	0429	N03	W64	.902	10684	19.4	22	-F	1		0429	.41	.83			
	MITK	24	0427E	0455	0434	N05	W62	.889	10684	19.5	280	1N		P	0434	1.03	2.10			
	TACH	24	0428	0446	0434	N03	W62	.887	10684	19.5	18	1N		C	0434	1.34	2.70			
	CRON	24	0432	0438		N04	W60	.871	10684	19.7	6	1F		V	0432	1.83	3.50	2.74 57 D		
		24	0432	0442	0433	N04	W61	.879	10684	19.6	10	-	1	V	0433	.60				
GRP29496	CRON	24	0546	0559	0551	N05	W63	.896	10684	19.5	13	--F				.80		2 2 2 4		
	ABST	24	0546	0558		N04	W62	.888	10684	19.6	12	-	1	V		.70				
		24	0550E	0600D	0551	N05	W63	.896	10684	19.5	100	-F		P	0551	.90	1.90	50 D		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLACE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hq	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 APR																	
GRP29497	24	0746	0810	0750	N05	W62	.889	10684	19.7	24	--F				.90			2 2 1 5
ISTA	24	0745	0800	0750	N05	W59	.864	10684	19.9	15	-N							
ABST	24	0747	0820	0750	N05	W64	.904	10684	19.5	33	-F		C	0750	.90	1.98	50	E
GRP29500	24	0907	0924	0909	N05	W65	.911	10684	19.5	17	-N				1.35			5 5 4 6
ABST	24	0907	0920	0909	N06	W66	.919	10684	19.4	13	-N		C	0909	1.07		60	D
CAPE	24	0907	0925	0909	N06	W63	.897	10684	19.7	18	1B		C	0909	1.86	4.20		T
CANR	24	0907	0928	0908	N06	W66	.919	10684	19.4	21	-N	3	V		1.90			
HTPR	24	0909E	0920		N06	W64	.905	10684	19.6	11D	-N		C	0909	1.03	2.00		B
CAPF	24	0913E	0928		N03	W64	.902	10684	19.6	15D	1N		P	0917	1.44			
GRP29501	24	1042	1055		N06	W65	.912	10684	19.6	13	-N				.97			3 3 2 4
CAPE	24	1040	1055	1047	N06	W64	.905	10684	19.6	15	-N		C	1047	.90	2.00		
HTPR	24	1040	1052	1046	N06	W65	.912	10684	19.6	12	-N		C	1046	1.03	2.00		
CANR	24	1047	1058		N06	W67	.926	10684	19.4	11	-F	3	V		1.50			
GRP29502	24	1250	1352		N05	W65	.911	10684	19.7	62	-N				1.59			3 3 2 5
BOUL	24	1249	1308	1251	N04	W65	.910	10684	19.7	19	-N		V					
LVOV	24	1252E	1402D	1336	N06	W67	.926	10684	19.5	70D	1N		C	1339	2.68	5.14	80	EHK
BOUL	24	1332	1346	1335	N04	W65	.910	10684	19.7	14	-N		V					
CAPS	24	1335E	1347D		N05	W62	.889	10684	19.9	12D	-N		V	1337	.50	1.00	165	
GRP29503	24	1524	1547	1528	N05	W66	.918	10684	19.7	23	-N				.57			5 5 3 7
LOCA	24	1520	1550	1528	N05	W65	.911	10684	19.8	30	-N		V	1528	.63	1.20		
RAMY	24	1524E	1543	1526U	N06	W65	.912	10684	19.8	19D	-N		V		.31			DE
CANR	24	1524	1550		N06	W69	.938	10684	19.5	26	-N	2	V		1.50			
BOUL	24	1525	1545D	1527	N04	W66	.917	10684	19.7	20D	-N		V					
MONT	24	1529	1548	1530	N06	W66	.919	10684	19.7	19	-N		C	1530	.77			
GRP29505	24	1817	1828	1818	N03	W76	.972	10684	19.1	11	--N				.21			2 2 1 5
MCMA	24	1816	1830	1818	N03	W72	.953	10684	19.4	14	-N		C	1818	.21	.80		D
BOUL	24	1817	1825	1818	N02	W79	.982	10684	18.8	8	-N		V					
GRP29506	24	1933	2010	1947	N03	W73	.958	10684	19.3	37	--F				.52			2 2 1 3
MCMA	24	1924	1946D	1926	N02	W73	.958	10684	19.3	22D	-F		C	1926	.52	1.90		E
BOUL	24	1941	1950	1942	N02	W79	.982	10684	18.9	9	-N		V	1942	.50			
MCMA	24	1948	2010	1951	N02	W73	.958	10684	19.3	22	-N		C	1951	.52	1.90		E
BOUL	24	2003E	2009D	2005	N04	W68	.930	10684	19.7	6D	-F		V					
GRP29509	24	2108	2119	2112	N04	W71	.948	10684	19.6	11	--N				.18			3 3 2 4
BOUL	24	2106	2120	2111	N03	W73	.958	10684	19.4	14	-N		V					
RAMY	24	2110	2117	2111	N05	W69	.937	10684	19.7	7	-N		V		.15			DE
MCMA	24	2112E	2115D	2114	N04	W70	.943	10684	19.6	3D	-N		P	2114	.21	.80	0	O
GRP29511	25	0037	0058	0038	N05	W73	.959	10684	19.6	21	1B				1.61			5 4 3 5
MANI	25	0036	0056	0039	N05	W72	.954	10684	19.6	20	1B	3		0039	1.86	4.50		
VORO	25	0037	0043	0037	N02	W73	.958	10684	19.6	6	1B		C	0037	1.02	3.20	101	D
CULG	25	0037	0110	0039	N07	W73	.960	10684	19.6	33	1B		C	0039	1.96			V
BOUL	25	0038E	0052	0038	N05	W72	.954	10684	19.6	14D	1B		V	0038		4.50		
CRON	25	0052	0108		N04	W75	.968	10684	19.4	16	1N	1	V		1.00			
515 MANI	25	0432E	0447		N04	W74	.963	10684	19.6	15D	-N	2		0433	.83	2.00		2
GRP29518	25	0525	0633	0618	N19	E69	.951	10708	30.4	68	-B				.36			3 3 2 8
TEHR	25	0525E	0825D	0618	N19	E66	.934	10708	30.2	180D	1B							
CAPS	25	0616E	0720D		N19	E71	.960	10708	30.6	64D	-B	2	S	0617	.30		200	
MANI	25	0624E	0633		N19	E70	.955	10708	30.5	9D	-N	3		0624	.41	.92		
GRP29523	25	0650	0836	0800	S09	W29	.486	10691	23.1	106	--N				.31			3 3 1 8
ISTA	25	0650	0825		S09	W25	.425	10691	23.4	95	-B							
HTPR	25	0747	0847	0800	S08	W33	.544	10691	22.8	60	-F		C	0800	.31	.30		
TEHR	25	0805E	0818D		S09	W28	.471	10691	23.2	13D	1F							
7 STATIONS REPORTING GROUP 29524. 3 STATIONS OBSERVING AND NOT REPORTING.																		
GRP29524	25	0725	0750	0726	N19	E69	.951	10708	30.5	25	-B				.49			4 4 3 9
TEHR	25	0525E	0825D	0725	N19	E66	.934	10708	30.2	180D	1B		P					H
HTPR	25	0723E	0945	0727	N18	E70	.954	10708	30.6	142D	-N		C	0727	.52			T
MANI	25	0725	0749	0726	N19	E69	.951	10708	30.5	24	-B	3		0726	.31	.67		
ZURI	25	0726	0750	0726	N19	E69	.951	10708	30.5	24	-N		C	0726	.63			
29524	25	0700	0810	0745	N19	E72	.964	10708	30.7	7D	*-N							4 3 0 9
ISTA	25	0635E	0815	0745	N19	E73	.969	10708	30.7	100D	-B							
CRON	25	0656	0711		N19	E68	.945	10708	30.4	15	-N	1	V		.30			
CANR	25	0705	0715		N19	E72	.964	10708	30.7	10	-N	1	V			.80		
HTPR	25	0723E	0945	0744	N18	E70	.954	10708	30.6	142D	-N							
CANR	25	0755	0806		N19	E72	.964	10708	30.7	11	-N	1	V			.80		

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
	1970 APR																		
GRP29526	25	0803	0811	0806	S07	E77	.973	10709	1.1	8	-F				1.09			4 4 2 7	
MANI	25	0802E	0810D	0806	S05	E76	.969	10709	1.0	80	1N	2		0806	1.55	3.70			
HTPR	25	0802	0814	0805	S08	E75	.964	10709	1.0	12	-F		C	0805	.62				
TEHR	25	0803E	0814D	0808	S08	E76	.968	10709	1.0	110	1F						H		
CANR	25	0804	0807		S08	E81	.986	10709	1.4	3	-N	1	V			1.60			
GRP29528	25	0856	0945	0859	N19	E70	.955	10708	30.6	49	--N				.41			2 2 1 5	
HTPR	25	0723E	0945	0858	N18	E70	.954	10708	30.6	1420	-N								
HTPR	25	0723E	0945	0837	N18	E70	.954	10708	30.6	1420	-N								
MANI	25	0856	0906D	0859	N20	E70	.956	10708	30.6	100	-N	2		0859	.41	.92			
GRP29530	25	1010	1029	1011	S09	W31	.516	10691	23.1	19	--F				.41			2 2 2 6	
HTPR	25	1010	1023	1011	S08	W34	.558	10691	22.9	13	-F		C	1011	.31	.30			
CAPS	25	1015E	1034		S09	W27	.456	10691	23.4	190	-N	1	V	1016	.50	.50			
GRP29533	25	1345	1406	1349	S08	W36	.587	10691	22.9	21	-N				.98			7 7 6 8	
SANM	25	1344E	1415		S08	W37	.600	10691	22.8	310	-B	1	P	1349	.97	1.23			
HTPR	25	1345	1355	1349	S08	W35	.572	10691	22.9	10	-F		C	1349	.72	.90			
CANR	25	1345	1405	1348	S08	W39	.628	10691	22.6	20	-N	3	V			1.00			
CANR	25	1345	1410	1405	S08	W39	.628	10691	22.6	25	-F	3	V			1.50			
CAPE	25	1346	1415	1349	S09	W38	.615	10691	22.7	29	-N		C	1349	1.19	1.50			
MCMA	25	1347E	1410	1350	S08	W38	.614	10691	22.7	230	-B		C	1350	.62	.80			
CAPS	25	1348E	1404		S09	W28	.471	10691	23.5	160	-B	3	P	1349	.70	.80	216		
CAPF	25	1348E	1400D		S09	W37	.601	10691	22.8	120	1N		P	1349	1.65	2.08			
GRP29534	25	1536	1549	1539	N07	E07	.237	10698	26.2	13	--N				.59			3 3 2 8	
SANM	25	1534	1555	1539	N02	E04	.137	10698	25.9	21	-B	1	C		.65	.67	E		
MCMA	25	1535	1545	1539	N11	E03	.276	10698	25.9	10	-N		C	1539	.52	.60	E		
CANR	25	1540	1547		N09	E13	.324	10698	26.6	7	-N	2	V			.40			
GRP29536	25	1620	1631	1631	N20	E68	.947	10708	30.8	11	--N				.17			2 2 1 5	
CANR	25	1617	1628		N20	E69	.952	10708	30.9	11	-N	2	V			.40			
SANM	25	1623	1634	1631	N19	E67	.940	10708	30.7	11	-N	1	C		.17		D		
GRP29537	25	1831	1846	1834	N12	E03	.293	10698	26.0	15	--F				.72			4 4 3 5	
SANM	25	1828	1850	1835	N12	E03	.293	10698	26.0	22	-F	1	C		.80	.84	E		
BOUL	25	1830	1848	1833	N11	E04	.280	10698	26.1	18	-F		V	1833		1.50			
RAMY	25	1832E	1843	1832E	N12	E02	.290	10698	25.9	110	-F		V		.83		DE		
MCMA	25	1832	1843D	1835	N11	E01	.272	10698	25.8	110	-N		C	1835	.52	.60	E		
538 SANM	25	1858	1918	1904	S09	E36	.587	10701	28.5	20	-B	1	C		.97	1.21	E 3		
GRP29539	25	1859	1928	1906	S10	W37	.602	10691	23.0	29	-N				.32			3 2 1 3	
SANM	25	1859	1935	1906	S11	W38	.617	10691	22.9	36	-N	1	C		.32	.40	D		
BOUL	25	1859	1921	1905	S09	W35	.573	10691	23.2	22	-N		V	1905		1.50			
RAMY	25	1902E	1918	1905	S05	W28	.468	10691	23.7	160	-N		V		1.24		DE		
GRP29541	25	1935	2001	1944	S07	W35	.572	10691	23.2	26	--N				.47			3 3 2 5	
SANM	25	1932	1954D		S07	W37	.600	10691	23.0	220	-B	1	P	1944	.32	.40	D		
BOUL	25	1935	1959	1944	S08	W34	.558	10691	23.3	24	-N		V	1944		1.00			
RAMY	25	1939	2002D	1943	S05	W33	.543	10691	23.3	230	-N		V		.62		DE		
GRP29543	26	0125	0139	0126	S08	E67	.918	10709	1.1	14	-B				.98			2 2 2 3	
MANI	26	0124	0138	0126	S08	E66	.911	10709	1.0	14	-N	3		0126	.83	1.77			
CULG	26	0125	0140	0126	S07	E67	.918	10709	1.1	15	1B		C	0126	1.13		V		
544 CULG	26	0134	0209	0152	S11	E82	.988	10709	2.2	35	1F		C	0152	.72		3		
GRP29547	26	0700	0723	0703	S08	E63	.888	10709	1.0	23	-N				.64			3 3 2 10	
BUCA	26	0700	0730		S08	E62	.880	10709	30.9	30	-N		C	0703	.55	1.10	D		
TEHR	26	0700E	0710D	0703	S08	E66	.911	10709	1.2	100	-N								
MANI	26	0701	0715	0703	S08	E62	.880	10709	30.9	14	-F	2		0703	.72	1.36			
GRP29558	26	2011	2035	2015	N08	W12	.300	10698	25.9	24	--F				.29			2 2 2 4	
SANM	26	2010	2030D		N03	W12	.246	10698	25.9	200	-F	1	P	2013	.32	.34	D		
MCMA	26	2011	2035	2015	N12	W12	.350	10698	25.9	24	-F		C	2015	.26	.30	DH		
559 MCMA	26	2102	2110D	2105	S10	W54	.807	10691	22.8	80	--N		C	2105	.31	.50	E 2		
561 MANI	27	0201	0224	0207	S09	W53	.796	10691	23.1	23	-N	2		0207	.93	1.88	3		
562 MANI	27	0455	0515	0458	S09	W55	.817	10691	23.1	20	-N	3		0458	.83	1.38	3		
GRP29569	27	1822	1849	1836	S09	E62	.880	10709	2.4	27	--F				.17			3 2 1 6	
SANM	27	1812	1847	1835	S11	E60	.863	10709	2.3	35	-N	2	C		.17	.33	D		
BOUL	27	1827	1851	1836	S12	E62	.880	10709	2.4	24	-F		V						
CANR	27	1827	1827D		S12	E60	.864	10709	2.3		-F	2	V			.70			
SANM	27	1846	1854	1848	S02	E64	.898	10709	2.6	8	-B	2	C		.32	.70	D		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
573 CULG	27	2231	2247	2240	S07	W67	.918	10691	22.9	16	1N	C	2240	1.24				2	
	27	2359	0001	NO FLARE PATROL															
574 CULG	28	0138	0151	0140	S05	W69	.932	10691	22.9	13	1B	C	0140	1.03				2	
575 CULG	28	0151	0214	0154	N22	E23	.570	10708	29.8	23	1N	C	0154	3.40	3.96			HLRV 3	
GRP29576 MANI ABST BUCA ISTA	28	0548	0621	0607	S12	E55	.818	10709	2.4	33	-N			.85				4 4 3 7 DK E	
	28	0548	0625	0606	S12	E57	.837	10709	2.5	37	-N	3	P	0606	.83	1.42			
	28	0553E	0620	0608	S13	E54	.808	10709	2.3	270	-F	P	0608	1.07	1.90				
	28	0600E	0622		S10	E53	.797	10709	2.2	220	-B	P	0605	.66	1.10				
	28	0600E	0617		S11	E55	.817	10709	2.4	170	-N								
GRP29581 UCCL TEHR RAMY	28	1020	1044	1022	S14	E00	.165	10701	28.4	24	-N			1.03				3 2 1 6 D DE	
	28	1020	1035	1020	S15	E00	.183	10701	28.4	15	-N	C	1020	1.03	1.10				
	28	1020	1030D	1024	S14	E00	.165	10701	28.4	100	1N								
	28	1028E	1044		S14	E00	.165	10701	28.4	160	-F	C							
GRP29582 TEHR RAMY UCCL	28	1040	1055	1042	S13	E59	.855	10709	2.9	15	-N			.96				3 3 2 6 DE I	
	28	1039	1045D	1041	S12	E59	.855	10709	2.9	6D	-N								
	28	1040	1054	1042	S13	E58	.847	10709	2.8	14	-N	C		.36					
	28	1042	1055D	1042	S13	E59	.855	10709	2.9	130	1N	P	1042	1.55					
GRP29584 RAMY CANR	28	1149	1205	1152	S12	E59	.855	10709	2.9	16	--F			.31				2 2 1 4 DE	
	28	1148	1213	1152	S12	E57	.837	10709	2.8	25	-N	C		.31					
	28	1149	1157		S12	E61	.872	10709	3.1	8	-F	3	V		.40				
GRP29587 BOUL SANM RAMY	28	1452	1514	1458	S11	E51	.776	10709	2.4	22	--F			.35				3 3 2 7 D DE	
	28	1452	1512	1455	S11	E52	.787	10709	2.5	20	-F	V							
	28	1452	1520	1503	S12	E51	.777	10709	2.4	28	-F	2	C	.48	.77				
	28	1453	1509	1455	S10	E51	.775	10709	2.4	16	-F	C		.21					
GRP29589 SANM RAMY BOUL MCMA	28	1518	1530	1521	S10	W78	.976	10691	22.8	12	-N			.80				4 4 1 6 D DE E	
	28	1516	1533	1520	S16	W79	.979	10691	22.7	17	1B	2	C	.80					
	28	1518	1524	1521	S07	W78	.977	10691	22.8	6	-F	C							
	28	1518E	1534D	1520	S08	W74	.959	10691	23.1	160	-N	V							
	28	1519	1530	1521	S10	W82	.989	10691	22.5	11	-F	C	1521						
GRP29592 RAMY MCMA CANR	28	1741	1758	1741	S15	W05	.201	10701	28.4	17	--F			.62				3 3 2 6 DE E	
	28	1738	1755	1741U	S14	W05	.186	10701	28.4	17	-F	C		.72					
	28	1741E	1803		S17	W05	.233	10701	28.4	220	-N	C	1749	.52	.60				
	28	1743	1756		S15	W06	.209	10701	28.3	13	-F	2	V		.40				
GRP29594 BOUL SANM CANR RAMY	28	1811	1846	1817	N11	W79	.985	10693	22.8	35	-B			.56				4 3 2 5 D DE	
	28	1810	1855	1816	N10	W78	.982	10693	22.9	45	-B	V	1816		2.00				
	28	1810	1853	1819	N13	W80	.989	10693	22.8	43	1B	2	C	.80					
	28	1812	1837		N07	W78	.981	10693	22.9	25	-B	2	V		.80				
	28	1812	1831	1817U	N11	W79	.985	10693	22.8	19	-B	C		.31					
GRP29595 CULG RAMY BOUL	28	2116	2150	2121	S09	E36	.588	10709	1.6	34	-B			1.78				3 3 2 3 F DE	
	28	2116	2152D	2123	S10	E34	.561	10709	1.4	360	1N	P	2123	2.99	3.48				
	28	2116	2127D	2119	S09	E35	.574	10709	1.5	110	-B	C		.57					
	28	2119E	2147	2122	S07	E40	.641	10709	1.9	280	-B	S	2122		1.50				
GRP29597 MITK CULG MANI MITK	29	0052	0204	0108	S10	E46	.719	10709	2.5	72	1N			4.26				3 3 3 5 D LU E	
	29	0025E	0047		S11	E45	.708	10709	2.4	220	-F	C	0025	.83	1.20				
	29	0047	0230	0110	S10	E46	.719	10709	2.5	103	2N	C	0110	7.01	10.20				
	29	0055	0145	0106	S10	E46	.719	10709	2.5	50	1N	3	0106	3.09	4.47				
	29	0055	0158		S10	E45	.707	10709	2.4	63	1F	C	0114	2.68	3.70				
GRP29598 KODA MITK MANI VORO	29	0159	0222	0207	S11	E43	.683	10709	2.3	23	-N			1.31				4 4 4 5 E E 117	
	29	0149E	0211	0206	S12	E43	.684	10709	2.3	220	-N	P	0149	1.78	1.80	1.60			
	29	0201	0231	0206	S11	E44	.695	10709	2.4	30	-N	C	0206	1.03	1.40				
	29	0203	0228	0210	S12	E43	.684	10709	2.3	25	-N	3	0210	1.24	1.74				
	29	0203	0218	0204	S08	E42	.668	10709	2.2	15	-B	C	0204	1.20	1.55				
GRP29599 MITK CRON VORO	29	0313	0335	0320	S10	E44	.694	10709	2.4	22	-N			1.24				3 3 3 5 E 107	
	29	0307	0335D	0320	S11	E43	.683	10709	2.4	280	-N	C	0320	1.34	1.90				
	29	0316	0340	0320	S10	E47	.730	10709	2.7	24	-F	1	V	.80					
	29	0317	0331	0320	S08	E42	.668	10709	2.3	14	1B	C	0320	1.57	2.06				
GRP29601 CRON CULG MANI	29	0429	0451	0438	S07	W86	.997	10691	22.7	22	-N			.46				3 3 3 5 R	
	29	0425	0444		S08	W85	.995	10691	22.8	19	-N	2	V	.40					
	29	0433	0503	0437	S06	W87	.998	10691	22.7	30	1N	C	0437	.57					
	29	0436E	0445D	0438	S08	W87	.998	10691	22.7	90	-N	2	C	0438	.41	1.24			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 APR																	
GRP29602	29	0606	0635	(0608)	S10	E34	.562	10709	1.8	29	-N			1.57				3 3 3 6
ABST	29	0600	0635	0603	S13	E40	.648	10709	2.3	35	1N		0603	1.79	2.20		EK	
ABST	29	0602	0620	0603	S10	E30	.504	10709	1.5	18	-N		0603	1.79	1.97		D	
CRON	29	0609	0629		S08	E31	.515	10709	1.6	20	-N	2	V	.40				
CRON	29	0609	0629		S10	E40	.643	10709	2.3	20	-F	2	V	1.20				
HTPR	29	0610E	0640		S10	E32	.533	10709	1.7	300	-B		0612	.72	.80		EI	
GRP29603	29	0703	0711	0705	N12	E21	.447	10710	30.9	8	--F			.31			3 3 2 10	
HTPR	29	0703	0709	0704	N12	E20	.435	10710	30.8	6	-F			.31	.30			
MANI	29	0703	0713	0706	N12	E22	.459	10710	30.9	10	-F	2	C	.31	.34			
ISTA	29	0704	0710		N12	E20	.435	10710	30.8	6	-F							
GRP29606	29	1058	1120	1104	S10	E29	.489	10709	1.6	22	-N			1.54	(See unconfirmed list for details)			
GRP29607	29	1223	1243	1227	N12	E90	1.000	10722	6.3	20	1B			1.63			3 3 1 7	
CAPE	29	1223	1237	1227	N11	E90	1.000	10722	6.3	14	1B		1227	1.63				
MCMA	29	1225E	1232D		N13	E90	1.000	10722	6.3	70	-B		1225				A	
CAPS	29	1225E	1248		N12	E90	1.000	10722	6.3	230	1B	2	P					
GRP29611	29	1441	1458	1449	S12	E44	.697	10709	2.9	17	--F			.32			2 2 1 5	
SANM	29	1439	1504	1452	S12	E42	.672	10709	2.8	25	-F	1	C	.32	.43		D	
BOUL	29	1442	1452	1445	S11	E46	.719	10709	3.1	10	-F							
GRP29614	29	1521	1536	1524	S11	E41	.658	10709	2.7	15	1N			1.23			5 5 4 8	
UCCL	29	1520	1524D		S06	E40	.641	10709	2.6	40	2N		P	1524	2.58	5.20	EJ	
SANM	29	1520	1534	1523	S12	E42	.672	10709	2.8	14	-B	1	C	.80	1.94		E	
SANM	29	1520	1530	1525	S13	E39	.635	10709	2.6	10	-N	1	C	.65	.86		E	
RAMY	29	1521	1540	1524	S11	E42	.670	10709	2.8	19	-F		C	.83			DE	
BOUL	29	1521E	1531D	1523	S11	E41	.658	10709	2.7	100	-N		S					
MCMA	29	1523E	1534	1525	S14	E41	.663	10709	2.7	110	-N		C	1525	.72	.90	E	
GRP29617	29	1924	1935	1927	N13	E90	1.000	10722	6.6	11	-N						2 2 0 3	
RAMY	29	1923	1936	1927	N13	E90	1.000	10722	6.6	13	-N		C				DE	
MCMA	29	1924	1933	1926	N13	E90	1.000	10722	6.6	9	-N		C	1926				
	29	2051	2052	NO FLARE PATROL														
GRP29618	29	2102	2209	2120	S12	E39	.633	10709	2.8	67	-F			1.22			2 2 2 2	
HUAN	29	2102U	2131E	2115	S11	E39	.632	10709	2.8	290	-F	1	C	.37	.50		E	
CULG	29	2117E	2209	2125	S12	E38	.620	10709	2.7	520	1N		P	2125	2.06	2.50	LR	
619 MANI	29	2231	2300	2234	S10	E32	.533	10709	2.3	29	-N	3		.83	.98		2	
620 MANI	30	0059	0121	0103	S11	E30	.507	10709	2.3	22	--N	2		.52	.60		2	
GRP29622	30	0309	0327	0314	N14	E86	.999	10722	6.6	18	-N			.62			2 1 1 3	
CULG	30	0309E	0330	0315	N11	E85	.997	10722	6.5	210	1B		P	.52				
MANI	30	0309	0327	0314	N14	E86	.999	10722	6.6	18	-N	2		.62	1.80			
623 MANI	30	0427E	0441D		S06	E18	.309	10709	1.5	140	--N	2		.52	.55		2	
624 MANI	30	0441E	0452		N14	E86	.999	10722	6.6	110	1N	2		.72	2.11		3	
GRP29625	30	0534	0548	0538	N14	E87	.999	10722	6.8	14	-B			1.23			4 4 4 5	
ABST	30	0531	0545	0535	N14	E90	1.000	10722	7.0	14	1N		C	0535	1.35		AD	
MANI	30	0532	0553	0541	N14	E85	.998	10722	6.6	21	1N	2		.93	2.65			
HTPR	30	0536	0546	0538	N13	E90	1.000	10722	7.0	10	-B		C	0538	.62		A	
KODA	30	0536E	0548	0538	N14	E84	.997	10722	6.5	120	-B		V	0539	2.00	2.00	3.72	DK
GRP29626	30	0612	0628	0619	N14	E88	1.000	10722	6.9	16	-N			.64			4 3 3 6	
ABST	30	0609	0625	0618	N14	E90	1.000	10722	7.0	16	1N		C	.90			AD	
HTPR	30	0612	0630	0621	N13	E88	1.000	10722	6.9	18	-B		C	.41				
MANI	30	0614	0630	0618	N14	E85	.998	10722	6.6	16	-N	3		.62	1.75			
CULG	30	0615	0635	0618	N12	E84	.996	10722	6.6	20	1B		C	.52				
GRP29629	30	0725	0748	0733	N14	E85	.998	10722	6.7	23	-N			.72			4 3 3 6	
CAPE	30	0724	0750	0731	N14	E86	.999	10722	6.8	26	-N		C	.92				
HTPR	30	0725	0740	0727	N13	E85	.998	10722	6.7	15	-B		C	.52				
MANI	30	0725E	0753		N15	E83	.995	10722	6.5	280	-N	2		.72	2.03			
CATA	30	0740E	0750	0740	N16	E90	1.000	10722	7.1	100	1N			.58		151	A	
GRP29631	30	0817	0826	0822	N14	E84	.997	10722	6.6	9	-B			.57			2 2 2 5	
HTPR	30	0817	0825	0822	N13	E85	.998	10722	6.7	8	-B		C	.52				
MANI	30	0820E	0826D		N15	E83	.995	10722	6.6	60	-N	2		.62	1.14			
GRP29635	30	1129	1140	1133	N14	E80	.989	10722	6.5	11	--F			.20			2 2 1 3	
RAMY	30	1127	1141	1131	N13	E80	.988	10722	6.5	14	-F		C				DE	
HTPR	30	1131	1139	1135	N14	E80	.989	10722	6.5	8	-F		C	1135	.20			
636 HTPR	30	1155	1159	1157	N12	E80	.988	10722	6.5	4	--F		C	1157	.20		4	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
GRP29637 CANR RAMY HTPR	1970 APR	30	1357	1409	1401	N13	E81	.991	10722	6.7	12	-N				.40			3 3 1 5
	30	1355	1415	1400	N15	E81	.991	10722	6.7	20	1N	2	V			2.70			
	30	1357	1407	1401	N12	E82	.993	10722	6.7	10	-N		C					DE	
	30	1359	1405	1402	N12	E80	.988	10722	6.6	6	-N		C	1402		.40			
GRP29638 CANR RAMY	30	1442	1459	1448	N19	W04	.401	10708	30.3	17	--F					1.24			2 2 1 5
	30	1440	1500		N18	W03	.382	10708	30.4	20	1F	2	V			2.20			
	30	1443	1458	1448	N19	W05	.404	10708	30.2	15	-F		C			1.24		F	
GRP29640 RAMY CANR	30	1629	1649	1631	N13	E79	.986	10722	6.6	20	-N								2 2 0 4
	30	1627	1643	1631	N12	E78	.982	10722	6.5	16	-N		C					DE	
	30	1630	1655		N14	E80	.989	10722	6.7	25	-N	2	V			1.40			
541 RAMY	30	1710	1720	1712	N12	E80	.988	10722	6.7	10	-N		C						DE 3
	30	1814	1816	NO FLARE PATROL															
	30	1839	1841	NO FLARE PATROL															
	30	1842	1844	NO FLARE PATROL															
	30	2011	2023	NO FLARE PATROL															
GRP29642 MCMA RAMY	30	2034	2050	2040	S24	E56	.842	10717	5.1	16	--F				.31				2 1 1 2
	30	2034E	2050D		S24	E56	.842	10717	5.1	16D	-F		C	2034	.31	.60			D
	30	2035E	2040D	2040D	S14	E51	.779	10717	4.7	5D	-F		C		.52				DE

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 $>90^\circ$.	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
700401	55.02	24.0	700411	82.86	24.0	700422	6.69	24.0
700402	78.45	24.0	700412	205.38	24.0	700423	3.78	24.0
700403	23.34	23.9	700413	29.58	24.0	700424	48.76	24.0
700404	34.86	24.0	700414	7.48	24.0	700425	36.11	24.0
700405	98.80	24.0	700415	269.87	24.0	700426	9.97	24.0
700406	397.31	24.0	700416	39.42	24.0	700427	16.32	24.0
700407	595.61	24.0	700417	26.19	24.0	700428	102.64	24.0
700408	40.26	24.0	700418	51.12	24.0	700429	161.42	24.0
700409	92.24	24.0	700419	0.80	24.0	700430	21.90	23.7
700410	221.47	23.9	700421	38.35	23.8			

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

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND.	TYPE	MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
955 MANI	01	0005	0016	0006	S19	W38	.629	10648	29.2	11	-F	1	0006	.62	.79			4	
956 MANI	01	0047	0054	0051	N05	E02	.203	10652	1.2	7	-F	1	0051	.31	.32			5	
957 CULG	01	0103	01190	0109	S08	E79	.979	10661	7.0	160	1F	P	0109	1.24				4	
959 ISTA	01	0724	0751	0725	N36	E90	1.002	10664	8.1	27	-N							9	
962 HTPR	01	1231	1240	1235	N15	E60	.893	10676	6.0	9	-B	C	1235	.83	2.00		G	9	
963 CANR	01	1305	1312		N27	E88	1.000	10664	8.1	7	-N	3	V		.60			11	
964 CANR	01	1312	1314		N22	W66	.943	10647	27.6	2	-N	3	V					10	
GRP28966 BOUL CANR	01	1515	1530	1518	N22	W68	.953	10647	27.5	15	-N							2 2 0 8	
	01	1513E	1526D	1518	N22	W67	.948	10647	27.6	130	-N		V						
	01	1517	1530		N21	W69	.957	10647	27.5	13	-N	3	V		1.30				
968 BOUL	01	1758	1810	1759	N05	W20	.392	10652	31.2	12	-N		V	1759		.80		3	
975 CRON	02	0042	0047		S12	E56	.824	10661	6.2	5	-N	2	V		.40			5	
976 CRON	02	0210	0215	0211	N28	E87	1.000	10664	8.6	5	-N	2	V	0211	.20			5	
977 CRON	02	0217	0223		S16	W87	.997	10646	26.6	6	-N	2	V		.30			5	
979 CRON	02	0458	0509		N07	W27	.502	10652	31.2	11	-N	3	V		.30			3	
981 CATA	02	0645	0655	0645	N24	E75	.982	10664	7.9	10	-B		0645	.58			363	7	
982 CRON	02	0801	0833		N28	W82	.998	10647	27.2	32	-F	3	V		.40			8	
983 MONT	02	0930E	0935	0930	N21	W77	.986	10647	27.6	50	-N		C	0930	1.55			8	
984 CAPS	02	0950E	1003		N06	W16	.347	10652	1.2	130	-F		V	0951	.40	.40	145	D 5	
985 CANR	02	0953	0957		N22	W80	.993	10647	27.4	4	-N	3	V		.50			5	
986 CAPS	02	1003E	1017		N07	W33	.582	10652	30.9	140	-N		V	1007	.50	.60	180	5	
987 UCCL	02	1107	11100		N07	W20	.408	10652	1.0	30	1F	P	1110	2.06	2.50			7	
GRP28988 RAMY SANM	02	1108	1122	1110	N24	W88	1.000	10647	26.9	14	-B				.80			2 2 1 8 DE A	
	02	1108	1115	1110	N24	W85	.999	10647	27.1	7	-N		C						
	02	1108E	1128		N23	W90	1.001	10647	26.7	200	1B	2	P	1112	.80				
GRP28989 LVOV SANM	02	1115	1325	1259	N23	W88	1.000	10647	26.9	130	1B				1.15			2 2 2 9 BDHK A	
	02	1115	1325	1259	N23	W85	.999	10647	27.1	130	1N		C	1259	1.65	3.84	60		
	02	1254E	1306D		N23	W90	1.001	10647	26.8	120	1B	2	P	1302	.65				
991 SANM	02	1150	1206D		S12	E51	.772	10661	6.3	160	-N	2	P	1155	.32	.51		D 9	
993 BOUL	02	1429	1436	1431	S13	E50	.762	10661	6.4	7	-F		V					7	
994 SANM	02	1509	1605	1521	N04	W25	.455	10652	31.8	56	-F	2	C		.80	.91		D 10	
GRP28995 RAMY BOUL	02	1511	1521	1515	S13	E50	.762	10661	6.4	10	-F							2 2 0 9 DE	
	02	1510	1522		S12	E50	.761	10661	6.4	12	-F		C						
	02	1511	1520	1515	S13	E50	.762	10661	6.4	9	-F		V						
996 BOUL	02	1552E	1603	1553	S05	W90	1.000	10646	26.9	110	-N		V					9	
997 BOUL	02	1558E	1611	1602	S13	E50	.762	10661	6.4	130	-N		V					7	
GRP28998 BOUL CANR	02	1617	1644	1626	N08	W20	.417	10652	1.2	27	-N							2 2 0 6	
	02	1613	1646	1626	N09	W20	.427	10652	1.2	33	-N		V						
	02	1620	1641		N07	W20	.408	10652	1.2	21	-N	2	V		.70				
000 SANM	02	1802	1908D		N15	E46	.771	10676	6.2	660	-F	2	P	1857	.97	1.48		D 5	
001 BOUL	02	1837E	1844	1837	S35	E82	.984	10667	8.9	70	-N		V	1837		2.00		6	
002 BOUL	02	1922	1926	1923	S11	E53	.794	10661	6.8	4	-F		V					4	
004 BOUL	02	2024	2039	2024	S36	E84	.989	10667	9.1	15	-N		V	2024		1.00		5	
006 BOUL	02	2225	2233	2229	S12	E44	.691	10661	6.2	8	-N		V	2229		1.30		3	
007 CRON	02	2301	2306		N30	E88	1.000	10664	9.6	5	-N	1	V		.30			4	

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OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
					LAT.	MER. DIST.													
008 MANI	03	0004	0018	0006	N07	W41	.683	10652	30.9	14	-F			0006	.62	.83			3
011 CRON	03	0721	0743		N04	W46	.732	10652	30.9	22	-F	3	V		.60				4
012 MONT	03	0828	0851	0844	N18	W90	1.001	10647	27.6	23	-N		C	0844	.10				9
GRP29014 HTPR CANR	03	1027	1034	(1031)	S13	E36	.588	10661	6.1	7	-N				.72			2 2 1 7	
	03	1026	1032D		S12	E35	.573	10661	6.1	6D	-N		C	1031	.72	.80			
	03	1028	1034		S13	E37	.602	10661	6.2	6	-N	2	V			.40			
015 RAMY	03	1053	1115	1056	N06	W45	.727	10652	31.1	22	-N		C		.31			DE	5
017 MONT	03	1217E	1312	1225	N18	W90	1.001	10647	27.8	55D	-N		C	1225	.10			H	8
018 RAMY	03	1324	1341	1327	S10	E42	.665	10661	6.7	17	-F		C		.72			F	7
019 MCMA	03	1453E	1520		N07	W36	.620	10652	31.9	27D	-F		C	1455	.62	.80		EL	10
020 RAMY	03	1602E	1606D	1606D	S12	E32	.531	10661	6.1	4D	-F		C		.52			DE	9
021 RAMY	03	1635	1645	1637	S12	E08	.168	10654	4.3	10	-F		C		.26			DE	6
024 MCMA	03	1739	1744D		N08	W37	.638	10652	1.0	5D	-N		P	1742	.52	.70		E	3
025 CRON	03	2340	2349		N05	W25	.461	10652	2.1	9	-N	1	V		.50				3
026 CRON	03	2354	0020		N06	W21	.413	10652	2.4	26	-N	2	V		.70				4
027 MANI	04	0232	0249	0235	S12	E01	.099	10654	4.2	17	-F	1		0235	.31	.31			3
028 MANI	04	0346E	0358D		N27	E53	.876	10664	8.1	12D	-N	1		0347	.31	.60			4
029 CRON	04	0611	0616		S10	E69	.929	10669	9.4	5	-F	3	V		.20				7
030 CANR	04	1048	1053	1049	S14	E34	.563	10661	7.0	5	-F	3	V			.30			5
GRP29032 CANR UCCL	04	1120	1139	1128	S11	E65	.901	10669	9.3	19	-N				1.03			2 2 1 6	
	04	1120	1139		S10	E65	.901	10669	9.3	19	-N	2	V			.70			
	04	1123E	1130D	1128	S12	E65	.901	10669	9.3	7D	1N		P	1128	1.03				E
033 RAMY	04	1141	1210	1158U	N31	E48	.859	10664	8.1	29	-F		C		.21			DE	5
035 CANR	04	1231	1245		S13	E32	.533	10661	6.9	14	-F	3	V			.30			6
037 MCMA	04	1542	1554	1544	S10	E62	.878	10669	9.3	12	-N		C	1544	.52	1.20		E	6
038 SANM	04	1607E	1611D		N07	W48	.763	10652	1.1	4D	-F	2	P	1609	.65	1.03		E	6
1 STATIONS REPORTING GROUP 29039. 5 STATIONS OBSERVING AND NOT REPORTING.																			
039 SANM	04	1709	1818D	29039.	N12	E57	.862	10670	9.0	69D	-F	2	P	1715	.48	.97		E	6
039 SANM	04	1709	1818D		N12	E57	.862	10670	9.0	69D	*-F			1802	.32	.64		D	6
041 BOUL	04	2032	2044	2035	N06	W51	.792	10652	1.0	12	-F		V	2035		1.00			3
042 BOUL	04	2044	2115	2055	S13	E60	.861	10669	9.4	31	-F		V	2055		1.00			3
043 BOUL	04	2333	2337	2334	S11	E62	.878	10669	9.6	4	-F		V	2334		.50			4
045 MANI	05	0007E	0030D		N07	W59	.869	10652	31.6	23D	-N	1		0009	.72	1.57			5
046 MANI	05	0111E	0117D		N08	W60	.879	10652	31.5	6D	-N	1		0111	.72	1.60			4
048 MANI	05	0210E	0231		N08	W60	.879	10652	31.6	21D	-N	1		0211	.62	1.34			6
050 CRON	05	0401	0406	0402	S15	E60	.861	10669	9.7	5	-F	3	V	0402	.30				3
051 MANI	05	0510E	0528		N08	E51	.797	10670	9.0	18D	-N	1		0514	.52	.88			3
053 CRON	05	0737	0759		S09	E19	.326	10661	6.7	22	-F	3	V		.60				5
055 CANR	05	1136	1136D		N01	E77	.975	10673	11.3		-F	2	V			.30			7
058 SANM	05	1222	1231	1226	S13	E57	.834	10669	9.8	9	-F	2	C		.32	.57		D	8
061 SANM	05	1419	1445	1425	S35	E52	.826	10667	9.5	26	-F	2	C		.48	.84		D	7
065 BOUL	05	2037	2042	2038	N10	W60	.883	10652	1.4	5	-F		V						3

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
					LAT.	MER. DIST.													
066 CRON	05	2336	2354	2337	S11	E59	.852	10671	10.4	18	-N	3	V	2337	.30				4
067 BOUL	05	2345	2357	2347	N10	W62	.898	10652	1.3	12	-F		V						4
068 CRON	06	0039	0050	0040	N06	W70	.945	10652	31.8	11	-	3	V	0040	.60				5
069 CULG	06	0121	0154	0136	S35	E48	.794	10667	9.7	33	1N		C	0136	1.55	2.32		RS	5
070 CRON	06	0211	0226	0212	N16	E02	.380	10676	6.2	15	-F	3	V	0212	.50				5
073 CRON	06	0638	0712		N28	E24	.661	10664	8.1	34	-F	3	V		.80				8
074 ABST	06	0642E	0730D	0647	N07	E36	.620	10670	9.0	48D	-F		P	0647	1.35	1.80		E	9
075 ISTA	06	0730	0750		S14	E43	.682	10669	9.5	20	-N								10
076 ISTA	06	0755	0800		N32	E27	.721	10664	8.4	5	-B								9
078 MANI	06	0929	0940	0931	N08	E37	.637	10670	9.2	11	-N	1		0931	.72	.92			9
GRP29079	06	0936	0946	0943	N18	W02	.412	10676	6.3	10	-F				1.15			2 2 2 9	
ABST	06	0935	0943D	0943	N17	W01	.395	10676	6.3	8D	-F		P	0943	1.79	1.96		E	
CAPS	06	0937	0946		N18	W02	.412	10676	6.3	9	-N		V	0940	.50	.50	164	H	
080 MANI	06	0941E	0946D		S16	E43	.685	10669	9.6	5D	-F	1		0941	.62	.85			9
081 CAPS	06	0946	0957		N09	E38	.654	10670	9.3	11	-N		V	0949	.50	.60	165		8
082 CANR	06	1123	1123D		N17	W01	.395	10676	6.4		-N	3	V			.30			7
GRP29083	06	1128	1145	1132	N18	W02	.412	10676	6.3	17	-N				1.49			2 2 2 7	
LVOV	06	1128	1145	1132	N17	W02	.396	10676	6.3	17	1F		C	1132	2.58	2.86	58	E	
CAPS	06	1130E	1136D		N18	W01	.411	10676	6.4	6D	-B	2	V	1130	.40	.40	215	C	
085 MONT	06	1205	1215D	1209	N03	W88	1.000	10652	30.9	10D	-N		C	1209	.21				9
087 SANM	06	1306	1337	1315	N11	E32	.591	10670	8.9	31	-F	2	C		.32	.40		D	7
088 SANM	06	1402	1438	1412	N18	W03	.414	10676	6.4	36	-N	2	C		1.29	1.40		E	9
095 MANI	06	2222E	2237D	2226	S10	E30	.499	10669	9.2	15D	-F	2		2226	.62	.71			3
096 BOUL	06	2338	0008	2347	N17	W07	.411	10676	6.5	30	-N		V						3
097 MANI	07	0003E	0035		S10	E24	.408	10669	8.8	32D	-F	2		0007	.72	.83			4
099 CULG	07	0143	0211	0154	N18	E80	.991	10675	13.1	28	1N		C	0154	.72				5
100 CRON	07	0146	0200		N19	W10	.455	10676	6.3	14	-F	2	V		.40				6
102 CRON	07	0257	0327	0259	N10	E24	.483	10670	8.9	30	-	2	V	0259	.30				4
103 CRON	07	0327	0339		S12	E25	.428	10669	9.0	12	-F	2	V		.30				5
104 CRON	07	0524	0543		N10	E23	.470	10670	9.0	19	-F	2	V		.60				3
107 MITK	07	0558E	0614		N10	E24	.483	10670	9.0	16D	-F		C	0600	.72	.80		E	5
108 MANI	07	0649E	0652D		S10	E25	.423	10669	9.2	3D	-F	1		0650	.41	.45			9
111 CAPS	07	0855E	0945D		S11	E24	.410	10669	9.2	50D	1N	1	S	0857	2.50	2.70	182		7
112 TEHR	07	1100	1110D	1105	N08	E22	.440	10670	9.1	10D	-F								6
113 RAY	07	1334	1353	1338	S17	W07	.221	10661	7.0	19	-F		C		.41			DE	6
114 BOUL	07	1455E	1510D	1459	N30	E07	.599	10664	8.1	15D	-F		V						7
121 SANM	07	1900	1941	1905	S14	W13	.258	10661	6.8	41	-N	2	C		.32	.33		D	5
122 SANM	07	1925	1948	1939	N17	E68	.946	10675	12.9	23	-N	2	C		.17			D	4
129 CULG	07	2325	0040	2349	N22	W06	.482	10664	7.5	75	1N		C	2349	2.48	2.68			5
130 BOUL	08	0002	0007	0004	S12	W24	.413	10661	6.2	5	-N		V	0004		.50			5
131 CRON	08	0131	0154	0136	N20	W21	.549	10676	6.5	23	-	2	V	0136	.30				3
133 CRON	08	0400	0405		S12	E15	.274	10669	9.3	5	-	2	V		.40				5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970	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.												
	APR																	
134 CRON	08	0419	0427		N10	W25	.495	10676	6.3	8	-F	2 V		.50			4	
135 MANI	08	0520E	0528		S16	E22	.402	10669	9.9	80	-N	1	0522	.62	.67		4	
136 CRON	08	0732	0739		N12	E10	.353	10670	9.1	7	-	2 V		.80			4	
137 HERS	08	0845E	0853	0845	N13	E10	.367	10670	9.1	80	-N	P	0845	.45	.50		D 5	
138 CRON	08	0848	0853		N10	W26	.508	10676	6.4	5	-F	2 V		.60			5	
142 SANM	08	1317	1324	1320	N17	W29	.599	10676	6.4	7	-F	2 C		.48	.61		D 8	
148 MCMA	08	1647	1700	1649	N18	E57	.876	10675	13.0	13	-N	C	1649	.31	.60		D 5	
153 SANM	08	1911	2016	1938	N09	W34	.603	10676	6.2	65	-F	2 C		.65	.82		E 4	
155 MCMA	08	2152E	2200D		N08	W35	.611	10676	6.3	80	-N	C	2159	.26	.30		D 4	
159 CRON	08	2349	0015		N10	W35	.621	10676	6.4	26	-F	2 V		1.60			3	
167 CRON	09	0448	0455		N18	W38	.702	10676	6.4	7	-	2 V		.90			5	
169 CULG	09	0523E	0640	0600	N18	E50	.818	10675	13.0	770	1B	P	0600	2.06	3.40		T 5	
170 CRON	09	0616	0625		N11	W05	.305	10670	8.9	9	-	2 V		.40			3	
173 CANR	09	0756	0804		N11	W05	.305	10670	9.0	8	-N	2 V			.50		5	
177 CRON	09	0832	0838		N17	E50	.814	10675	13.1	6	-F	2 V		.50			5	
179 CANR	09	0947	0947D		N09	W41	.689	10676	6.3		-N	1 V			.50		5	
GRP29181	09	1250	1441	1401	N17	E45	.767	10675	12.9	111	-F			.87			2 2 2 7	
SANM	09	1247	1441	1401	N17	E46	.777	10675	13.0	114	-F	2 C		1.13	1.76		E	
CAPS	09	1253	1306		N17	E44	.757	10675	12.8	13	-N	2 S	1255	.70	1.10		170	
CAPS	09	1331E	1340		N17	E43	.747	10675	12.8	90	-B	2 S	1332	.40	.60		204	
CAPS	09	1346E	1402D		N13	E43	.729	10675	12.8	160	-F	2 S	1352	.60	.80		147	
GRP29182	09	1326	1429	1415	N12	W43	.724	10676	6.3	63	-N			1.03			2 2 2 9	
SANM	09	1326	1429	1415	N12	W43	.724	10676	6.3	63	-N	2 C		.65	.97		E	
CAPS	09	1413E	1415D		N12	W42	.713	10676	6.4	20	-N	1 S	1413	1.40	1.90		165	
183 SANM	09	1332	1352	1340	N13	W06	.342	10670	9.1	20	-N	2 C		.80	.85		D 9	
184 SANM	09	1444	1509	1458	N07	W46	.740	10676	6.2	25	-F	2 C		.32	.50		D 7	
188 BOUL	09	1544	1552	1545	S11	W44	.692	10661	6.4	8	-F	V					7	
GRP29189	09	1554	1601	1556	N08	W47	.754	10676	6.1	7	-N			.32			2 2 1 7	
SANM	09	1554	1601	1555	N08	W47	.754	10676	6.1	7	-N	2 C		.32	.51		D	
BOUL	09	1555E	1601	1557	N08	W46	.743	10676	6.2	60	-N	V						
199 BOUL	09	1845	1858	1847	S12	W02	.109	10669	9.6	13	-F	V					3	
204 BOUL	09	2158	2216	2201	N15	E40	.706	10675	12.9	18	-F	V	2201		.50		3	
211 MANI	10	0132	0148	0137	N12	W13	.377	10670	9.1	16	-N	2	0137	.52	.56		3	
212 CRON	10	0136	0146	0137	N11	W25	.502	10663	8.2	10	-F	2 V	0137	.50			3	
215 CRON	10	0408	0412		S08	W18	.309	10669	8.8	4	-	2 V		.40			4	
216 CRON	10	0421	0425		N15	E33	.628	10675	12.7	4	-	2 V		.30			4	
217 MANI	10	0434E	0438D		N16	E47	.782	10675	13.7	40	-F	1	0435	.83	1.29		4	
220 ISTA	10	0807	0817		N13	E30	.578	10675	12.6	10	-F						6	
GRP29221	10	0823	0834	0825	N08	W58	.862	10676	6.0	11	-F			.40			2 2 1 7	
ISTA	10	0822	0837	0825	N07	W57	.851	10676	6.1	15	-N							
CRON	10	0824	0830		N08	W58	.862	10676	6.0	6	-F	1 V		.40				
222 ISTA	10	0848	0908	0858	N10	W21	.444	10670	8.8	20	-F						7	
223 HTPR	10	0910	0914D		N16	E36	.668	10675	13.1	40	-F	C	0910	.31	.40		9	
225 CAPS	10	1041	1050		N23	W50	.837	10676	6.7	9	-F	1 S	1043	.60	1.10		158 5	
226 ZURI	10	1046	1055D	1053	N09	W17	.385	10670	9.2	90	-F	P	1053	.69	.70		4	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE 1970 APR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hq	MAX. INT. %		
230 SANM	10	1249	1309	1254	N17	E30	.609	10675	12.8	20	-N	2	C		1.62	2.03			E	7
232 SANM	10	1319	1340	1324	N14	E27	.551	10675	12.6	21	-N	2	C		.32	.38			E	5
236 SANM	10	1507	1529	1514	N11	W23	.477	10670	8.9	22	-N	2	C		.75	.76			D	6
237 SANM	10	1525	1542	1527	S11	W14	.254	10669	9.6	17	-F	2	C		.17	.17			E	4
240 MCMA	10	1704E	1717		N11	W25	.502	10670	8.8	130	-F		P	1705	.52	.60			E	3
250 CRON	10	2329	2344		N12	W38	.667	10663	8.1	15	-F	1	V		.50					3
255 KODA	11	0212E	0226	0212	S15	W25	.441	10669	9.2	140	-N		V	0212	1.43	1.40	2.56		EK	4
256 CRON	11	0407	0414		S15	W22	.398	10669	9.5	7	-F	2	V		.70					4
258 CRON	11	0520	0531	0521	S16	W14	.293	10669	10.2	11	-F	2	V	0521	.50					5
259 TEHR	11	0543	05500		N13	E21	.472	10675	12.8	70	-F									7
260 TEHR	11	0555	06000		S10	W26	.439	10669	9.3	50	-F									7
261 TEHR	11	0600E	06100		S20	W42	.684	10661	8.1	100	-N		V							6
264 ISTA	11	0725	0737		N09	W31	.564	10670	9.0	12	-F									8
267 ISTA	11	0815	0828		N17	E25	.555	10675	13.2	13	1F									5
268 MANI	11	0854E	09080		S11	W26	.441	10669	9.4	140	-F	1		0855	.31	.34				7
269 HTPR	11	0925	09320		S13	W25	.433	10669	9.5	70	-F		C	0927	.62	.70			E	5
270 TEHR	11	0945E	09550		S08	W31	.513	10669	9.1	100	-F									6
271 CANR	11	1000	1011	1002	N07	W72	.956	10676	6.0	11	-N	2	V			.70				8
275 MONT	11	1321	1326	1325	N30	W47	.844	10664	8.0	5	-F		C	1325	.21					11
278 SANM	11	1428	1434	1431	N16	E20	.493	10675	13.1	6	-F	2	C		.32	.37			D	8
281 MCMA	11	1639	1644	1640	N16	E12	.422	10675	12.6	5	-F		C	1640	.77	.80			EL	6
289 CRON	12	0050	0112		N15	E12	.407	10675	12.9	22	-	2	V		.90					3
292 CRON	12	0203	0246	0227	N16	E08	.395	10675	12.7	43	-	2	V	0227	1.40					3
294 CRON	12	0352	0405		N16	E08	.395	10675	12.8	13	-	2	V		.30					3
295 CRON	12	0446	0455		S15	W37	.608	10669	9.4	9	-	2	V		.30					3
298 CULG	12	0634	0705	0638	N29	W58	.911	10664	7.9	31	1N		C	0638	1.75	3.82			R	7
299 TEHR	12	0722E	07320		S08	W45	.703	10669	8.9	100	-F									8
311 MCMA	12	1654	1700	1656	S08	E50	.762	10680	16.5	6	-F		C	1656	.31	.50			D	5
313 HUAN	12	1709	1721	1717	S22	W70	.935	10661	7.5	12	-N	2	P	1717	.24				D	6
315 HUAN	12	1752E	1806	1758	S22	W70	.935	10661	7.5	140	-F	2	C	1758	.18				D	5
316 RAMY	12	1756	1801	1758	N18	E05	.412	10675	13.1	5	-N		C		.15				DE	5
318 BOUL	12	1828	1900	1833	S08	E47	.728	10680	16.3	32	-F		V							6
321 RAMY	12	1947	2017	1952	N16	E01	.373	10675	12.9	30	-F		C		.31				DE	5
GRP29324	12	2152	2207	2154	N17	E05	.397	10675	13.3	15	-N				.52				2	2
RAMY	12	2150E	2204	2151	N16	E04	.378	10675	13.2	140	-N		C		.52				ED	1
BOUL	12	2154	2210	2157	N17	E05	.397	10675	13.3	16	-N		V							6
325 MANI	12	2159E	2235		N12	W55	.844	10670	8.8	360	-N	1		2203	.52	.93				7
326 CULG	12	2242	2307	2247	N29	W68	.961	10664	7.8	25	1N		C	2247	.88					6
327 MITK	12	2245E	2252	2246	S08	E47	.728	10680	16.5	70	-N		C	2246	.41	.60			D	6
330 CANR	13	0904	0912		S08	E40	.640	10680	16.4	8	-N	2	V			.50				3
331 CATA	13	0910	0950	0925	N11	E90	1.000	10687	20.1	40	1B			0925	.80			257	A	4

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
332 CANR	13	1102	1111	1104	S08	W59	.853	10669	9.0	9	-N	3	V			.30			3
336 BOUL	13	1418	1424	1419	S21	W75	.961	10661	8.0	6	-F		V						6
337 RAMY	13	1452	1527	1457	S08	E38	.613	10680	16.5	35	-F		C		.52			DE	6
338 RAMY	13	1507	1521	1510	S07	E80	.983	10684	19.6	14	-F		C		.52			DE	6
339 BOUL	13	1527	1543	1534	N18	E90	1.000	10687	20.4	16	-B		V						4
342 BOUL	13	1958	2012	2010	N17	E90	1.000	10687	20.6	14	-N		V						3
343 MANI	14	0043E	0043D		S16	W87	.997	10661	7.5		-N	2		0043	.62	1.85			3
GRP29346 MANI CANR	14	0757	0806	0758	N17	E85	.999	10687	20.7	9	-N				.26			2 2 1 6	
	14	0756	0809	0758	N15	E84	.997	10687	20.6	13	-N	2		0758	.26	.72			
	14	0757	0803		N18	E85	.999	10687	20.7	6	-N	2	V		.70				
349 TEHR	14	1153E	1205D	1155	S08	E28	.468	10680	16.6	12D	-F								6
350 CAPS	14	1548E	1600D		N17	E90	1.000	10687	21.4	12D	-N	2	V					AC	9
351 CAPS	14	1556E	1600D		N16	W22	.511	10675	13.0	4D	-F	2	S					CE	8
352 SANM	14	1617E	1625		S18	E23	.432	10680	16.4	8D	-F	1	P	1620	.32	.34		E	7
GRP29353 SANM RAMY	14	1906	1934	1909	N16	W24	.532	10675	13.0	28	-F				.32			2 2 2 6 D DE	
	14	1905	1943D		N15	W24	.523	10675	13.0	38D	-F	1	P	1910	.32	.38			
	14	1907	1925	1909	N16	W23	.522	10675	13.1	18	-F		C		.31				
355 MANI	14	2230	2250	2234	N16	W32	.621	10675	12.5	20	-F	2		2234	.41	.54			3
357 CRON	15	0036	0043		S01	W55	.820	10673	10.9	7	-F	2	V		.50				3
358 CRON	15	0143	0154		N13	W35	.635	10675	12.4	11	-F	2	V		.50				4
359 MANI	15	0304	0320	0311	N13	E80	.989	10687	21.1	16	-N	2		0311	.62	1.59			6
362 TEHR	15	0645E	0655D		N14	W39	.687	10675	12.4	10D	-F								7
363 CANR	15	0828	0842		N16	W41	.719	10675	12.3	14	-N	1	V			.60			8
GRP29364 MANI CANR	15	0854	0905	0856	N15	W41	.714	10675	12.3	11	-F				.62			2 2 1 8	
	15	0854	0908	0856	N14	W40	.698	10675	12.4	14	-F	2		0856	.62	.87			
	15	0854	0902		N16	W41	.719	10675	12.3	8	-N	1	V		.40				
365 CANR	15	0945	0957		N16	W41	.719	10675	12.3	12	-N	1	V			.40			5
367 CANR	15	1500	1508	1502	S05	E65	.904	10684	20.5	8	-N	2	V			.60			10
368 BOUL	15	1703	1738	1722	N14	W90	1.000	10670	9.0	35	1N		V						6
369 MCMA	15	1947	1955	1948	S07	W90	1.000	10669	9.1	8	-N		C	1948					3
370 BOUL	15	2133E	2140	2133	N18	W49	.807	10675	12.2	7D	-N		V						4
371 MANI	16	0019	0044D	0037	S11	E06	.140	10680	16.5	25D	-F	2		0037	.41	.42			4
375 HTPR	16	0752	0757	0754	N15	W51	.815	10675	12.5	5	-F		C	0754	.72	1.10			11
	16	0900	0910	0904	N15	W51	.815	10675	12.6	10	-F				.70			2 2 2 11	
	16	0900	0913	0903	N15	W52	.824	10675	12.5	13	-F		C	0903	.62	1.00			
16	0900	0907	0904	N15	W50	.805	10675	12.6	7	-N		C	0904	.77					
377 HTPR	16	0953	1000	0955	N15	W52	.824	10675	12.5	7	-F		C	0955	.72	1.10			9
379 UCCL	16	1330E	1345D	1330	N17	W54	.847	10675	12.5	15D	-F		P	1330	.52			E	10
380 MONT	16	1339	1401	1346	S15	W90	1.000	10669	9.8	22	-N		C	1346	.10				11
GRP29382 MONT BOUL	16	1430	1440	1433	N20	W60	.901	10675	12.1	10	-F				.77			2 2 1 9	
	16	1429	1439	1433	N22	W62	.918	10675	12.0	10	-N		C	1433	.77				
	16	1430	1440	1433	N18	W58	.882	10675	12.3	10	-F		V						
383 BOUL	16	1444	1448	1446	N15	W52	.824	10675	12.7	4	-F		V						9
384 SANM	16	1500E	1527D		N16	W53	.836	10675	12.6	27D	-N	1	P	1521	1.13	2.08		E	8
385 SANM	16	1605	1618	1610	N12	E11	.353	10690	17.5	13	-F	1	C		.65	.69		E	8

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OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
386 BOUL	16	1719	1740	1720	N13	W06	.334	10679	16.3	21	-F	V	1720		.50			5
390 BOUL	16	2050E	2059	2051	N15	W45	.756	10675	13.5	90	-F	V						3
391 BOUL	16	2106	2111	2109	N15	W45	.756	10675	13.5	5	-N	V						3
393 MANI	16	2355	0013	2359	N12	W11	.353	10679	16.2	18	-N	2	2359	.41	.45			4
394 CRON	17	0030	0034		N13	W58	.870	10675	12.7	4	-	1	V	.30				4
395 VORO	17	0116	0132	0117	N12	W63	.906	10675	12.3	16	-B	C	0117	.65	1.40	83	DJ	4
397 MANI	17	0301	0325	0305	N12	W14	.380	10679	16.1	24	-N	2	0305	.62	.67			6
399 MANI	17	0442	0458	0447	N12	W15	.390	10679	16.1	16	-N	1	0447	.62	.67			4
402 CANR	17	0958	1015		N16	W65	.926	10675	12.5	17	-N	3	V		1.20			12
403 CANR	17	1243	1305		N16	W67	.938	10675	12.5	22	-N	3	V		.90			8
404 CANR	17	1723	1744		N16	W70	.954	10675	12.5	21	-N	2	V		.70			3
408 MCMA	17	2146	2227D	2154	N15	W69	.947	10675	12.7	410	-F	C	2154	.31	.90		E	4
410 CRON	18	0043	0055		N14	W76	.977	10675	12.3	12	-	2	V	.40				4
GRP29416	18	0700	0804		N15	W72	.962	10675	12.9	64	-B			.72			2 2 1 10	
ISTA	18	0700	0800	0715	N15	W72	.962	10675	12.9	60	-B							
ISTA	18	0712	0729		N17	W63	.914	10675	13.6	17	-B							
MANI	18	0737E	0807	0744	N14	W76	.977	10675	12.6	300	-N	2	0744	.72	1.75			
418 ISTA	18	0750	0805		S06	E25	.421	10684	20.2	15	-F						9	
419 MONT	18	0808E	0824	0809	N17	W75	.976	10675	12.7	160	-N	C	0809	.77			10	
420 MANI	18	0812	0836	0819	S04	W28	.469	10680	16.2	24	-N	1	0819	.62	.70		11	
421 HTPR	18	0820E	0825	0820	S06	E25	.421	10684	20.2	50	-F	C	0820	.31	.30		11	
424 SANM	18	1440E	1515D		N16	W79	.988	10675	12.7	350	-F	1	P	1458	.48		E	7
425 SANM	18	1508	1513	1510	N24	E64	.933	10692	23.4	5	-N	1	C	.48			D	8
426 CANR	18	1657	1712		S04	E23	.390	10684	20.4	15	-N	2	V		.60		3	
430 MANI	18	2312	2324	2316	N12	W18	.422	10690	17.6	12	-B	3	2316	.26	.69		4	
432 CRON	19	0138	0153		N18	W88	1.000	10675	12.5	15	-B	2	V	.30			3	
433 CANR	19	0917	0923		N18	E15	.463	10687	20.5	6	-F	2	V		.40		7	
434 SANM	19	1940E	2007D		N22	E57	.884	10692	24.1	270	-F	1	P	1948	.48	1.00	E	4
436 MANI	19	2343	0006	2348	S06	E04	.070	10684	20.3	23	-F	2	2348	.26	.26		4	
437 ISTA	20	0850	0900		S05	E03	.052	10684	20.6	10	-N						7	
438 UCCL	20	1001	1018D	1001	S09	E35	.572	10691	23.0	170	-B	P	1001	1.03	1.60		DH	5
442 BOUL	20	2352	0006	2356	N17	W07	.395	10687	20.5	14	-N	V					5	
443 TEHR	21	0540E	0650D		N03	W22	.398	10684	19.6	700	1F						5	
444 TEHR	21	0655E	0710D		N17	W11	.417	10687	20.5	150	1F						11	
445 TEHR	21	1035	1055D	1042	N03	W22	.398	10684	19.8	200	-F						7	
GRP29446	21	1053	1105	1056	N19	W11	.445	10687	20.6	12	-F			.90			2 2 1 9	
TEHR	21	1053	1105D	1055	N17	W11	.417	10687	20.6	120	1F							
ABST	21	1057E	1057D	1057	N20	W10	.454	10687	20.7		-F	P	1057	.90	.99		D	
447 TEHR	21	1110	1125D	1115	N03	W22	.398	10684	19.8	150	-F						H	10
448 TEHR	21	1110	1125D	1120	S06	W06	.105	10684	21.0	150	-F						9	
449 TEHR	21	1144	1150D	1147	N03	W21	.383	10684	19.9	60	-N						H	7
451 SANM	21	1425	1442	1433	S09	W69	.930	10680	16.4	17	-F	1	C	.65			D	10

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA TH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %			
					LAT.	MER. DIST.														
452 SANM	21	1500	1525D		N03	W29	.501	10684	19.4	25D	-F	1 P	1523	.97	1.12			E	10	
455 ZURI	21	1541	1607	1556	N01	W32	.538	10684	19.3	26	-F		C	1556	1.16	1.40			7	
456 SANM	21	1731E	1755D		N02	W30	.512	10684	19.5	24D	-F	1 P	1740	.65	.76			D	4	
457 HUAN	21	2016E	2140U		N01	W33	.552	10684	19.4	84D	-F	1 P	2021	.25	.30			D	3	
459 MANI	22	0040	0106	0042	N12	E53	.823	10698	26.0	26	-F	2	0042	.31	.53				3	
461 TEHR	22	0640E	0700D		N03	W37	.613	10684	19.5	20D	-F								9	
462 MANI	22	0809	0829	0814	S09	E10	.185	10691	23.1	20	-F	2	0814	.31	.32				7	
463 TEHR	22	0815E	0823D		N03	W26	.457	10684	20.4	8D	-F								8	
GRP29464	22	0843	0901	0846	N03	W39	.640	10684	19.4	18	-F			.51			2 2 2 6			
MANI	22	0842	0905	0846	N03	W37	.613	10684	19.6	23	-N	2	0846	.52	.64					
CRON	22	0843	0856		N02	W40	.650	10684	19.4	13	-F	2 V		.50						
465 CRON	22	0850	0855		S08	W35	.572	10684	19.7	5	-F	2 V		.30					6	
466 TEHR	22	0915E	1000D		N03	W26	.457	10684	20.4	45D	-F								10	
467 TEHR	22	1020E	1035D		N03	W26	.457	10684	20.5	15D	-F								6	
468 TEHR	22	1040E	1050D		S07	E11	.193	10691	23.3	10D	-F								9	
469 CAPS	22	1220E	1230D		N02	W42	.676	10684	19.4	10D	-N	1 S	1225	.60	.70		165		6	
471 RAMY	22	1441	1450	1444	N04	W40	.656	10684	19.6	9	-F		C		.41		DE	4		
473 BOUL	23	0000E	0005	0000	N20	W24	.564	10687	21.2	5D	-F		S	0000		.50			4	
476 ISTA	23	0823	0829		S09	W05	.112	10691	23.0	6	-F								7	
GRP29478	23	1108	1123	1118	S09	W09	.170	10691	22.8	15	-N			.72			2 2 1 7			
CANR	23	1107	1115		S09	W07	.140	10691	22.9	8	-N	2 V			.40					
MCMA	23	1108	1130	1118	S08	W10	.180	10691	22.7	22	-N	C	1118	.72	.70		E			
479 ABST	23	1258	1315	1300	S08	W09	.164	10691	22.9	17	-N		C	1300	1.79	1.70		55	E	6
480 BOUL	23	1321	1332	1323	N03	W52	.794	10684	19.7	11	-N		V						5	
481 BOUL	23	1326	1334	1329	S03	W55	.818	10684	19.4	8	-F		V						6	
GRP29482	23	1331	1349	1333	S08	W07	.132	10691	23.0	18	-F						2 2 0 6			
BOUL	23	1326	1343	1333	S07	W06	.110	10691	23.1	17	-N		V							
CANR	23	1335	1354		S09	W08	.155	10691	23.0	19	-F	3 V			1.00					
483 BOUL	23	1506	1510	1507	N03	W53	.804	10684	19.7	4	-N		V						8	
GRP29484	23	1541	1612	1552	S08	W08	.148	10691	23.1	31	-F						2 2 0 6			
BOUL	23	1540	1608	1552	S07	W07	.126	10691	23.1	28	-N		V							
CANR	23	1541	1615		S09	W09	.170	10691	23.0	34	-F	3 V			1.00					
485 BOUL	23	2047	2056	2049	S08	W09	.164	10691	23.2	9	-N		V						3	
486 BOUL	23	2055	2100	2056	N03	W56	.834	10684	19.7	5	-N		V						3	
491 VORO	24	0033	0045	0037	N02	W60	.869	10684	19.5	12	-B		C	0037	.84	1.60		85	D	4
492 CRON	24	0147	0153		S09	W13	.234	10691	23.1	6	-	1 V		.40					6	
GRP29498	24	0840	0850	0845	N10	W18	.395	10693	23.0	10	-N			.63			2 2 1 7			
CATA	24	0840E	0850D	0845	N10	W19	.408	10693	22.9	10D	-N			.63	.70		151			
ISTA	24	0840	0850		N09	W16	.360	10693	23.2	10	-N									
499 CAPS	24	0850	0855		N06	W60	.874	10684	19.9	5	-B	3 P	0853	.70	1.40		275	C	6	
504 CANR	24	1648	1648D		N06	W70	.944	10684	19.4		-N	2 V			1.00				4	
507 BOUL	24	2017	2030	2025	S02	W72	.951	10684	19.4	13	-F		V						3	
508 BOUL	24	2047	2055	2051	N02	W81	.988	10684	18.8	8	-F		V						4	
GRP29510	24	2339	2358	2341	N05	W72	.954	10684	19.6	19	-N			.72			2 2 1 4			
MANI	24	2338	0002	2341	N04	W72	.954	10684	19.6	24	-N	3	2341	.72	1.70					
BOUL	24	2339	2354	2340	N05	W71	.949	10684	19.7	15	-N		V	2340		1.50				

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1970 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %			
					LAT.	MER. DIST.													
512 KODA	25	0218	0234	0231	N05	W75	.968	10684	19.5	16	-N	P	0221	.84	.83	4.52		CE	4
513 CRON	25	0246	0300		N02	W80	.985	10684	19.1	14	1F	1 V		.60					3
514 CULG	25	0313E	0413		N02	E80	.985	10709	1.1	600	1N	P	0313	1.03					4
516 ABST	25	0452E	0515D	0452	S07	W29	.484	10691	23.0	23D	-F	P	0452	1.07	1.30		51	E	5
517 TEHR	25	0525E	0537D	0530	N09	W30	.544	10693	23.0	120	-F								5
519 TEHR	25	0525E	0540D		N10	E10	.306	10698	26.0	150	1F								5
520 CULG	25	0622	0645	0626	S26	W69	.934	10706	20.1	23	1N	C	0626	.93					8
521 TEHR	25	0630E	0635D		S09	E81	.986	10709	1.3	50	-F								8
522 ISTA	25	0635E	0705		N04	W74	.963	10684	19.7	300	1B								9
GRP29525	25	0722	0753	0727	S00	E00	.083	10698	25.3	31	-N			.62				2 1 1	9
MANI	25	0722	0753	0727	S00	E00	.083	10698	25.3	31	-N	2	0727	.62	2.00				
TEHR	25	0742E	0800D	0745	N10	E09	.297	10698	26.0	180	-F								
527 TEHR	25	0815E	0825D	0820	S08	E77	.972	10709	1.1	100	-N	V							6
GRP29529	25	0939	0945	0940	N19	E70	.955	10708	30.7	6	-N							2 2 0	7
HTPR	25	0723E	0945	0940	N18	E70	.954	10708	30.6	142D	-N								
CANR	25	0939	0939D		N19	E70	.955	10708	30.7		-N	3 V		.80					
531 LVOV	25	1112E	1203D	1132	N06	W80	.987	10684	19.5	510	1N	C	1132	2.06	5.08		52	BE	7
532 TEHR	25	1130E	1143D		N10	E10	.306	10698	26.2	13D	-F								7
GRP29535	25	1614	1623	1615	S09	E73	.954	10709	1.2	9	-N			.65				2 2 1	6
SANM	25	1613	1619	1615	S08	E70	.937	10709	30.9	6	-N	1 C		.65				D	
CANR	25	1614	1626		S10	E76	.968	10709	1.4	12	-N	2 V		.90					
540 BOUL	25	1909	1922	1915	S11	E88	.999	10709	2.4	13	-N	V	1915		2.00				4
542 BOUL	25	2020	2030	2023	S08	W35	.572	10691	23.2	10	-F	V	2023		.80				3
545 CULG	26	0236E	0259	0238	S10	E81	.986	10709	2.2	23D	1F	P	0238	.67				R	3
GRP29546	26	0639	0712	(0640)	S09	E72	.948	10709	1.7	33	-B			.55				2 2 1	11
BUCA	26	0605E	0720		S12	E80	.983	10709	2.3	75D	-N	P	0607	.43				D	
TEHR	26	0625E	0638D		S07	E68	.925	10709	1.4	13D	-N								
TEHR	26	0638E	0649D		S09	E75	.964	10709	1.9	11D	-F								
BUCA	26	0640	0705		S07	E67	.918	10709	1.3	25	-B	C	0640	.55				D	
GRP29548	26	0715	0905		N15	W77	.981	10687	20.5	110	1N							2 2 0	8
ISTA	26	0715E	0905		N14	W78	.983	10687	20.5	110D	1B								
TEHR	26	0720E	0745D		N16	W75	.974	10687	20.7	25D	1F								
549 ISTA	26	0745	0805		S09	W40	.642	10691	23.3	20	-F								8
550 TEHR	26	1005E	1012D	1007	S09	E61	.872	10709	1.0	7D	-F								6
551 TEHR	26	1014E	1017D		S09	E61	.872	10709	1.0	3D	-F							H	5
552 TEHR	26	1014E	1021D		N18	E56	.863	10708	30.6	7D	-F								5
553 TEHR	26	1027E	1040D		N18	E56	.863	10708	30.6	13D	-F								7
554 TEHR	26	1032E	1125D		S08	W43	.680	10691	23.2	53D	-N								6
555 HOUT	26	1555E	1615	1557E	N14	W90	1.000	10687	19.9	200	1N	C		.80	3.20				8
556 SANM	26	1734	1757	1737	N19	E48	.797	10708	30.3	23	-F	2 C		.32	.53			D	6
557 SANM	26	1824	1903	1830	N18	E48	.793	10708	30.4	39	-N	2 C		.48	.80			D	6
560 MCMA	26	2107	2110D		N12	W90	1.000	10687	20.1	3D	-N	P	2110					D	2
GRP29563	27	0700	0805	0800	S10	E60	.863	10709	1.8	65	-N							2 2 0	8
ISTA	27	0700	0735		S12	E68	.924	10709	2.4	35	-N								
ISTA	27	0735	0805		S10	E55	.817	10709	1.4	30	-B								
TEHR	27	0757E	0804D	0800	S09	E59	.854	10709	1.8	7D	-F								
564 ISTA	27	0700	0805		S10	W56	.827	10691	23.1	65	-B								9

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCWATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
	1970 APR																		
565 ISTA	27	0710	0740		N08	W56	.841	10693	23.1	30	-B							9	
566 TEHR	27	1140E	1150D		S12	E69	.931	10709	2.7	10D	-F							9	
567 BOUL	27	1408	1420	1410	S11	E62	.880	10709	2.2	12	-F	V						9	
GRP29568 CANR RAMY	27	1604	1615	1607	S08	E81	.986	10709	3.7	11	-F			.31				2 2 1 6	
	27	1603	1612		S10	E78	.976	10709	3.5	9	-F	2 V			.50				
	27	1605	1618	1607	S06	E83	.992	10709	3.9	13	-F	C		.31			DE		
570 SANM	27	1844	1909	1850	N13	W69	.944	10693	22.6	25	-F	2 C		.65				D 5	
GRP29571 BOUL BOUL	27	1954	2014	1955	S11	E57	.836	10709	2.1	20	-F							1 1 0 5	
	27	1954	2004	1955	S10	E55	.817	10709	2.0	10	-F	V							
	27	1955	2014	1958	S12	E60	.864	10709	2.3	19	-F	V							
572 SANM	27	2010E	2025D		N10	E41	.687	10710	30.9	15D	-F	2 C	2018	.17	.22			D 5	
577 MANI	28	0728	0741	0729	S16	E05	.217	10701	28.7	13	-N	2	0729	.31	.32			8	
578 TEHR	28	0945E	0950D		S12	E54	.808	10709	2.5	5D	-F							4	
579 TEHR	28	0945E	0949D		S08	W67	.918	10691	23.4	4D	-N							4	
580 TEHR	28	0955	1000D	0957	S14	E00	.165	10701	28.4	5D	1F							5	
583 TEHR	28	1053E	1058D	1054	S08	W67	.918	10691	23.4	5D	-F							6	
585 SANM	28	1411	1430	1416	N09	E29	.528	10710	30.8	19	-F	2 C		.32	.38		D	5	
586 SANM	28	1444	1451	1445	N12	E65	.918	10714	3.5	7	-N	2 C		.48	1.53		D	8	
588 MCMA	28	1508	1530	1512	S17	W03	.223	10701	28.4	22	-N	C	1512	.62	.70		E	6	
590 SANM	28	1647	1657	1651	S11	E47	.731	10709	2.2	10	-F	2 C		.80	1.18		D	7	
591 BOUL	28	1710	1715	1711	S11	E45	.707	10709	2.1	5	-N	V	1711		.50			4	
593 SANM	28	1803	1820	1808	N05	W33	.563	10698	26.3	17	-F	2 C		.32	.38		D	5	
596 MANI	28	2310	2324	2314	S11	E45	.707	10709	2.3	14	-N	2	2314	.21	.30			3	
GRP29600 MANI CRON	29	0341	0351	0343	N12	E25	.497	10710	1.0	10	-F			.46				2 2 2 5	
	29	0341E	0354		N12	E23	.472	10710	30.9	13D	-N	2	0344	.52	.56				
	29	0341	0348	0343	N11	E27	.515	10710	1.2	7	-F	2 V	0343	.40					
604 CAPS	29	0722E	0745D		S03	W90	1.000	10691	22.6	23D	-N	2 V						10	
605 CAPS	29	0920E	1020D		N11	W90	1.000	10693	22.6	60D	1N	2 S						5	
*GRP29606 ABST CAPE RAMY CAPS CAPS	29	1058	1120	1104	S10	E29	.489	10709	1.6	22	-N			1.54				4 4 4 6	
	29	1057	1120	1105	S10	E26	.444	10709	1.4	23	1N	C	1105	1.97	2.20		E		
	29	1057	1115	1104	S08	E28	.470	10709	1.6	18	-N	C	1104	1.22	1.40				
	29	1058	1120	1103	S08	E29	.486	10709	1.6	22	-N	C		1.65			DE		
	29	1059	1125		S12	E30	.509	10709	1.7	26	-B	3 P	1106	1.30	1.50		H		
	29	1102	1108		S15	E34	.575	10709	2.0	6	-N	3 V	1105	1.00	1.20	266 160	E		
608 SANM	29	1350	1401	1353	S12	E37	.607	10709	2.4	11	-F	1 C		.80	1.01		E	8	
609 SANM	29	1355	1406	1400	N12	E47	.761	10714	3.1	11	-N	1 C		.32	.50		D	7	
610 SANM	29	1404	1433	1414	S09	E37	.602	10709	2.4	29	-F	1 C		.32	.40		D	7	
612 BOUL	29	1457	1515	1509	N10	W90	1.000	10693	22.9	18	-N	S						7	
613 BOUL	29	1505	1513	1511	S12	E85	.995	10720	6.0	8	-F	S						7	
615 SANM	29	1725	1740	1731	N11	W53	.819	10698	25.8	15	-F	1 C		.32	.54		D	5	
616 SANM	29	1823	1910	1840	S18	E68	.925	10717	4.9	47	1F	1 C		1.13			E	4	
621 MANI	30	0203	0228	0205	S11	E30	.507	10709	2.3	25	-N	2	0205	.41	.48			4	
GRP29627 MANI HTPR	30	0647	0706	0650	S13	E35	.583	10709	2.9	19	-F			.52				2 2 2 7	
	30	0645	0710	0648	S12	E35	.580	10709	2.9	25	-F	2	0648	.72	.85				
	30	0649	0702	0652	S14	E34	.572	10709	2.8	13	-F	C	0652	.31	.40		E		

* Should be in "Confirmed" listing.

SOLAR FLARES
Unconfirmed

APRIL 1970

OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1970	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
GRP29628 MANI HTPR	APR																		
	30	0706	0711	0708	N11	E08	.296	10710	30.9	5	-F			.52				2 2 2 7	
	30	0705	0710	0707	N11	E07	.289	10710	30.8	5	-F	2	0707	.52	.52				
	30	0707	0712	0708	N11	E08	.296	10710	30.9	5	-F		C	0708	.52	.50			
630 HTPR	30	0756	0800	0757	N17	W04	.369	10708	30.0	4	-F		C	0757	.41	.40		6	
632 HTPR	30	0833	0842	0836	N13	E85	.998	10722	6.7	9	-F		C	0836	.41			4	
633 MANI	30	0919	0937	0922	N15	E83	.995	10722	6.6	18	-N	2		0922	.31	.86		5	
634 HTPR	30	1012	1024	1013	S08	E15	.265	10709	1.5	12	-F		C	1013	.62	.60		6	
639 CAPS	30	1443E	1500D		S15	W28	.493	10701	28.5	17D	1F	3	V	1444	4.00	4.60	140	U 5	