

SOLAR FLARES
Confirmed
JUNE 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1970 JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
365 LOCK	01	0002	0025	0014	S06	W63	.892	10760	27.3	23	--F						4	
366 LOCK	01	0008	0025	0014	S04	W63	.891	10760	27.3	17	--F						4	
GRP30367	01	0113	0137	0115	S07	W63	.892	10760	27.3	24	-B						2 2 2 3	
VORO	01	0112	0131	0113	S09	W65	.908	10760	27.2	19	-B	C	0113	1.03	1.98		107	
MANI	01	0113	0142	0117	S04	W61	.875	10760	27.5	29	1N	2	0117	1.13	2.10			
GRP30370	01	0319	0336	0323	N09	W15	.306	10763	31.0	17	-N			1.03			2 2 2 4	
CRON	01	0319	0332	0322	N08	W15	.297	10763	31.0	13	-N	3	0322	1.44				
MANI	01	0319	0340	0323	N09	W14	.292	10763	31.1	21	-N	2	0323	.62	.65			
GRP30373	01	0545	0612	0545	N08	W25	.445	10763	30.4	27	--F			1.00			3 3 2 8	
MANI	01	0544E	0612		N08	W28	.488	10763	30.1	280	-F	2	0546	.83	.94			
CATA	01	0545	0545		N08	W28	.488	10763	30.1	50	-N		0545	1.16	1.33		186	
TEHR	01	0547E	06000		N08	W20	.371	10763	30.7	130	-F							
381 TEHR	01	0715E	08200	0755	N08	W20	.371	10763	30.8	650	2N						12	
11 STATIONS REPORTING GROUP 30384. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP30384	01	0740	0816	0753	S05	W68	.927	10760	27.2	36	1B			1.59			9 9 9 12	
MONT	01	0728	0823	0755	S05	W70	.940	10760	27.1	55	1B	C	0755	2.06				
HTPR	01	0733	0820	0747	S05	W70	.940	10760	27.1	47	1B	C	0747	1.13				
HTPR	01	0733	0820	0758	S05	W70	.940	10760	27.1	47	1B							
ZURI	01	0734	0810	0755	S06	W68	.928	10760	27.2	36	1B	C	0755	1.89				
CAPE	01	0735	0815	0756	S05	W69	.934	10760	27.1	40	1B	C	0756	1.38	3.70			
KHAR	01	0739	08200	0750	S07	W68	.928	10760	27.2	410	2N	P	0800	3.97	10.60		HO	
ABST	01	0745E	0814	0754	S04	W70	.940	10760	27.1	290	1N	P	0754	.90			D	
MEUD	01	0746E	08000		S06	W69	.934	10760	27.1	140	-B	C	0754	1.24				
MANI	01	0750E	08000		S04	W63	.891	10760	27.6	100	-B	2	0754	.52	.95			
CAPF	01	0755	0810		S07	W69	.934	10760	27.2	15	1N	P	0758	1.24			H	
30384	01	0759	0817	0812	S05	W69	.934	10760	27.2	18	*1N			.96			3 3 3 12	
CRON	01	0759	0817		S05	W68	.927	10760	27.2	18	1N	3	V	1.24				
MEUD	01	0808E	0817		S06	W69	.934	10760	27.2	90	-N	C	0808	1.03			B	
HERS	01	0812E	08180	0812E	S05	W69	.934	10760	27.2	60	1N	S	0813	.62	2.40		EB	
GRP30388	01	0915	0931	0919	S05	W70	.940	10760	27.1	16	1F			.84			3 3 2 7	
MONT	01	0914	0929	0918	S05	W71	.946	10760	27.1	15	-N	C	0918	.77				
ABST	01	0916	0935	0918	S05	W70	.940	10760	27.1	19	1F	C	0918	.90			D	
TEHR	01	0918E	09300	0921	S05	W68	.927	10760	27.3	120	1F							
GRP30393	01	1156	1227	1201	S05	W70	.940	10760	27.2	31	1N			1.08			7 7 5 8	
MONT	01	1152	12150	1159	S05	W72	.951	10760	27.1	230	1B	C	1159	1.13				
CANR	01	1155	1226		S07	W69	.934	10760	27.3	31	-N	3	V		1.90			
CAPE	01	1156	1230	1204	S05	W70	.940	10760	27.2	34	1N	C	1204	1.16	3.40			
BOUL	01	1156	1225	1159	S05	W69	.934	10760	27.3	29	1N	V	1159		3.50			
MEUD	01	1156	12060		S05	W71	.946	10760	27.2	100	-N	C	1158	1.03				
ZURI	01	1157	12030	1200	S06	W70	.940	10760	27.2	60	1N	P	1200	1.34				
CATA	01	1200	1225	1205	S05	W70	.940	10760	27.3	25	-B		1205	.75			240	
GRP30395	01	1346	1359	1349	S05	W72	.951	10760	27.2	13	-F			.53			4 4 3 11	
MEUD	01	1345	13510		S05	W72	.951	10760	27.2	60	-N	C	1348	.41				
MONT	01	1346	1401	1348	S05	W71	.946	10760	27.2	15	-N	C	1348	.77				
BOUL	01	1346	1357	1349	S05	W71	.946	10760	27.2	11	-F	V						
MCHA	01	1350E	13580		S05	W72	.951	10760	27.2	80	-F	P	1350	.41	1.50		E	
GRP30396	01	1500	1509	1505	S05	W72	.951	10760	27.2	9	--N			.14			3 3 2 8	
HUAN	01	1459	1507	1505	S06	W76	.970	10760	26.9	8	-F	2	C	1505	.17			
BOUL	01	1500	1512	1504	S05	W71	.946	10760	27.3	12	-N	V						
MONT	01	1500	1509	1505	S05	W70	.940	10760	27.4	9	-N	C	1505	.10				
GRP30402	01	1703	1711 (1709)		S06	W73	.956	10760	27.2	8	-N			.62			2 2 1 4	
MEUD	01	1656E	17110		S05	W74	.961	10760	27.2	150	-N	C	1709	.62				
CANR	01	1709	17090		S07	W72	.951	10760	27.3		-N	2	V		.70			
403 HUAN	01	1732	1747	17420	S06	W76	.970	10760	27.0	15	--F	1	C	1742	.17			D 3
GRP30404	01	1813	1832	1815	S07	W75	.966	10760	27.1	19	-N			.50			3 3 1 3	
LOCK	01	1810	1822	1814	S07	W78	.978	10760	26.9	12	-F							
HUAN	01	1811E	1841	1815	S06	W76	.970	10760	27.1	300	-N	1	C	1815	.50			D
CANR	01	1817	18170		S07	W72	.951	10760	27.4		-N	2	V		.70			
405 LOCK	01	1850	1915	1858	N17	W42	.707	10761	29.6	25	--F						2	
406 HUAN	01	1914	1930	1916	S07	W76	.970	10760	27.1	16	--N	1	C	1916	.14			D 3

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	DATE 1970 JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %	
GRP30519	09	1558	1622	1605	N16	E32	.577	10780	12.1	24	-N		1.49				7 7 5 7		
BOUL	09	1553	1625D	1555	N17	E29	.546	10780	11.8	32D	-N								
CAPS	09	1554	1612D	1605	N15	E32	.572	10780	12.1	18D	-B	3	V	1605	1.00	1.20	237		
RAMY	09	1559	1618	1605	N16	E31	.565	10780	12.0	19	-N		C		.77			F	
WEND	09	1559E	1633		N16	E32	.577	10780	12.1	34D	1N		V		4.13				
MCMA	09	1600	1622	1605	N14	E32	.567	10780	12.1	22	-B		C	1605	.52	.60		E	
ZURI	09	1600	1615	1604	N16	E33	.590	10780	12.1	15	-N		C	1604	1.05	1.30			
ONDR	09	1604E	1619		N17	E32	.583	10780	12.1	15D	-N		V	1613			2.10	G	
GRP30521	09	1808	1827	1810	N15	E31	.559	10780	12.1	19	--N				.62			2 2 2 2	
MCMA	09	1807	1828	1810	N14	E31	.553	10780	12.1	21	-N		C	1810	.62	.70		E	
RAMY	09	1809	1825	1810	N15	E30	.546	10780	12.0	16	-N		C		.62			DE	
GRP30522	09	2114	2129	2117	N19	E57	.856	10781	14.2	15	-B				.58			3 3 3 3	
RAMY	09	2114	2131	2117	N18	E56	.846	10781	14.1	17	-B		C		.67			DE	
VORO	09	2114	2126	2116	N18	E57	.860	10781	14.2	12	-B		C	2116	.46	.90	90	EJ	
MCMA	09	2115E	2131	2118	N17	E58	.861	10781	14.2	16D	-B		C	2118	.62	1.10		E	
GRP30523	09	2330	2350	2334	N17	E27	.521	10780	12.0	20	--B				.74			2 2 1 3	
VORO	09	2330	2346	2334	N17	E26	.509	10780	11.9	16	-B		C	2334	.74	.90	88	EJH	
BOUL	09	2338E	2354D		N17	E27	.521	10780	12.0	16D	-N		S						
GRP30524	10	0042	0109	0046	N25	E61	.897	10781	14.6	27	-B				.84			2 2 2 3	
CRON	10	0040	0119		N22	E60	.885	10781	14.5	39	-N	2	V		.93				
VORO	10	0044	0059	0046	N27	E62	.907	10781	14.7	15	-B		C	0046	.74	1.60	65	DJ	
GRP30525	10	0205	0244	(0210)	N17	E79	.983	10781	16.0	39	-N				.41			2 1 1 4	
MANI	10	0205	0241		N17	E79	.983	10781	16.0	36	-N	2		0210	.41	1.06			
CRON	10	0234	0246		N16	E78	.979	10781	16.0	12	-N	3	V		.31				
GRP30526	10	0221	0253	(0225)	N14	E25	.473	10780	12.0	32	--N				.62			2 1 1 4	
MANI	10	0221	0252		N15	E22	.441	10780	11.7	31	-N	2		0225	.62	.68			
CRON	10	0246	0254		N13	E28	.507	10780	12.2	8	-N	3	V		.62				
GRP30527	10	0410	0428	0410	N17	E77	.976	10781	15.9	18	1F				1.38			2 2 2 4	
TACH	10	0405E	0423D	0410	N18	E78	.980	10781	16.0	18D	1N		V	0410	1.82		3.20	66	E
CRON	10	0414	0428		N15	E76	.972	10781	15.9	14	1F	3	V		.93				
GRP30528	10	0430	0458	0445	N15	E25	.480	10780	12.1	28	--N				.83			2 2 2 5	
MANI	10	0425E	0501D	0445	N16	E25	.488	10780	12.1	36D	-N	2		0445	1.03	1.18			
CRON	10	0435	0454		N14	E25	.473	10780	12.1	19	-N	3	V		.62				
6 STATIONS REPORTING GROUP 30535. 3 STATIONS OBSERVING AND NOT REPORTING.																			
GRP30535	10	0800	0822	0808	N15	E22	.441	10780	12.0	22	-N				.86			4 4 3 9	
MONT	10	0730	0804D	0758	N16	E25	.488	10780	12.2	34D	-N		C	0758	1.55				
CAPS	10	0800	0822		N14	E22	.433	10780	12.0	22	-B		V	0805	.50	.60	22D		
HPR	10	0805E	0825D	0807	N15	E22	.441	10780	12.0	20D	-N		C	0807	.52	.60			
HURB	10	0808E	0819	0808	N14	E20	.407	10780	11.8	11D	1F						1.86		
30535	10	0726	0830	0745	N16	E25	.488	10780	12.2	64	*2N							2 2 0 11	
ISTA	10	0721E	0825	0745	N15	E23	.454	10780	12.0	64D	-N								
TEHR	10	0730	0835D	0745	N17	E27	.520	10780	12.3	65D	3N							E	
GRP30539	10	1130	1153	1134	N15	E20	.416	10780	12.0	23	--F				.60			2 2 2 6	
RAMY	10	1130	1153	1134	N16	E20	.425	10780	12.0	23	-F		C		.67			F	
MCMA	10	1138E	1145D		N14	E20	.407	10780	12.0	7D	-N		C	1140	.52	.60		E	
GRP30540	10	1219	1248	1225	N15	E19	.403	10780	11.9	29	--N				.86			3 3 3 5	
MONT	10	1217	1248	1226	N15	E19	.403	10780	11.9	31	-N		C	1226	1.13				
MCMA	10	1220	1245D	1223	N14	E20	.407	10780	12.0	25D	-N		C	1223	.62	.70		E	
RAMY	10	1220	1243D	1227	N16	E19	.413	10780	11.9	23D	-N		C		.83			F	
GRP30541	10	1242	1258	1248	N12	E76	.971	10781	16.2	16	-N							2 1 0 5	
RAMY	10	1242E	1243D		N17	E75	.968	10781	16.2	1D	-F		C					DE	
MCMA	10	1242	1258	1248	N12	E76	.971	10781	16.2	16	-N		C	1248				E	
GRP30543	10	1317	1403	1334	N15	E19	.403	10780	12.0	46	-N				1.65			4 4 4 4	
MONT	10	1316	1402	1328	N15	E18	.391	10780	11.9	46	-N		C	1328	1.13				
RAMY	10	1317	1403	1336	N16	E19	.413	10780	12.0	46	1B		C		2.11			F	
MCMA	10	1317	1355D	1323	N14	E18	.381	10780	11.9	38D	-N		C	1323	1.03	1.00		EK	
MCMA	10	1317	1355D	1333	N14	E18	.381	10780	11.9	38D	-N								
ZURI	10	1321E	1347D	1337	N16	E20	.425	10780	12.1	26D	1N		P	1337	2.31	2.50			

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	DATE 1970 JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %				
GRP30579	11	1607	1629	1616	N16	E70	.944	10789	16.9	22	-N							7 7 4 8			
CANR	11	1540	1633	1618	N15	E76	.972	10789	17.4	53	1F	2	V			3.30					
LOCK	11	1600	1632	1615	N15	E70	.943	10789	16.9	32	-N							H			
RAMY	11	1600	1622D	1614	N16	E70	.944	10789	16.9	22D	-N							DE			
CATA	11	1610	1625	1615	N15	E68	.931	10789	16.8	15	-B			1615	.63		218				
MCMA	11	1610	1627	1614	N16	E68	.932	10789	16.8	17	-N			C	1614	.52	1.50		LK		
HTPR	11	1611	1626	1621	N16	E70	.944	10789	16.9	15	-F			C	1621	.62			H		
MEUD	11	1611E	1628	1614	N17	E70	.944	10789	16.9	17D	1B			C	1614	1.65					
GRP30580	11	1644	1701	1648	N18	E73	.960	10789	17.2	17	-B					.61			4 4 3 5		
MCMA	11	1642	1700	1647	N19	E70	.945	10789	16.9	18	-B			C	1647	.62	1.80		E		
HTPR	11	1643	1705	1648	N19	E75	.969	10789	17.3	22	-B			C	1648	.52					
CATA	11	1645	1655	1645	N17	E70	.944	10789	16.9	10	-B				1645	.69		324			
LOCK	11	1646	1702	1651	N17	E77	.976	10789	17.5	16	-F										
584 LOCK	11	1958	2017	2006	S17	E85	.997	10791	18.2	19	--F								2		
585 LOCK	11	2000	2035	2012	N25	E35	.666	10781	14.5	35	-N								2		
GRP30586	11	2017	2039	2024	S18	W15	.402	10774	10.7	22	-N					1.03			2 2 1 4		
LOCK	11	2017	2040	2024	S17	W14	.379	10774	10.8	23	1N										
MCMA	11	2019E	2038		S19	W15	.414	10774	10.7	19D	-N			C	2023	1.03	1.00		EH		
GRP30596	12	0425	0433	0427	N18	E73	.960	10789	17.7	8	1N					1.44			2 2 2 7		
ABST	12	0424	0435	0426	N17	E71	.949	10789	17.5	11	1N			C	0426	1.79		55	D		
TACH	12	0425	0431	0427	N19	E75	.969	10789	17.8	6	1N			C	0427	1.09		1.97	66	D	
11 STATIONS REPORTING GROUP 30598. 0 STATIONS OBSERVING AND NOT REPORTING.																					
GRP30598	12	0620	0658	0628	N18	E65	.914	10789	17.1	38	1N					2.96			9 9 5 10		
CULG	12	0618	0643D	0632	N16	E63	.898	10789	17.0	25D	2B			P	0632	3.92	8.55		RLH		
HTPR	12	0619	0715	0629	N19	E67	.928	10789	17.3	56	1N			C	0629	.83	2.00				
ABST	12	0619E	0700	0626	N17	E70	.944	10789	17.5	41D	1N			P	0626	.90			58	DJH	
ISTA	12	0619	0639		N20	E65	.916	10789	17.1	20	-B										
SIBE	12	0619E	0635		N18	E68	.933	10789	17.4	16D	1F			V					E		
WEND	12	0622E	0703D		N17	E65	.913	10789	17.1	41D	2N			V		8.25					
CAPS	12	0623	0714D		N18	E62	.893	10789	16.9	51D	-B			P	0630	.90			246	H	
HURB	12	0624E	0712	0626	N18	E60	.878	10789	16.8	48D	2N						4.06			H	
ONDR	12	0628E	0705		N19	E65	.915	10789	17.1	37D	1B			V	0630			2.90		CH	
30598	12	0627	0704	0656	N19	E62	.894	10789	16.9	37	*-N					1.47				2 2 2 10	
GROU	12	0627	0700		N17	E62	.892	10789	16.9	33	-N			3	V		.83				
ZURI	12	0654E	0708	0656	N20	E62	.896	10789	16.9	14D	1N			P	0656	2.10					
GRP30605	12	1013	1029	1018	N19	E62	.894	10789	17.1	16	--F					.68				3 3 2 9	
HTPR	12	1013	1035	1017	N19	E63	.901	10789	17.2	22	-F			C	1017	.52	1.10				
ZURI	12	1013	1022	1018	N19	E58	.863	10789	16.8	9	-F			C	1018	.84	1.70				
CANR	12	1014	1014D		N18	E65	.914	10789	17.3		-N			2	V		.90				
GRP30607	12	1121	1132	1127	N18	E62	.893	10789	17.1	11	-N					.58				3 3 2 8	
CANR	12	1119	1132		N17	E63	.899	10789	17.2	13	-N			3	V		.90				
HTPR	12	1120	1135	1127	N19	E63	.901	10789	17.2	15	-F			C	1127	.62	1.40				
ZURI	12	1125	1128	1126	N19	E61	.887	10789	17.1	3	-N			C	1126	.53	1.10				
GRP30608	12	1134	1150	1138	N15	E14	.341	10781	13.5	16	--N					.75				7 6 6 9	
RAMY	12	1129	1147	1136	N15	E13	.330	10781	13.5	18	-F			C		.52				DEH	
HTPR	12	1133	1150	1139	N14	E14	.330	10781	13.5	17	-F			C	1139	.41	.40				
CANR	12	1133	1133D		N13	E14	.319	10781	13.5		-N			3	V		.40				
CATA	12	1135	1145D	1135	N14	E14	.330	10781	13.5	10D	-B				1145	.80	.86		246	Z	
ZURI	12	1135	1146	1138	N15	E13	.330	10781	13.5	11	-N			C	1138	.55	.60				
KHAR	12	1138	1147D	1142	N16	E14	.353	10781	13.5	9D	-F			P	1144	1.70	1.80			D	
CAPS	12	1143E	1200D		N15	E17	.376	10781	13.8	17D	-N			V	1145	.50	.50		160	CD	
GRP30612	12	1306	1328	1313	N19	E61	.887	10789	17.1	22	-N					.96				6 6 5 11	
ZURI	12	1302E	1323	1312	N19	E63	.901	10789	17.3	21D	-F			P	1312	1.68	3.60				
HTPR	12	1305	1335	1313	N19	E61	.887	10789	17.1	30	-F			C	1313	.83	1.90				
HUAN	12	1308	1321	1313	N18	E60	.878	10789	17.0	13	-N			2	C	1313	.21	.40			E
CANR	12	1308	1325		N18	E62	.893	10789	17.2	17	-N			3	V		1.30				
RAMY	12	1309	1331	1313	N19	E60	.879	10789	17.0	22	-N			C		1.03				DEH	
MCMA	12	1315E	1330		N19	E60	.879	10789	17.1	15D	1N			P	1315	1.03	2.30			E	
GRP30614	12	1354	1418	1400	N16	E59	.867	10789	17.0	24	--N					.80				6 6 5 10	
LOCA	12	1353	1410	1357	N15	E55	.831	10789	16.7	17	-N			V	1357	.63	1.20				
HUAN	12	1354	1400	1359	N16	E56	.841	10789	16.8	6	-F			2	C	1359	.17	.30			E
ABST	12	1354	1430	1357	N17	E56	.843	10789	16.8	36	1N			C	1357	1.43	2.70			E	
HTPR	12	1354	1358D		N16	E61	.883	10789	17.2	4D	-F			C							
CANR	12	1356	1410		N14	E66	.918	10789	17.5	14	-N			2	V		.60				
MCMA	12	1358E	1425		N18	E58	.862	10789	16.9	27D	-N			P	1359	.72	1.40			E	
HTPR	12	1400	1430	1408	N19	E61	.887	10789	17.2	30	-F			C	1408	1.03					

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPOR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
1970 JUN																	
GRP30624	12	1923	1936	1926	N16	E10	.313	10781	13.6	13	--N						4 4 3 4
RAMY	12	1921	1947D	1926	N16	E10	.313	10781	13.6	26D	-F	C		.53			
MCMA	12	1922	1932	1926	N16	E10	.313	10781	13.6	10	-N	C	1926	.62	.60		E
HUAN	12	1924	1932	1927	N16	E09	.305	10781	13.5	8	-N	2 C	1927	.52	.50		E
BOUL	12	1924	1933	1926	N16	E09	.305	10781	13.5	9	-N	S	1926	.45	1.50		
GRP30627	12	1938	1950	1940	N17	E09	.319	10781	13.5	12	--B			.69			4 4 3 4
RAMY	12	1921	1947D	1938	N16	E10	.313	10781	13.6	26D	-N	C		.83			DE
HUAN	12	1938	1949	1939	N17	E08	.312	10781	13.4	11	-B	2 C	1939	.62	.60		E
BOUL	12	1938E	1950D	1942	N17	E08	.312	10781	13.4	12D	-B	S	1942	.80	.80		
MCMA	12	1938	1950D	1939	N16	E09	.305	10781	13.5	12D	-N	C	1939	.62	.70		E
GRP30628	12	2029	2058	2033	N19	E56	.847	10789	17.1	29	-F			.58			4 4 3 4
MCMA	12	2029	2045D		N18	E59	.870	10789	17.3	16D	-N	P	2032	.72	1.50		E
BOUL	12	2029	2050	2031	N20	E55	.840	10789	17.0	21	1F	V	2031		3.00		
RAMY	12	2029	2046D	2033	N17	E53	.816	10789	16.8	17D	-F	C		.52			DE
HUAN	12	2030E	2105	2036	N20	E57	.857	10789	17.1	35D	-N	2 P	2036	.50	1.00		E
GRP30629	12	2030	2049	2034	S14	E67	.926	10791	17.9	19	--N			.23			3 3 2 4
HUAN	12	2030E	2056E	2034	S14	E70	.944	10791	18.1	26D	-F	2 P	2034	.25			D
BOUL	12	2030	2042	2033	S15	E61	.885	10791	17.4	12	-N	V	2033		.80		
MCMA	12	2032E	2033D		S14	E70	.944	10791	18.1	1D	-N	P	2032	.21	.70		DH
GRP30630	12	2110	2228	2121	S14	W27	.507	10774	10.9	78	1N			5.28			6 5 4 6
MCMA	12	2106	2142D		S13	W29	.527	10774	10.7	36D	1N	P	2133	3.30	4.00		FL
RAMY	12	2107E	2136D	2119U	S13	W29	.527	10774	10.7	29D	1N	C		4.13			UF
BOUL	12	2108	2245	2120	S15	W25	.489	10774	11.0	97	2N	V	2120		6.00		
VORO	12	2112	2238		S14	W28	.520	10774	10.8	86	2N	C	2115	6.47	7.40	150	EJL
HUAN	12	2112E	2119D	2118	S15	W24	.476	10774	11.1	7D	-B	2 C	2118	.62	.70		E
HUAN	12	2113	2119D	2118	S15	W27	.514	10774	10.9	6D	-B	2 C	2118	.62	.70		E
CULG	12	2117E	2200	2125	S12	W29	.522	10774	10.7	43D	2B	P	2125	9.90	11.52		U
GRP30631	12	2132	2234	2154	N23	E20	.494	10781	14.4	62	1N			4.04			4 3 2 4
CULG	12	2122	2233	2158	N23	E21	.504	10781	14.5	71	1N	C	2158	3.09	3.45		
VORO	12	2136	2234	2156	N22	E20	.483	10781	14.4	58	1B	C	2156	4.99	5.10	97	EJ
MCMA	12	2138E	2142D		N21	E20	.473	10781	14.4	4D	-N	P	2141	.52	.60		E
BOUL	12	2139	2235	2149	N23	E20	.494	10781	14.4	56	1N	V	2149		3.50		
GRP30632	12	2233	2255	2245	N16	E07	.290	10781	13.5	22	-B			1.02			2 2 1 3
BOUL	12	2224	2255	2246	N16	E07	.290	10781	13.5	31	-N	V	2246		1.00		
VORO	12	2241	2254	2244	N16	E06	.283	10781	13.4	13	-B	C	2244	1.02	1.04	105	EJ
GRP30633	12	2237	2313	2243	N19	E57	.855	10789	17.2	36	1N			1.71			3 3 2 3
VORO	12	2236	2320	2240	N21	E56	.850	10789	17.1	44	1B	C	2240	1.66	3.00	90	EJ
CULG	12	2237	2328	2248	N18	E56	.845	10789	17.1	51	1N	C	2248	1.75	3.06		
BOUL	12	2239	2250	2241	N19	E60	.879	10789	17.4	11	-N	V	2241		1.00		
GRP30635	13	0122	0138	0124	N16	E10	.312	10781	13.8	16	-N			1.50			3 3 2 4
CRON	13	0122	0142	0122	N15	E12	.318	10781	14.0	20	-F	3 V	0122	1.34			
VORO	13	0122	0132	0124	N17	E08	.310	10781	13.7	10	-B	C	0124	1.66	1.70	64	EJL
BOUL	13	0125E	0140	0127	N17	E10	.325	10781	13.8	15D	-N	S	0127		.70		
GRP30636	13	0135	0206	0144	N16	E51	.794	10789	16.9	31	1N			2.28			4 4 3 5
BOUL	13	0055	0122	0104	N19	E52	.810	10789	16.9	27	1F	V	0104		2.50		
CRON	13	0122	0154		N12	E55	.826	10789	17.2	32	1F	3 V		1.55			
CULG	13	0126	0221	0147	N16	E51	.794	10789	16.9	55	1N	C	0147	2.68	4.16		
BOUL	13	0139E	0159	0143	N19	E51	.801	10789	16.9	20D	1N	S	0143		2.50		
CRON	13	0141	0157	0143	N15	E50	.781	10789	16.8	16	-N	3 V	0143	1.03			
KODA	13	0148E	0154D		N16	E49	.773	10789	16.8	6D	1N	P	0148	2.61	2.60		CE
CRON	13	0154	0159		N12	E56	.835	10789	17.3	5	-F	3 V		.31			
KODA	13	0217	0221	0217	N16	E50	.783	10789	16.8	4	1N	V	0217	3.14	3.10	1.72	CD
GRP30638	13	0300	0316	0303	N18	E56	.844	10789	17.3	16	-N			1.43			5 5 5 6
TACH	13	0252E	0316	0302	N20	E59	.873	10789	17.5	24D	-N	C	0302	1.00	1.92	1.45	60
CRON	13	0259	0311	0302	N17	E55	.834	10789	17.2	12	-N	3 V		.72			
ABST	13	0300E	0325	0304	N17	E55	.834	10789	17.3	25D	1N	P	0304	1.35	2.50		61
VORO	13	0301	0308	0302	N21	E58	.866	10789	17.5	7	-B	C	0302	.65	1.20		90
KODA	13	0306	0318	0306	N16	E55	.832	10789	17.3	12	1N	V	0306	3.45	3.50	1.96	CDK
GRP30639	13	0411	0427	0415	N17	E55	.834	10789	17.3	16	-N			.74			4 4 3 6
CRON	13	0410	0429	0414	N18	E55	.835	10789	17.3	19	-N	3 V		.41			
TACH	13	0411	0426	0416	N19	E58	.863	10789	17.5	15	-N	C	0416	.91	1.75	3.08	75
ABST	13	0413	0426	0416	N15	E56	.839	10789	17.4	13	-N	C	0416	.90	1.60		66
ONDR	13	0419E	0425		N17	E52	.806	10789	17.1	6D	1N	V	0420			2.30	CE

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS			
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha	MAX. INT. %	
1970																				
JUN																				
GRP30640	13	0444	0500	0448	N17	E55	.834	10789	17.3	16	1N									
CRON	13	0442	0500	0448	N18	E55	.835	10789	17.3	18	-B						5 5 4 6			
CRON	13	0442	0500	0443	N18	E55	.835	10789	17.3	18	-N	3	V							
TACH	13	0443	0500	0450	N18	E57	.853	10789	17.5	17	-N		C	0450	.73	1.42	2.25	69	DT	
ABST	13	0444	0556	0447	N16	E56	.841	10789	17.4	72	1N		C	0447	1.35	2.30			DK	
KODA	13	0446	0456D	0447	N16	E54	.823	10789	17.2	100	1N		V	0446	2.30	2.30	2.96		CDK	
ONDR	13	0446E	0455D		N17	E55	.834	10789	17.3	9D	1N		V	0449			2.80		CD	
8 STATIONS REPORTING GROUP 30642. 1 STATIONS OBSERVING AND NOT REPORTING.																				
GRP30642	13	0505	0552	0512	N17	E51	.796	10789	17.0	47	1N				2.67					7 7 5 8
TEHR	13	0500E	0555D	0515	N19	E52	.810	10789	17.1	55D	2B									K
TACH	13	0504	0550D	0514	N17	E52	.806	10789	17.1	46D	1N		C	0514	3.01	5.05	1.91	60		ETZ
CRON	13	0504	0551		N19	E50	.791	10789	17.0	47	1F	3	V		1.65					
CULG	13	0505	0559		N17	E53	.815	10789	17.2	54	1N		P	0511	1.65	2.72				
CATA	13	0505E	0535	0510	N19	E50	.791	10789	17.0	30D	1B			0510	1.68	2.86		288		B
ONDR	13	0507	0520D	0510	N14	E50	.779	10789	17.0	13D	2F		V	0510						CEKIF
ABST	13	0508	0600	0513	N16	E52	.803	10789	17.1	52	2N		C	0513	5.38	9.10			63	E
30642																				
HTPR	13	0518E	0558	0531	N18	E53	.817	10789	17.2	28	*-F				.93					2 2 1 8
ONDR	13	0531E	0534		N18	E56	.844	10789	17.4	40D	-F		C	0531	.93	1.60				E
					N17	E50	.786	10789	17.0	3D	-F		V	0532			1.80			CDFI
GRP30646	13	0605	0627	0611	N21	E50	.796	10789	17.0	22	1N				1.90					6 6 4 9
TEHR	13	0505	0625D		N22	E51	.809	10789	17.0	80D	2N									
CRON	13	0604	0630	0608	N21	E49	.787	10789	16.9	26	1N	3	V	0608	1.65					
HTPR	13	0604	0622	0612	N22	E50	.799	10789	17.0	18	1F		C	0612	2.17	3.60				
CATA	13	0605	0620	0610	N23	E50	.802	10789	17.0	15	-B			0610	.87	1.52		295		
CULG	13	0605	0638	0615	N21	E50	.796	10789	17.0	33	1N		C	0615	2.89	4.76				RL
ISTA	13	0605	0625		N19	E52	.810	10789	17.2	20	-B									
ISTA	13	0605	0630		N15	E45	.727	10789	16.6	25	-F									
GRP30648	13	0700	0719	0704	N18	E53	.817	10789	17.3	19	-B				1.27					10 10 7 10
HTPR	13	0629	0655	0633	N18	E55	.835	10789	17.4	26	-F		C	0633	.93	1.60				H
TEHR	13	0635	0725D	0702	N22	E51	.809	10789	17.1	50D	-B		P							EH
CAPS	13	0658	0713		N17	E52	.806	10789	17.2	15	-B		V	0705	.50	.90		340		H
HTPR	13	0658	0725	0702	N18	E50	.788	10789	17.0	27	1B		C	0702	2.06	3.60				
CRON	13	0658	0720	0703	N19	E54	.828	10789	17.3	22	-B			0703	.41					
CRON	13	0658	0720	0659	N19	E54	.828	10789	17.3	22	-N	3	V	0659	.72					
CAPE	13	0659	0715	0703	N16	E55	.832	10789	17.4	16	-N		C	0703	1.10	2.00				T
ONDR	13	0659E	0714	0705	N17	E49	.776	10789	17.0	15D	1B		V	0705			6.60			CFHI
ABST	13	0700	0720	0706	N16	E56	.841	10789	17.5	20	1B		C	0706	1.07	2.10		85		DH
ISTA	13	0700	0720		N16	E54	.823	10789	17.3	20	-B									
KODA	13	0704	0721	0704	N16	E52	.803	10789	17.2	17	1N		V	0704	3.21	3.20	3.04			CDHK
ZURI	13	0707E	0713	0707	N18	E52	.808	10789	17.2	6D	-N		P	0707	.53	.90				
GRP30650	13	0757	0808	0801	N19	E53	.819	10789	17.3	11	-N				.90					5 5 3 12
TEHR	13	0755	0808D	0800	N22	E51	.809	10789	17.2	13D	-N									
HTPR	13	0756	0815	0759	N18	E55	.835	10789	17.5	19	-F		C	0759	.83	1.50				
MONT	13	0756	0811	0759	N19	E56	.846	10789	17.5	15	-N		C	0759	1.55					
CRON	13	0757	0800		N19	E54	.828	10789	17.4	3	-F	3	V		.31					
ONDR	13	0759	0808	0804	N17	E48	.765	10789	16.9	9	1N		V	0804			2.30			CDFI
GRP30651	13	0821	0833	0823	N18	E53	.817	10789	17.3	12	-N				1.06					10 10 8 10
CRON	13	0819	0850	0821	N19	E54	.828	10789	17.4	31	-N	3	V	0821	.52					
KODA	13	0820	0829	0823	N16	E52	.803	10789	17.2	9	1N		V	0821	3.21	3.20	2.32			CDK
HTPR	13	0820	0835	0822	N18	E55	.835	10789	17.5	15	-N		C	0822	1.03	1.90				
TEHR	13	0820	0830D	0824	N22	E51	.809	10789	17.2	10D	1B									
MONT	13	0821	0829	0822	N19	E56	.846	10789	17.5	8	-N		C	0822	.41					
CAPE	13	0821	0832	0823	N16	E55	.832	10789	17.5	11	-N		C	0823	.92	1.60				
ZURI	13	0821	0827	0823	N18	E49	.778	10789	17.0	6	-N		C	0823	1.09	1.80				
CAPS	13	0823E	0832		N18	E52	.808	10789	17.2	9D	-B		V	0825	.40	.70		237		CH
ONDR	13	0823E	0831	0825	N17	E48	.765	10789	16.9	8D	1B		V	0825			4.40			CDFI
ABST	13	0823	0835	0825	N17	E55	.834	10789	17.5	12	-N		C	0825	.90	1.70				DK
GRP30654	13	0918	0939	0924	N18	E53	.817	10789	17.4	21	1B				1.19					9 9 7 9
MONT	13	0820	0938D	0923	N19	E55	.837	10789	17.5	78D	-N		C	0923	.77					
CRON	13	0904	0905		N20	E53	.822	10789	17.4	1	-F		V		.21					
HTPR	13	0920	0945	0923	N18	E55	.835	10789	17.5	25	-B		C	0923	1.03	1.70				
ONDR	13	0920E	0940		N16	E51	.794	10789	17.2	20D	2B		V	0923			7.90			CFHI
TEHR	13	0920	0930D	0925	N22	E51	.809	10789	17.2	10D	-B		P							E
CAPE	13	0921	0933	0923	N16	E54	.823	10789	17.4	12	-B		C	0923	.92	1.60				
ABST	13	0923E	0938	0923U	N16	E54	.823	10789	17.4	15D	1B		P	0923	1.35	2.30			98	DK
CAPS	13	0924E	0939		N18	E51	.798	10789	17.2	15D	-B		V	0924	.70	1.20		300		H
KODA	13	0924	0942	0929	N16	E51	.794	10789	17.2	18	1N		P	0924	3.14	3.10	2.84			CDK
CRON	13	0925	0934		N19	E53	.819	10789	17.4	9	-B	2	V		.41					

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	
1970 JUN																	
GRP30655	13	1014	1028	1016	N18	E50	.788	10789	17.2	14	-N						3 3 2 9
HTPR	13	0958	1030	1014	N19	E51	.801	10789	17.2	32	-F	C	1014	1.24	2.00		
RAMY	13	1010	1027	1014	N19	E51	.801	10789	17.2	17	-N	C		.52			DE
ONDR	13	1018	1026	1021	N17	E47	.755	10789	17.0	8	1N	V	1021			2.50	DFCI
GRP30657	13	1051	1113	1103	N20	E50	.794	10789	17.2	22	-B			1.10			5 4 3 8
CATA	13	1046E	1105D	1050	N22	E50	.799	10789	17.2	19D	18		1050	1.27	2.22		234
CANR	13	1049	1111	1050	N19	E48	.771	10789	17.1	22	-N	2 V			.60		
CAPS	13	1055	1114D		N19	E50	.791	10789	17.2	19D	-B	3 S	1059	.80	1.20		215
HTPR	13	1055	1115	1103	N19	E50	.791	10789	17.2	20	-N	C	1103	1.24	2.00		
ONDR	13	1106E	1112		N17	E47	.755	10789	17.0	6D	-F	V	1108			1.90	CDFI
GRP30661	13	1125	1148	1137	N19	E53	.819	10789	17.5	23	--F			.72			3 2 2 11
HTPR	13	1125	1155		N19	E54	.828	10789	17.5	30	-F	C	1135	1.13	1.90		
RAMY	13	1136E	1141	1137U	N18	E51	.798	10789	17.3	5D	-N	C		.31			DE
HUAN	13	1154E	1200	1155U	N19	E52	.810	10789	17.4	6D	-F	2 C	1155	.31	.50		E
GRP30664	13	1228	1237	1232	N18	E50	.788	10789	17.3	9	1B			1.33			7 7 4 14
HUAN	13	1226	1238	1232	N18	E51	.798	10789	17.3	12	-B	2 C	1232	.75	1.20		E
BOUL	13	1226	1238	1231	N19	E51	.801	10789	17.3	12	1B	V	1231		2.80		
CANR	13	1227	1236	1232	N18	E50	.788	10789	17.3	9	-B	3 V			1.00		
HTPR	13	1228	1240	1232	N18	E52	.808	10789	17.4	12	1B	C	1232	1.55	2.40		
RAMY	13	1229E	1235	1231	N18	E50	.788	10789	17.3	6D	-B	C		1.50			FH
CAPE	13	1230	1238	1232	N17	E51	.796	10789	17.3	8	1B	C	1232	1.53	2.60		H
ONDR	13	1231E	1236		N17	E48	.765	10789	17.1	5D	1B	V	1232			13.20	CDFHI
GRP30665	13	1251	1304	1255	N18	E50	.788	10789	17.3	13	--N			.34			7 7 4 13
HUAN	13	1245	1302	1255	N18	E51	.798	10789	17.4	17	-F	2 C	1255	.25	.40		D
RAMY	13	1253	1304	1255	N18	E51	.798	10789	17.4	11	-N	C		.36			DE
BOUL	13	1253	1300	1255	N19	E51	.801	10789	17.4	7	-N	V					
CANR	13	1253	1255D	1255	N18	E49	.778	10789	17.2	2D	-N	3 V			.60		
CAPS	13	1255E	1305		N18	E52	.808	10789	17.4	10D	-F	3 V	1256	.50	.90		145
MCMA	13	1255E	1258D		N18	E52	.808	10789	17.4	3D	-N	P	1257	.26	.40		EL
ONDR	13	1258E	1307		N14	E47	.747	10789	17.1	9D	1F	V	1259			2.20	CEFI
GRP30666	13	1252	1309	1257	N16	E04	.271	10781	13.8	17	-N			1.05			10 9 7 13
CAPE	13	1245	1307	1258	N17	E03	.284	10781	13.8	22	-F	C	1258	1.29	1.30		
HUAN	13	1250	1308	1255	N16	E04	.271	10781	13.8	18	-B	2 C	1255	.45	.50		E
BOUL	13	1250	1307	1300	N16	E03	.268	10781	13.8	17	1F	V	1300		2.50		
CANR	13	1250	1250D		N16	E01	.263	10781	13.6		-N	3 V			.30		
MCMA	13	1251E	1309	1257	N16	E03	.268	10781	13.8	18D	-F	C		.57			DE
MCMA	13	1255E	1258D		N18	E04	.304	10781	13.8	3D	-N	P	1257	.41	.40		E
CATA	13	1255E	1310	1255	N16	E03	.268	10781	13.8	15D	-B		1255	1.51	1.57		309
HTPR	13	1258	1315	1259	N15	E05	.260	10781	13.9	17	-F	C	1259	1.65	1.60		
ONDR	13	1259E	1306D		N16	E03	.268	10781	13.8	7D	1F	V	1302			2.10	C
CAPS	13	1259E	1305D		N15	E12	.318	10781	14.4	6D	-F	3 V	1300	1.50	1.50		135
GRP30667	13	1303	1315	1303	N20	E60	.880	10789	18.0	12	--N			.34			4 4 3 13
RAMY	13	1301	1315	1301	N22	E59	.876	10789	18.0	14	-F	C		.36			DE
HUAN	13	1302	1310	1303	N20	E60	.880	10789	18.0	8	-F	2 C	1303	.21	.40		D
BOUL	13	1302	1308	1304	N20	E60	.880	10789	18.0	6	-N	V					
CATA	13	1305	1325	1305	N19	E60	.879	10789	18.0	20	-B		1305	.46	.96		246
12 STATIONS REPORTING GROUP 30668. 3 STATIONS OBSERVING AND NOT REPORTING.																	
GRP30668	13	1332	1406	1340	N16	E44	.719	10789	16.9	34	1B			3.66			12 12 9 15
RAMY	13	1327	1418	1339	N16	E42	.696	10789	16.7	51	1B	C		2.37			
RAMY	13	1327	1418	1334	N16	E42	.696	10789	16.7	51	1N	C		2.27			FH
HUAN	13	1330	1350	1340	N16	E45	.730	10789	16.9	20	-B	2 C	1340	.75	1.10		E
BOUL	13	1330	1415	1341	N16	E45	.730	10789	16.9	45	2N	V	1341		5.50		
CANR	13	1330	1419	1344	N17	E44	.722	10789	16.9	49	1N	2 V			3.80		
MCMA	13	1331	1440D	1336	N15	E43	.704	10789	16.8	69D	1N	C	1336	1.55	2.20		FKW
CAPE	13	1332	1355	1340	N15	E44	.716	10789	16.9	23	1B	C	1340	2.62	3.80		
KIEV	13	1332	1355	1338	N16	E42	.696	10789	16.7	23	2N	C	1338	8.77			80
MONT	13	1333E	1340D	1339	N16	E45	.730	10789	16.9	7D	2B	C	1339	6.19			EI
HTPR	13	1334	1356D	1339	N16	E47	.752	10789	17.1	22D	1B	C	1339	4.64	6.70		
CAPS	13	1334E	1357		N18	E50	.788	10789	17.3	23D	1N	3 V	1339	2.00	3.20		180
CATA	13	1335	1420	1340	N14	E43	.701	10789	16.8	45	2B		1340	4.05	5.74		399
ONDR	13	1337E	1416D	1341	N15	E43	.704	10789	16.8	39D	2N	V	1341			5.70	Z FI
30668	13	1329	1429	1357	N16	E43	.708	10789	16.8	60	*1N			2.42			2 2 2 14
RAMY	13	1327	1418	1357	N16	E42	.696	10789	16.7	51	1N	C		1.75			
MCMA	13	1331	1440D		N15	E43	.704	10789	16.8	69D	1N	C	1355	3.09	4.30		FKW

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMPATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %	
					LAT.	MER. DIST.													
GRP30670	13	1419	1433	1421	N17	E50	.786	10789	17.3	14	-B								
CANR	13	1416	1432	1421	N17	E52	.806	10789	17.5	16	-B	2	V	.61	1.10				8 8 5 10
RAMY	13	1417	1431	1420	N18	E50	.788	10789	17.3	14	-B		C	.62					DE
CAPE	13	1418	1430	1421	N17	E51	.796	10789	17.4	12	-F		C	1.01	1.10				
CAPS	13	1419E	1430		N18	E52	.808	10789	17.5	110	-B	3	V	.50	.90			260	
HUAN	13	1419	1427	1422	N18	E50	.788	10789	17.3	8	-B	2	C	.31	.50				D
BOUL	13	1419	1445D	1423	N19	E50	.791	10789	17.3	26D	-B		V						
CATA	13	1420	1435	1420	N16	E51	.794	10789	17.4	15	-B		V	1420	.63	1.06			324
ONDR	13	1420E	1433		N16	E47	.752	10789	17.1	13D	1B		V	1421					FI
ONDR	13	1436	1447D		N16	E47	.752	10789	17.1	11D	1B		V	1437			5.80		CDFI
																	3.50		
GRP30671	13	1502	1515	1504	N17	E03	.284	10781	13.9	13	--N			.42					7 7 5 10
RAMY	13	1500	1511	1503	N17	E03	.284	10781	13.9	11	-N		C	.26					DE
SANM	13	1501	1515	1502	N17	E03	.284	10781	13.9	14	-N	1	C	.97	1.01				E
MCMA	13	1502	1517	1503	N17	E03	.288	10781	13.9	15	-N		C	1503	.31	.30			D
HUAN	13	1502	1515	1503	N17	E03	.284	10781	13.9	13	-B	2	C	1503	.17	.20			D
BOUL	13	1502E	1515D	1505	N17	E03	.284	10781	13.9	13D	-N		V						
CATA	13	1505	1520	1505	N16	E05	.276	10781	14.0	15	-B		V	1505	.40	.42			257
ONDR	13	1506E	1514		N15	E02	.248	10781	13.8	8D	1N		V	1508					CD
																	2.30		
GRP30673	13	1535	1605	1541	N19	E46	.750	10789	17.1	30	-B			.94					8 8 5 9
RAMY	13	1534	1600	1540	N19	E45	.740	10789	17.0	26	-B		C	.77					F
CANR	13	1534	1600		N18	E45	.736	10789	17.0	26	-B	2	V		1.00				
BOUL	13	1535	1615D	1546	N21	E47	.767	10789	17.2	40D	-N		V						
MCMA	13	1535	1615	1541	N19	E47	.761	10789	17.2	40	-N		C	1541	.62	1.00			EK
CATA	13	1535	1545D	1540	N20	E46	.754	10789	17.1	10D	-B		V	1540	.93	1.44			237
HUAN	13	1536	1600	1541	N20	E44	.733	10789	16.9	24	-N	2	C	1541	.62	.90			E
ONDR	13	1537E	1603		N18	E43	.715	10789	16.9	26D	2N		V	1539					CIF
SANM	13	1537	1601	1540	N20	E47	.764	10789	17.2	24	1B	1	C		1.77	2.70			E
SANM	13	1541	1546	1544	N18	E49	.778	10789	17.3	5	-F	1	C		.48	.79			D
GRP30674	13	1601	1619	1605	N17	E47	.755	10789	17.2	18	-N			.40					3 3 2 10
RAMY	13	1558	1617	1604	N18	E48	.768	10789	17.3	19	-N		C	.31					DE
SANM	13	1601	1622	1607	N18	E47	.758	10789	17.2	21	-N	1	C	.48	.75				E
ONDR	13	1604	1618D	1605	N15	E46	.738	10789	17.1	14D	1N		V	1605					CDFI
																	3.20		
GRP30676	13	1654	1703	1657	N18	E49	.778	10789	17.4	9	--N			.33					5 5 3 7
HUAN	13	1653	1701	1656	N19	E49	.781	10789	17.4	8	-N	2	C	1656	.21	.30			E
CANR	13	1653	1703		N17	E50	.786	10789	17.5	10	-F	2	V		.60				
SANM	13	1654	1701	1656	N20	E50	.794	10789	17.5	7	-B	1	C		.48	.79			E
RAMY	13	1655E	1705	1657	N18	E48	.768	10789	17.3	10D	-N		C		.31				DE
ONDR	13	1657	1703D	1658	N17	E48	.765	10789	17.3	6D	1N		V	1658					CDFI
																	3.20		
GRP30678	13	1748	1808	1753	S11	W90	1.000	10783	7.0	20	-N								3 3 0 6
BOUL	13	1746	1808	1754	S13	W90	1.000	10783	7.0	22	-B		V						
RAMY	13	1748	1757D		S11	W89	1.000	10783	7.1	9D	-F		C						DE
MCMA	13	1750	1757D	1752	S08	W90	1.000	10783	7.0	7D	-N		C	1752					
GRP30679	13	1748	1813	1755	N18	E48	.768	10789	17.3	25	-B			1.12					6 6 4 6
BOUL	13	1745	1814	1754	N18	E45	.736	10789	17.1	29	-B		V						
HUAN	13	1748	1807	1754	N18	E48	.768	10789	17.3	19	-B	2	C	1754	.50	.80			E
RAMY	13	1749	1757D	1753	N18	E46	.747	10789	17.2	8D	-B		C		1.60				UF
MCMA	13	1749	1803D	1755	N18	E50	.788	10789	17.5	14D	-N		C	1755	.62	1.00			E
SANM	13	1749	1807	1757	N18	E48	.768	10789	17.3	18	1B	1	C		1.77	2.76			E
CANR	13	1750	1825		N18	E49	.778	10789	17.4	35	-B	2	V		1.40				
GRP30681	13	1850	1910	1857	N18	E48	.768	10789	17.4	20	--B			.35					4 4 2 5
SANM	13	1846	1908	1852	N18	E48	.768	10789	17.4	22	-B	1	C		.48	.79			E
BOUL	13	1850	1912	1858	N18	E47	.758	10789	17.3	22	-N		V	1858		.50			
CANR	13	1855	1855D		N18	E48	.768	10789	17.4		-B	2	V		.60				
RAMY	13	1902E	1903D	1902E	N17	E47	.755	10789	17.3	1D	-B		C		.21				DE
GRP30683	13	1934	2000	1941	N17	E46	.744	10789	17.3	26	-N			1.55					2 2 1 3
RAMY	13	1934	2006	1940	N16	E45	.730	10789	17.2	32	-N		C		1.55				F
BOUL	13	1934	1953	1941	N18	E46	.747	10789	17.3	19	-N		V						
GRP30684	13	1941	2011	2009	N16	W01	.263	10781	13.7	30	--F			.77					2 1 1 3
RAMY	13	1941	2011D	2009	N16	W01	.263	10781	13.7	30D	-F		C		.77				E
BOUL	13	1944	2005	1946	N17	E02	.282	10781	14.0	21	-N		V	1946		2.00			
GRP30685	13	2058	2116	2105	N18	E45	.736	10789	17.2	18	-F			.62					2 2 1 4
RAMY	13	2054	2111D	2104	N18	E44	.726	10789	17.2	17D	-F		C		.62				DE
BOUL	13	2102	2116	2105	N18	E46	.747	10789	17.3	14	1N		V	2105		4.00			
GRP30686	13	2120	2140	2125	S13	W90	1.000	10783	7.1	20	-B								2 2 0 5
BOUL	13	2120	2140D	2125	S15	W90	1.000	10783	7.1	20D	1B		S	2125		3.00			
RAMY	13	2120	2127D		S11	W90	1.000	10783	7.1	7D	-N		C						DE

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OBSERVATORY	OBSERVED UT			MAX. PHASE	LOCATION					DURATION	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END		APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
1970 JUN																	
GRP30713	14	1221	1247	1226	N19	E38	.661	10789	17.4	26	-N						4 4 4 9
MCMA	14	1221	1255	1227	N19	E37	.650	10789	17.3	34	-N	C	1227	.86	1.20		EL
CAPE	14	1221	1235	1226	N19	E39	.673	10789	17.4	14	-F	C	1226	.93	1.50		
RAMY	14	1221	1259	1227	N19	E37	.650	10789	17.3	38	-N	C		1.16			F
HUAN	14	1222	1240	1225	N18	E38	.657	10789	17.4	18	-N	2 C	1225	1.13	.30		E
30713	14	1222	1324	1305	N18	E37	.645	10789	17.3	62	*1N			3.18			3 3 2 8
WEND	14	1217	1320		N17	E38	.652	10789	17.4	63	2N	V		6.19			
ONDR	14	1227E	1332D		N18	E38	.657	10789	17.4	65D	2N	V	1303			3.50	FIKT
HUAN	14	1300	1320	1305	N18	E36	.633	10789	17.2	20	-F	2 C	1305	.17	.20		E
GRP30714	14	1322	1410	1326	N21	E42	.715	10789	17.7	48	2B			6.01			7 7 6 9
HUAN	14	1320	1350	1327	N20	E42	.711	10789	17.7	30	1B	2 C	1327	1.75	2.40		E
RAMY	14	1320	1418	1328	N20	E41	.700	10789	17.6	58	2N	C		9.95			FH
CAPE	14	1321	1405	1327	N19	E44	.728	10789	17.9	44	2B	C	1327	3.60	5.30		H
MCMA	14	1321	1415D	1326	N21	E43	.726	10789	17.8	54D	2B	C	1326	6.19	8.50		FLV
ABST	14	1321	1406	1324	N24	E42	.728	10789	17.7	45	3B	C	1324	8.97	12.90		EJ
CATA	14	1324	1430	1324	N18	E42	.703	10789	17.7	66	2B		1324	5.57	8.01	95	H
ONDR	14	1324E	1407		N22	E42	.719	10789	17.7	43D	3B	V	1325			525	FIKT
30714	14	1325	1414	1344	N19	E40	.684	10789	17.6	49	*2N			5.67			6 6 5 11
WEND	14	1320	1350D		N19	E41	.696	10789	17.6	30D	3N	P		13.41			
ABST	14	1326	1420	1342	N19	E36	.638	10789	17.3	54	1N	C	1342	2.69	3.40		68
HUAN	14	1327	1402	1343	N18	E36	.633	10789	17.3	35	-N	2 C	1343	.37	.50		EJCLKH
CAPS	14	1327E	1401D		N18	E48	.767	10789	18.2	34D	2N	1 P	1339	6.00	9.60		E
HTRP	14	1342E	1410		N19	E44	.728	10789	17.9	28D	2F	C	1343	5.88	7.70		
BOUL	14	1348E	1424	1348	N20	E37	.655	10789	17.4	36D	2B	S					228
12 STATIONS REPORTING GROUP 30715. 0 STATIONS OBSERVING AND NOT REPORTING.																	
GRP30715	14	1419	1525	1433	N18	E35	.621	10789	17.2	66	1B			3.17			9 9 7 10
CAPE	14	1415	1447D	1437	N18	E35	.621	10789	17.2	32D	1B	P	1437	2.71	4.10		
CATA	14	1415	1545	1435	N18	E35	.621	10789	17.2	90	1B		1435	3.19	3.99		257
MCMA	14	1416E	1545	1431	N19	E36	.638	10789	17.3	89D	1B	C	1431	2.32	3.00		EL
ONDR	14	1416E	1526	1439	N18	E35	.621	10789	17.2	70D	2N	V	1439			3.90	FI
SANM	14	1417E	1437D		N18	E34	.609	10789	17.1	20D	2B	1 P	1427	5.50	6.97		E
HTRP	14	1420	1525D	1432	N18	E39	.668	10789	17.5	65D	2N	C	1432	4.95	6.00		
RAMY	14	1421	1525	1435	N18	E35	.621	10789	17.2	64	1B	C		3.04			F
HUAN	14	1424	1510D	1427	N17	E34	.604	10789	17.1	46D	-B	2 P	1427	.50	.60		E
BOUL	14	1424	1458	1431	N19	E35	.626	10789	17.2	34	1B	V					
SANM	14	1427	1437D		N18	E29	.548	10789	16.8	10D	-N	1 P	1436	.65	.78		D
30715	14	1356	1536	1400	N19	E38	.661	10789	17.4	100	*2B			4.84			3 2 2 11
HUAN	14	1356	1430	1400	N24	E41	.718	10789	17.7	34	-F	2 P	1400	.37	.50		E
CAPS	14	1405E	1538		N16	E38	.648	10789	17.4	93D	2B	3 P	1451	4.50	7.20		246
HUAN	14	1408	1422	1415	N18	E34	.609	10789	17.1	14	-F	2 C	1415	.21	.30		E
SANM	14	1417E	1436		N26	E41	.729	10789	17.7	19D	-F	1 P	1417	.48	.70		D
SANM	14	1444E	1534		N18	E34	.609	10789	17.2	50D	2B	1 P	1448	5.18	6.57		FK
GRP30717	14	1543	1557	1550	N19	E37	.650	10789	17.4	14	--N			.54			5 5 3 9
SANM	14	1535	1556	1550	N18	E38	.657	10789	17.5	21	-B	1 C		.80	1.08		E
RAMY	14	1547	1600	1549	N19	E37	.650	10789	17.4	13	-N	C		.41			DE
MCMA	14	1548	1555	1550	N19	E38	.661	10789	17.5	7	-N	C	1550	.41	.60		D
ONDR	14	1549E	1555		N18	E36	.633	10789	17.4	6D	-B	V	1550			2.60	DFI
BOUL	14	1551E	1558D	1551	N19	E34	.615	10789	17.2	7D	-F	S					
GRP30718	14	1600	1649	1608	N16	W13	.339	10781	13.7	49	-N			1.04			3 3 2 7
LOCK	14	1600	1650	1610	N15	W13	.327	10781	13.7	50	-F						
SANM	14	1600	1648	1608	N17	W13	.352	10781	13.7	48	-N	1 C		1.45	1.55		E
RAMY	14	1601	1608D	1606	N17	W13	.352	10781	13.7	7D	-N	C		.62			DE
6 STATIONS REPORTING GROUP 30720. 0 STATIONS OBSERVING AND NOT REPORTING.																	
GRP30720	14	1658	1846	1706	N19	E35	.626	10789	17.3	108	1B			3.09			6 6 3 6
LOCK	14	1655	1840	1710	N18	E35	.621	10789	17.3	105	1B						K
MCMA	14	1659	1850	1705	N18	E34	.609	10789	17.3	111	1B						F
ONDR	14	1659	1745D	1704	N19	E36	.638	10789	17.4	46D	2B	V	1704	2.58	3.10		FIK
SANM	14	1659	1845	1707	N18	E33	.597	10789	17.2	106	2B	1 C		5.18	6.48		UK
HUAN	14	1659	1850	1707	N19	E35	.626	10789	17.3	111	1B	2 C	1707	1.50	1.90		E
BOUL	14	1659	1737	1703	N19	E35	.626	10789	17.3	38	-B	V					
30720	14	1737	1826	1743	N19	E35	.626	10789	17.4	49	*-B						2 2 0 5
LOCK	14	1655	1840	1745	N18	E35	.621	10789	17.3	105	1N						
BOUL	14	1737	1812	1741	N19	E35	.626	10789	17.4	35	-B	V					

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg		MAX. INT. %
GRP30737	15	0305	0328	0307	N20	E38	.666	10789	18.0	23	--F						2 1 1 4	
CRON	15	0305	0328	0307	N20	E38	.666	10789	18.0	23	-F	3	V	0307	.41			
ABST	15	0313E	0345D	0313	N19	E30	.566	10789	17.4	32D	1N		P	0313	2.06	2.50		EK
GRP30739	15	0550	0630	(0558)	N19	E28	.542	10789	17.3	40	1B							3 2 0 8
ISTA	15	0550E	0630		N19	E28	.542	10789	17.3	40D	1B							
ONDR	15	0556E	0615		N19	E31	.578	10789	17.6	19D	1N		V	0558			2.30	CEFI
TEHR	15	0633E	0645D		N19	E25	.506	10789	17.1	12D	-N							Z
30739	15	0610	0640	0621	N19	E34	.614	10789	17.8	30	*-N				1.15			6 6 5 8
CATA	15	0555	0700	0625	N19	E35	.626	10789	17.9	65	-B			0625	.98	1.25		276
CRON	15	0557	0630		N20	E34	.620	10789	17.8	33	-F	3	V		1.03			
CAPS	15	0614E	0656		N19	E35	.626	10789	17.9	42D	1B	1	S	0626	1.80	2.50		196
HTPR	15	0614E	0635	0621	N19	E35	.626	10789	17.9	21D	-F		C	0621	1.34	1.70		
ONDR	15	0616	0625	0619	N19	E31	.578	10789	17.6	9	-B		V	0619			2.40	CDFI
MANI	15	0617E	0632	0620	N18	E31	.572	10789	17.6	15D	-N	2		0620	.62	.77		
GRP30744	15	0738	0751	0743	N18	E28	.535	10789	17.4	13	-N				.81			8 8 5 13
TEHR	15	0736	0752D	0738	N18	E27	.522	10789	17.3	16D	1B							
ZURI	15	0737	0750	0741	N18	E25	.498	10789	17.2	13	-N		C	0741	.84	1.00		
CRON	15	0737	0750		N20	E30	.573	10789	17.6	13	-N	3	V		.72			
MEUD	15	0738	0750	0742	N19	E28	.542	10789	17.4	12	-N		C	0742	.83	1.00		
HURB	15	0738E	0753	0746	N17	E28	.528	10789	17.4	15D	1N						2.08	
HTPR	15	0740	0750	0745	N17	E30	.553	10789	17.6	10	-F		C	0745	.52	.70		
TEHR	15	0740	0755D		N19	E25	.506	10789	17.2	15D	-N							Z
ONDR	15	0742E	0752		N18	E27	.522	10789	17.3	10D	-N		V	0745			2.10	CDFI
MONT	15	0748E	0751	0748	N19	E29	.554	10789	17.5	3D	-N		C	0748	1.13			
GRP30745	15	0752	0817	0756	N17	W18	.405	10781	14.0	25	1B				2.83			15 15 10 15
ISTA	15	0745	0805		N17	W19	.416	10781	13.9	20	-B							
CANR	15	0749	0805	0755	N17	W18	.405	10781	14.0	16	-B	3	V			2.00		
TEHR	15	0749	0820D	0755	N17	W18	.405	10781	14.0	31D	2B							Z
BUCA	15	0750	0815D	0800	N16	W17	.383	10781	14.1	25D	1B		C	0800	4.98	4.90		E
HTPR	15	0752	0815	0755	N16	W18	.395	10781	14.0	23	1N		C	0755	3.61	3.80		
MEUD	15	0752	0825	0754	N18	W17	.404	10781	14.1	33	1B		C	0754	4.13	4.40		
TEHR	15	0752	0822D	0759	N17	W15	.371	10781	14.2	30D	1B		P					EZ
MONT	15	0753	0832	0754	N16	W19	.407	10781	13.9	39	1B		C	0754	3.40			
CRON	15	0753	0816	0754	N17	W19	.416	10781	13.9	23	-N	3	V		1.55			
CAPE	15	0753	0815	0755	N16	W19	.407	10781	13.9	22	1N		C	0755	1.93	2.10		
CAPS	15	0753	0825		N16	W16	.371	10781	14.1	32	1B	3	P	0756	3.00	3.10		220
ZURI	15	0754	0813	0755	N16	W21	.432	10781	13.8	19	-B		C	0755	1.80	2.00		
HURB	15	0754E	0809	0756	N16	W20	.419	10781	13.8	15D	1N						2.10	
MANI	15	0757E	0801D		N17	W17	.393	10781	14.1	4D	-N	2		0758	1.55	1.70		
CATA	15	0800E	0820D	0800	N16	W18	.395	10781	14.0	20D	1B			0800	2.32	2.56		331
ONDR	15	0800E	0816		N18	W17	.404	10781	14.1	16D	1N		V	0802			2.20	CFHI
GRP30746	15	0826	0841	0828	N20	E34	.620	10789	17.9	15	--N				.41			3 3 1 15
TEHR	15	0805	0830D		N19	E28	.542	10789	17.4	25D	-F							Z
MANI	15	0825	0831D	0827	N19	E38	.661	10789	18.2	6D	-B	2		0827	.41	.53		
ONDR	15	0827	0832	0829	N21	E33	.614	10789	17.8	5	-B		V	0829			2.40	CHFI
TEHR	15	0832	0850D		N19	E33	.602	10789	17.8	18D	-F							
GRP30747	15	0853	0900	0856	N17	W19	.416	10781	13.9	7	--N				.26			3 3 1 16
ONDR	15	0852	0900		N17	W23	.465	10781	13.6	8	-F		V	0855			1.70	CD
MANI	15	0853	0856E	0854	N17	W16	.382	10781	14.2	3D	-N	2		0854	.26	.28		
TEHR	15	0855E	0858D	0858	N18	W19	.426	10781	13.9	3D	-B							
GRP30748	15	0920	0931	0921	N17	E24	.478	10789	17.2	11	-N				1.48			9 9 6 12
MEUD	15	0919	0932	0920	N18	E24	.486	10789	17.2	13	-N		C	0920	1.75	1.80		
CANR	15	0919	0929	0921	N18	E25	.498	10789	17.3	10	-N	2	V			.80		
ZURI	15	0920	0924	0921	N17	E22	.453	10789	17.0	4	-N		C	0921	1.05	1.20		
CAPS	15	0920	0932		N17	E25	.490	10789	17.3	12	-N	3	V	0923	.90	1.20		190
CAPE	15	0920	0927	0922	N16	E25	.483	10789	17.3	7	-F		C	0922	1.38	1.60		
HURB	15	0920E	0929	0923	N16	E23	.457	10789	17.1	9D	1F						1.77	
MONT	15	0920	0933D	0922	N19	E24	.494	10789	17.2	13D	-N		C	0922	1.55			
ONDR	15	0920	0934		N18	E22	.462	10789	17.0	14	1B		V	0921			2.90	CFI
HTPR	15	0920	0935	0921	N18	E27	.522	10789	17.4	15	1F		C	0921	2.27	2.40		

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS			
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MGMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha	MAX. INT. %	
GRP30750	15	1103	1125	1108	N17	E18	.405	10789	16.8	22	-N								
CANR	15	1100	1128	1105	N18	E20	.438	10789	17.0	28	-B	3	V		1.63			11 11 8 11	
CAPE	15	1102	1125	1109	N16	E19	.407	10789	16.9	23	-N		C	1109	1.75	1.90			
HURB	15	1102E	1122D	1106	N17	E17	.393	10789	16.7	20D	1B						2.92		
ZURI	15	1103	1120	1109	N16	E17	.383	10789	16.7	17	-N		C	1109	1.38	1.50			
RAMY	15	1104E	1132	1108	N17	E17	.393	10789	16.7	28D	-N		C		1.13			F	
CAPS	15	1105	1128D		N15	E18	.385	10789	16.8	23D	-B		P	1107	1.70	1.90		330	
AROS	15	1105	1115D	1110	N17	E17	.393	10789	16.7	10D	1N		P	1105	2.06	2.10			
ONDR	15	1105E	1118		N17	E16	.382	10789	16.7	13D	1N		V	1107				2.50	
HTPR	15	1105	1125	1109	N15	E19	.397	10789	16.9	20	1N		C	1109	2.17	2.30			
HERS	15	1109E	1125	1109E	N18	E19	.426	10789	16.9	16D	-N		P	1109	1.60	1.70		.19	
CATA	15	1110E	1130	1110	N17	E18	.405	10789	16.8	20D	-B			1110	1.22	1.33		363	
GRP30752	15	1149	1217	1202	N19	E22	.471	10789	17.1	28	-N				1.54				
RAMY	15	1149	1245D	1201	N23	E17	.462	10789	16.8	56D	-F		C		.62			4 4 4 10	
CAPE	15	1149	1205	1201	N18	E27	.522	10789	17.5	16	-N			1201	1.21	1.40		DE	
CAPE	15	1149	1205	1151	N18	E27	.522	10789	17.5	16	-F		C	1151	.92	1.10		K	
ZURI	15	1150	1204	1202	N18	E22	.462	10789	17.1	14	1N		C	1202	3.57	4.10			
HUAN	15	1159	1205	1202	N19	E26	.518	10789	17.4	6	-B	2	C	1202	.62	.70		D	
HUAN	15	1159E	1212	1200	N16	E18	.395	10789	16.8	13D	-F	2	C	1200	.12	.12		D	
GRP30753	15	1206	1253	1228	N18	E24	.486	10789	17.3	47	-N				1.12				
CANR	15	1159	1350		N19	E25	.506	10789	17.4	111	-N	3	V		1.70			6 5 4 13	
HUAN	15	1203	1240	1218	N19	E24	.494	10789	17.3	37	-N	2	C	1218	.21	.20		E	
CAPS	15	1210E	1304D		N18	E23	.474	10789	17.2	54D	-B		V	1225	1.30	1.40		237	
ZURI	15	1210	1256	1221	N18	E23	.474	10789	17.2	46	-N		C	1221	1.54	1.70		UZ	
HERS	15	1227E	1250	1227E	N18	E25	.498	10789	17.4	23D	-N		P	1228	1.44	1.70		.16	
HURB	15	1244E	1253	1245	N16	E20	.419	10789	17.0	9D	1N							57	
																		2.15	
10 STATIONS REPORTING GROUP 30754.										4 STATIONS OBSERVING AND NOT REPORTING.									
GRP30754	15	1307	1332	1313	N18	E22	.462	10789	17.2	25	1N				2.16				
MEUD	15	1250	1330	1311	N18	E24	.486	10789	17.3	40	1F		C	1311	3.61	3.80		8 8 7 14	
HUAN	15	1304	1337	1313	N19	E21	.459	10789	17.1	33	-N	2	C	1313	.62	.70		E	
ZURI	15	1304	1335	1317	N18	E23	.474	10789	17.3	31	1N		C	1317	2.31	2.60			
CAPS	15	1308E	1332		N18	E24	.486	10789	17.3	24D	1N		P	1314	2.10	2.30		182	
CATA	15	1310	1350	1315	N18	E21	.450	10789	17.1	40	2B			1315	3.76	4.23		331	
HURB	15	1310E	1327D	1311	N16	E17	.383	10789	16.8	17D	1N							2.01	
RAMY	15	1313E	1325D	1313E	N18	E20	.438	10789	17.1	12D	-F		C		1.24			U	
HERS	15	1314E	1320	1314E	N18	E25	.498	10789	17.4	6D	-N		P	1314	1.49	1.80		.16	
																		61	
30754	15	1317	1342	1319	N15	E11	.304	10781	16.4	25	*-B				1.51				
HUAN	15	1310	1400U	1316	N16	E14	.348	10781	16.6	50D	-F	2	C	1316	.21	.20		6 6 3 14	
BOUL	15	1316	1336	1318	N16	E11	.317	10781	16.4	20	-B		V					E	
CANR	15	1316	1410	1320	N15	E10	.295	10781	16.3	54	1B	3	V			2.60			
HERS	15	1317	1344D	1322	N14	E10	.281	10781	16.3	27D	1B		P	1318	2.37	2.50		.34	
MEUD	15	1317	1335	1318	N15	E11	.304	10781	16.4	18	-B		C	1318	1.86	1.90		100	
CAPS	15	1318	1335		N16	E14	.348	10781	16.6	17	-B		P					ZL	
HUAN	15	1318	1331	1319	N16	E10	.308	10781	16.3	13	-N	2	C	1319	.31	.30		E	
GRP30755	15	1316	1410	1320	N15	E04	.251	10781	15.9	54	2B				5.65				
ONDR	15	1311	1345	1320	N16	E04	.267	10781	15.8	34	2B		V	1320				5.00	
RAMY	15	1313E	1325D	1319	N15	E05	.256	10781	15.9	12D	1B		C		3.30			12 12 9 14	
RAMY	15	1314	1325D	1318	N16	E09	.300	10781	16.2	11D	-B		C		.93			CEFHIT	
BOUL	15	1315	1407	1321	N15	E06	.262	10781	16.0	52	1B		V					F	
MEUD	15	1316	1440D	1320	N15	E04	.251	10781	15.9	84D	2B		C	1320	10.31	10.50		U	
ZURI	15	1316	1406	1319	N13	E07	.240	10781	16.1	50	2B		C	1319	6.09	6.30		L	
HUAN	15	1316	1340	1320	N16	E04	.267	10781	15.9	24	-B	2	C	1320	.75	.80		E	
HUAN	15	1316	1405U	1320	N16	E05	.272	10781	15.9	49D	-B	2	C	1320	.50	.50		E	
CAPS	15	1316	1420D	1319	N14	E06	.247	10781	16.0	64D	1B		P	1323	3.00	3.10		386	
CAPS	15	1316	1420D	1319	N14	E06	.247	10781	16.0	64D	1B		P	1319	2.00	2.10		505	
HTPR	15	1317	1415	1322	N15	E02	.244	10781	15.7	58	2N		C	1322	9.18	8.90			
CAPE	15	1317	1404	1322	N16	E08	.291	10781	16.2	47	1B		C	1322	3.04	3.20		V	
WEND	15	1317	1406		N15	W08	.277	10781	15.0	49	2B		P		8.25				
HURB	15	1318E	1342D	1318	N15	E04	.251	10781	15.9	24D	2B							5.66	
CATA	15	1320	1450	1320	N14	E07	.254	10781	16.1	90	2B			1320	6.96	7.20		446	
GRP30760	15	1508	1529	1512	N18	E24	.486	10789	17.4	21	--N				.41				
BOUL	15	1507	1526	1510	N19	E22	.471	10789	17.3	19	-N		V					4 4 1 10	
HUAN	15	1508	1531	1510	N19	E20	.448	10789	17.1	23	-N	2	C	1510	.41	.50		E	
LOCK	15	1508	1540	1516	N17	E22	.453	10789	17.3	32	1F								
ONDR	15	1514E	1518		N16	E30	.547	10789	17.9	4D	-N		V	1515				2.30	
GRP30761	15	1511	1520	1513	N15	W29	.528	10781	13.5	9	--N				.60				
MEUD	15	1509	1519	1513	N15	W27	.502	10781	13.6	10	-N		C	1513	.83	1.00		4 4 2 10	
LOCK	15	1510	1522	1513	N15	W30	.541	10781	13.4	12	-N								
HUAN	15	1512	1518	1514	N15	W30	.541	10781	13.4	6	-N	2	C	1514	.37	.40		D	
BOUL	15	1512	1519	1513	N16	W28	.521	10781	13.5	7	-N		V						

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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	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %		
					LAT.	MER. DIST.													
GRP30762	15	1609	1700	1717	N23	E29	.584	10789	17.8	51	1N		.14					2 1 1 3	
LOCK	15	1609	1700	1717	N23	E29	.584	10789	17.8	51	1N							K	
HUAN	15	1610	1615	1612	N19	E23	.482	10789	17.4	5	-F	2 C	1612	.14	.20			D	
30762	15	1619	1655	1625	N22	E29	.576	10789	17.9	36	*-N			1.29				7 7 5 8	
BOUL	15	1615	1658	1623	N23	E27	.562	10789	17.7	43	-N	V							
HUAN	15	1616	1700U	1624	N23	E28	.573	10789	17.8	440	-B	2 C	1624	.33	.40			E	
CATA	15	1620	1700D	1625	N22	E29	.576	10789	17.9	400	-B		1625	1.16	1.42				
ONDR	15	1620E	1646	1625	N22	E27	.554	10789	17.7	260	1N	V	1625			2.70		CFI	
MCMA	15	1620E	1640D	1628	N22	E29	.576	10789	17.9	200	-N	C	1628	1.34	1.70			E	
MEUD	15	1620E	1658D	1626	N22	E28	.565	10789	17.8	380	1N	C	1626	2.27	2.60				
HTPR	15	1625E	1648D		N20	E33	.608	10789	18.2	230	-N	C	1625	1.34	1.60				
764	LOCK	15	1718	1800	1730	N18	W26	.510	10781	13.8	42	--F						3	
765	LOCK	15	1822	1832	1827	N19	E23	.482	10789	17.5	10	--F						2	
GRP30766	15	1837	1857	1841	N19	E14	.385	10789	16.8	20	-B							2 2 0 2	
LOCK	15	1837	1857	1841	N19	E14	.385	10789	16.8	20	-B								
BOUL	15	1846E	1856D		N19	E13	.375	10789	16.8	100	-N	S							
GRP30767	15	1858	1908	1902	N19	E23	.482	10789	17.5	10	--F			.17				2 2 1 2	
LOCK	15	1858	1907	1902	N19	E23	.482	10789	17.5	9	-F								
HUAN	15	1905E	1908		N19	E22	.471	10789	17.4	3D	-F	2 C	1906	.17	.20			D	
768	LOCK	15	2040	2120	2050	N19	E01	.309	10781	15.9	40	--F						3	
769	HUAN	15	2149	2155	2150	N15	W32	.567	10781	13.5	6	--F	2 C	2150	.17	.20			D 3
GRP30770	15	2211	2246	2224	N18	W27	.522	10781	13.9	35	-N			1.81				4 4 2 4	
CULG	15	2210	2243D	2225	N18	W27	.522	10781	13.9	330	1B	P	2225	2.58	2.92				
LOCK	15	2211	2245	2221	N17	W28	.528	10781	13.8	34	-N								
MCMA	15	2217E	2237D		N17	W27	.515	10781	13.9	200	-N	C	2224	1.03	1.20			E	
BOUL	15	2225E	2247	2225	N18	W26	.510	10781	14.0	220	-N	S							
GRP30771	15	2228	2300	2238	N19	E18	.426	10789	17.3	32	--F			.83				3 3 1 5	
BOUL	15	2225E	2250D	2236	N19	E18	.426	10789	17.3	250	-F	S							
LOCK	15	2230	2300	2240	N19	E19	.437	10789	17.4	30	-F								
MCMA	15	2232E	2249D		N18	E18	.415	10789	17.3	17D	-N	P	2239	.83	.90			E	
GRP30772	15	2302	2343	2312	N19	E15	.395	10789	17.1	41	-N			1.75				3 3 1 4	
LOCK	15	2302	2330	2310	N19	E15	.395	10789	17.1	28	-F								
VORO	15	2302	0002	2308	N20	E16	.417	10789	17.2	60	-B	C	2308	1.75	1.90		115	EF	
BOUL	15	2317E	2338	2320	N20	E18	.437	10789	17.3	210	-N	S							
BOUL	15	2317E	2333	2317	N16	E08	.291	10789	16.6	160	-F	S							
GRP30773	15	2302	2328	2313	N15	E00	.242	10781	16.0	26	--F			.93				3 3 1 4	
LOCK	15	2300	2330	2313	N15	E00	.242	10781	16.0	30	-F								
VORO	15	2304	2318	2308	N15	W01	.243	10781	15.9	14	-B	C	2308	.93	.90		87	E	
BOUL	15	2317E	2335	2317	N16	E01	.259	10781	16.0	180	-N	S							
GRP30775	15	2328	0010	2349	N20	E21	.469	10789	17.6	42	--F			1.86				2 2 1 5	
CRON	15	2317	0006		N19	E28	.542	10789	18.1	49	1N	1 V		1.86					
LOCK	15	2339	0010	2349	N20	E14	.397	10789	17.0	31	-F								
4 STATIONS REPORTING GROUP 30776. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP30776	15	2330	0056	2354	N18	W28	.535	10781	13.9	86	-N			2.48				2 2 1 4	
CULG	15	2327	0053	2357	N18	W26	.510	10781	14.0	86	1N	P	2357	2.48	2.76			L	
LOCK	15	2333	0030	2350	N17	W26	.503	10781	14.0	57	-N								
LOCK	16	0050	0058	0052	N17	W35	.614	10781	13.4	8	-F								
30776	15	2334	0017	2341	N17	W23	.465	10781	14.3	43	*-B			1.29				2 2 1 4	
BOUL	15	2333	0025	2340	N17	W24	.478	10781	14.2	52	-N	V							
VORO	15	2335	0008	2342	N16	W28	.521	10781	13.9	33	-B	C	2342	1.29	1.50		105	D	
VORO	15	2346	0002	2340	N19	W14	.385	10781	14.9	16	-B	C	2340	.84	.90		87	D	
777	LOCK	16	0040	0100	0045	N13	E00	.206	10781	16.0	20	--F						4	
GRP30778	16	0146	0208	0151	N19	E14	.383	10789	17.1	22	-N			.93				4 3 1 6	
MANI	16	0107	0145		N18	E15	.381	10789	17.2	38	-F	2	0114	.52	.55				
BOUL	16	0143	0145D	0145	N19	E16	.403	10789	17.3	2D	-N	V							
LOCK	16	0145	0207	0148	N19	E14	.383	10789	17.1	22	-N								
VORO	16	0151	0209	0154	N20	E13	.387	10789	17.1	18	-B	C	0154	.93	1.00		113	E	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
6 STATIONS REPORTING GROUP 30821. 3 STATIONS OBSERVING AND NOT REPORTING.																
GRP30821	17	0548	0639	0559	N16	W44	.717 10781	13.9	51	-N						
CULG	17	0545	0656D	0601	N18	W44	.723 10781	13.9	71D	1N	P	0601	1.43	2.58	3.75	4 4 3 7
TEHR	17	0545E	0630D	0550	N17	W43	.709 10781	14.0	45D	1N						
TEHR	17	0546	0620D		N17	W46	.742 10781	13.8	34D	-B					Z	
ABST	17	0553	0623	0600	N16	W44	.717 10781	13.9	30	-N	C	0600	.90	1.30		68 DK
CATA	17	0600E	0645	0605	N14	W44	.711 10781	13.9	45D	-B		0605	.80	1.17		257
30821																
KODA	17	0617	0630	0621	N17	W44	.720 10781	14.0	13	*-F			1.86			2 2 1 9
ISTA	17	0614E	0630	0621	N17	W44	.720 10781	14.0	16D	-F	P	0627	1.86	1.90	1.40	CD
ISTA	17	0620	0800D		N17	W44	.720 10781	14.0	100D	1N						
GRP30823																
ISTA	17	0621	0656	0627	N19	W02	.307 10789	17.1	35	-N			1.78			7 7 5 9
BUCA	17	0617E	0630		N17	W06	.290 10789	16.8	13D	-N						
KIEV	17	0620	0700	0626	N20	W01	.322 10789	17.2	40	1N	C	0626	1.66	1.70		
TEHR	17	0620E	0645D		N20	E01	.322 10789	17.3	25D	-F			2.58	2.90		65 EI
ABST	17	0623	0710	0628	N19	W01	.306 10789	17.2	47	-N	C	0628	1.79	1.90		65 E
KODA	17	0623	0630	0623	N20	W02	.323 10789	17.1	7	-F	P	0627	1.89	1.90	1.48	CE
CATA	17	0625	0700D	0630	N19	W01	.306 10789	17.2	35D	-B		0630	.98	1.04		257 Z
TEHR	17	0625	0705D	0627	N19	W02	.307 10789	17.1	40D	1N						EZ
TEHR	17	0625	0705D	0627	N18	E00	.289 10789	17.3	40D	1N						Z
TEHR	17	0707	0720D	0713	N18	W02	.290 10789	17.1	13D	18						
6 STATIONS REPORTING GROUP 30824. 5 STATIONS OBSERVING AND NOT REPORTING.																
GRP30824	17	0704	0754	0715	N18	W43	.712 10781	14.1	50	-N			2.79			4 4 3 9
TEHR	17	0630E	0714D	0714	N16	W42	.694 10781	14.1	44D	-N						Z
TEHR	17	0655E	0715D	0715	N16	W47	.750 10781	13.8	20D	-F						0
KHAR	17	0702	0742		N17	W43	.709 10781	14.1	40	1N	P	0707	3.40	4.98		
CAPE	17	0709E	0726D		N18	W43	.712 10781	14.1	17D	-N	P	0709	1.38	2.00		
ABST	17	0710	0805	0716	N19	W43	.716 10781	14.1	55	1N	C	0716	3.59	5.00		70 EJ
30824																
KODA	17	0726	0812	0734	N18	W47	.756 10781	13.8	46	*-N			2.10			4 2 1 11
ZURI	17	0658E	0729	0658	N17	W44	.720 10781	14.0	31D	-N	V	0658	1.86	1.90	1.76	DK
CATA	17	0722E	0812	0734	N18	W46	.745 10781	13.9	50D	1N	P	0734	2.10	3.00		
CANR	17	0725E	0830D	0800	N15	W45	.725 10781	13.9	65D	18		0800	3.25	4.67		302
CANR	17	0730	0730D		N18	W48	.766 10781	13.7		-N	1 V			1.30		
GRP30825																
ISTA	17	0734	0744	0738	N18	W03	.293 10789	17.1	10	-F			1.11			4 3 2 11
ISTA	17	0711	0742	0738	N18	W01	.289 10789	17.2	31	-F						
ABST	17	0728	0752		N19	E03	.309 10789	17.5	24	-F						
ZURI	17	0737	0743	0738	N18	W04	.296 10789	17.0	6	-N	C	0738	.90	.90		55 DKV
KHAR	17	0737	0740	0738	N18	W06	.305 10789	16.9	3	1F	C	0738	1.32	1.40		
KHAR	17	0748	0750		N19	W04	.312 10789	17.0	2	-N	P					0
GRP30830																
ZURI	17	1130	1134	1131	N19	W01	.306 10789	17.4	4	-F			1.19			2 2 2 6
ABST	17	1130	1134	1130	N19	W01	.306 10789	17.4	4	-F	C	1130	1.47	1.50		
ABST	17	1130E	1131D	1131U	N19	W01	.306 10789	17.4	1D	-F	P	1131	.90	.90		58 D
GRP30831																
MONT	17	1154	1232	1206	N18	W04	.296 10789	17.2	38	-N			2.29			5 5 3 6
BOUL	17	1119	1223	1212	N20	W04	.328 10789	17.2	64	1B	C	1212	3.40			
CANR	17	1142E	1244	1205	N18	W04	.296 10789	17.2	62D	-N	V					
ZURI	17	1153	1220	1200	N18	W03	.293 10789	17.3	27	-N	3 V		1.10			
HUAN	17	1154	1242D	1206	N19	W02	.307 10789	17.3	48D	1N	P	1206	3.36	3.50		
HUAN	17	1204E	1230		N17	W07	.296 10789	17.0	26D	-F	2 C	1205	.12	.12		E
GRP30832																
CAPS	17	1156	1245 (1205)		N19	E08	.333 10789	18.1	49	-N			.84			2 2 2 6
HUAN	17	1156	1210D		N17	E08	.303 10789	18.1	14D	-N	2 V	1204	1.50	1.60		190
HUAN	17	1204E	1245		N20	E07	.342 10789	18.0	41D	-N	2 C	1205	.17	.20		D
GRP30834																
HUAN	17	1229	1256	1234	N19	E03	.309 10789	17.7	27	--N			.50			3 3 1 7
BOUL	17	1228	1256D	1235	N18	E03	.293 10789	17.7	28D	-N	2 C	1235	.50	.50		E
CANR	17	1230	1306	1235	N19	E02	.307 10789	17.7	36	-N	V					
CANR	17	1230	1245	1232	N19	E05	.316 10789	17.9	15	-N	3 V		.50			
GRP30835																
WEND	17	1307	1324	1312	N19	E04	.312 10789	17.8	17	-N						3 3 0 5
CANR	17	1300	1328		N18	E05	.300 10789	17.9	28	-N						
BOUL	17	1310	1319	1312	N19	E05	.316 10789	17.9	9	-N	3 V		.40			
BOUL	17	1310	1326	1312	N19	E02	.307 10789	17.7	16	-N	V					
GRP30836																
CAPS	17	1449	1510	1453	N20	E05	.332 10789	18.0	21	--F			.50			2 1 1 5
BOUL	17	1449E	1510D		N20	E05	.332 10789	18.0	21D	-F	2 S	1450	.50	.50		142
BOUL	17	1452	1505	1453	N19	W05	.316 10789	17.2	13	-N	V	1453	.50	.50		

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	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.												
GRP30863	18	1251	1307	1252	N17	W23	.462	10789	16.8	16	1B		1.86				9 9 6 9	
ONDR	18	1248	1302	1251	N16	W25	.480	10789	16.7	14	2N	V	1251			3.10	CE	
BOUL	18	1250	1308	1252	N18	W24	.483	10789	16.7	18	1B	V	1252		2.10			
CANR	18	1250	1305	1252	N16	W25	.480	10789	16.7	15	-B	3 V			1.70			
ABST	18	1251	1310	1252	N16	W24	.467	10789	16.7	19	1N	C	1252	2.69	3.00		58	EV
MCMA	18	1251	1345	1252	N19	W22	.467	10789	16.9	54	-B	C	1252	1.44	1.60			EV
KIEV	18	1251	1303	1252	N21	W20	.465	10789	17.0	12	1N	C	1252	3.61	3.90		75	EI
HUAN	18	1252E	1302		N17	W24	.474	10789	16.7	10D	-B	1 C	1252	.75	.90			E
CAPS	18	1253E	1310D		N16	W20	.416	10789	17.0	17D	-B	V	1253	1.20	1.30		204	
CATA	18	1255	1315	1255	N15	W24	.459	10789	16.7	20	-N		1255	1.44	1.63		186	Z
GRP30867	18	1553	1618	1559	N19	W18	.422	10789	17.3	25	-N		1.35				5 5 2 5	
BOUL	18	1552	1614	1558	N19	W16	.400	10789	17.5	22	-N	V						
LOCK	18	1552	1622	1602	N20	W18	.433	10789	17.3	30	-N						H	
CANR	18	1553	1623		N18	W18	.411	10789	17.3	30	-N	3 V			1.30			
MCMA	18	1554	1616	1557	N19	W16	.400	10789	17.5	22	-N	C	1557	.83	.90			E
CATA	18	1555	1615D	1600	N17	W20	.425	10789	17.2	20D	1N		1600	1.86	2.06		195	
GRP30869	18	1625	1631	1627	N18	W09	.323	10789	18.0	6	--F		.36				3 3 1 4	
LOCK	18	1624	1634	1628	N15	W07	.264	10789	18.2	10	-F							
MCMA	18	1625	1630	1626	N19	W11	.353	10789	17.9	5	-F	C	1626	.36	.40			E
BOUL	18	1625	1630	1626	N19	W08	.331	10789	18.1	5	-F	V						
GRP30870	18	1655	1709	1657	N17	W24	.474	10789	16.9	14	--N		.41				4 4 1 5	
CANR	18	1653	1710		N17	W25	.487	10789	16.8	17	-B	2 V			.80			
BOUL	18	1655	1708	1657	N18	W23	.470	10789	17.0	13	-N	V						
LOCK	18	1655	1707	1658	N14	W26	.479	10789	16.8	12	-F							
MCMA	18	1655	1710	1657	N18	W20	.434	10789	17.2	15	-N	C	1657	.41	.50			E
4 STATIONS REPORTING GROUP 30871. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP30871	18	1837	1913	1856	N17	W26	.500	10789	16.8	36	-B		.93				4 4 1 4	
LOCK	18	1833	1918	1857	N16	W28	.519	10789	16.7	45	-B							
CANR	18	1838	1911		N17	W26	.500	10789	16.8	33	-B	2 V			1.30			
BOUL	18	1840	1909	1856	N17	W25	.487	10789	16.9	29	-N	V						
MCMA	18	1853	1915	1856	N17	W25	.487	10789	16.9	22	-B	C	1856	.93	1.10			EHV
30871	18	1837	1918	1843	N17	W27	.512	10789	16.8	41	*-N		.62				2 2 1 4	
LOCK	18	1833	1918	1843	N16	W28	.519	10789	16.7	45	-N						K	
MCMA	18	1840	1852D	1842	N17	W25	.487	10789	16.9	12D	-N	C	1842	.62	.70			E
872 BOUL	18	1925	1936D	1926	N20	W14	.393	10789	17.8	11D	--F	S	1926		.30			3
873 LOCK	18	2030	2052	2039	N20	W20	.454	10789	17.4	22	--F							3
874 BOUL	18	2103	2114D	2105	N20	E80	.985	10799	24.9	11D	--F	S	2105		2.00			3
875 BOUL	18	2229	2233	2230	N18	W68	.932	10781	13.8	4	--F	S	2230		1.00			3
GRP30876	18	2257	2325	2303	N15	W41	.678	10781	15.9	28	--F						2 2 0 4	
LOCK	18	2255	2325	2305	N15	W42	.690	10781	15.8	30	-F							
BOUL	18	2259	2320D	2301	N14	W40	.663	10781	16.0	21D	-F	S						
GRP30877	18	2302	2316	2305	N17	W26	.500	10789	17.0	14	--F		.31				2 2 1 4	
BOUL	18	2302	2315	2305	N18	W25	.495	10789	17.1	13	-F	V						
MANI	18	2305E	2316		N16	W27	.506	10789	16.9	11D	-F	2	2305	.31	.38			
GRP30878	18	2325	2335	2327	N14	W35	.600	10789	16.4	10	--N		.62				2 2 1 3	
MANI	18	2324	2334	2326	N13	W35	.596	10789	16.4	10	-N	2	2326	.62	.79			
LOCK	18	2325	2335	2327	N15	W35	.604	10789	16.4	10	-N							
GRP30879	18	2343	0003	2346	N19	W22	.467	10789	17.3	20	-N		1.13				3 3 1 5	
LOCK	18	2342	0000	2346	N19	W21	.456	10789	17.4	18	-N							
MANI	18	2343	0005	2344	N18	W21	.446	10789	17.4	22	-N	2	2344	1.13	1.29			
BOUL	18	2349E	0005D	2349	N20	W23	.488	10789	17.3	16D	-N	S						
GRP30880	19	0108	0130	0112	N15	W30	.538	10789	16.8	22	-N		.98				3 3 2 4	
LOCK	19	0107	0130	0114	N16	W30	.544	10789	16.8	23	-N							
MANI	19	0108E	0130	0110	N15	W31	.551	10789	16.7	22D	-N	2	0110	1.03	1.26			
CRON	19	0109	0130		N15	W30	.538	10789	16.8	21	-N	1 V		.93				
GRP30881	19	0310	0323	0314	N16	W30	.544	10789	16.9	13	--F		1.35				3 3 3 8	
MANI	19	0310	0312D		N15	W28	.512	10789	17.0	2D	-F	2	0312	.62	.76			
TACH	19	0310	0321	0314	N18	W31	.568	10789	16.8	11	1F	C	0314	2.09	2.50		56	E
ABST	19	0311	0325	0313	N16	W30	.544	10789	16.9	14	-F	C	0313	1.35	1.20		48	EK
GRP30882	19	0814	0825	0815	N15	W36	.616	10789	16.6	11	--F		.74				3 3 2 6	
ABST	19	0814	0820	0815	N15	W35	.603	10789	16.7	6	-F	C	0815	1.07	1.30			DZ
CRON	19	0814	0830		N14	W36	.612	10789	16.6	16	-F	2 V		.41				
CANR	19	0814	0824		N15	W37	.629	10789	16.6	10	-N	2 V			.40			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha	MAX. INT. %
					LAT.	MER. DIST.													
GRP30893	19	1615	1642	1628	N17	W38	.649	10789	16.8	27	-N		.62				4 4 1 5		
LOCK	19	1614	1640	1627	N18	W38	.653	10789	16.8	26	-N								
BOUL	19	1616	1640	1628	N18	W36	.629	10789	17.0	24	-N	V							
MCMA	19	1621E	1649		N16	W37	.633	10789	16.9	28	-N	P	1629	.62	.80		E		
ONDR	19	1624E	1638		N16	W39	.657	10789	16.8	14D	1F	V	1632			2.00	C		
GRP30895	19	1632	1659	1636	N18	W76	.971	10781	14.0	27	--F						2 2 0 6		
LOCK	19	1630	1700	1638	N17	W78	.978	10781	13.8	30	-F								
BOUL	19	1633	1658	1634	N18	W73	.958	10781	14.2	25	-F	V							
GRP30898	19	1817	1828	1819	S07	E45	.716	10798	23.1	11	--F			.31			2 2 1 4		
MCMA	19	1817E	1830	1819	S07	E45	.716	10798	23.1	13D	-F	C	1819	.31	.40		DH		
BOUL	19	1817	1825	1819	S07	E44	.704	10798	23.1	8	-F	V	1819		.50				
GRP30899	19	1908	1932	1915	N08	E90	1.000	10801	26.5	24	-B						2 2 0 4		
LOCK	19	1905	1940	1918	N09	E90	1.000	10801	26.5	35	-N						H		
BOUL	19	1910	1924	1911	N06	E89	1.000	10801	26.5	14	-B	V	1911		1.50				
900 MCMA	19	2036E	2140D		S10	E55	.828	10798	24.0	64D	--F	C	2041	.83	1.40		EL 3		
GRP30901	19	2201	2308	2222	N19	W54	.826	10789	15.9	67	1N			2.12			3 2 1 4		
BOUL	19	2201	2315	2219	N21	W53	.821	10789	15.9	74	1N	S	2219		4.00				
VORO	19	2202	2236	2206	N16	W54	.820	10789	15.9	34	1B	C	2206	2.12	3.50		96 EJ		
LOCK	19	2225E	2300	2225	N16	W55	.830	10789	15.8	35D	1N								
GRP30903	19	2232	2255	2238	N17	W44	.719	10789	16.6	23	1B			1.72			4 4 2 4		
BOUL	19	2200	2242	2204	N18	W47	.754	10789	16.4	42	-N	S	2204		.50				
MCMA	19	2205E	2304D		N18	W49	.775	10789	16.2	59D	1B	P	2236	1.86	3.00		FK		
BOUL	19	2230	2330	2238	N16	W41	.681	10789	16.9	60	1B	S	2238		3.50				
LOCK	19	2232	2255	2239	N17	W40	.673	10789	16.9	23	-N								
VORO	19	2235	2258	2237	N15	W42	.690	10789	16.8	23	1B	C	2237	1.57	2.10		138 EJ		
GRP30904	20	0006	0013	0007	N16	W46	.738	10789	16.6	7	-B			.63			2 2 2 4		
VORO	20	0006	0010	0007	N16	W45	.727	10789	16.6	4	-B	C	0007	.84	1.20		109 D		
CRON	20	0006	0015		N16	W47	.749	10789	16.5	9	-N	2 V		.41					
GRP30916	20	0820	0834	0823	N15	W45	.724	10789	17.0	14	1N			1.37			7 6 3 7		
TEHR	20	0815E	0835D	0823	N16	W44	.715	10789	17.0	20D	1B								
CRON	20	0820	0835	0822	N17	W46	.740	10789	16.9	15	-N	3 V	0822	.83					
HTPR	20	0821	0840	0826	N16	W57	.847	10789	16.1	19	-N	C	0826	1.26	1.80				
CANR	20	0821	0830	0824	N15	W45	.724	10789	17.0	9	-B	3 V			.80				
ONDR	20	0821	0832		N15	W46	.735	10789	16.9	11	2F	V	0825			2.80	C		
ABST	20	0821	0840	0824	N16	W45	.727	10789	17.0	19	1N	C	0824	1.79	2.70		58 E		
CAPS	20	0822E	0828D		N12	W45	.717	10789	17.0	6D	1N	1 S	0826	1.50	2.30		170		
917 ABST	20	0924	0940	0929	N14	E75	.966	10801	26.0	16	1F	C	0929	.90			D 4		
5 STATIONS REPORTING GROUP 30918. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP30918	20	1248	1302	1257	N17	W55	.831	10789	16.4	14	-N			1.60			3 3 2 7		
LVOV	20	1244	1302	1258	N16	W52	.801	10789	16.6	18	1F	C	1259	2.89	4.46		53 GE		
MCMA	20	1245	1301	1256	N16	W54	.820	10789	16.5	16	-N	C	1256	.31	.50		D		
BOUL	20	1254	1304	1256	N18	W58	.859	10789	16.2	10	-N	V							
30918	20	1243	1301	1245	N15	W53	.809	10789	16.6	18	*-F			.52			3 3 2 7		
RAMY	20	1242	1305	1245	N14	W52	.797	10789	16.6	23	-F	C		.72			DE		
MCMA	20	1244	1249	1245	N16	W54	.820	10789	16.5	5	-F	C	1245	.31	.50		D		
CAPS	20	1244	1310D		N15	W52	.799	10789	16.6	26D	-N	1 S							
926 LOCK	20	1845	1910	1850	N22	E85	.996	10802	27.2	25	--F						4		
927 LOCK	20	2015	2330	2040	N22	E80	.985	10802	26.8	195	--F						K 2		
928 LOCK	20	2315	2345	2324	N19	E47	.757	10799	24.5	30	-N						2		
929 LOCK	20	2340	0010	2352	N14	E68	.929	10801	26.1	30	--F						3		
GRP30932	21	0428	0535		S20	W45	.757	10791	17.8	67	-F			.83			3 2 1 4		
TACH	21	0428	0531	0434	S15	W45	.738	10791	17.8	63	1N	C	0434	3.09	4.54		80 EG		
CRON	21	0435	0535		S15	W46	.749	10791	17.7	60	-F	3 V		.83					
TEHR	21	0515E	0535D		S24	W44	.764	10791	17.9	20D	1N						EG		
TEHR	21	0520	0540D	0527	S24	W44	.764	10791	17.9	20D	-N								
GRP30934	21	0515	0715	0705	N23	E75	.968	10802	26.8	120	--B			.17			3 2 1 10		
TEHR	21	0515E	0610D	0529	N21	E74	.963	10802	26.8	55D	1N						W		
ISTA	21	0600	0715		N23	E75	.968	10802	26.9	75	-B								
CATA	21	0705	0715	0705	N22	E74	.964	10802	26.8	10	-N		0705	.17			193		

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OBSERVATORY	OBSERVED UT			LOCATION					DURATION	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS																	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	MIN.	TIME UT	MEAS. AREA Sq. Deg.		CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %														
1970 JUN																																	
GRP30999	24	0604	0633	0609	S08	E82	.991	10807	30.4	29	1B			.90			6 6 3 7																
HTPR	24	0602	0625	0607	S08	E80	.986	10807	30.3	23	-N	C					A																
CULG	24	0603	0633	0608	S07	E83	.993	10807	30.5	30	1B	C	0608	.83			R																
CAPS	24	0603	0644		S07	E80	.986	10807	30.3	41	1B	V					H																
CATA	24	0605	0620	0610	S07	E90	1.000	10807	1.0	15D	1N		0610	1.16		186	A																
TEHR	24	0605E	0635D	0610	S11	E76	.973	10807	30.0	30D	2B																						
CRON	24	0607	0626		S08	E83	.993	10807	30.5	19	1N	2 V		.72																			
GRP31002	24	0711	0734	0713	N06	E26	.442	10801	26.2	23	--N			.78			6 6 4 8																
HTPR	24	0710	0730	0713	N05	E23	.393	10801	26.0	20	--F	C	0713	.93	1.00		E																
ISTA	24	0710	0722		N09	E26	.450	10801	26.2	12	-B																						
MONT	24	0711	0732	0713	N06	E27	.457	10801	26.3	21	-N	C	0713	1.13																			
CAPS	24	0712E	0729D		N04	E24	.407	10801	26.1	17D	-B	V	0716	.50	.60	205																	
BUCA	24	0714	0728D		N06	E27	.457	10801	26.3	14D	-B	C	0716	.55	.60		D																
TEHR	24	0715E	0800D		N08	E30	.507	10801	26.6	45D	-N																						
GRP31003	24	0848	0928	0855	N10	E31	.527	10801	26.7	40	-N			1.41			7 7 5 7																
MONT	24	0843	0912	0849	N11	E30	.516	10801	26.6	29	1B	C	0849	2.58			H																
HTPR	24	0846	0940	0851	N10	E34	.569	10801	26.9	54	-N	C	0851	1.86	1.90		E																
CAPS	24	0846E	0946D		N06	E28	.473	10801	26.5	60D	-B	V	0857	.90	1.00	212																	
ZURI	24	0848	0925D	0857	N12	E29	.506	10801	26.5	37D	-N	P	0857	.79	.90																		
HURB	24	0849E	0924	0904	N10	E30	.513	10801	26.6	35D	1F					1.85																	
MONT	24	0849	1002	0857	N14	E36	.609	10801	27.1	73	-N	C	0857	.77																			
CRON	24	0851	0920		N11	E31	.530	10801	26.7	29	-N	2 V		.93																			
CANR	24	0856	0927		N10	E31	.527	10801	26.7	31	-N	2 V																					
GRP31005	24	1126	1138	1128	N22	E32	.601	10802	26.9	12	-N			1.53			6 6 5 8																
MONT	24	1125	1137	1128	N22	E31	.590	10802	26.8	12	1B	C	1128	2.58			H																
MCMA	24	1125	1140	1129	N21	E31	.583	10802	26.8	15	-N	C	1129	.72	.90		EL																
HTPR	24	1125	1145	1128	N23	E35	.641	10802	27.1	20	-F	C	1128	.93	1.10																		
RAMY	24	1125	1135	1129	N23	E32	.608	10802	26.9	10	-F	C		.31			DE																
KIEV	24	1126	1133	1128	N20	E30	.564	10802	26.7	7	1B	C	1128	3.09	3.70	85	EI																
CANR	24	1129	1135		N21	E34	.618	10802	27.0	6	-N	2 V		.50																			
009 LOCK	24	1709	1724	1714	N05	W70	.939	10805	19.5	15	--F						4																
010 LOCK	24	1749	1805	1754	N18	W90	1.000	10789	18.0	16	--F						3																
GRP31011	24	1936	1946	1943	N21	E89	1.000	10808	1.5	10	--F			.52			2 2 1 3																
RAMY	24	1936	1946	1943	N21	E90	1.000	10808	1.6	10	-N	V		.52			DE																
BOUL	24	1940E	1946	1942	N21	E88	.999	10808	1.4	6D	-F	V	1942	.50																			
012 BOUL	24	2134	2158D	2155	S13	E04	.268	10800	25.2	24D	--F	S	2155	.50			3																
GRP31014	24	2354	0025	0009	N22	E23	.499	10802	26.7	31	-F			1.96			2 2 1 2																
CULG	24	2354	0025	0010	N22	E22	.488	10802	26.6	31	1N	C	0010	1.96	2.18																		
BOUL	25	0008E	0018D	0008	N22	E24	.509	10802	26.8	10D	-F	S																					
	24	2400	0001	NO FLARE PATROL																													
13 STATIONS REPORTING GROUP 31020.																	0 STATIONS OBSERVING AND NOT REPORTING.																
GRP31020	25	0711	0856	0727	S06	W26	.457	10798	23.3	105	1N			5.79			5 5 4 7																
BUCA	25	0657E	0822D		S06	W26	.457	10798	23.3	85D	2N	P	0736	8.86	9.90		U																
CAPE	25	0703	0733D	0727	S05	W25	.438	10798	23.4	30D	1N		0727	3.60	4.00																		
CANR	25	0713	0850	0722	S08	W27	.482	10798	23.3	97	1N	2 V		5.10																			
ABST	25	0718E	0743D	0731U	S06	W26	.457	10798	23.4	25D	2F	P	0731	7.18	8.00		I																
CRON	25	0727	0901		S06	W24	.428	10798	23.5	94	1N			3.51																			
31020	25	0745	1023	0810	S06	W28	.487	10798	23.2	158	*2N			8.59			5 4 4 10																
CATA	25	0745E	1010	0810	S06	W25	.443	10798	23.4	145D	2B		0810	6.96	7.74	209																	
CAPS	25	0755E	1035D		S05	W26	.453	10798	23.4	160D	2N	P	0800	6.00	6.60	204	BU																
MONT	25	0759E	1025D	0806	S08	W25	.453	10798	23.5	146D	3B	C	0806	17.53																			
HERS	25	0807E	0850D	0807E	S03	W34	.565	10798	22.8	43D	1F	S	0808	3.87	4.60	.13	40																
ZURI	25	0810E	0946D	0818	S06	W28	.487	10798	23.2	96D	3F	P	0818	15.76	17.70																		
31020	25	0706	0755	0750	S06	W28	.487	10798	23.2	49	*1N			6.79			3 3 2 8																
HTPR	25	0700	1000	0750	S08	W27	.482	10798	23.3	180	2N	C	0750	7.01	7.50		U																
ISTA	25	0712	0755		S04	W29	.494	10798	23.1	43	-N																						
KODA	25	0750E	0827	0750	S05	W28	.483	10798	23.2	37D	2N	V	0755	6.57	6.60	1.56	I																
GRP31025	25	1104	1157	1112	N11	E17	.326	10801	26.7	53	--N			.81			3 3 3 7																
RAMY	25	1101	1130	1114	N09	E17	.313	10801	26.7	29	-N	C		.93			F																
MCMA	25	1105E	1215D		N12	E18	.348	10801	26.8	70D	-N	C	1107	1.03	1.10		E																
CATA	25	1105	1125	1110	N13	E17	.342	10801	26.7	20	-N		1110	.46	.51	180																	
CATA	25	1145	1205	1145	N12	E15	.306	10801	26.6	20	-N		1145	.34	.37	182																	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %	
					LAT.	MER. DIST.													
1970 JUN																			
GRP31052	26	0843	0900	0850	N23	E60	.880	10808	30.9	17	-N			.83					4 4 4 8
HTPR	26	0835	0905	0850	N23	E61	.887	10808	30.9	30	-N	C	0850	.72					
MONT	26	0838	0856	0850	N23	E60	.880	10808	30.9	18	-N	C	0850	1.13					
ABST	26	0848	0905	0851	N20	E62	.891	10808	1.0	17	1N	C	0851	1.07			61		EZH
CATA	26	0850	0855	0850	N24	E58	.866	10808	30.7	5	-B		0850	.40	.81		209		
GRP31053	26	0924	0932	0925	N23	E60	.880	10808	30.9	8	-N			.98					4 4 4 10
HTPR	26	0924	0940	0925	N23	E61	.887	10808	1.0	16	-N	C	0925	.93					
MONT	26	0924	0932	0925	N23	E60	.880	10808	30.9	8	-N	C	0925	2.06					
ZURI	26	0924	0926	0925	N22	E58	.863	10808	30.7	2	-N	C	0925	.53	1.10				
CRON	26	0924	0931		N22	E62	.893	10808	1.0	7	-F	1 V		.41					
GRP31054	26	1058	1114	1101	N22	E59	.871	10808	30.9	16	1N			1.61					7 7 5 8
CANR	26	1055	1107		N22	E60	.878	10808	1.0	12	-N	3 V			.70				
MONT	26	1056	1112	1101	N23	E59	.872	10808	30.9	16	1B	C	1101	3.40					H
RAMY	26	1057	1115	1059	N22	E60	.878	10808	1.0	18	-F	C		.62					DE
ZURI	26	1057	1107	1101	N22	E58	.863	10808	30.8	10	1B	C	1101	1.47	2.90				
CAPE	26	1058	1110	1101	N22	E58	.863	10808	30.8	12	1N	C	1101	1.38	2.80				
ONDR	26	1101E	1119		N22	E58	.863	10808	30.8	18D	1B	V	1102			3.40			CDH
CATA	26	1105	1130	1105	N23	E57	.856	10808	30.7	25	1B		1105	1.16	2.32		221		Z
GRP31058	26	1352	1429	1409	S08	E50	.776	10807	30.3	37	-N			.65					8 7 4 10
RAMY	26	1344	1413	1346	S07	E51	.785	10807	30.4	29	-F	C		.31					DE
LOCA	26	1345E	1420	1405	S08	E50	.776	10807	30.3	35D	-N	V	1405	.63	1.10				
ONDR	26	1348	1425		S08	E48	.754	10807	30.2	37	1N	V	1402			3.30			DHJC
CATA	26	1350	1435	1410	S08	E48	.754	10807	30.2	45	-B		1410	.29	.45		257		D
CAPS	26	1350E	1434D		S08	E50	.776	10807	30.3	44D	-B	1 S							H
MONT	26	1357	1436	1411	S08	E51	.787	10807	30.4	39	-N	C	1411	1.13					H
ZURI	26	1359	1417	1411	S08	E50	.776	10807	30.3	18	-N	P	1411	.53	.80				
BOUL	26	1400E	1435	1410	S08	E52	.797	10807	30.5	35D	-B	V							
BOUL	26	1408	1421	1409	S08	E54	.817	10807	30.6	13	-N	V							
GRP31063	26	1719	1735	1720	S06	W52	.794	10798	22.8	16	-N			.67					5 4 2 8
RAMY	26	1714	1739	1719	S08	W52	.797	10798	22.8	25	-N	C		.62					DE
LOCK	26	1717	1738	1721	S04	W52	.792	10798	22.8	21	-N								H
ZURI	26	1717	1723	1720	S05	W53	.803	10798	22.7	6	-N	C	1720	.71	1.20				
BOUL	26	1718	1742	1720	S08	W52	.797	10798	22.8	24	-N	V							
WEND	26	1725	1736		S02	W51	.779	10798	22.9	11	-N								
065 LOCK	26	2020	2042	2026	N16	E90	1.000	10813	3.6	22	-N								2
GRP31068	26	2217	2232	2224	S05	E85	.997	10812	3.3	15	--F								2 2 0 5
RAMY	26	2217	2228D	2222	S05	E85	.997	10812	3.3	11D	-F	C							
LOCK	26	2224E	2232	2226	S05	E85	.997	10812	3.3	8D	-N								
GRP31071	27	0006	0020	0009	N20	E48	.766	10808	30.6	14	-B			1.50					4 4 2 4
BOUL	27	0005	0020	0007	N20	E48	.766	10808	30.6	15	-N	V	0007		.80				
LOCK	27	0005	0020	0009	N18	E47	.750	10808	30.5	15	-N								
VORO	27	0006	0012	0008	N21	E49	.779	10808	30.7	6	-B	C	0008	.93	1.40			87	D
CULG	27	0006	0027	0011	N19	E48	.764	10808	30.6	21	1B	C	0011	2.06	3.20				HV
GRP31074	27	0223	0328	0249	N23	E43	.725	10808	30.3	65	1N			2.37					2 1 1 3
CULG	27	0223	0328	0249	N23	E43	.725	10808	30.3	65	1N	C	0249	2.37	3.33				HLR
TACH	27	0306	0311	0307	N22	E48	.772	10808	30.7	5	2F	C	0308	3.19	5.30	1.98	54		FTY
075 TACH	27	0336E	0400D		S00	W09	.162	10801	26.5	24D	--N	S	0336	.91	.94	1.67	51		E 2
GRP31081	27	0736	0801	0743	N21	E44	.728	10808	30.6	25	-N			1.25					11 11 10 13
HTPR	27	0730	0812	0735	N22	E47	.762	10808	30.8	42	-F	C	0735	.83	1.20				
MONT	27	0731E	0802	0743	N21	E43	.717	10808	30.5	31D	-B	C	0743	2.06					
CAPS	27	0732E	0805	0745	N19	E43	.710	10808	30.5	33D	-B	V	0744	.80	1.10			237	
CAPE	27	0732	0800	0744	N22	E43	.721	10808	30.5	28	-N	C	0744	1.21	1.70				
CATA	27	0735	0745D	0740	N23	E41	.704	10808	30.4	10D	-B		0740	.29	.42			209	
WEND	27	0735	0757		N21	E43	.717	10808	30.5	22	1N	P		3.09					
AROS	27	0740E	0756		N20	E43	.713	10808	30.5	16D	-N	P	0740	.72	1.00				
ABST	27	0740	0805	0745	N20	E44	.724	10808	30.6	25	-N	C	0745	1.35	2.00			65	E
KODA	27	0743E	0745D		N20	E44	.724	10808	30.6	2D	-N	S	0743	1.36	1.40	1.84			CD
CRON	27	0743	0757		N21	E46	.749	10808	30.8	14	-N	3 V		.83					
ONDR	27	0746E	0758D		N21	E42	.706	10808	30.5	12D	1N	V	0749			2.20			CE
GRP31082	27	1037	1101	1041	N20	E43	.713	10808	30.7	24	-N			.87					6 6 5 7
HTPR	27	1033	1100	1040	N20	E47	.756	10808	1.0	27	-N	C	1040	1.03	1.50				
MONT	27	1038	1100D	1039	N19	E42	.698	10808	30.6	22D	-N	C	1039	.77					
CAPS	27	1038E	1105D	1045	N18	E44	.718	10808	30.7	27D	-B	V	1043	.70	1.00			220	
CAPE	27	1038	1055	1040	N20	E42	.702	10808	30.6	17	-N	C	1040	1.10	1.60				
CATA	27	1040	1105	1040	N22	E41	.699	10808	30.5	25	-B		1040	.75	1.07			251	Z
ONDR	27	1047E	1058		N20	E41	.691	10808	30.5	11D	-N	V	1049			2.70			CD

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
					LAT.	MER. DIST.												
1970 JUN																		
GRP31084	27	1247	1343	1254	S07	E38	.630	10807	30.4	56	1N		2.45				10 10 8 11	
WEND	27	1245E	1349		S07	E38	.630	10807	30.4	64D	1N	V	5.16					
MCA	27	1247	1355	1255	S09	E37	.624	10807	30.3	68	-B	C	1255	1.03	1.40		EH	
HTPR	27	1247	1355	1254	S08	E39	.646	10807	30.5	68	1N	C	1254	2.17	2.70			
RAMY	27	1247	1326	1252	S05	E37	.611	10807	30.3	39	1N	C		2.27			F	
CAPE	27	1247	1350	1257	S06	E37	.614	10807	30.3	63	1N	C	1257	1.98	2.50			
BOUL	27	1247E	1331	1251	S07	E36	.604	10807	30.2	44D	1N	V						
LVOV	27	1247	1349	1253	S06	E36	.601	10807	30.2	62	1B	C	1257	3.92	4.96		73 CEG	
CATA	27	1250	1335	1255	S07	E38	.630	10807	30.4	45	-B	C	1255	1.09	1.40		240	
CAPS	27	1250E	1337D		S08	E40	.659	10807	30.5	47D	1N	V	1252	2.00	2.80		180	
ONDR	27	1258E	1310D		S07	E38	.630	10807	30.4	12D	1F	V	1259			2.10	HC	
GRP31085	27	1248	1301	1250	N23	W11	.394	10802	26.7	13	-N		1.36				4 4 4 10	
RAMY	27	1247	1300	1249	N22	W13	.396	10802	26.6	13	-N	C		1.86			F	
CAPE	27	1248	1303	1251	N23	W12	.401	10802	26.6	15	-N	C	1251	1.61	1.80			
MCA	27	1248	1300	1250	N22	W09	.366	10802	26.9	12	-N	C	1250	.93	1.00		E	
CATA	27	1250	1300	1250	N23	W10	.387	10802	26.8	10	-N	C	1250	1.04	1.14		195	
GRP31087	27	1438	1505	1444	N22	W12	.388	10802	26.7	27	1N		1.62				7 7 5 10	
LVOV	27	1432	1500	1444	N21	W14	.392	10802	26.6	28	1N	C	1444	2.58	2.81		66 EG	
BOUL	27	1438	1500D	1447	N22	W12	.388	10802	26.7	22D	-N	V						
CATA	27	1440	1505	1443	N22	W12	.388	10802	26.7	25	-B	C	1443	.98	1.07		224 E	
HTPR	27	1441	1516	1442	N22	W10	.373	10802	26.9	35	-N	C	1442	1.44	1.50			
ONDR	27	1441E	1459		N22	W12	.388	10802	26.7	18D	2N	V	1444			2.70	CE	
LOCA	27	1444E	1505	1444	N22	W11	.380	10802	26.8	21D	-N	V	1444	1.05	1.10			
RAMY	27	1446E	1510	1446E	N22	W12	.388	10802	26.7	24D	1N	C		2.06			F	
GRP31088	27	1533	1545	1537	N21	E44	.728	10808	30.9	12	--F		.52				2 2 1 7	
RAMY	27	1531	1545	1535	N22	E44	.731	10808	30.9	14	-F	C		.52			DE	
LOCK	27	1535	1545	1538	N20	E43	.713	10808	30.9	10	-F							
GRP31089	27	1700	1735	1704	N19	E39	.664	10808	30.6	35	-B		1.25				7 7 3 7	
BOUL	27	1655E	1736	1705	N21	E39	.673	10808	30.6	41D	-B	V						
LOCK	27	1658	1740	1702	N18	E37	.636	10808	30.5	42	1B						V	
HTPR	27	1659	1728D	1704	N19	E43	.710	10808	30.9	29D	-B	C	1704	1.24	1.60			
MCA	27	1659	1733	1702	N18	E37	.636	10808	30.5	34	-B	C	1702	.77	1.00		E	
RAMY	27	1659	1732	1705	N18	E38	.648	10808	30.6	33	-B	C		1.75			F	
ONDR	27	1704E	1731		N19	E38	.652	10808	30.6	27D	1B	V	1705			3.50	CE	
CANR	27	1706	1740		N21	E43	.717	10808	30.9	34	1B	V		2.60				
090 LOCK	27	2006	2013	2009	N20	E35	.622	10808	30.5	7	--F						2	
GRP31091	27	2106	2113	2108	S09	E33	.571	10807	30.4	7	--F						2 2 0 3	
LOCK	27	2106	2112	2108	S10	E33	.575	10807	30.4	6	-F							
BOUL	27	2107E	2113	2107	S07	E32	.549	10807	30.3	6D	-N	S	2107		1.50			
GRP31093	27	2121	2129	2126	N19	E37	.640	10808	30.7	8	--F						2 2 0 3	
BOUL	27	2117	2129D	2125	N21	E37	.650	10808	30.7	12D	-N	S	2125		1.00			
LOCK	27	2124	2129	2126	N17	E37	.632	10808	30.7	5	-F							
094 LOCK	27	2217	2225	2220	S09	E85	.997	10812	4.3	8	--F						3	
095 LOCK	27	2221	2234	2227	N20	E40	.680	10808	30.9	13	--F						3	
096 LOCK	27	2310	2328	2314	N14	E35	.594	10808	30.6	18	-N						2	
GRP31099	28	0104	0147	0112	N19	E35	.616	10808	30.7	43	2B		3.78				5 3 3 5	
CRON	28	0103	0148	0107	N20	E35	.621	10808	30.7	45	1B	3	V	0107	2.27			
CULG	28	0103	0146	0109	N19	E34	.603	10808	30.6	43	2B	C	0109	4.33	5.25		VR	
MITK	28	0106	0148	0110	N19	E35	.616	10808	30.7	42	2B	C	0110	4.74	5.90			
VORO	28	0120	0139	0122	N21	E34	.614	10808	30.6	19	-B	C	0122	.93	1.10		105 D	
MANI	28	0135E	0148		N18	E34	.598	10808	30.6	13D	-N	2	0138	.83	1.23			
GRP31100	28	0301	0312	0304	N20	E35	.621	10808	30.8	11	-N		1.50				3 3 3 7	
MITK	28	0300	0314	0304	N19	E36	.628	10808	30.8	14	1N	C	0304	2.48	3.10			
VORO	28	0301	0309	0303	N22	E35	.632	10808	30.8	8	-B	C	0303	.46	.60		90 E	
TACH	28	0303E	0313		N19	E35	.616	10808	30.8	10D	-N	C	0304	1.55	1.97		60 E	
GRP31106	28	0607	0619	0612	N09	E78	.977	10813	4.1	12	-N		.32				4 4 2 7	
MANI	28	0605	0621D		N05	E80	.984	10813	4.3	16D	-N	2	0611	.41	1.13			
ISTA	28	0605	0625		N08	E80	.984	10813	4.3	20	-N							
CATA	28	0610	0615	0610	N08	E76	.969	10813	4.0	5	-N		0610	.23		195		
TEHR	28	0613E	0616D	0613	N16	E75	.965	10813	3.9	3D	1B						G	

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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	MCMATH	CMP				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.	DISTANCE										
128 LOCK	28	1847	1855	1850	N22	W33	.609 10802	26.3	8	-N					H 3		
GRP31130	28	1939	2047	2007	N20	E23	.477 10808	30.5	68	1B					4 4 3 4		
HUAN	28	1933	2045	2009	N21	E22	.474 10808	30.5	72	1N	2	C	2009	2.66	2.01	2.20	E
RAMY	28	1945	2049D	2009	N20	E22	.465 10808	30.5	64D	1B				2.89			
RAMY	28	1945	2049D	2003	N20	E22	.465 10808	30.5	64D	1B				2.89			
RAMY	28	1945	2049D	1949	N20	E22	.465 10808	30.5	64D	-B		C		.57			UF
RAMY	28	1945	2049D	2022	N20	E22	.465 10808	30.5	64D	1N				2.68			
BOUL	28	1954E	2012D	2003	N22	E22	.484 10808	30.5	18D	1B		S					
MCMA	28	2004E	2030D	2006	N18	E24	.472 10808	30.6	26D	1B		C	2006	3.09	3.50		F
31130	28	2035	2145	2035	N20	E22	.465 10808	30.5	70	*1N				.46			2 1 1 4
LOCK	28	2035	2145	2035	N20	E22	.465 10808	30.5	70	1N							
RAMY	28	2045	2052D	2048	N23	E22	.493 10808	30.5	7D	-F		V		.46			DE
GRP31137	29	0658	0730	0705	N07	W15	.268 10803	28.2	32	-N				1.57			3 3 2 4
BUCA	29	0655E	0740D		N07	W15	.268 10803	28.2	45D	-F		C	0707	2.21	2.10		
CATA	29	0700	0730	0705	N10	W15	.286 10803	28.2	30	-F			0705	.93	.97		145
ISTA	29	0700	0715		N05	W13	.228 10803	28.3	15	-B							
ISTA	29	0700	0720		N04	W15	.259 10803	28.2	20	-F							
GRP31138	29	0707	0733 (0707)		N23	E24	.514 10808	1.1	26	--F				.55			2 1 1 4
BUCA	29	0707E	0730D		N22	E22	.483 10808	30.9	23D	-F		C	0707	.55	.60		D
ISTA	29	0715	0735		N23	E25	.525 10808	1.2	20	-B							
GRP31139	29	0809	0818 (0810)		S09	E64	.905 10812	4.1	9	-N				1.21			2 2 2 3
CAPS	29	0809E	0816D		S10	E62	.891 10812	4.0	7D	1N		V	0810	1.70			182
CRON	29	0809	0818		S07	E66	.918 10812	4.3	9	-N	3	V		.72			
GRP31141	29	0944	1036	1016	S07	E61	.880 10812	4.0	52	-N				1.05			3 3 2 3
CANR	29	0944	1035	1016	S07	E62	.888 10812	4.1	51	-N	3	V			1.00		
CATA	29	1005	1040	1015	S03	E60	.868 10812	3.9	35	1N			1015	1.09	2.20		188
CAPS	29	1016E	1034		S10	E61	.883 10812	4.0	18D	-B		V	1021	1.00			220
GRP31142	29	1057	1115	1059	N19	E17	.396 10808	30.7	18	--N				.66			3 3 2 4
RAMY	29	1055	1114	1057U	N18	E18	.397 10808	30.8	19	-N		C		.62			DE
CANR	29	1057	1110		N19	E17	.396 10808	30.7	13	-N	3	V			.50		
CATA	29	1100	1120	1100	N19	E15	.374 10808	30.6	20	-N			1100	.69	.76		195
7 STATIONS REPORTING GROUP 31146. 1 STATIONS OBSERVING AND NOT REPORTING.																	
GRP31146	29	1207	1339	1212	N20	E15	.386 10808	30.6	92	1B				4.26			7 6 4 8
CANR	29	1203	1340	1212	N20	E15	.386 10808	30.6	97	1B	3	V			2.50		
RAMY	29	1205	1345	1211	N21	E14	.389 10808	30.6	100	1B		C		2.68			UF
BOUL	29	1208	1243D	1211	N21	E12	.371 10808	30.4	35D	1N		S					
LVOV	29	1209	1332	1217	N18	E17	.386 10808	30.8	83	1B		C	1213	4.13	4.49		78
KIEV	29	1209	1254	1209	N20	E14	.376 10808	30.6	45	2B		C	1209	7.22	7.60		80
CAPS	29	1211E	1406	1213	N17	E18	.387 10808	30.9	115D	1B	3	P	1228	3.00	3.30		177
HUAN	29	1214E	1325		N20	E15	.386 10808	30.6	71D	-B	1	C	1216	.88	1.00		E
31146	29	1210	1350	1232	N21	E14	.389 10808	30.6	100	*1B				3.60			2 2 2 8
RAMY	29	1205	1345	1228	N21	E14	.389 10808	30.6	100	1B		C		3.71			DE
CATA	29	1215	1355	1235	N20	E14	.376 10808	30.6	100	1B			1235	3.48	3.78		263
GRP31148	29	1410	1431	1421	N06	E58	.847 10813	3.9	21	--N				.41			5 5 3 9
MCMA	29	1406E	1431	1413	N04	E57	.838 10813	3.9	25D	-N		C	1413	.31	.60		E
BOUL	29	1407E	1430	1425	N08	E56	.829 10813	3.8	23D	-N		S					
CANR	29	1410	1425		N07	E60	.865 10813	4.1	15	-N	2	V			.80		
CATA	29	1415	1435	1425	N06	E58	.847 10813	3.9	20	-N			1425	.29	.55		199
LOCA	29	1420E	1432	1420	N07	E57	.838 10813	3.9	12D	-N		V	1420	.63	1.20		
GRP31151	29	1501	1510	1503	S11	E90	1.000 10815	6.4	9	--F							3 3 0 9
RAMY	29	1500	1502D	1502D	S09	E90	1.000 10815	6.4	2D	-F		C					DE
LOCK	29	1500	1508	1504	S10	E90	1.000 10815	6.4	8	-F							H
MCMA	29	1502	1511	1503	S13	E90	1.000 10815	6.4	9	-F		C	1503				
GRP31152	29	1507	1524	1510	N21	E19	.440 10808	1.1	17	--F				.50			3 3 1 11
LOCK	29	1503	1525	1509	N21	E18	.429 10808	1.0	22	-F							
BOUL	29	1505	1525	1510	N22	E18	.440 10808	1.0	20	-N		V					
CAPS	29	1514	1521		N19	E20	.431 10808	1.1	7	-F	3	V	1518	.50	.60		155

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION					CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	
1970 JUN																		
GRP31180	30	1231	1250	1234	N23	E07	.364	10808	1.0	19	--F							4 4 2 7
MCMA	30	1230	1308	1235	N23	E07	.364	10808	1.0	38	-F	C	1235	.62	.60			E
RAMY	30	1231	1240	1233	N23	E08	.370	10808	1.1	9	-N	C		.62				F
CANR	30	1231	1251		N22	E08	.355	10808	1.1	20	-F	V			1.00			
BOUL	30	1232	1239	1233	N22	E04	.336	10808	30.8	7	-N	V						
GRP31182	30	1450	1500	1453	N20	E05	.308	10808	1.0	10	--F			.31				2 2 1 6
LOCK	30	1450	1459	1453	N20	E04	.304	10808	30.9	9	-F							
RAMY	30	1450	1500	1452	N20	E06	.313	10808	1.1	10	-F	C		.31				DE
GRP31183	30	1532	1544	1534	S08	E42	.685	10812	3.8	12	--N			.62				4 4 1 6
BOUL	30	1530	1540	1532	S04	E39	.637	10812	3.6	100	-N	V	1532		1.00			
LOCK	30	1530	1545	1535	S10	E42	.691	10812	3.8	15	-N							
RAMY	30	1533	1541	1535	S06	E43	.692	10812	3.9	8	-N	C		.62				DE
CANR	30	1534	1545		S13	E43	.713	10812	3.9	11	-N	V			.80			
GRP31185	30	1549	1554	1549	S13	E90	1.000	10815	7.4	5	-N			.39				4 4 2 7
RAMY	30	1546E	1549D	1546E	S12	E90	1.000	10815	7.4	30	-N	C		.31				DE
MCMA	30	1549	1550D	1550	S13	E90	1.000	10815	7.4	60	-F	C	1550					
BOUL	30	1549	1553	1551	S12	E90	1.000	10815	7.4	4	-N	V						
CATA	30	1550	1555	1550	S15	E90	1.000	10815	7.4	5	-N	V	1550	.46			158	
GRP31189	30	1755	1821	1759	N22	E04	.336	10808	1.0	26	--N			.87				5 5 2 5
LOCK	30	1745	1830	1800	N22	E02	.331	10808	30.9	45	-N							
ZURI	30	1757	1810	1759	N22	E06	.344	10808	1.2	13	-N	C	1759	1.32	1.40			
MCMA	30	1757	1810	1759	N22	E05	.340	10808	1.1	13	-N	C	1759	.41	.40			E
BOUL	30	1757	1820	1759	N22	E03	.333	10808	1.0	23	-N	V						
CANR	30	1758	1834		N22	E06	.344	10808	1.2	36	-B	V			.60			
GRP31190	30	1821	1839	1826	N20	W04	.304	10808	30.5	18	--N			.64				5 5 2 5
LOCK	30	1818	1838	1826	N20	W04	.304	10808	30.5	20	-N							
CANR	30	1820	1841		N20	W04	.304	10808	30.5	21	-N	V			.50			
MCMA	30	1822	1840	1825	N20	W04	.304	10808	30.5	18	-N	C	1825	.31	.30			E
BOUL	30	1823	1838	1826	N19	W05	.292	10808	30.4	15	-N	V						
ZURI	30	1823	1829D	1825	N19	W01	.280	10808	30.7	60	-F	P	1825	.97	1.00			
191 LOCK	30	1900	1920	1907	N18	W05	.276	10808	30.4	20	--F							3
GRP31192	30	1938	1949	1941	N22	E02	.331	10808	1.0	11	--F							2 2 0 3
LOCK	30	1937	1949	1942	N22	E02	.331	10808	1.0	12	-F							
BOUL	30	1938	1948	1939	N21	E01	.314	10808	30.9	10	-F	V	1939	.50				
194 LOCK	30	1951	2005	1955	S06	E40	.655	10812	3.8	14	--F							3
GRP31195	30	2135	2147	2137	N22	E02	.331	10808	1.0	12	--N			.58				4 4 2 4
LOCK	30	2122	2137	2125	N19	W06	.297	10808	30.4	15	-F							
LOCK	30	2134	2147	2137	N22	E01	.330	10808	1.0	13	-N							
MCMA	30	2135	2141	2136	N22	E02	.331	10808	1.0	6	-N	C	2136	.31	.30			E
VORO	30	2135	2143	2137	N23	E01	.347	10808	1.0	8	-B	C	2137	.84	.90		109	EJ
BOUL	30	2137	2155	2139	N22	E05	.340	10808	1.3	18	-F	S	2139	.50	.50			
GRP31197	30	2217	2237	2222	S14	W69	.942	10800	25.8	20	--F							2 2 0 4
LOCK	30	2217	2235	2220	S13	W68	.935	10800	25.8	18	-F							
BOUL	30	2223E	2239	2223	S15	W69	.943	10800	25.8	160	-N	S	2223	.50				
GRP31198	30	2244	2254	2245	N22	E01	.330	10808	1.0	10	--F			.31				2 2 1 4
BOUL	30	2244	2257D	2245	N22	W01	.330	10808	30.9	13D	-N							
MCMA	30	2244	2251		N22	E02	.331	10808	1.1	7	-F	C	2247	.31	.30			E
199 LOCK	30	2303	2315	2307	N20	W02	.299	10808	30.8	12	--F							2
200 LOCK	30	2303	2350	2320	S08	E41	.673	10812	4.0	47	--F							3

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
700601	363.73	24.0	700613	294.69	24.0	700622	6.45	24.0
700602	58.06	24.0	700614	950.96	24.0	700623	4.56	24.0
700603	3.05	24.0	700615	418.86	24.0	700624	47.40	24.0
700606	3.02	24.0	700616	772.52	24.0	700625	359.75	24.0
700607	6.02	24.0	700617	220.50	23.9	700626	176.81	24.0
700608	13.27	24.0	700618	83.62	24.0	700627	120.68	24.0
700609	62.37	24.0	700619	47.28	24.0	700628	175.85	24.0
700610	62.25	24.0	700620	31.69	24.0	700629	125.22	24.0
700611	86.30	24.0	700621	38.81	24.0	700630	135.34	24.0
700612	360.60	24.0						

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

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SOLAR FLARES

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OBSERVATORY	OBSERVED UT			MAX. PHASE	LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END		APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
415 TEHR	02	0515E	0600D		S05	W79	.982 10760	27.3	45D	-F						8
417 TEHR	02	0640	0650D		N18	W64	.910 10761	28.5	10D	-F						8
419 CAPF	02	1128	1140		S03	E47	.732 10771	6.0	12	1F	P	1131	2.06	3.20		7
GRP30420	02	1316	1338	1319	N09	W34	.576 10763	31.0	22	-F			.34			2 2 2 9
HUAN	02	1315	1338	1319	N08	W33	.559 10763	31.1	23	-F	2 C	1319	.37	.40		D
MEUD	02	1317	1321D		N09	W35	.590 10763	30.9	40	-F	C	1319	.31	.40		
422 LOCK	02	1451	1510	1456	S08	W78	.978 10760	27.8	19	-F						Y 6
423 BOUL	02	1858	1912	1901	N17	W04	.309 10767	2.5	14	-F	V					3
GRP30425	03	0520	0540	0525	N09	W39	.642 10763	31.3	20	-N			.29			2 1 1 6
CATA	03	0520	0540D	0525	N09	W39	.642 10763	31.3	20D	-N		0525	.29	.38	174	
MANI	03	0537	0547	0540	N11	W40	.661 10763	31.2	10	-F	2	0540	.72	.97		
430 BOUL	03	1747	1814D	1752	N22	E90	1.000 10775	10.5	27D	1N	V					4
432 BOUL	03	1911E	1936	1914	S20	E90	1.000 10774	10.5	25D	1N	V					2
435 MANI	04	0656	0700D		S07	W81	.988 10762	29.2	4D	-N	2	0700	.26	.68		7
436 CAPS	04	0701E	0708D		N20	W90	1.000 10761	28.5	7D	-N	V					C 6
437 CAPF	04	0716	0730		S09	W27	.473 10764	2.3	14	-F	P	0719	1.03	1.70		H 9
438 CRON	04	0725	0741		S02	E87	.999 10774	10.8	16	-N	3 V		.31			10
440 MEUD	04	0842	0847	0842	S08	E80	.985 10774	10.4	5	-F	C	0842	.31			5
441 MEUD	04	0847	0855	0850	S19	E88	.999 10774	11.0	8	-F	C	0850	.31			6
442 MEUD	04	0856	0913	0908	S08	E79	.982 10774	10.3	17	-F	C	0908	.31			7
444 BOUL	04	1525	1545	1528	N02	E17	.295 10771	5.9	20	-F	V	1528		.50		4
445 BOUL	04	1530	1545	1531	S11	E81	.988 10774	10.7	15	-F	V	1531		1.00		5
446 BOUL	04	1929	1935	1930	S02	E83	.993 10777	11.0	6	-N	V	1930		.50		3
447 BOUL	04	2118	2128	2119	N08	W62	.886 10763	31.2	10	-F	S	2119		.50		5
448 LOCK	04	2140	2145	2142	N08	W70	.941 10763	30.7	5	-F						5
449 MANI	04	2232E	2257		N08	W69	.935 10763	30.8	25D	-N	2	2254	.21	.44		4
450 CAPS	05	0810E	0825D		S10	E90	1.000 10785	12.1	15D	-N	V					A 10
451 CAPS	05	0838	0848		N12	W72	.953 10763	31.0	10	-F	V	0842	.20		155	D 7
453 BOUL	05	2008	2030	2010	N20	W24	.515 10772	4.0	22	-F	V	2010		.30		4
454 MITK	06	0303E	0310		N16	W90	1.000 10763	30.4	7D	1N	C	0304	.93			Y 7
455 ABST	06	0500E	0532D	0504U	N17	E80	.986 10780	12.2	32D	1F	P	0504	.90			D 7
456 TEHR	06	0535E	0535D		N04	E77	.975 10780	12.0		-B						T 9
458 RAMY	06	1058	1114	1059	S11	E52	.796 10774	10.4	16	-F	C		.31			DE 4
GRP30459	06	1212	1254	1220	N11	W90	1.000 10763	30.8	42	-B						2 2 0 8
RAMY	06	1212	1246	1220	N12	W90	1.000 10763	30.8	34	-N	C					DE
CAPS	06	1212E	1301D		N10	W90	1.000 10763	30.8	49D	-B	3 V					
460 CAPS	06	1446E	1522D		N10	W90	1.000 10763	30.9	36D	-N	3 V					7
461 BOUL	06	1525E	1549	1535	N08	W90	1.000 10763	30.9	24D	1N	S					7
GRP30463	06	1605	1700	1631	N12	W90	1.000 10763	30.9	55	-F						2 2 0 7
LOCK	06	1605	1650	1630	N11	W90	1.000 10763	30.9	45	-F						
BOUL	06	1623E	1633	1631	N08	W90	1.000 10763	30.9	10D	-N	V					
LOCK	06	1634	1655	1639	N24	W90	1.000 10763	30.9	21	-F						
BOUL	06	1640	1705	1645	N06	W90	1.000 10763	30.9	25	-N	V					
464 BOUL	06	1633	1715D	1637	N23	E90	1.000 10781	13.4	42D	1B	V	1637		4.50		7
465 BOUL	06	1728	1747	1738	N08	W90	1.000 10763	31.0	19	-N	V					7

SOLAR FLARES

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OBSERVATORY	OBSERVED UT			MAX. PHASE	LOCATION				DURATION MIN.	IMPOR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS						
	DATE	START	END		APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH FLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hd		MAX. INT. %					
467 CRON	07	0240	0244		S19	E32	.598	10774	9.5	4	-F	3	V		.31					5			
GRP30468	07	0554	0602	0554	S06	E45	.711	10774	10.6	8	-F				.47				2	2	2	9	
MANI	07	0551	0600	0554	S05	E46	.722	10774	10.7	9	-N	2		0554	.41	.60							
CRON	07	0556	0604		S06	E43	.686	10774	10.5	8	-F	3	V		.52								
470 RAMY	07	1105	1123		N22	E90	1.000	10781	14.2	18	-N		C							DE	8		
471 RAMY	07	1117	1144		N13	E88	.999	10781	14.1	27	-N		C							DE	7		
472 RAMY	07	1206	1227		N17	E90	1.000	10781	14.3	21	-N		C							DE	6		
GRP30473	07	1238	1256	1243	N15	E60	.876	10780	12.0	18	-F				.70				2	2	1	8	
RAMY	07	1234	1300	1243	N17	E60	.878	10780	12.0	26	-F		C							DE			
CAPS	07	1241	1251		N13	E60	.873	10780	12.0	10	-F		V	1243	.70			155					
474 RAMY	07	1419	1434		N17	E90	1.000	10781	14.3	15	-N		C							DE	9		
GRP30475	07	1442	1459	1447	N16	E87	.999	10781	14.1	17	-N									2	2	0	8
RAMY	07	1438	1459		N17	E90	1.000	10781	14.4	21	-N		C							DE			
BOUL	07	1445	1453D	1447	N15	E83	.993	10781	13.8	8D	-N		S										
476 RAMY	07	1511	1535		N17	E90	1.000	10781	14.4	24	-N		C							DE	8		
478 RAMY	07	1719	1737		N14	E80	.986	10781	13.7	18	-F		C							DE	5		
483 CRON	08	0210	0213		N16	E56	.843	10780	12.3	3	-N	3	V		.21							4	
485 ISTA	08	0610	0640		N13	E77	.976	10781	14.0	30	-F											8	
486 TEHR	08	0702E	0706D		N17	E51	.798	10780	12.1	4D	-F											9	
GRP30487	08	0740	0818	0805	S09	E29	.504	10774	10.5	38	1N									2	2	0	11
ISTA	08	0740	0755		S10	E33	.564	10774	10.8	15	1N												
TEHR	08	0750E	0840D	0805	S07	E28	.482	10774	10.4	50D	2N									GE			
TEHR	08	0750E	0840D	0805	S10	E22	.409	10774	10.0	50D	2F									GE			
488 CRON	08	0754	0848		S10	E75	.967	10787	14.0	54	1N	3	V		2.58							10	
489 TEHR	08	0805E	0811D		S33	W09	.562	10783	7.7	6D	-F									GE		11	
490 TEHR	08	0805	0820D		N17	E51	.798	10780	12.2	15D	-F											11	
491 TEHR	08	0855E	0905D		N15	E70	.944	10781	13.6	10D	-F									Z		9	
492 TEHR	08	0910E	0923D		N16	E76	.972	10781	14.1	13D	-F									Z		8	
493 TEHR	08	0923E	0929D	0925	N16	E48	.765	10780	12.0	6D	-N									E		8	
494 RAMY	08	1207	1224	1209	S17	E33	.598	10774	11.0	17	-F		C		.31					DE		6	
505 CRON	09	0114	0119		N13	E62	.889	10781	13.7	5	-N	2	V		.41							4	
506 CULG	09	0507	0514D		N25	E72	.959	10781	14.6	7D	1N		P	0514	1.24							8	
507 CRON	09	0521	0550		N23	E74	.967	10781	14.8	29	1F	3	V		1.44							7	
508 TEHR	09	0650	0706D		N17	E38	.656	10780	12.1	16D	-F											7	
509 TEHR	09	0709E	0745D		N16	W80	.986	10772	3.3	36D	-F									G		8	
511 TEHR	09	0810E	0815D		N16	E37	.639	10780	12.1	5D	-F											6	
512 TEHR	09	0825	0840D		N16	E37	.639	10780	12.1	15D	-F											4	
520 RAMY	09	1659	1712	1703	S16	E14	.364	10774	10.8	13	-F		C		.15					DE		5	
529 CRON	10	0510	0519		S08	W01	.147	10774	10.1	9	-N	2	V		1.34							4	
530 CULG	10	0525E	0530D		S10	E04	.193	10774	10.5	5D	1N		P	0525	2.48	2.40						4	
531 TEHR	10	0540E	0610D	0550	S20	E08	.372	10774	10.8	30D	2N									E		6	
532 TEHR	10	0540E	0610D	0550	S13	E05	.247	10774	10.6	30D	2N									E		6	
GRP30533	10	0545	0624	0606	N16	E25	.488	10780	12.1	39	1N				.40					2	2	1	6
TEHR	10	0545E	0637D	0606	N17	E27	.520	10780	12.3	52D	2N									H			
CAPS	10	0607	0611		N14	E22	.433	10780	11.9	4	-N		V	0609	.40	.50		189					

SOLAR FLARES
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OBSERVATORY	OBSERVED UT			MAX. PHASE	LOCATION				DURATION MIN.	IMPOR. TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS				
	DATE	START	END		APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha	MAX. INT. %		
592 CRON	12	0212	0217		S16	W18	.412	10774	10.7	5	-F	3	V		.31					3
593 CRON	12	0216	0225		N17	E63	.899	10789	16.8	9	-N	3	V		.62					3
594 ABST	12	0308	0330	0310	N17	E71	.949	10789	17.5	22	1N		C	0310	1.79			58	F	5
595 CRON	12	0337	0411		N25	E31	.624	10781	14.5	34	-N	3	V		.41					4
597 ONDR	12	0535E	0554	0543	N19	E65	.915	10789	17.1	190	1N		V	0543			2.60		CEK	7
599 CANR	12	0812	0830		N17	W03	.286	10780	12.1	18	-N	2	V			.40				13
600 CRON	12	0814	0836		N17	E23	.468	10781	14.1	22	-F	2	V		.52					12
601 CANR	12	0827	0827D		S15	W21	.438	10774	10.8		-N	2	V			.30				12
602 ZURI	12	0835	0842	0840	N19	E63	.901	10789	17.1	7	-N		C	0840	.71					13
603 CANR	12	0930	0930D		S15	W22	.451	10774	10.7		-N	3	V			.40				10
604 CATA	12	0935	0940	0935	S18	W22	.478	10774	10.7	5	-N			0935	.58	.66		186		10
606 CANR	12	1030	1040		N13	E15	.331	10781	13.6	10	-N	2	V			.40				11
609 CANR	12	1208	1208D		N17	E63	.899	10789	17.2		-N	2	V			.50				11
GRP30610	12	1223	1228	1224	N16	W04	.273	10780	12.2	5	-N				.31				2 2 1	9
CANR	12	1222	1228		N16	W04	.273	10780	12.2	6	-N	2	V			.50				
MCMA	12	1223	1226D	1224	N15	W04	.257	10780	12.2	30	-N		C	1224	.31	.40			E	
GRP30611	12	1225	1250	1229	N20	E60	.881	10789	17.0	25	-F				.72				2 2 2	10
RAMY	12	1225	1245	1229	N21	E60	.882	10789	17.0	20	-F		C		.72				DE	
MCMA	12	1233E	1255D		N19	E60	.879	10789	17.0	220	-F		P	1235	.72	1.50			E	
613 MCMA	12	1339	1342D		N16	E12	.332	10781	13.5	30	-F		P	1341	.31	.40			E	9
GRP30617	12	1554	1615	1555	S20	W20	.477	10774	11.2	21	-F				.88				2 2 2	11
RAMY	12	1553	1610	1555	S20	W20	.477	10774	11.2	17	-F		C		.83				DE	
HTPR	12	1554	1620		S20	W20	.477	10774	11.2	26	-F		C	1600	.93	1.00				
623 MCMA	12	1853E	1907		S14	E71	.950	10791	18.1	140	-F		C	1855	.26	.70			E	5
625 BOUL	12	1926	1933D	1928	N20	E63	.903	10789	17.5	70	-N		S	1928		.50				4
626 HUAN	12	1935	1945	1937	N19	E58	.863	10789	17.2	10	-N	2	C	1937	.31	.60			E	4
634 CULG	13	0018	0039	0028	S13	W79	.983	10783	7.1	21	1N		C	0028	.62					4
637 KODA	13	0200E	0206D		N16	W38	.649	10775	10.2	60	1F		P	0206	2.52	2.50			CE	5
641 TEHR	13	0500E	0510D	0510	S12	W81	.989	10783	7.1	100	-F								T	8
643 TEHR	13	0510	0530D		N14	W38	.641	10775	10.4	200	1F									9
644 TEHR	13	0520	0537D	0525	S12	W81	.989	10783	7.1	170	1N									9
645 TEHR	13	0555	0602D		N16	W39	.661	10775	10.3	70	1F									9
647 TEHR	13	0605	0612D		S15	W31	.566	10774	10.9	70	-F									9
649 TEHR	13	0725	0745D		N17	E10	.325	10781	14.1	200	-F								E	11
GRP30652	13	0836	0852	0841	N20	E48	.774	10789	17.0	16	-F				1.03				2 2 1	11
HTPR	13	0836	0852	0842	N18	E45	.736	10789	16.7	16	-F		C	0842	1.03	1.80				
TEHR	13	0836	0850D	0840	N22	E51	.809	10789	17.2	140	1N								Z	
GRP30653	13	0915	0923		N20	E20	.461	10781	14.9	8	2F								1 1 0	8
TEHR	13	0915E	0923D		N21	E19	.461	10781	14.8	80	2F								E	
TEHR	13	0915E	0923D		N20	E22	.483	10781	15.0	80	2F									
GRP30656	13	1030	1125	1046	S09	E90	1.000	10792	20.2	55	-N				1.04				2 2 1	9
CATA	13	1030E	1125	1046	S08	E90	1.000	10792	20.2	550	1N			1046	1.04			200		
CAPS	13	1042E	1114D		S10	E90	1.000	10792	20.2	320	-N	3	S							
658 CANR	13	1118	1123		N16	E04	.271	10781	13.8	5	-N	3	V			.30				10
659 CANR	13	1121	1124		N19	E52	.810	10789	17.4	3	-N	3	V			.40				9
660 RAMY	13	1125	1128D	1127	N16	E05	.276	10781	13.9	30	-F		C		.31				DE	9

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	DATE 1970 JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
662 HTPR	13	1135	1155		N15	E05	.260	10781	13.9	20	-F	C	1145	1.86	1.80			10
663 HUAN	13	1157	1210	1200	N19	E43	.718	10789	16.7	13	-F	2 C	1200	.14	.50			E 10
GRP30669	13	1413	1623		S11	W90	1.000	10783	6.8	130	-N							2 2 0 10
BOUL	13	1413	1625D	1448	S12	W90	1.000	10783	6.8	132D	-N	V						
RAMY	13	1459	1510	1505	S10	W90	1.000	10783	6.9	11	-F	C						DE
RAMY	13	1611	1620	1613	S11	W89	1.000	10783	7.0	9	-N	C						DE
GRP30672	13	1505	1526	1511	N18	E44	.726	10789	16.9	21	-F			.59				2 2 2 10
SANM	13	1504	1526	1510	N17	E42	.700	10789	16.8	22	-F	1 C		.65	.90			E
MCMA	13	1506	1525	1511	N17	E43	.711	10789	16.9	19	-F	C	1511	.52	.70			E
SANM	13	1524	1533	1526	N19	E48	.771	10789	17.2	9	-N	1 C		.65	1.05			E
675 MCMA	13	1630	1647	1633	N15	W47	.749	10775	10.2	17	-F	C	1633	.31	.50			D 8
677 RAMY	13	1659	1711	1701	S11	W89	1.000	10783	7.0	12	-F	C						DE 7
680 SANM	13	1845	1850	1847	N20	E42	.711	10789	16.9	5	-F	1 C		.32	.45			D 5
682 RAMY	13	1928	1937	1931	N16	W02	.265	10781	13.7	9	-N	C		.21				DE 4
696 TACH	14	0449	0502	0454	N20	W02	.329	10781	14.1	13	-B	C	0454	1.83	1.92		100	ETZ 6
GRP30700	14	0620	0635	0625	N21	E48	.776	10789	17.9	15	-B			.46				2 2 1 12
CATA	14	0620	0635	0625	N21	E48	.776	10789	17.9	15	-B		0625	.46	.72		263	
TEHR	14	0620	0635D		N20	E47	.763	10789	17.8	15D	-N							
GRP30702	14	0722	0749		N17	W06	.295	10781	13.9	27	-N							2 2 0 10
TEHR	14	0640	0643D		N17	W03	.282	10781	14.1	3D	-F							
TEHR	14	0642	0700D		N16	W07	.286	10781	13.8	18D	-N							Z
ISTA	14	0644	0745		N15	W08	.279	10781	13.7	61	-N							
ISTA	14	0713	0722		N19	W05	.322	10781	13.9	9	-F							
TEHR	14	0730	0733D		N16	W06	.280	10781	13.9	3D	1N							Z
TEHR	14	0733	0752D	0737	N17	W04	.286	10781	14.0	19D	-F							E
TEHR	14	0750E	0755D		N16	W06	.280	10781	13.9	5D	-F							
707 RAMY	14	1030E	1047		S09	E77	.976	10792	20.2	17D	-N	C						DE 7
709 RAMY	14	1056	1119	1102	N16	W33	.586	10780	12.0	23	-F	C		.41				DE 6
711 RAMY	14	1131	1144	1136	N17	W09	.316	10781	13.8	13	-F	C		.62				DE 8
GRP30712	14	1148	1210	1149	N19	E38	.661	10789	17.3	22	1F			.62				2 2 1 8
MCMA	14	1144	1209	1149	N19	E37	.650	10789	17.3	25	-N	C	1149	.62	.80			E
ONDR	14	1151	1211		N18	E39	.668	10789	17.4	20	2F	V	1152			3.10		FI
716 MCMA	14	1357	1430	1400	N18	W08	.323	10781	14.0	33	-F	C	1400	.46	.50			E 10
719 SANM	14	1643	1652	1645	N18	E43	.714	10789	17.9	9	-N	1 C		.32	.45			D 6
725 SANM	14	1940	1955	1947	S07	E68	.929	10792	19.9	15	-F	1 C		.32				D 4
738 CRON	15	0535	0549		N20	E32	.596	10789	17.6	14	-N	3 V		.62				4
740 TEHR	15	0650	0654D		N19	W17	.415	10781	14.0	4D	-F							12
741 TEHR	15	0705E	0720D		N16	W16	.371	10781	14.1	15D	-F							11
742 TEHR	15	0717	0721D		N17	W19	.416	10781	13.9	4D	-F							12
GRP30743	15	0720	0735		N19	E29	.554	10789	17.5	15	-B							2 2 0 13
TEHR	15	0647E	0733D		N17	E27	.515	10789	17.3	46D	-N							
TEHR	15	0700	0705D		N19	E33	.602	10789	17.8	5D	-F							
ISTA	15	0720	0735		N19	E26	.518	10789	17.3	15	-B							
TEHR	15	0720	0733D		N18	E28	.535	10789	17.4	13D	-B							
TEHR	15	0727	0734D	0729	N21	E34	.626	10789	17.9	7D	-N							
749 CANR	15	0935	0941	0936	N16	W20	.419	10781	13.9	6	-N	3 V			.40			12
GRP30751	15	1140	1150	1141	S08	E58	.853	10792	19.8	10	-N			.62				2 2 1 9
RAMY	15	1138	1151	1141	S08	E58	.853	10792	19.8	13	-N	C		.62				DE
CANR	15	1142	1148		S08	E58	.853	10792	19.8	6	-N	2 V			.50			
756 WEND	15	1317	1334		N15	W14	.337	10781	14.5	17	1F	P		3.09				14
GRP30757	15	1355	1403	1357	S08	E58	.853	10792	19.9	8	-F							2 2 0 11
BOUL	15	1354	1403	1357	S07	E57	.843	10792	19.9	9	-F	V						
CANR	15	1355	1403		S08	E58	.853	10792	19.9	8	-F	2 V			.50			

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
GRP30758 BOUL HUAN	1970 JUN	15	1442	1457	1444	N17	W25	.490	10781	13.7	15	-F						2 2 1 10
		15	1442	1459	1444	N17	W23	.465	10781	13.9	17	-F	V					
		15	1442	1455	1443	N16	W26	.495	10781	13.7	13	-N	2 C	1443	.25	.30		
759 RAMY	15	1456E	1456D		N20	E28	.549	10789	17.7			-N	V					DE 13
763 LOCK	15	1650	1701	1654	N13	W46	.733	10780	12.3	11	-F							7
774 CRON	15	2317	2326		S10	E67	.924	10792	21.0	9	-N	1 V		.62				5
779 KODA	16	0258	0305D	0301	N19	E14	.383	10789	17.2	70	1N	P	0258	2.21	2.20	1.48		CE 5
782 TEHR	16	0538	0544D	0539	N14	W34	.588	10781	13.7	60	-F							Z 10
785 TEHR	16	0615	0635D		N15	W29	.527	10781	14.1	200	-F							H 11
786 TEHR	16	0653	0655D		N14	W34	.588	10781	13.7	20	-F							10
788 TEHR	16	0800	0815D	0803	N18	E17	.403	10789	17.6	150	-F							Z 13
789 TEHR	16	0810E	0817D	0815	N18	E12	.352	10789	17.2	70	-F							Z 13
791 TEHR	16	0816E	0830D	0820	N18	E16	.392	10789	17.5	140	1B							ZHT 13
793 CANR	16	1116	1122	1117	N17	W34	.602	10781	13.9	6	-N	3 V			.50			7
GRP30794 CANR ZURI	16	1201	1207	1203	N15	W09	.284	10781	15.8	6	-N			.84				2 2 1 8
	16	1159	1208		N15	W07	.267	10781	16.0	9	-N	1 V			.50			
	16	1202	1206	1203	N14	W10	.280	10781	15.8	4	-N	C	1203	.84	.90			
795 LVOV	16	1202	1235	1213	S14	E57	.852	10792	20.8	33	1F	C	1216	2.58	4.17		58	BE 9
GRP30801 BOUL MCMA	16	1559	1642	1600	N23	E09	.400	10789	17.3	43	-F			.83				2 2 1 6
	16	1559E	1638	1600	N24	E08	.409	10789	17.3	390	-F	V	1600		2.00			
	16	1603E	1645		N22	E10	.391	10789	17.4	420	-N	C	1610	.83	.90			F
802 BOUL	16	1629E	1653	1629	N18	E61	.884	10796	21.3	240	-F	V						3
806 BOUL	16	1854	1905	1856	N03	E38	.616	10805	19.6	11	-F	V						3
815 MANI	17	0439	0458		S09	E75	.968	10798	22.8	19	-N	2	0442	.21	.47			5
816 TEHR	17	0522E	0605D	0605	N18	W03	.293	10789	17.0	430	-F							Z 7
817 TEHR	17	0524E	0530D		N19	W02	.307	10789	17.1	60	-F							7
818 TEHR	17	0533	0550D		N19	E40	.682	10805	20.2	170	-F							7
819 TEHR	17	0538E	0558D	0545	N18	E02	.290	10789	17.4	200	-F							7
820 TEHR	17	0545	0550D		N20	E01	.322	10789	17.3	50	-F							7
822 TEHR	17	0605	0615D	0607	N19	E04	.312	10789	17.6	100	-F							7
826 CANR	17	0758	0810		N01	E31	.515	10795	19.7	12	-N	2 V			.30			11
827 MONT	17	0941	1011	0958	N20	W09	.354	10789	16.7	30	-N	C	0958	.77				5
828 CANR	17	1051	1100	1052	N19	W03	.309	10789	17.2	9	-N	3 V			.60			6
GRP30829 CANR ZURI	17	1110	1121	1113	N14	W21	.413	10781	15.9	11	-F			1.26				2 2 1 6
	17	1110	1120	1112	N14	W20	.399	10781	16.0	10	-N	3 V			.50			
	17	1110	1122	1114	N14	W21	.413	10781	15.9	12	-F	C	1114	1.26	1.40			
833 CAPS	17	1210E	1228D		N22	E90	1.000	10799	24.3	180	-N	2 V						6
838 CANR	17	1656	1710		N18	W06	.305	10789	17.3	14	-F	1 V			.40			4
843 LOCK	17	2243	2257	2248	N18	W80	.985	10780	11.9	14	-F							6
847 CULG	18	0309E	0419	0331	N19	W12	.362	10789	17.2	700	1N	P	0331	2.37	2.53			H 7
849 TEHR	18	0520E	0527D		N13	W61	.879	10781	13.6	70	1F							6
850 TEHR	18	0523	0526D	0524	N13	W28	.501	10789	16.1	30	1F							6

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OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H α
1970 JUN																	
GRP30912	20	0525	0549	0532	N17	W45	.729	10789	16.9	24	-N						2 2 1 9
TEHR	20	0525	0600	0532	N16	W45	.727	10789	16.9	35D	-N		.31				
TEHR	20	0532	0600		N16	W44	.715	10789	16.9	28D	-F						
CRON	20	0533	0537		N17	W47	.751	10789	16.7	4	-N	2 V	.31				
TEHR	20	0537E	0610D		N19	W42	.703	10789	17.1	33D	-F						
913 CRON	20	0533	0541		N09	E88	.999	10801	26.8	8	-N	2 V	.21				10
914 CRON	20	0543	0547		N09	E88	.999	10801	26.8	4	-N	2 V	.41				9
915 TEHR	20	0658	0710D	0702	S11	W68	.932	10786	15.2	12D	-F						9
919 MCMA	20	1442	1447	1443	N14	E88	.999	10801	27.2	5	-F	C	1443				D 6
920 LOCK	20	1535	1548	1540	N22	E85	.996	10802	27.0	13	-F						7
921 CANR	20	1536	1553		N15	W49	.768	10789	17.0	17	-N	2 V		.60			7
922 CANR	20	1536	1550		N08	E76	.970	10801	26.4	14	-F	2 V		1.20			7
923 BOUL	20	1649	1654	1650	N28	W54	.847	10789	16.7	5	-F	V					8
924 ONDR	20	1732E	1737		N14	E80	.985	10801	26.7	5D	-B	V	1734		2.30		CD 8
925 LOCK	20	1740	1810	1752	N22	E85	.996	10802	27.1	30	-F						5
930 CRON	21	0307	0321		N17	W57	.848	10789	16.9	14	-N	3 V		.41			4
931 CRON	21	0307	0311		N12	E77	.974	10801	26.9	4	-F	3 V		.41			4
933 CRON	21	0443	0456		N20	E78	.979	10802	27.0	13	-N	3 V		.31			3
935 TEHR	21	0515E	0515D		S13	E10	.305	10797	22.0		1N						H 6
936 TEHR	21	0543	0549D		N20	W44	.728	10789	17.9	6D	-F						E 7
937 TEHR	21	0549	0605D	0553	N16	W58	.856	10789	16.9	16D	-N						E 7
938 ISTA	21	0555	0635		S14	E10	.319	10797	22.0	4D	-B						8
940 ONDR	21	0846E	0852		N14	E39	.649	10799	24.3	6D	1F	V	0847		2.10		CE 8
942 WEND	21	1119	1128		N18	E55	.832	10801	25.6	9	-N						6
943 WEND	21	1129	1134		N17	E61	.882	10801	26.1	5	-N						6
944 LVOV	21	1158	1224	1202	N16	W54	.820	10789	17.4	26	1F	C	1202	1.34	3.17	53	BE 7
946 BOUL	21	1628E	1641	1628	S12	E02	.239	10797	21.8	13D	-N	S					6
950 CRON	21	2336	2339		N13	E64	.901	10801	26.8	3	-N	1 V		.52			3
955 TEHR	22	0547	0620D	0555	N10	E60	.867	10801	26.7	33D	-F						10
GRP30956	22	0726	0755		N19	W71	.948	10789	17.0	29	-F						2 2 0 13
TEHR	22	0725	0730D		N18	W73	.958	10789	16.8	5D	-F						Z
ISTA	22	0726	0755		N19	W71	.948	10789	17.0	29	-N						
TEHR	22	0730	0755D		N19	W68	.931	10789	17.2	25D	-F						
GRP30957	22	0833	0853	0837	N16	W90	1.000	10781	15.6	20	-F			1.20			2 2 2 10
CAPE	22	0831	0850	0838	N18	W90	1.000	10781	15.6	19	-F	C	0838	1.01			A
CATA	22	0835	0855	0835	N14	W90	1.000	10781	15.6	20	1F		0835	1.39		138	A
958 CATA	22	1025E	1050D	1025	S03	E90	1.000	10804	29.2	25D	1F		1025	1.73		126	A 10
GRP30959	22	1222	1232	1223	N20	W59	.869	10789	18.1	10	-F			.31			2 2 1 12
RAMY	22	1220E	1236	1223	N19	W59	.868	10789	18.1	16D	-F	C		.31			DE
CANR	22	1223	1228		N20	W59	.869	10789	18.1	5	-F	3 V		.60			
962 BOUL	22	1647E	1655	1651	N10	E49	.759	10801	26.4	8D	-N	V					8
963 BOUL	22	1702E	1709	1702	N10	E48	.748	10801	26.3	7D	-N	V					7
GRP30965	22	1800	1813	1804	N10	E50	.770	10801	26.5	13	-F			.31			2 2 1 6
RAMY	22	1800	1814	1804	N10	E49	.759	10801	26.4	14	-F	C		.31			DE
CANR	22	1800	1812		N09	E50	.769	10801	26.5	12	-F	2 V		.50			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
	1970 JUN																	
GRP30967	22	1914	1924	1916	N09	E47	.735	10801	26.3	10	-F							2 2 1 6
BOUL	22	1913	1919	1915	N10	E47	.736	10801	26.3	6	-N							
RAMY	22	1914	1928	1916	N08	E47	.734	10801	26.3	14	-F	V						DE
968 BOUL	22	2102	2115D	2103	N10	E46	.724	10801	26.3	13D	-F	V						4
970 TACH	23	0346E	0353D	0348	N08	E42	.672	10801	26.3	7D	-N	C	0348	.91	1.23		56	E 4
971 TACH	23	0524	0528	0524	N10	E42	.676	10801	26.4	4	-F	C	0524	.64	.87		48	D 6
972 TEHR	23	0625	0702D	0629	N09	E47	.735	10801	26.8	37D	1F							K 12
973 TEHR	23	0627	0650D		N10	E47	.736	10801	26.8	23D	-F							12
974 TEHR	23	0629	0650D	0631	N22	E51	.803	10802	27.1	21D	-F							HK 12
975 TEHR	23	0630	0633D		N08	E40	.647	10801	26.3	3D	-F							12
976 TEHR	23	0632E	0650D		N19	W75	.967	10789	17.6	18D	-N							E 12
977 TEHR	23	0710	0730D	0715	N22	E42	.713	10802	26.4	20D	-F							H 11
978 TEHR	23	0710E	0740D	0715	N19	W75	.967	10789	17.7	30D	1F							E 11
979 TEHR	23	0745E	0810D	0748	N22	E42	.713	10802	26.5	25D	-B							H 8
980 RAMY	23	1120	1138	1123	N10	E42	.676	10801	26.6	18	-F	C		.72				DE 12
981 CAPS	23	1244E	1342D		S12	E90	1.000	10807	30.3	58D	1N	3	V					12
982 BOUL	23	1341E	1350	1345	N05	E62	.882	10803	28.2	9D	-F	V						10
GRP30983	23	1400	1420	1408	S11	E90	1.000	10807	30.3	20	-F							2 2 0 7
BOUL	23	1400	1418	1408	S09	E90	1.000	10807	30.3	18	-N	V						
RAMY	23	1410E	1421		S12	E90	1.000	10807	30.3	11D	-F	C						DE
984 RAMY	23	1449	1457		S12	E90	1.000	10807	30.4	8	-N	C						DE 6
986 RAMY	23	1807E	1833D		N19	E40	.678	10802	26.8	26D	-F	C						DE 5
987 LOCK	23	1810	1910	1825	S08	E90	1.000	10807	30.5	6D	-F							5
988 RAMY	23	2116	2143D	2120U	N10	E38	.624	10801	26.7	27D	-F	C		.52				DE 5
991 MANI	24	0002	0023		N09	E37	.608	10801	26.8	21	-F	2	0004	.31	.39			4
992 CRON	24	0127	0140		S08	E85	.997	10807	30.4	13	-N	3	V	.21				4
993 LOCK	24	0130	0140	0133	N14	W39	.647	10796	21.1	10	-F							4
994 LOCK	24	0130	0155	0140	N21	E39	.675	10802	27.0	25	-F							4
995 CRON	24	0141	0155		N08	E34	.564	10801	26.6	14	-N	3	V	.21				5
996 CRON	24	0240	0306		N11	E34	.572	10801	26.7	26	-F	3	V	.52				4
997 CRON	24	0453	0501		N09	E32	.538	10801	26.6	8	-F	2	V	.52				6
GRP30998	24	0600	0615		S02	W18	.316	10798	22.9	15	1N							1 1 0 8
TEHR	24	0600E	0605D		S03	W19	.336	10798	22.8	5D	1N							
TEHR	24	0600E	0615D		S02	W18	.316	10798	22.9	15D	1N							
000 ABST	24	0615E	0616D	0615U	N06	E26	.442	10801	26.2	1D	-F	P	0615	1.79	2.00		46	E 7
001 TEHR	24	0625E	0655D		N06	E40	.644	10803	27.3	30D	-N							G 7
004 RAMY	24	1032	1047	1035	N23	E33	.619	10802	26.9	15	-F	C		.31				DE 7
006 MCMA	24	1326	1337	1330	N21	E31	.583	10802	26.9	11	-F	C	1330	.31	.40			E 8
GRP31007	24	1444	1511	1451	S12	E09	.287	10800	25.3	27	-F			1.03				2 2 1 7
BOUL	24	1443	1508	1449	S10	E07	.241	10800	25.1	25	-F	V	1449		.50			
HTRP	24	1445	1514	1452	S13	E10	.310	10800	25.4	29	-F	C	1452	1.03	1.00			
008 RAMY	24	1650	1710	1700	S08	E78	.980	10807	30.6	20	-N	V		.52				DE 6
013 RAMY	24	2200E	2206	2200E	S10	E01	.210	10800	25.0	6D	-N	V		.52				DE 3
015 BOUL	25	0008E	0018D	0010	S12	E02	.247	10800	25.2	10D	-N	S						2

SOLAR FLARES

Unconfirmed

JUNE 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS			
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %		
																			1970	JUN
016	MANI	25	0045	0057	0048	S02	W30	.504	10798	22.8	12	-F	2	0048	1.03	1.19			3	
017	MANI	25	0049	0103	0052	N08	E26	.447	10801	27.0	14	-F	2	0052	.62	.69			3	
018	CRON	25	0311	0321		S05	W31	.527	10798	22.8	10	-F	3	V	.41				6	
019	CRON	25	0428	0430		S12	W45	.730	10797	21.8	2	-F	3	V	.52				4	
021	RAMY	25	1033	1042	1036	N20	W90	1.000	10789	18.7	9	-N	C						7	
022	RAMY	25	1034	1050D	1036	N01	E37	.602	10803	28.2	16D	-F	C		.21			DE	7	
023	RAMY	25	1048	1054	1050	N24	E76	.972	10808	1.1	6	-F	C		.21			DE	7	
024	RAMY	25	1051	1113	1056	S06	W04	.158	10800	25.2	22	-F	C		.46			DE	6	
027	BOUL	25	1347	1401	1353	S10	W04	.222	10800	25.3	14	-F	V						14	
028	RAMY	25	1442	1502	1446	N15	W13	.311	10799	24.6	20	-F	C		.21			DE	11	
GRP31030	RAMY	25	1536	1551	1538	S09	W07	.228	10800	25.1	15	-F	C		.77			2 2 1	8	
	BOUL	25	1535	1552	1538	S06	W06	.176	10800	25.2	17	-F	C		.77			F		
		25	1536	1550	1538	S12	W07	.272	10800	25.1	14	-F	V							
031	MCMA	25	1608	1615	1611	S12	W53	.814	10797	21.7	7	-N	C	1611	.31	.50		D	6	
034	BOUL	25	1727	1742	1735	N23	E70	.944	10808	1.0	15	-N	S	1735		1.30			5	
037	LOCK	25	2006	2034	2012	N05	E53	.798	10809	29.8	28	-N							4	
039	BOUL	25	2053E	2055	2053	S09	E64	.904	10807	30.7	2D	-N	V	2053		.50			4	
040	BOUL	25	2117	2130	2120	S09	E64	.904	10807	30.7	13	-F	V	2120		.50			3	
042	CRON	26	0116	0120		N23	E10	.389	10802	26.8	4	-F	3	V	.21				4	
044	CRON	26	0129	0140		N21	E67	.926	10808	1.1	11	-F	3	V	.31				4	
046	CRON	26	0218	0235	0222	S06	W44	.704	10798	22.8	17	-N	3	V	0222	.93			3	
047	CRON	26	0336	0351		S07	E55	.826	10807	30.3	15	-F	3	V	.41				4	
GRP31051	MONT	26	0752	0840	0814	S05	W46	.726	10798	22.9	48	-N			.10			2 1 1	9	
	CRON	26	0752	0839	0814	S06	W48	.751	10798	22.7	47	-N	C	0814	.10					
		26	0820	0841		S04	W44	.700	10798	23.0	21	-F	1	V	.31					
055	BOUL	26	1220	1227	1221	N21	E56	.844	10808	30.7	7	-N	V						9	
GRP31056	BOUL	26	1241	1248	1242	N20	E59	.868	10808	1.0	7	-F			.31			2 2 1	9	
	RAMY	26	1238	1247	1240	N18	E57	.848	10808	30.8	9	-N	V							
		26	1243	1249	1244	N22	E60	.878	10808	1.0	6	-F	C		.31			DE		
057	RAMY	26	1312E	1321		S05	E50	.771	10807	30.3	9D	-F	V					DE	9	
059	MONT	26	1358	1414	1406	N23	E57	.856	10808	30.9	16	-N	C	1406	2.27				10	
060	RAMY	26	1421	1500	1426	N22	E02	.339	10802	26.7	39	-F	C		.52			DE	9	
GRP31061	CAPS	26	1434	1515 (1442)		N21	E60	.877	10808	1.1	41	-B			.30			2 2 1	9	
	ONDR	26	1434E	1541D		N20	E64	.905	10808	1.4	67D	-B	V	1442	.30			H		
		26	1440E	1448		N22	E56	.846	10808	30.8	8D	1N	V	1442			2.10	220	CD	
062	LOCK	26	1548	1558	1552	S07	E50	.774	10807	30.4	10	-F							9	
064	HUAN	26	1814	1830		N33	E51	.836	10808	30.6	16	-F	1	C	1818	.31	.60		D	6
066	BOUL	26	2033	2102	2036	N22	E54	.829	10808	30.9	29	-N	V	2036		.20			2	
067	BOUL	26	2140	2154	2143	N20	E49	.777	10808	30.6	14	-N	V	2143		.50			3	
069	CRON	26	2321	2332		S08	E57	.846	10807	1.2	11	-N	2	V	.31				5	
070	LOCK	26	2322	2340	2326	N07	W09	.176	10801	26.3	18	-F							4	
072	BOUL	27	0052	0144	0057	N21	E52	.808	10808	30.9	52	-F	V	0057		2.00			4	
073	KODA	27	0201	0211		N20	E47	.756	10808	30.6	10	-N	C	0201	1.92	1.90		CE	2	
076	TACH	27	0531E	0546D	0532	N22	E48	.772	10808	30.8	15D	2F	V	0532	3.83	5.88	1.97	60	FTY	6

SOLAR FLARES

Unconfirmed

JUNE 1970

OBSERVATORY	OBSERVED UT			LOCATION					DURATION	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H α	MAX. INT. %
140 CANR	29	0911	0911D		N20	E17	.407	10808	30.7		-N	3	V		.10			4
143 CANR	29	1118	1124		S06	E60	.871	10812	4.0	6	-F	3	V		.30			5
144 RAMY	29	1127	1139	1130	N19	E15	.374	10808	30.6	12	-F		C		.83			DE 5
GRP31145	29	1150	1203	1154	S09	E61	.882	10812	4.1	13	-F		C		.62			2 2 1 6
RAMY	29	1150	1204	1154	S08	E62	.889	10812	4.1	14	-F		C		.62			DE
CANR	29	1150	1156		S06	E59	.862	10812	3.9	6	-F	3	V					
CANR	29	1153	1202		S13	E60	.879	10812	4.0	9	-F	3	V		.50			
GRP31147	29	1403	1423	1406	N20	E11	.349	10808	30.4	20	-F		C		.31			2 2 2 8
RAMY	29	1403	1420	1406	N20	E10	.341	10808	30.3	17	-N		C		.41			DE
MCMA	29	1406E	1425		N19	E11	.335	10808	30.4	19D	-F		C	1407	.21	.20		D
149 RAMY	29	1450	1502D	1456	N08	E60	.865	10813	4.1	12D	-F		C		.62			DE 10
GRP31150	29	1455	1530	1507	N03	E62	.882	10812	4.3	35	-F		C		.40			2 1 1 11
LOCK	29	1455	1530	1507	N03	E62	.882	10812	4.3	35	-F		C		.40			
CAPS	29	1513	1525D		N03	E62	.882	10812	4.3	12D	-F	3	V	1518	.40	.80	155	D
153 LOCK	29	1530	1547	1538	N20	E13	.367	10808	30.6	17	-F		C					8
GRP31154	29	1601	1624	1610	N08	E56	.829	10813	3.9	23	-F		C					2 2 0 8
LOCK	29	1600	1625	1610	N07	E56	.828	10813	3.9	25	-F		C					
BOUL	29	1601	1623	1610	N08	E55	.819	10813	3.8	22	-N		V					
155 BOUL	29	1605E	1608	1605	S06	E57	.844	10812	3.9	30	-N		V					9
157 MCMA	29	1709	1718	1712	N04	E55	.818	10813	3.8	9	-N		C	1712	.41	.70		E 5
GRP31158	29	1810	1825	1813	N06	E56	.828	10813	4.0	15	-N		C		.31			2 2 1 6
MCMA	29	1809	1828D	1813	N04	E55	.818	10813	3.9	19D	-N		C	1813	.31	.50		E
CANR	29	1811	1821		N07	E57	.838	10813	4.0	10	-N	2	V		.60			
159 MCMA	29	1826	1828D		S05	E42	.677	10810	2.9	20	-N		C	1827	.31	.40		D 5
161 LOCK	29	1925	1940	1930	N06	E57	.838	10813	4.1	15	-F		C					5
171 LOCK	30	0030	0040	0034	S02	E40	.646	10810	3.0	10	-F		C					5
173 KODA	30	0205	0208		N06	E53	.798	10813	4.1	3	-N		P	0206	1.60	1.60		CD 5
175 CRON	30	0334	0346		S02	E30	.505	10810	2.4	12	-F	3	V		.31			5
178 ISTA	30	0702	0710		N07	E50	.766	10813	4.0	8	-F		C					6
181 RAMY	30	1421	1427	1423	S06	W33	.561	10803	28.1	6	-F		C		.31			DE 5
GRP31184	30	1539	1624	1550	N11	E40	.650	10813	3.7	45	-F		C		.64			2 2 2 7
CATA	30	1535	1610D	1550	N10	E40	.648	10813	3.6	35D	-N		C	1550	.87	1.14	155	
MCMA	30	1542	1624		N12	E40	.652	10813	3.7	42	-F		C	1550	.41	.60		E
186 LOCK	30	1555	1608	1558	N20	E04	.304	10808	1.0	13	-F		C					6
187 LOCK	30	1625	1637	1630	S06	E42	.680	10812	3.8	12	-F		C					5
188 LOCK	30	1705	1716	1709	S08	E49	.766	10812	4.4	11	-F		C					5
GRP31193	30	1945	2019	1952	N10	E55	.820	10813	4.9	34	-N		C					2 2 0 3
LOCK	30	1943	2015	1952	N10	E54	.810	10813	4.9	32	-N		C					
BOUL	30	1946	2022	1951	N10	E55	.820	10813	4.9	36	-N		V	1951	.80			
196 LOCK	30	2156	2204	2159	N08	E40	.645	10813	3.9	8	-F		C					5