

SOLAR FLARES

Original Reports and Statistical Summaries

JULY 1967

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.	MAX. WIDTH H α	
GRP 6838	01	0645	0736		S17 E64	.915	8877	6.1	51	-F						1 1 1
BUCA	01	0645	0736		S17 E64	.915	8877	6.1	51	-F	C	0657	.33			D
GRP 6839	01	0651	0656	0652	N18 W84	.993	8863	25.0	5	-N			.38			2 2 2
CRON	01	0651	0656	0652	N18 W85	.995	8863	24.9	5	-B			.20	.70		100
BUCA	01	0651	0656		N17 W83	.991	8863	25.1	5	-B	C	0652	.55			
GRP 6838	01	0719	0822		S14 E63	.904	8877	6.0	63	-F			.43			1 1 1
BUCA	01	0719	0822		S14 E63	.904	8877	6.0	63	-F	C	0738	.43			
GRP 6840	01	0754	0901	0827	N19 W82	.989	8863	25.2	67	-N			.51			2 2 2
BUCA	01	0750	0908		N19 W81	.986	8863	25.3	78	-F	P	0827	.55			
CAPE	01	0814	0854	0827	N18 W82	.989	8863	25.2	40	-N	C	0827	.46			F
CAPE	01	0758	0806	0800	N18 W82	.989	8863	25.2	8	-F	C	0800	.14			
GRP 6841	01	0808	0856	0819	N18 W73	.956	8863	25.9	48	1N			.86			2 2 2
CATA	01	0810	0900	0815	N16 W75	.965	8863	25.7	50	-N		0815	.70			151
CAPE	01	0805	0839	0822	N21 W70	.942	8863	26.1	34	-F		0822	.64	1.92		
CAPE	01	0805	0839	0827	N20 W71	.947	8863	26.0	34	-F		0827	.23	.70		
CAPE	01	0805	0839	0808	N20 W70	.941	8863	26.1	34	-F	C	0808	.18	.50		FK
CAPE	01	0812	0852	0822	N11 W76	.969	8863	25.6	40	1N		0822	1.01	4.20		
CAPE	01	0812	0828	0819	N12 W66	.913	8863	26.4	16	1F	C	0819	.92	2.30		C
CAPE	01	0812	0852	0819	N12 W75	.965	8863	25.7	40	-N	C	0819	.46	1.90		K
GRP 6842	01	0814	0900	0844	N12 W76	.969	8863	25.6	46	-N			.59			2 2 2
CAPE	01	0812	0852	0844	N11 W75	.965	8863	25.7	40	-N		0844	.52	2.10		
BUCA	01	0815	0908		N12 W76	.969	8863	25.6	53	-F	P	0835	.66			
GRP 6843	01	0822	0829	0824	N20 E30	.558	8876	3.6	7	-F			1.10			1 1 1
CAPE	01	0822	0829	0824	N20 E30	.558	8876	3.6	7	-F	C	0824	1.10	1.30		C
GRP 6844	01	0835	0850	0840	S26 E80	.991	8877	7.4	15	-F			.35			1 1 1
CATA	01	0835	0850	0840	S26 E80	.991	8877	7.4	15	-F		0840	.35			138
GRP 6845	01	0923	0927	0924	N22 W70	.942	8863	26.1	4	-F			.18			1 1 1
CAPE	01	0923	0927	0924	N22 W70	.942	8863	26.1	4	-F	C	0924	.18	.60		
GRP 6846	01	1016	1027	1017	N18 W85	.995	8863	25.1	11	1F			.78			1 1 1
CAPE	01	1016	1027	1017	N18 W85	.995	8863	25.1	11	1F	C	1017	.78			
GRP 6847	01	1023	1033	1028	N12 W80	.984	8863	25.4	10	-F			.23			1 1 1
CAPE	01	1023	1033D	1028	N12 W80	.984	8863	25.4	10D	-F	C	1028	.23	1.30		C
GRP 6848	01	1050	1135	1055	S20 E60	.892	8877	6.0	45	-F			.44			1 1 1
CATA	01	1050	1135	1055	S20 E60	.892	8877	6.0	45	-F		1055	.44			142
GRP 6849	01	1058	1115		N18 W83	.991	8863	25.2	17	1N			1.43			1 1 1
CAPE	01	1058E	1115		N18 W83	.991	8863	25.2	17D	1N		1113	1.43			
CAPE	01	1058E	1115		N18 W83	.991	8863	25.2	17D	1N	P	1109	1.29			
GRP 6850	01	1123	1231	1205	N25 W74	.963	8863	25.9	68	1N			.51			2 2 2
CAPE	01	1124	1232D		N18 W84	.993	8863	25.2	68D	1N		1211	.84			
CATA	01	1205	1230	1205	N23 W85	.995	8863	25.1	25	-F		1205	.18			141
CAPE	01	1124	1232D		N18 W82	.989	8863	25.3	68D	1N		1134	1.10			
CAPE	01	1124	1232D		N18 W82	.989	8863	25.3	68D	1N		1150	1.01			
CAPE	01	1124	1232D		N18 W82	.989	8863	25.3	68D	1N	P	1129	1.01			K
CAPE	01	1121	1232	1222	N30 W59	.882	8863	27.0	71	-F		1222	.52	1.10		
CAPE	01	1121	1232	1136	N30 W58	.876	8863	27.1	71	-F	C	1136	.41	.80		K
CAPE	01	1231	1302	1242	N27 W61	.891	8863	26.9	31	-F	C	1242	.46	1.10		
GRP 6851	01	1221	1235	1222	N20 E50	.784	8876	5.3	14	-N			1.68			3 3 2
SACP	01	1220	1225U	1222	N21 E50	.787	8876	5.3	5U	-N			1.05	1.34		
CAPE	01	1221	1233	1222	N20 E49	.774	8876	5.2	12	1N	C	1222	2.30	3.70		
MCMA	01	1221	1237	1223	N20 E50	.784	8876	5.3	16	-N	C	1223	.41	.70		E
GRP 6852	01	1230	1405	1239	N23 E39	.679	8876	4.4	95	-N			.97			2 2 2
CATA	01	1230	1405	1235	N18 E52	.800	8876	5.4	95	-N		1235	.96	1.63		166
CAPE	01	1240E	1253	1243	N28 E26	.578	8876	3.5	13D	-F	C	1243	.97	1.20		F
GRP 6853	01	1237	1251	1240	S15 E58	.867	8877	5.9	14	-N			.20			1 1 1
CANA	01	1237	1251	1240	S15 E58	.867	8877	5.9	14	-N	C		.20	.40		200
GRP 6854	01	1242	1302	1252	N25 W70	.944	8863	26.3	20	1F			1.47			1 1 1
CAPE	01	1242	1302	1252	N25 W70	.944	8863	26.3	20	1F	C	1252	1.47	4.40		F
GRP 6855	01	1310	1342	1321	N19 W84	.993	8863	25.2	32	1N			1.21			1 1 1
CAPE	01	1310	1342	1321	N19 W84	.993	8863	25.2	32	1N	C	1321	1.21			
GRP 6856	01	1314	1332	1316	S19 E60	.890	8877	6.1	18	-N			.28			2 2 2
SACP	01	1312	1344	1316	S17 E59	.879	8877	6.0	32	-N	C		.31	.46		
CATA	01	1315	1320	1315	S20 E60	.892	8877	6.1	5	-F		1315	.25			138
GRP 6857	01	1351	1356	1352	N11 W84	.994	8863	25.3	5	1F			.69			1 1 1
CAPE	01	1351	1356	1352	N11 W84	.994	8863	25.3	5	1F	C	1352	.69			C
GRP 6858	01	1408	1440	1414	N26 W64	.910	8863	26.8	32	-F			.18			1 1 1
CAPE	01	1408	1440	1414	N26 W64	.910	8863	26.8	32	-F	C	1414	.18	.40		K
GRP 6858	01	1408	1440	1430	N26 W64	.910	8863	26.8	32	-F			.28			1 1 1
CAPE	01	1408	1440	1430	N26 W64	.910	8863	26.8	32	-F		1430	.28	.70		
GRP 6859	01	1528	1542	1532	N18 W78	.977	8863	25.8	14	-F			.20			1 1 1
LOCK	01	1528	1542	1532	N18 W78	.977	8863	25.8	14	-F	C	1532	.20	.60		10 H

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMA TH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	
GRP 6860	01	1547	1610	1553	N32	W64	.918	8863	26.9	23	-N		.57				4 4 4
LOCK	01	1545	1620	1553	N32	W63	.912	8863	26.9	35	-N	C	1553	.70	1.50		10
SACP	01	1546	1604	1551	N32	W63	.912	8863	26.9	18	-N	C		.61	1.02		
HUAN	01	1546	1611	1553	N32	W64	.918	8863	26.9	25	-N	1 C	1553	.67			E
MCMA	01	1550	1605	1555	N32	W66	.929	8863	26.7	15	-N	C	1555	.31	.70		E
GRP 6861	01	1625	1708	1647	N20	W80	.984	8863	25.7	43	1N		1:02				2 2 2
LOCK	01	1625	1705	1645	N20	W78	.977	8863	25.8	40	1N	C	1645	1:00	3:10		10
HALE	01	1648E	1710D	1648U	N20	W82	.989	8863	25.5	22D	1N	2 P	1648	1:03			BF
GRP 6862	01	1627	1649	1633	N18	W86	.997	8863	25.2	22	-N		.68				4 4 3
ATHN	01	1626	1654	1631	N18	W86	.997	8863	25.2	28	1N	3	1631	1:29		1.80	
SACP	01	1626	1659	1638	N18	W82	.989	8863	25.5	33	-N	C		.51			
MCMA	01	1628	1641	1631	N18	W90	1.000	8863	24.9	13	-N	C	1631				D
HUAN	01	1628	1643		N19	W85	.995	8863	25.3	15	-F	1 C	1631	.25			D
GRP 6863	01	1927	1945	1932	S22	E34	.662	8875	4.4	18	-N		.51				2 2 2
LOCK	01	1925	1950	1934	S22	E32	.642	8875	4.2	25	-F	C	1934	.40	.50		10
MCMA	01	1928	1939	1930	S22	E36	.683	8875	4.5	11	-N	C	1930	.62	.80		E
GRP 6864	01	2110	2125	2115	S22	E33	.652	8875	4.4	15	-B		.41				2 2 2
LOCK	01	2108	2125	2115	S21	E31	.624	8875	4.2	17	-N	C	2115	.40	.50		10
MCMA	01	2111	2122D	2114	S22	E34	.662	8875	4.4	11D	-B	C	2114	.41	.60		E
GRP 6865	01	2138	2143	2139	S24	W63	.919	8867	27.2	5	-B		.21				1 1 1
HALE	01	2138	2143	2139	S24	W63	.919	8867	27.2	5	-B	1 C	2139	.21			JV
GRP 6866	01	2302	2320	2310	S24	E72	.965	8877	7.4	18	-N		.30				1 1 1
LOCK	01	2302	2320	2310	S24	E72	.965	8877	7.4	18	-N	C	2310	.30	.80		10
GRP 6867	02	0002	0051	0005	N16	E84	.993	8880	8.3	49	-F		.30				1 1 1
LOCK	02	0002	0051	0005	N16	E84	.993	8880	8.3	49	-F	C	0005	.30	1.00		10
GRP 6868	02	0048	0057	0051	S15	E56	.850	8877	6.2	9	-N		.41				2 2 2
SACP	02	0047	0056	0050	S14	E55	.840	8877	6.2	9	-N	C		.52	.72		
LOCK	02	0048	0057	0051	S15	E56	.850	8877	6.2	9	-F	C	0051	.30	.50		10
GRP 6869	02	0119	0150	0125	S22	W68	.945	8867	27.0	31	-N		.70				2 1 1
LOCK	02	0119	0148D	0125	S22	W69	.950	8867	26.9	29D	-N	C	0125	.70	1.70		10
SACP	02	0141	0152	0144	S22	W67	.940	8867	27.0	11	-F	C		.62	1.17		
GRP 6870	02	0400	0404		S19	W69	.947	8867	27.0	4	2F		2:19				1 1 1
TACH	02	0400	0404		S19	W69	.947	8867	27.0	4	2F	V	0400	2:19		1.80	60
GRP 6871	02	0410	0416	0410	S17	E53	.829	8877	6.1	6	-B		1:09				1 1 1
TACH	02	0410	0416	0410	S17	E53	.829	8877	6.1	6	-B	V	0410	1:09	1.30	2.50	80
GRP 6872	02	0645	0650	0645	N17	W45	.723	8878	28.9	5	-F		.13				1 1 1
CATA	02	0645	0650	0645	N17	W45	.723	8878	28.9	5	-F		.13				145
GRP 6873	02	0822	0845	0828	N18	E90	1.000	8880	9.1	23	1N		.13	.20			1 1 0
AROS	02	0822	0845	0828	N18	E90	1.000	8880	9.1	23	1N	V					
GRP 6874	02	0848	0902	0855	N33	W15	.547	8871	1.2	14	-F		.74				1 1 1
CAPE	02	0848	0902	0855	N33	W15	.547	8871	1.2	14	-F	C	0855	.74	.90		CH
GRP 6875	02	0920	0944	0928	N19	W90	1.000	8863	25.6	24	1B		1:19				6 6 3
CATA	02	0920	0935	0931	N23	W90	1.000	8863	25.6	15	1N		.55				178
MONT	02	0920	0945	0930	N20	W90	1.000	8863	25.6	25	1B						
ATHN	02	0921E	0940D	0922	N20	W90	1.000	8863	25.6	19D	1B	2	0922			2.00	
MANI	02	0922E	0938	0928	N15	W90	1.000	8863	25.6	16D	-B	2	0928	.52	1.60		
KHAR	02	0924E	0956D		N17	W90	1.000	8863	25.6	32D	2N	P	0931			7.50	QX
CAPS	02	0935E	0950		N20	W90	1.000	8863	25.6	15D	1N	2	0940	2:50			A
GRP 6876	02	1118	1128		N17	W50	.777	8878	28.7	10	1N		3:09				1 1 1
WEND	02	1118E	1128D		N17	W50	.777	8878	28.7	10D	1N	V	3:09				
GRP 6877	02	1149	1158	1151	N16	W50	.776	8878	28.7	9	-F		.50				1 1 1
HUAN	02	1149	1158	1151	N16	W50	.776	8878	28.7	9	-F	2 C	1151	.50	.62		ET
GRP 6878	02	1234	1241	1236	S23	E24	.573	8875	4.3	7	-F		.21				1 1 1
HUAN	02	1234	1241	1236	S23	E24	.573	8875	4.3	7	-F	2 C	1236	.21	.22		D
GRP 6879	02	1302	1315	1305	N16	W51	.786	8878	28.7	13	-N		.73				2 2 2
HUAN	02	1300	1315	1305	N16	W52	.796	8878	28.6	15	-N	2 C	1305	.45	.58		E
CAPS	02	1303	1312D		N16	W50	.776	8878	28.8	9D	-F	2	1307	1:00	1.50		158
GRP 6880	02	1334	1353	1339	N22	W90	1.000	8863	25.8	19	1N		.31				2 2 1
ATHN	02	1329	1358	1335	N20	W90	1.000	8863	25.8	29	1N	2	1335			2.00	
HUAN	02	1338	1347	1343	N23	W90	1.000	8863	25.8	9	-F	2 C	1343	.31			D
GRP 6881	02	1349	1415	1400	N16	E91	1.000	8880	9.4	26	1N		1:94				1 1 1
SACP	02	1349	1415	1400	N16	E91	1.000	8880	9.4	26	1N	C		1:94			
GRP 6882	02	1450	1459	1453	S21	E23	.543	8875	4.3	9	-F		.36				1 1 1
HUAN	02	1450	1459	1453	S21	E23	.543	8875	4.3	9	-F	2 C	1453	.36	.38		E
GRP 6883	02	1506	1531	1513	N16	E91	1.000	8880	9.5	25	1N		1:85				1 1 1
SACP	02	1506	1531	1513	N16	E91	1.000	8880	9.5	25	1N	C		1:85			
GRP 6884	02	1546	1558	1548	S24	W85	.998	8867	26.3	12	-N						1 1 0
MCMA	02	1546	1558D	1548	S24	W85	.998	8867	26.3	12D	-N	C	1548				D
GRP 6885	02	1640	1710	1656	N34	W74	.966	8863	27.1	30	-F		.70				1 1 1
LOCK	02	1640	1710	1656	N34	W74	.966	8863	27.1	30	-F	C	1656	.70	2.00		10
GRP 6886	02	1647	1722	1707	N19	E90	1.000	8880	9.4	35	1N		1:52				3 3 2
SACP	02	1647	1725	1707	N17	E91	1.000	8880	9.5	38	1N	C		1:54			
LOCK	02	1647	1725	1707	N13	E90	1.000	8880	9.4	38	2N	C	1707	1:50	6.00		20
MCMA	02	1657E	1715	1706	N27	E90	1.000	8880	9.5	18D	1F	C	1706				
GRP 6887	02	1734	1737		N20	W90	1.000	8863	26.0	3	-F		.21				1 1 1
HUAN	02	1734E	1737		N20	W90	1.000	8863	26.0	3D	-F	1 P	1734	.21			D

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	DATE	START	END	MAX. PHASE	APPROX. MER. LAT.	CENTRAL DIST.	MCMATH PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT.	
1967 JULY																	
GRP 6888	02	1746	1802	1748	S18	W67	.935 8867	27.7	16	-F			.20			10	1 1 1
LOCK	02	1746	1802	1748	S18	W67	.935 8867	27.7	16	-F	C	1748	.20	.50			
GRP 6889	02	1903	1925	1908	N11	E90	1.000 8880	9.5	22	1F			.70			10	1 1 1
LOCK	02	1903	1925	1908	N11	E90	1.000 8880	9.5	22	1F	C	1908	.70	2.80			
GRP 6890	02	2042	2120	2044	N15	W57	.842 8878	28.6	38	-B			.10				1 1 1
HALE	02	2042E	2120	2044U	N15	W57	.842 8878	28.6	38D	-B	1 P	2044	.10	.20			
GRP 6891	02	2239	2255	2244	N31	W79	.982 8863	27.0	16	-N			.21				2 2 2
SACP	02	2238	2259	2243	N31	W80	.985 8863	26.9	21	-F	C		.21				
HALE	02	2240	2250	2244	N31	W78	.979 8863	27.1	10	-B	2 C	2244	.21				
GRP 6892	03	0138	0144	0139	N15	W61	.876 8878	28.5	6	-F			.10				1 1 1
HALE	03	0138	0144	0139	N15	W61	.876 8878	28.5	6	-F	1 C	0139	.10	.20			
GRP 6893	03	0145	0155	0148	N14	W59	.859 8878	28.6	10	-F			.15				1 1 1
HALE	03	0145	0155	0148	N14	W59	.859 8878	28.6	10	-F	1 C	0148	.15	.30			E
GRP 6893	03	0154	0222	0213	N15	W58	.851 8878	28.7	28	-F			.15				1 1 1
HALE	03	0154	0222	0213	N15	W58	.851 8878	28.7	28	-F	1 C	0213	.15	.30			K
GRP 6894	03	0430	0443	0435	N20	E88	.999 8880	9.8	13	-B			.99				1 1 1
ATHN	03	0430	0443	0435	N20	E88	.999 8880	9.8	13	-B	2	0435	.99		2.00		
GRP 6895	03	0749	0803	0753	N17	W60	.870 8878	28.8	14	-N			.46				1 1 1
CAPE	03	0749	0803	0753	N17	W60	.870 8878	28.8	14	-N	C	0753	.46	1.00			J
GRP 6896	03	0752	0843	0757	S22	E14	.478 8875	4.4	51	1B			2.45				5 5 5
MONT	03	0749	0830	0755	S22	E12	.465 8875	4.2	41	1N		0755	3.61				H
CATA	03	0750	0855	0755	S23	E14	.491 8875	4.4	65	1B		0755	2.36	2.71		301	
CAPE	03	0753	0850	0759	S22	E14	.478 8875	4.4	57	1N	C	0759	2.22	2.50			FVH
CAPS	03	0754	0836		S20	E16	.468 8875	4.5	42	1B	3	0757	1.80	2.00		312	
ABST	03	0755E	0759D	0759D	S21	E15	.473 8875	4.5	40	1B	P		2.24	2.70			EJ
GRP 6896	03	0758	0835	0810	S22	E15	.485 8875	4.5	37	1N			2.61				6 6 5
SALO	03	0755E	0825D	0810	S23	E13	.485 8875	4.3	30D	-N	V	0810	.54	.60	.16		
BUCA	03	0757	0848		S22	E15	.485 8875	4.5	51	1B	P	0806	2.88	3.20			
ARCE	03	0758E	0825		S20	E15	.460 8875	4.5	27D	-N	C	0800	1.52	1.70			
MANI	03	0803E	0823D	0806	S21	E15	.473 8875	4.5	20D	-N	1	0806	1.50	1.70			
ATHN	03	0812	0836D	0815	S21	E15	.473 8875	4.5	24D	1B	2	0815	1.98	2.20	1.80		
WEND	03	0815E	0840		S23	E16	.506 8875	4.5	25D	1N	V		5.16				
GRP 6897	03	0829	0905		S22	E12	.465 8875	4.2	30D	-N	V	0810	.37	.40	.16		
SALO	03	0825E	0835D		N34	W84	.993 8863	27.1	36	1N			.34				2 2 2
BUCA	03	0833	0905		N34	W82	.989 8863	27.2	10D	1N	V	0830	.25	1.80	.16		
GRP 6898	03	1000	1013	1001	S25	E53	.853 8877	7.4	13	-N	C	0835	.43				
ATHN	03	1000	1005	1001	S24	E53	.850 8877	7.4	5	-N	2	1001	.33	.60	1.60		
CATA	03	1000	1020	1000	S26	E53	.856 8877	7.4	20	-N		1000	.60	1.15		174	
GRP 6899	03	1027	1037		N16	W64	.900 8878	28.6	10	-N			.80				1 1 1
CAPS	03	1027	1037		N16	W64	.900 8878	28.6	10	-N	3	1030	.80			170	
GRP 6900	03	1040	1055	1040	S25	E50	.829 8877	7.2	15	1N			.88				2 2 2
CATA	03	1040	1045	1040	S26	E50	.833 8877	7.2	5	-N		1040	.11	.21		158	
ATHN	03	1045	1104D	1052	S24	E49	.817 8877	7.1	19D	1F	2	1052	1.65	2.80	1.15		
GRP 6901	03	1105	1115	1105	S26	E50	.833 8877	7.2	10	-N			.09				1 1 1
CATA	03	1105	1115	1105	S26	E50	.833 8877	7.2	10	-N		1105	.09	.18		158	
GRP 6902	03	1120	1125	1120	S26	E51	.841 8877	7.3	5	-N			.40				1 1 1
CATA	03	1120	1125	1120	S26	E51	.841 8877	7.3	5	-N		1120	.40	.76		186	
GRP 6903	03	1138	1147	1139	S26	E52	.849 8877	7.4	9	-N			.46				2 2 2
CANA	03	1136	1143	1137	S24	E52	.842 8877	7.4	7	-F	C		.30	.50		100	
GRP 6904	03	1140	1150	1140	S27	E51	.844 8877	7.3	10	-N		1140	.62	1.15		162	
MEUD	03	1315	1321	1320	N19	W61	.880 8878	29.0	6	-N			.36				2 2 2
CATA	03	1314	1317		N17	W61	.878 8878	29.0	3	-F	C	1316	.31	.60			D
GRP 6905	03	1315	1325	1320	N20	W61	.881 8878	29.0	10	-N		1320	.40			155	
CATA	03	1340	1355	1340	N20	W61	.881 8878	29.0	15	-B			.40				1 1 1
GRP 6906	03	1405	1415	1410	N18	W62	.887 8878	28.9	10	-N			.39				3 3 3
HOUA	03	1401	1413U	1409U	N17	W62	.886 8878	28.9	12U	-F	C		.20	.40		100	I
CATA	03	1405	1415	1410	N20	W61	.881 8878	29.0	10	-B		1410	.39			204	
GRP 6907	03	1409	1414	1411	N16	W64	.900 8878	28.8	5	-N	1 C	1411	.57	.87			DT
SACP	03	1529	1534	1532	S23	E51	.830 8877	7.5	5	-N			.41				1 1 1
GRP 6908	03	1529	1534	1532	S23	E51	.830 8877	7.5	5	-N	C		.41	.56			
HOUA	03	1552	1606	1555	N22	E79	.980 8880	9.6	14	-F			.20				1 1 1
GRP 6909	03	1552	1606	1555	N22	E79	.980 8880	9.6	14	-F	C		.20	.60		100	
LOCK	03	1553	1603	1555	N18	W63	.894 8878	28.9	10	-N			.35				6 6 6
HOUA	03	1552	1604	1556	N17	W62	.886 8878	29.0	12	-N	C	1556	.40	.80		20	
GRP 6910	03	1552	1606	1555	N17	W62	.886 8878	29.0	14	-F	C		.20	.40		100	I
SACP	03	1553	1556	1554	N15	W63	.892 8878	28.9	3	-F	C		.31	.48			
HUAN	03	1553E	1557		N17	W65	.908 8878	28.8	4D	-N	1 C	1554	.45	.73			D
MGMA	03	1553	1603	1555	N17	W65	.908 8878	28.8	10	-F	V	1555	.31	.80			D
CATA	03	1555	1610	1555	N23	W63	.899 8878	28.9	15	-N		1555	.42			188	
GRP 6910	03	1605	1624	1607	N19	E21	.438 8876	5.2	19	-N			.10				1 1 1
HALE	03	1605	1624	1607	N19	E21	.438 8876	5.2	19	-N	1 C	1607	.10	.10			E

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OBSERV- ATORY	OBSERVED UT				LOCATION				DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
GRP 6911	03	1624	1638	1628	N16	W63	.893 8878	29.0	14	-N		.66				7 7 6
LOCK	03	1620	1640	1630	N17	W62	.886 8878	29.0	20	-N	C	1630	.60	1.30		20
HOUS	03	1624	1632D	1628	N17	W63	.893 8878	29.0	8D	-N	C		.20	.40		200
MOMA	03	1624	1633	1628	N17	W65	.908 8878	28.8	9	-N	V	1628	.41	1.00		
HALE	03	1624	1635	1628	N16	W61	.877 8878	29.1	11	-B	3 C	1628	.26	.50		
HUAN	03	1625	1632	1627	N17	W65	.908 8878	28.8	7	-N	2 C	1627	.50	.80		
SACP	03	1625	1635	1628	N15	W63	.892 8878	29.0	10	-F	C		.30	.48		
MONT	03	1625	1700	1630	N16	W64	.900 8878	28.9	35	1N		1630	1.86			
GRP 6912	03	1652	1732	1701	S22	E10	.453 8875	4.5	40	-N			.37			
LOCK	03	1651	1724	1700	S23	E09	.462 8875	4.4	33	-F	C	1700	.50	.60		10
HALE	03	1651	1730	1703	S22	E09	.447 8875	4.4	39	-N	1 C	1703	.21	.20		
MOMA	03	1652	1725	1700	S22	E10	.453 8875	4.5	33	-N	C	1700	.26	.30		
HUAN	03	1653	1750	1700	S22	E10	.453 8875	4.5	57	-N	2 C	1700	.50	.50		
GRP 6913	03	1700	1727	1707	N15	W65	.907 8878	28.8	27	-F			1.43			
HALE	03	1658	1729	1710	N15	W67	.921 8878	28.7	31	-N	1 C	1710	.15			
LOCK	03	1700	1730	1705	N15	W67	.921 8878	28.7	30	-F	C	1705	.70	1.60		10
HUAN	03	1703	1723	1706	N15	W67	.921 8878	28.7	20	-F	2 C	1706	.50			
WEND	03	1708E	1721D		N13	W58	.849 8878	29.4	13D	1F	V		3.09			
HALE	03	1720	1732	1726	N16	W67	.921 8878	28.7	12	-N	1 C	1726	.10			
GRP 6914	03	1828	1846	1832	S21	W90	1.000 8867	27.0	18	-N			.10			
LOCK	03	1828	1846	1832	S21	W90	1.000 8867	27.0	18	-N	C	1832	.10	.40		10
GRP 6915	03	1834	1940	1837	N17	W67	.921 8878	28.7	66	-N			.58			
HOUS	03	1834E	1940	1837	N16	W67	.921 8878	28.7	66D	-N	C		.70	1.60		200
MOMA	03	1835	1940	1848	N17	W67	.921 8878	28.7	65	-N	V	1848	.46	1.40		
GRP 6916	03	2042	2059	2047	N16	W68	.927 8878	28.8	17	-N			.10			
HALE	03	2042	2059	2047	N16	W68	.927 8878	28.8	17	-N	1 C	2047	.10			
GRP 6917	03	2236	2310	2242	N11	E18	.334 8876	5.3	34	-N			.51			
LOCK	03	2234	2305	2242	N11	E18	.334 8876	5.3	31	-F	C	2242	.80	.90		10
HALE	03	2237	2315	2241	N11	E18	.334 8876	5.3	38	-N	1 C	2241	.21	.20		
GRP 6918	03	2242	2331	2250	S21	E01	.408 8875	4.0	49	-N			.88			
LOCK	03	2240	2325	2249	S20	E01	.392 8875	4.0	45	-N	C	2249	1.00	1.10		20
HALE	03	2243	2335	2247	S21	E00	.408 8875	3.9	52	-N	1 C	2247	.31	.30		
SACP	03	2250E	2334U	2254	S21	E01	.408 8875	4.0	44U	-N	C		1.32	1.33		
GRP 6919	04	0115	0200	0126	S22	E05	.433 8875	4.4	45	-N			.68			
LOCK	04	0114	0145	0121	S22	E04	.430 8875	4.4	31	-N	C	0121	.80	.90		20
MITK	04	0115	0200	0127	S23	E05	.448 8875	4.4	45	-F	C	0127	.83	.90		
HALE	04	0115	0215	0130	S22	E05	.433 8875	4.4	60	-B	1 C	0130	.41	.50		
GRP 6920	04	0430	0520	0437	S22	E04	.430 8875	4.5	50	1B			2.31			
ATHN	04	0430	0520	0435	S20	E06	.405 8875	4.6	50	1B	2	0435	2.31	2.60	2.00	
HALE	04	0438E	0455D	0438	S23	E02	.442 8875	4.3	17D	-N	1 P	0438	.31	.30		
GRP 6920	04	0450	0551	0532	S21	E01	.410 8875	4.3	61	-N			.74			
CATA	04	0450	0600	0535	S21	E00	.410 8875	4.2	70	-N		0535	1.01	1.15		182
MANI	04	0522E	0542	0528	S21	E01	.410 8875	4.3	20D	-N	2	0528	.46	.51		
GRP 6921	04	0643	0704	0648	S21	E00	.410 8875	4.3	21	1N			2.29			
BUCA	04	0625	0725		S21	W02	.411 8875	4.1	60	1N	P	0648	3.32	3.60		
CATA	04	0635	0710	0646	S21	E01	.410 8875	4.3	35	-B		0646	1.11	1.24		204
ATHN	04	0643	0700	0650	S20	E05	.402 8875	4.7	17	1N	2	0650	4.29	4.80	2.00	
CAPS	04	0644E	0703		S20	W01	.394 8875	4.2	19D	1N	1	0649	2.00	2.20		185
IKOM	04	0645	0700D		S22	W01	.426 8875	4.2	15D	1N	V	0645	2.27	2.50		
MEUD	04	0647	0655		S22	W02	.427 8875	4.1	8	-N	C	0647	.72	.80		
MANI	04	0652E	0658D		S21	E00	.410 8875	4.3	6D	-F	1	0653	.62	.68		
GRP 6922	04	0709	0734	0713	N16	W80	.983 8878	28.3	25	-N			.23			
CAPE	04	0709	0734	0713	N16	W80	.983 8878	28.3	25	-N	C	0713	.23			
GRP 6922	04	0709	0734	0723	N16	W80	.983 8878	28.3	25	-F			.23			
CAPE	04	0709	0734	0723	N16	W80	.983 8878	28.3	25	-F		0723	.23			
GRP 6923	04	0731	0748	0733	N26	W43	.733 8871	1.1	17	-F			1.21			
CAPE	04	0731	0748	0733	N26	W43	.733 8871	1.1	17	-F	C	0733	1.21	1.80		
GRP 6924	04	0756	0808	0759	N17	W83	.991 8878	28.1	12	-N			.43			
CAPE	04	0752	0810	0757	N17	W80	.983 8878	28.3	18	-N	C	0757	.55			
CRON	04	0759	0805	0801	N17	W85	.995 8878	28.0	6	-F	C		.30	1.00		100
GRP 6925	04	0811	0832	0814	N17	W80	.983 8878	28.3	18	-N		0801	.46			
CATA	04	0805	0845	0810	S21	E00	.410 8875	4.3	21	-N			.61			
CAPE	04	0811	0826	0815	S21	W03	.412 8875	4.1	40	-N		0810	.23	.26		166
ATHN	04	0811	0830	0815	S21	W01	.410 8875	4.3	15	-N	C	0815	.84	.90		
ARCE	04	0815	0825	0815	S20	E01	.394 8875	4.4	19	-N	2	0815	.99	1.10	1.70	
GRP 6926	04	0818	0834	0821	S21	E02	.411 8875	4.5	10	-N	C	0815	.36	.40		
CAPE	04	0818	0834	0821	N17	W81	.986 8878	28.3	16	-N			.18			
GRP 6927	04	0913	0922	0917	N17	W81	.986 8878	28.3	16	-N	C	0821	.18	1.20		
CAPE	04	0913	0922	0917	N16	W75	.965 8878	28.8	9	-F			.37			
					N16	W75	.965 8878	28.8	9	-F	C	0917	.37	1.30		

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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.
GRP 6945	05	0602	0622	0605	S23	W13	.488	8875	4.3	20	-N		1.06				3 3 3	
BUCA	05	0600	0633		S23	W14	.494	8875	4.2	33	-N	C	0608	1.66	1.90			
CAPS	05	0601E	0624		S22	W14	.481	8875	4.2	23D	-N	3	0606	.60	.70		179	
CATA	05	0605	0610	0605	S23	W10	.470	8875	4.5	5	-N		0605	.92	1.04		162	
GRP 6946	05	0653	0713	0700	N14	W09	.241	8876	4.6	20	-F			1.05			3 3 3	
BUCA	05	0649	0713		N14	W09	.241	8876	4.6	24	-F	C	0701	.88	.90			
CAPE	05	0657	0715	0700	N14	W10	.252	8876	4.5	18	-N	C	0700	1.57	1.60		T	
CAPS	05	0701E	0712		N14	W07	.221	8876	4.8	11D	-F	3	0707	.70	.80		142	
GRP 6947	05	0920	0944	0922	N14	E70	.939	8880	10.6	24	1F			1.16			1 1 1	
CAPE	05	0920	0944	0922	N14	E70	.939	8880	10.6	24	1F	C	0922	1.16	3.40		C	
GRP 6948	05	1240	1245	1240	S21	W25	.566	8875	3.7	5	-N			.48			1 1 1	
CATA	05	1240	1245	1240	S21	W25	.566	8875	3.7	5	-N		1240	.48	.59		151	
GRP 6949	05	1320	1401	1330	N28	W67	.929	8871	30.5	41	-F			.18			1 1 1	
CAPE	05	1320	1401	1330	N28	W67	.929	8871	30.5	41	-F	C	1330	.18	.50			
GRP 6950	05	1340	1350	1343	N16	W13	.310	8876	4.6	10	-N			.10			1 1 1	
CANA	05	1340	1350	1343	N16	W13	.310	8876	4.6	10	-N	C		.10	.10		100	
GRP 6951	05	1458	1512		S21	W21	.527	8875	4.0	14	-F			.55			1 1 1	
HUAN	05	1458	1512D		S21	W21	.527	8875	4.0	14D	-F	1	P	1500	.55	.58		E
GRP 6952	05	1533	1558		N26	E40	.702	8880	8.6	25	1B			1.05			1 1 1	
SALO	05	1533E	1558D		N25	E40	.697	8880	8.6	25D	1B	P	1540	1.05	2.00	.12		
SALO	05	1533E	1558D		N28	E40	.712	8880	8.6	25D	1N	P	1540	.66	1.10	.12		
GRP 6953	05	1533	1558		N17	W13	.321	8876	4.7	25	-N			.99			1 1 1	
SALO	05	1533E	1558D		N16	W16	.346	8876	4.4	25D	-N	P	1540	.99	1.10	.12		
SALO	05	1533E	1558D		N18	W11	.313	8876	4.8	25D	-N	P	1540	.66	.70	.12		
GRP 6954	05	1533	1558		N10	E01	.118	8876	5.7	25	-F			.41			1 1 1	
SALO	05	1533E	1558D		N10	E01	.118	8876	5.7	25D	-F	P	1540	.41	.50	.12		
GRP 6955	05	1533	1558		S23	W22	.558	8875	4.0	25	-B			1.05			1 1 1	
SALO	05	1533E	1558D		S23	W21	.549	8875	4.1	25D	-B	P	1540	1.05	1.40	.13		
SALO	05	1533E	1558D		S22	W19	.521	8875	4.2	25D	-B	P	1540	.74	.90	.13		
SALO	05	1533E	1558D		S25	W25	.605	8875	3.8	25D	-F	P	1540	.33	.40	.13		
GRP 6956	05	1533	1558		S13	W10	.327	8875	4.9	25	-N			.66			1 1 1	
SALO	05	1533E	1558D		S13	W10	.327	8875	4.9	25D	-N	P	1540	.66	.70	.13		
GRP 6957	05	1621	1626	1624	S22	W18	.512	8875	4.3	5	-F			.31			1 1 1	
HUAN	05	1621	1626	1624	S22	W18	.512	8875	4.3	5	-F	2	C	1624	.31	.32		D
GRP 6958	05	1718	1725	1720	N19	E50	.780	8880	9.5	7	-B			.31			1 1 1	
HALE	05	1718	1725	1720	N19	E50	.780	8880	9.5	7	-B	1	C	1720	.31	.50		
GRP 6959	05	1745	1750	1747	S23	W20	.541	8875	4.2	5	-N			.40			3 3 3	
SACP	05	1744	1751	1747	S24	W20	.552	8875	4.2	7	-F	C		.62	.65			
HUAN	05	1745	1749	1746	S23	W20	.541	8875	4.2	4	-F	2	C	1746	.36	.38		E
HALE	05	1746	1751	1748	S22	W20	.529	8875	4.2	5	-N	1	C	1748	.21	.20		
GRP 6960	05	1812	1841	1823	N15	W16	.336	8876	4.6	29	-N			.86			4 4 4	
HUAN	05	1811	1836		N14	W16	.327	8876	4.6	25	-N	1	C	1823	.88	.88		E
SACP	05	1811	1838	1825	N14	W16	.327	8876	4.6	27	-N	C		1.23	1.21			
HALE	05	1815	1845	1825	N15	W15	.323	8876	4.6	30	-B	1	C	1825	.31	.30		EH
LOCK	05	1820E	1845	1820U	N15	W17	.349	8876	4.5	25D	-N	C	1820	1.00	1.10		20	
GRP 6961	05	1837	1939	1855	S21	W18	.500	8875	4.4	62	1B			1.84			5 5 5	
LOCK	05	1830	1940	1855	S20	W19	.497	8875	4.3	70	1B	C	1855	2.20	2.60		30	
HUAN	05	1834	1930		S21	W18	.500	8875	4.4	56	-B	1	C	1857	1.44	1.50		E
SACP	05	1840	1932	1856	S21	W18	.500	8875	4.4	52	1N	C		2.05	2.12			
HALE	05	1843	1921D	1854	S21	W18	.500	8875	4.4	38D	-B	1	P	1854	1.44	1.70		E
MCMA	05	1901E	1954D		S21	W19	.509	8875	4.4	53D	1B	V	1901	2.06	2.40		BFH	
GRP 6962	05	2218	2250	2228	S23	W26	.595	8875	4.0	32	-F			.30			1 1 1	
LOCK	05	2218	2250	2228	S23	W26	.595	8875	4.0	32	-F	C	2228	.30	.40		10	
GRP 6963	05	2248	2303	2251	S16	E01	.331	8877	6.0	15	-N			.60			1 1 1	
LOCK	05	2248	2303	2251	S16	E01	.331	8877	6.0	15	-N	C	2251	.60	.70		20	
GRP 6964	06	0434	0630	0434	N25	E48	.776	8880	9.8	116	-B			.33			2 1 1	
ATHN	06	0434E	0550D	0434	N25	E47	.767	8880	9.7	76D	-B	2		.33	.50	2.00		
CATA	06	0525	0710	0525	N25	E49	.786	8880	9.9	105	-B		0525	.18	.28		234	
GRP 6965	06	0734	0749	0739	N25	E46	.757	8880	9.8	15	1N			1.66			1 1 1	
CAPE	06	0734	0749	0739	N25	E46	.757	8880	9.8	15	1N	C	0739	1.66	2.50			
GRP 6966	06	0846	0858	0851	N25	E46	.757	8880	9.8	12	1N			1.12			2 2 2	
ARCE	06	0845	0855	0850	N25	E46	.757	8880	9.8	10	-N	C	0850	.66	1.00			
CAPE	06	0847	0901	0851	N25	E45	.747	8880	9.7	14	1N	C	0851	1.57	2.40		J	
GRP 6967	06	0919	0953	0925	N27	W79	.980	8871	30.5	34	1F			.60			1 1 1	
CAPE	06	0919	0953	0925	N27	W79	.980	8871	30.5	34	1F	C	0925	.60	3.50		T	
GRP 6968	06	0953	1003	0956	N17	E41	.675	8880	9.5	10	-N			.57			5 5 5	
CATA	06	0950	1010	0955	N16	E41	.672	8880	9.5	20	-B		0955	.42	.60		214	
CANA	06	0953	0959	0955	N17	E40	.663	8880	9.4	6	-N	C		.30	.40		200	
ARCE	06	0955	1000	0957	N18	E41	.678	8880	9.5	5	-N	C	0957	.53	.70			
CAPE	06	0955	1005	0958	N18	E41	.678	8880	9.5	10	-N	C	0958	.60	.80			
CAPS	06	0957E	1003		N18	E42	.690	8880	9.6	6D	-F	3		1.00	1.40		147	
GRP 6969	06	1002	1017	1005	N27	W61	.889	8871	1.8	15	-N			.78			1 1 1	
CAPE	06	1002	1017	1005	N27	W61	.889	8871	1.8	15	-N	C	1005	.78	1.80			

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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.		MAX. WIDTH Ha	MAX. INT.
GRP 6970	06	1255	1318	1258	N27	W78	.977	8871	30.7	23	-N						2 2 2	
MONT	06	1255	1310		N27	W72	.953	8871	1.1	15	-N							
CAPE	06	1255	1325	1258	N28	W81	.986	8871	30.5	30	-N	C	1300	.38				
CAPE	06	1255	1325	1318	N27	W85	.995	8871	30.2	30	1N	C	1258	.52			JKT	
GRP 6971	06	1329	1357	1333	N28	W80	.984	8871	30.6	28	-N		1318	.23			7 7 3	
LOCA	06	1315E	1405	1335	N28	W80	.984	8871	30.6	50D	1N			.74			AM	
ATHN	06	1328	1345	1330	N26	W80	.983	8871	30.6	17	-N	2	V	1330	1.38			
HOUS	06	1330	1345	1332	N28	W83	.991	8871	30.3	15	-F		C		.17	1.40	1.70	100
MCHA	06	1330	1348	1332	N27	W88	.998	8871	30.0	18	-N		V	1332	.40			D
CATA	06	1330	1405	1335	N32	W80	.984	8871	30.6	35	-N			1335	.37			153
MONT	06	1330	1410	1335	N27	W80	.983	8871	30.6	40	1B			1335	3.09			
CAPE	06	1327	1350	1338	N27	W83	.991	8871	30.3	23	1N			1338	1.66			
CAPE	06	1327	1350	1331	N27	W83	.991	8871	30.3	23	1N		C	1331	.64			KV
CAPE	06	1351	1400	1354	N27	W83	.991	8871	30.4	9	-N		C	1354	.37			
CAPE	06	1346	1358	1348	N29	W63	.905	8871	1.8	12	-F		C	1348	.46	1.10		
CAPE	06	1409	1426	1411	N29	W63	.905	8871	1.9	17	-N		C	1411	.52	1.30		
GRP 6972	06	1820	1849	1830	N18	W78	.976	8871	30.9	29	1N				.56			2 2 2
LOCK	06	1816	1850	1830	N17	W74	.960	8871	1.2	34	1N		C	1830	.80	2.20		20
MCHA	06	1823	1847	1830	N15	W78	.976	8871	30.9	24	-N		C	1830	.31	.70		
LOCK	06	1800	1835	1816	N26	W82	.989	8871	30.6	35	-F		C	1816	.50	1.70		10
GRP 6973	06	2116	2124	2120	N28	W67	.928	8871	1.9	8	-F				.20			1 1 1
LOCK	06	2116	2124	2120	N28	W67	.928	8871	1.9	8	-F		C	2120	.20	.50		10
GRP 6974	06	2309	2316	2312	N26	W82	.989	8871	30.8	7	-N				.20			1 1 1
LOCK	06	2309	2316	2312	N26	W82	.989	8871	30.8	7	-N		C	2312	.20	.70		20
GRP 6975	06	2359	0023	0003	N27	W82	.989	8871	30.8	24	1B				.80			1 1 1
LOCK	06	2359	0023	0003	N27	W82	.989	8871	30.8	24	1B		C	0003	.80	2.70		30
GRP 6976	07	0219	0238	0222	N28	E36	.671	8880	9.8	19	-N				.76			2 2 2
LOCK	07	0218	0222D	0222U	N26	E36	.659	8880	9.8	4D	-N		C	0222	.90	1.20		20
HALE	07	0220	0238	0222	N29	E35	.667	8880	9.7	18	-N	2	C	0222	.62	.80		
GRP 6977	07	0419	0425	0421	N26	W88	.998	8871	30.6	6	-N				.31			1 1 1
HALE	07	0419	0425	0421	N26	W88	.998	8871	30.6	6	-N	2	C	0421	.31			ARCH
GRP 6978	07	0635	0855	0823	N28	W70	.944	8871	2.0	140	-F				.55			3 1 1
CATA	07	0635	0850	0755	N30	W73	.959	8871	1.8	135	-F				.55			148
MEUD	07	0827	0837		N29	W67	.929	8871	2.3	10	-F		C	0832	.21			
ATHN	07	0850E	0900D	0850	N25	W70	.942	8871	2.1	10D	-N	2			.33			1.60
GRP 6979	07	0826	0910	0845	N23	E69	.936	8883	12.5	44	1N				1.29			2 2 2
CAPE	07	0826	0915D	0850	N24	E68	.930	8883	12.5	49D	1N		C	0850	2.03	5.70		
CATA	07	0840	0905	0840	N22	E71	.946	8883	12.7	25	-N				.840			174
CATA	07	0635	0835	0755	N22	E68	.929	8883	12.4	120	-N				.755			156
GRP 6979	07	0849	0903	0853	N24	E69	.936	8883	12.5	14	-N				5.13			6 5 2
CANA	07	0848	0911	0858U	N24	E69	.936	8883	12.5	23	-F				.50	1.10		100
CRON	07	0849	0856	0851	N24	E71	.947	8883	12.7	7	-F		C		.40	1.00		100
MEUD	07	0849	0856	0850	N23	E68	.930	8883	12.5	7	-N		C	0850	.52			
CAPS	07	0852E	0904		N23	E70	.941	8883	12.6	12D	1F	3			2.00			150
ARCE	07	0854E	0857D		N24	E69	.936	8883	12.5	3D	-N		P	0854	.56	1.30		
WEND	07	0848E	0912		N24	E67	.925	8883	12.4	24D	2N		V		8.25			
GRP 6980	07	0911	0934	0915	N28	W74	.962	8871	1.8	23	-N				.56			3 3 3
CATA	07	0910	0935	0915	N29	W75	.967	8871	1.8	25	1N				.92			178
CANA	07	0911	0934U	0915	N28	W78	.977	8871	1.5	23U	-N		C		.40	1.10		200
MEUD	07	0913	0933		N28	W69	.939	8871	2.2	20	-F				.36			
GRP 6981	07	0945	0955	0955	N24	E70	.942	8883	12.7	10	2N				4.05			
ABST	07	0945E	0955D	0955D	N24	E70	.942	8883	12.7	10D	2N		P		4.05			
GRP 6982	07	1015	1022	1018	N27	W70	.943	8871	2.2	7	-F				.21			1 1 1
MEUD	07	1015	1022	1018	N27	W70	.943	8871	2.2	7	-F		C	1018	.21			D
GRP 6983	07	1033	1101	1044	N29	W75	.967	8871	1.8	28	-N				.34			3 3 3
MEUD	07	1035	1054		N28	W70	.944	8871	2.2	19	-N		C	1044	.26			
CANA	07	1035	1108	1044	N28	W78	.977	8871	1.6	33	-N				.40	1.10		200
CATA	07	1030	1100	1030	N32	W76	.971	8871	1.7	30	-N				.37			199
GRP 6984	07	1155	1235	1155	N32	W75	.968	8871	1.9	40	-N				.09			1 1 1
CATA	07	1155	1235	1155	N32	W75	.968	8871	1.9	40	-N				.09			186
GRP 6985	07	1209	1218	1214	N23	E67	.924	8883	12.5	9	-N				.30			1 1 1
CANA	07	1209	1218	1214	N23	E67	.924	8883	12.5	9	-N		C		.30	.70		200
GRP 6986	07	1255	1400		N29	E76	.971	8883	13.2	65	1N				2.06			1 1 1
MONT	07	1255	1400		N29	E76	.971	8883	13.2	65	1N				2.06			1 1 1
GRP 6987	07	1332	1400	1335	N29	W75	.967	8871	1.9	28	-N				.60			3 3 3
MEUD	07	1341	1345		N29	W72	.954	8871	2.2	4	-N		C	1344	.26			D
CATA	07	1332	1515	1335	N32	W75	.968	8871	1.9	103	-B				.335			219
SANM	07	1255	1415	1301	N27	W79	.980	8871	1.6	80	1N		C	1301	1.29			
MEUD	07	1331	1332		N27	W72	.953	8871	2.2	1	-N		C	1332	.21			D
GRP 6988	07	1332	1415	1335	N21	E32	.583	8880	10.0	43	-N				.37			1 1 1
CATA	07	1332	1415	1335	N21	E32	.583	8880	10.0	43	-N				.37	.45		178

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OBSERV- ATORY	OBSERVED UT				LOCATION				DURA- TION — TANCE	IM- POR- 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.	MAX. WIDTH H α	MAX. INT. %
GRP 6989	07	1527	1546	1531	N28	W80	.983	8871	1.6	19	1N							6 6 6	
CATA	07	1525	1545	1530	N33	W85	.994	8871	1.3	20	-N								
SACP	07	1526	1538	1531	N26	W77	.974	8871	1.9	12	1N	C	1530	.66				172	
SANM	07	1527	1537D	1531	N27	W79	.980	8871	1.7	100	1N	P	1531	.35					
CANA	07	1528	1540	1533	N28	W81	.986	8871	1.6	12	1N	C		.92	2.19				
HUAN	07	1534E	1550D		N26	W82	.988	8871	1.5	160	1F	1 P	1535	.52					
LOCK	07	1540E	1555	1547	N29	W74	.963	8871	2.1	150	-F	C	1547	.70	2.40			200	
GRP 6990	07	1529	1553	1536	N33	E32	.669	8880	10.0	24	-F			.88					
SACP	07	1529	1553	1536	N33	E32	.669	8880	10.0	24	-F	C		.60	1.70			10	
GRP 6991	07	1559	1633	1603	N28	W82	.988	8871	1.5	34	-F			.41					
SACP	07	1559	1629	1603	N31	W84	.993	8871	1.4	30	-F	C		.41					
HUAN	07	1625	1637	1629	N25	W80	.983	8871	1.7	12	-F	2 C	1629	.41					
GRP 6992	07	1627	1642	1629	N24	E28	.558	8880	9.8	15	-F			.25					
HUAN	07	1627	1642	1629	N24	E28	.558	8880	9.8	15	-F	2 C	1629	.25	.26				
GRP 6993	07	1653	1712	1658	N24	E26	.536	8880	9.7	19	-F			.50					
LOCK	07	1653	1712	1658	N24	E26	.536	8880	9.7	19	-F	C	1658	.50	.60			10	
GRP 6994	07	1712	1734	1717	N27	W80	.983	8871	1.7	22	-N			.46					
LOCK	07	1712	1724	1717	N28	W74	.962	8871	2.2	12	-F	C	1717	.30	.80			10	
MCMA	07	1724E	1743D		N25	W85	.995	8871	1.4	190	-N	S	1724	.62					
GRP 6995	07	1800	1817	1807	S24	W02	.463	8877	7.6	17	-F			.20					
LOCK	07	1800	1817	1807	S24	W02	.463	8877	7.6	17	-F	C	1807	.20	.20			10	
GRP 6996	07	1850	1920	1905	N28	W74	.962	8871	2.2	30	1F			.80					
LOCK	07	1850	1920	1905	N28	W74	.962	8871	2.2	30	1F	C	1905	.80	2.20			10	
GRP 6997	07	1925	2002	1943	S24	W46	.793	8875	4.4	37	-N			.86					
LOCK	07	1925	2005	1945	S26	W45	.794	8875	4.4	40	-F	C	1945	.80	1.30			10	
SACP	07	1939E	1959	1940	S23	W46	.789	8875	4.4	20D	-N	C		.92	1.19				
MCMA	07	1959E	1959D		S24	W47	.802	8875	4.3		-F	S	1959	.52	.90				
GRP 6998	07	1946	2017	1954	N27	E24	.542	8880	9.6	31	1N			2.31					
LOCK	07	1946	2020	1955	N26	E25	.543	8880	9.7	34	1N	C	1955	2.00	2.40			20	
SACP	07	1949E	2013	1952	N27	E23	.533	8880	9.6	24D	1N	C		2.34	2.46				
MCMA	07	1959E	2159D		N27	E24	.542	8880	9.6	120D	1F	S	1959	2.58	3.00				
GRP 6999	07	1959	2103	2012	N26	W83	.991	8871	1.6	64	-N			.46					
MCMA	07	1959E	2100D		N25	W87	.997	8871	1.3	61D	-N	S	1959	.52					
LOCK	07	2008	2030	2012	N26	W78	.977	8871	2.0	22	-F	C	2012	.40	1.20			10	
HUAN	07	2054E	2105		N26	W85	.994	8871	1.5	110	-N	1 P	2056	.31					
GRP 7000	07	2041	2123	2057	N25	E24	.523	8880	9.7	42	1F			1.60					
SACP	07	2043	2128	2058	N26	E23	.523	8880	9.6	45	1F	C		2.13	2.23				
LOCK	07	2050	2117	2056	N25	E23	.513	8880	9.6	27	-F	C	2056	.50	.60			10	
HUAN	07	2054E	2106D		N25	E24	.523	8880	9.7	12D	1F	1 P	2057	1.96	2.06				
LOCK	07	2038	2054	2046	N22	E25	.508	8880	9.7	16	-F	C	2046	.70	.80			10	
GRP 7001	07	2118	2142	2126	N19	W38	.646	8876	5.0	24	-F			.81					
LOCK	07	2118	2135	2124	N19	W39	.658	8876	5.0	17	-F	C	2124	.80	1.10			10	
MCMA	07	2118	2150D		N20	W37	.638	8876	5.1	32D	-F	S	2125	.72	.90				
SACP	07	2128E	2141	2128E	N19	W39	.658	8876	5.0	13D	-N	C		.92	1.03				
GRP 7002	07	2119	2148	2124	N26	W83	.991	8871	1.7	29	-N			.51					
LOCK	07	2119	2137	2124	N26	W78	.977	8871	2.0	18	-F	C	2124	.30	.90			10	
MCMA	07	2130E	2159D		N25	W88	.998	8871	1.3	29D	-N	V	2135	.72					
GRP 7003	07	2205	2215	2210	N26	W83	.991	8871	1.7	10	-F			.30					
LOCK	07	2205	2215	2210	N26	W83	.991	8871	1.7	10	-F	C	2210	.30	1.00			10	
GRP 7004	07	2240	0000	2245	N26	W83	.991	8871	1.7	80	-F			.30					
LOCK	07	2240	0000	2245	N26	W83	.991	8871	1.7	80	-F	C	2245	.30	1.00			10	
GRP 7004	07	2240	0000	2315	N26	W83	.991	8871	1.7	80	-F			.30					
LOCK	07	2240	0000	2315	N26	W83	.991	8871	1.7	80	-F	C	2315	.30	1.00			10	
GRP 7005	08	0002	0025	0012	N23	E21	.471	8880	9.6	23	-F			.50					
LOCK	08	0002	0025	0012	N23	E21	.471	8880	9.6	23	-F	C	0012	.50	.60			10	
GRP 7006	08	0107	0142	0120	N12	W32	.541	8876	5.6	35	-F			1.02					
LOCK	08	0107	0145	0114	N12	W32	.541	8876	5.6	38	-F	C	0114	1.00	1.20			10	
MANI	08	0117E	0133	0119	N12	W31	.527	8876	5.7	16D	-F	2	0119	1.24	1.46				
SACP	08	0123E	0147D	0126	N13	W34	.572	8876	5.5	24D	-N	C		.83	.87				
GRP 7007	08	0142	0155	0147	N23	E20	.460	8880	9.6	13	-F			.30					
LOCK	08	0142	0155	0147	N23	E20	.460	8880	9.6	13	-F	C	0147	.30	.30			10	
GRP 7008	08	0330	0337	0330	N25	E85	.994	8886	14.5	7	1F			1.29					
KODA	08	0330E	0337	0330	N25	E85	.994	8886	14.5	7D	1F	P	0336	1.29		1.84			
GRP 7009	08	0537	0546	0539	N27	W90	1.000	8871	1.5	9	-N			.30					
CRON	08	0537	0546	0539	N27	W90	1.000	8871	1.5	9	-N	C		.30	1.00			200	
GRP 7010	08	0639	0705	0647	N24	E19	.461	8880	9.7	26	-N			1.46					
BUCA	08	0633	0710		N23	E16	.420	8880	9.5	37	-N	C	0649	1.76	1.90			4 4 4	
MANI	08	0639	0706	0644	N23	E14	.401	8880	9.3	27	-F	2	0644	1.75	1.90				
ATHN	08	0640	0655	0642	N24	E27	.546	8880	10.3	15	-F	2	0642	1.65	1.80	1.40			
CATA	08	0645	0710	0655	N24	E18	.451	8880	9.6	25	-N			.66	.74				
GRP 7011	08	0731	0738	0732	N27	W89	.999	8871	1.6	7	-N			.21					
CATA	08	0730	0735	0730	N27	W88	.998	8871	1.7	5	-N			.15					
CRON	08	0731	0739	0733	N27	W90	1.000	8871	1.6	8	-N	C	0733	.30	1.00			151	
CAPE	08	0731	0741	0733	N26	W89	.999	8871	1.6	10	-F	C		.18				200	
GRP 7012	08	0803	0809	0804															

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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.	MAX. WIDTH Ha		MAX. INT. %	
GRP 7013	08	0813	0823	0816	N27	W90	1.000	8871	1.6	10	-N			.27				2 2 2	
CRON	08	0813	0821	0815	N27	W90	1.000	8871	1.6	8	-N			.30	1.00		200		
CAPE	08	0813	0824	0817	N26	W90	1.000	8871	1.6	11	-N	C	0817	.23					
GRP 7014	08	0823	0842	0827	S21	W13	.465	8877	7.4	19	-F			1.33				1 1 1	
CAPE	08	0823	0842	0827	S21	W13	.465	8877	7.4	19	-F	C	0827	1.33	1.50				
GRP 7015	08	0909	0947	0921	N26	W90	1.000	8871	1.6	38	-N			.19				2 2 2	
CAPE	08	0909	0944	0921	N26	W90	1.000	8871	1.6	35	-F			.14					
ARCE	08	0930E	0950D	0940	N25	W90	1.000	8871	1.6	20D	-N	C	0940	.23	1.30				
GRP 7016	08	1021	1036	1028	S24	W16	.525	8877	7.2	15	-N			.44				3 3 3	
CAPE	08	1015	1047	1029	S21	W14	.472	8877	7.4	32	-N	C	1029	.52	.60			H	
CANA	08	1024	1032	1030	S22	W15	.493	8877	7.3	8	-N	C		.40	.50		200		
CATA	08	1025	1030	1025	S30	W18	.612	8877	7.1	5	-N			.40	.47		162		
GRP 7017	08	1056	1111	1101	N27	E17	.477	8880	9.7	15	-N			1.04				2 2 2	
CAPE	08	1053	1112	1059	N27	E16	.469	8880	9.7	19	-F	C	1059	1.38	1.60			F	
CANA	08	1058	1110	1102	N26	E17	.465	8880	9.7	12	-N	C		.70	.80		200		
GRP 7018	08	1154	1217	1200	S22	W08	.450	8877	7.9	23	-N			.69				1 1 1	
CAPE	08	1154	1217	1200	S22	W08	.450	8877	7.9	23	-N	C	1200	.69	.80			F	
GRP 7019	08	1311	1328	1314	N29	W89	.999	8871	1.9	17	-N			.65				5 5 4	
CAPS	08	1309	1325		N26	W90	1.000	8871	1.8	16	IN	2	1314	1.20			168		
CAPE	08	1309	1328	1314	N29	W90	1.000	8871	1.8	19	-N	C	1314	.52				AC	
SACP	08	1310	1325	1314	N29	W86	.996	8871	2.1	15	-N	C		.52					
MCMA	08	1311	1325	1314	N26	W90	1.000	8871	1.8	14	-N	V	1314					E	
CATA	08	1315	1335	1315	N33	W90	.999	8871	1.8	20	-N			.35			162		
GRP 7020	08	1319	1331	1322	S23	W21	.553	8877	7.0	12	-N			1.38				1 1 1	
CAPE	08	1319	1331	1322	S23	W21	.553	8877	7.0	12	-F	C	1322	1.38	1.70			CL	
GRP 7021	08	1415	1423	1416	S23	W56	.872	8875	4.4	8	-N			.20				1 1 1	
CANA	08	1415	1423	1416	S23	W56	.872	8875	4.4	8	-N	C		.20	.40		200		
GRP 7022	08	1416	1421	1418	N31	W89	.999	8871	1.9	5	-F			.15				3 3 3	
CATA	08	1415	1420	1415	N37	W90	.999	8871	1.8	5	-N			.13			155		
HUAN	08	1416	1420D		N28	W90	1.000	8871	1.8	4D	-F	1	C	1417	.21				D
SACP	08	1416	1422	1418	N28	W87	.997	8871	2.1	6	-F	C		.10					
GRP 7023	08	1600	1645	1612	N27	W90	1.000	8871	1.9	45	-F			.30				1 1 1	
LOCK	08	1600	1645	1612	N27	W90	1.000	8871	1.9	45	-F	C	1612	.30	1.20		10	H	
GRP 7024	08	1642	1658	1648	N27	E12	.439	8880	9.6	16	-N			.76				4 4 4	
LOCK	08	1640	1700	1646	N27	E12	.439	8880	9.6	20	-N	C	1646	1.00	1.10		20		
MCMA	08	1642	1700	1649	N27	E12	.439	8880	9.6	18	-N	C	1649	.77	.90			E	
HUAN	08	1645	1654	1647	N27	E12	.439	8880	9.6	9	-N	1	C	1647	.75	.77			E
SACP	08	1651E	1658U	1651E	N27	E13	.446	8880	9.7	7U	-F	C		.52	.51				
GRP 7025	08	1710	1721	1713	N28	W88	.998	8871	2.1	11	-N			.16				2 2 2	
LOCK	08	1710	1725	1712	N28	W90	1.000	8871	2.0	15	-N	C	1712	.10	.40		20		
SACP	08	1712E	1716	1713	N28	W85	.994	8871	2.3	4D	-F	C		.21					
GRP 7026	08	1753	1835	1804	S23	W23	.571	8877	7.0	42	-N			.83				5 5 5	
LOCK	08	1751	1830	1803	S23	W24	.580	8877	6.9	39	-N	C	1806	1.20	1.40		20		
HUAN	08	1753	1814D		S23	W23	.571	8877	7.0	21D	-N	1	C	1758	.80	.87			E
MCMA	08	1753	1835	1801	S22	W23	.560	8877	7.0	42	-F	C	1801	.72	.90			E	
HALE	08	1754	1841	1804	S23	W22	.562	8877	7.1	47	-N	1	C	1804	.62	.70			G
SACP	08	1803E	1826D	1806U	S23	W23	.571	8877	7.0	23D	-N	C		.83	.88				
GRP 7027	08	1854	2000	1911	S15	W34	.622	8877	6.2	66	-N			.89				4 4 4	
LOCK	08	1845	2000	1912	S15	W34	.622	8877	6.2	75	IN	C	1912	1.60	2.10		20		
HALE	08	1856	1946	1912	S16	W34	.628	8877	6.2	50	-N	1	C	1912	.52	.70			G
MCMA	08	1900	2015	1910	S15	W33	.610	8877	6.3	75	-N	C	1910	.62	.80			E	
HUAN	08	1909E	2000D		S15	W36	.646	8877	6.1	51D	-F	1	P	1911	.83	.91			E
HALE	08	1905	1946	1919	S18	W32	.619	8877	6.4	41	-N	1	C	1919	.15	.20			G
HUAN	08	1909E	2000D		S17	W32	.612	8877	6.4	51D	-F	1	P						
HALE	08	2005	2017	2007	S13	W35	.623	8877	6.2	12	-N	1	C	2007	.10	.10			G
GRP 7028	08	1951	2009	1958	N30	E24	.571	8880	10.6	18	-F			.34				3 3 3	
HALE	08	1948	2009	1958	N30	E24	.571	8880	10.6	21	-N	1	C	1958	.21	.30			G
LOCK	08	1952	2010	2000	N29	E23	.552	8880	10.6	18	-F	C	2000	.40	.50		10		
MCMA	08	1954	2007	1956	N31	E25	.590	8880	10.7	13	-F	C	1956	.41	.50			D	
GRP 7029	08	2004	2028	2007	S20	W59	.887	8875	4.4	24	-N			.10				1 1 1	
HALE	08	2004	2028	2007	S20	W59	.887	8875	4.4	24	-N	1	C	2007	.10	.20			
GRP 7030	08	2031	2047	2035	N27	E11	.433	8880	9.7	16	-N			.47				3 3 3	
LOCK	08	2030	2047	2035	N27	E11	.433	8880	9.7	17	-F	C	2035	.70	.80		10		
MCMA	08	2032	2045	2033	N28	E10	.441	8880	9.6	13	-N	C	2033	.41	.50			E	
HALE	08	2032	2050	2036	N26	E11	.419	8880	9.7	18	-N	1	C	2036	.31	.30			E
GRP 7031	08	2117	2135	2122	N14	W41	.666	8876	5.8	18	-F			.10				1 1 1	
HALE	08	2117	2135	2122	N14	W41	.666	8876	5.8	18	-F	1	C	2122	.10	.10			G
GRP 7032	08	2202	2218	2204	N14	W41	.666	8876	5.8	16	-F			.10				1 1 1	
HALE	08	2202	2218	2204D	N14	W41	.666	8876	5.8	16	-F	1	P	2204	.10	.10			
GRP 7033	08	2237	2330	2244	N30	W90	1.000	8871	2.2	53	1F			.80				1 1 1	
LOCK	08	2237	2330	2244	N30	W90	1.000	8871	2.2	53	1F	C	2244	.80	3.20		10	H	
GRP 7034	08	2336	2355	2339	N14	W57	.840	8876	4.7	19	-F			.50				1 1 1	
LOCK	08	2336	2355	2339	N14	W57	.840	8876	4.7	19	-F	C	2339	.50	1.40		10		

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ho		MAX. INT.
GRP 7035	09	0110	0234	0204	S23	W64	.926 8875	4.2	84	1B			1.94				3 2 2
LOCK	09	0110	0205D	0142	S23	W66	.937 8875	4.1	55D	1N	C	0142	1.70	3.90		20	
MANI	09	0115E	0230		S23	W64	.926 8875	4.3	75D	1B	1	0144	2.17	4.50			
HALE	09	0203E	0237D	0226U	S23	W63	.920 8875	4.4	34D	-N	1	P 0226	.10				BF
GRP 7036	09	0314	0333	0318	N27	E10	.425 8880	9.9	19	1N			2.99				2 2 2
MANI	09	0313	0335	0318	N28	E10	.440 8880	9.9	22	1F	1	0318	2.37	2.61			
TACH	09	0315	0330		N26	E09	.405 8880	9.8	15	1N	V	0315	3.61	3.90	1.90	60	BE
GRP 7037	09	0433	0442	0435	N04	W31	.514 8877	6.9	9	-N			.15				1 1 1
MANI	09	0433E	0442	0435	N04	W31	.514 8877	6.9	9D	-N	2	0435	.15	.18			
GRP 7038	09	0435	0438	0436	N22	E11	.361 8880	10.0	3	-N			.26				1 1 1
HALE	09	0435	0438D	0436U	N22	E11	.361 8880	10.0	3D	-N	2	P 0436	.26	.30			F
GRP 7039	09	0615	0623	0616	N22	E41	.691 8883	12.3	8	-N			.33				1 1 1
ATHN	09	0615	0623	0616	N22	E41	.691 8883	12.3	8	-N	2	0616	.33	.50	1.70		
GRP 7040	09	0755	0815	0758	N16	W62	.884 8876	4.7	20	1N			1.08				2 2 2
CATA	09	0755	0805	0755	N18	W62	.885 8876	4.7	10	-N		0755	.92			158	
CAPE	09	0755	0825	0800	N14	W62	.883 8876	4.7	30	1N	C	0800	1.24	2.80			HV
GRP 7041	09	0807	0828	0814	N24	E38	.667 8883	12.2	21	-F			.69				1 1 1
CAPE	09	0807	0828	0814	N24	E38	.667 8883	12.2	21	-F	C	0814	.69	.90			H
GRP 7042	09	0920	0940	0924	N16	W63	.891 8876	4.7	20	-F			.52				1 1 1
CAPE	09	0920	0940	0924	N16	W63	.891 8876	4.7	20	-F	C	0924	.52	1.20			
GRP 7043	09	1014	1027	1020	N24	E37	.656 8883	12.2	13	-F			.10				1 1 1
CANA	09	1014	1027	1020	N24	E37	.656 8883	12.2	13	-F	C		.10	.10		100	
GRP 7044	09	1100	1120	1103	N24	E37	.656 8883	12.2	20	-F			.10				1 1 1
CANA	09	1100	1120	1103	N24	E37	.656 8883	12.2	20	-F	C		.10	.10		100	
GRP 7045	09	1446	1502	1455	N23	E33	.606 8883	12.1	16	-F			.50				1 1 1
HUAN	09	1446	1502	1455	N23	E33	.606 8883	12.1	16	-F	2	C 1455	.50	.54			D
GRP 7046	10	0452	0517	0500	N24	W09	.374 8880	9.5	25	1N			3.63				2 2 1
HALE	10	0451	0502D	0456	N24	W10	.381 8880	9.5	11D	-N	1	P 0456	.31	.30			
ATHN	10	0452	0517	0503	N23	W08	.353 8880	9.6	25	1N	2	0503	3.63	3.80	1.70		
GRP 7047	10	0645	0704	0649	S17	W54	.841 8877	6.2	19	-F			.90				1 1 1
CRON	10	0645	0704	0649	S17	W54	.841 8877	6.2	19	-F	C		.90	1.60		100	
GRP 7048	10	0854	0912	0858	N22	E28	.540 8883	12.5	18	1F			4.05				1 1 1
CAPE	10	0854	0912	0858	N22	E28	.540 8883	12.5	18	1F	C	0858	4.05	4.80			H
GRP 7049	10	1110	1130	1115	S20	W90	1.000 8875	3.7	20	-F			.09				1 1 1
CATA	10	1110	1130	1115	S20	W90	1.000 8875	3.7	20	-F		1115	.09			126	
GRP 7050	10	1432	1438	1433	S17	W59	.882 8877	6.2	6	-F			.21				1 1 1
MEUD	10	1432	1438	1433	S17	W59	.882 8877	6.2	6	-F	C	1433	.21	.40			D
GRP 7051	10	1502	1525	1508	S15	E67	.933 8887	15.7	23	-N			.30				2 2 2
CANA	10	1501	1526	1504	S16	E67	.934 8887	15.7	25	-N	C		.30	.70		200	
HOUS	10	1503	1524	1512	S14	E66	.926 8887	15.6	21	-F	C		.30	.70		100	
GRP 7052	10	1606	1639	1612	N24	W12	.395 8880	9.8	33	-F			.62				1 1 1
HALE	10	1606E	1639	1612	N24	W12	.395 8880	9.8	33D	-F	2	P 1612	.62	.70			E
GRP 7053	10	1717	1733	1724	N23	W12	.382 8880	9.8	16	-N			.34				3 3 3
LOCK	10	1717	1738	1724	N23	W13	.390 8880	9.7	21	-N	C	1724	.40	.40		10	
MEUD	10	1722	1728		N23	W10	.366 8880	10.0	6	-F	C	1723	.41	.40			E
HALE	10	1713	1846	1713	N23	W12	.382 8880	9.8	93	-B	1	C 1713	.21	.20			EK
LOCK	10	1755	1815	1800	N23	W13	.390 8880	9.8	20	-F	C	1800	.30	.30		10	
GRP 7054	10	1734	1757	1739	N24	E17	.439 8883	12.0	23	-N			.64				5 5 5
LOCK	10	1732	1800	1740	N24	E15	.420 8883	11.9	28	-N	C	1740	.90	1.00		20	
HALE	10	1732	1819	1744	N24	E18	.448 8883	12.1	47	-N	2	C 1744	.52	.60			
HOUS	10	1734	1753U	1737	N24	E17	.439 8883	12.0	19U	-N	C		.50	.60		200	
MEUD	10	1735	1745	1737	N23	E20	.458 8883	12.2	10	-N	C	1737	.77	.80			E
HUAN	10	1735	1750	1739	N23	E17	.427 8883	12.0	15	-N	1	C 1739	.50	.50			E
GRP 7055	10	1915	1950	1919	S14	E65	.920 8887	15.7	35	-N			.21				2 2 2
HALE	10	1915	1950	1919	S14	E64	.913 8887	15.6	35	-N	1	C 1919	.21				
MCMA	10	1917E	1930D		S14	E65	.920 8887	15.7	13D	-F	S	1917	.21	.50			D
GRP 7056	10	2039	2045	2040	N23	W14	.399 8880	9.8	6	-F			.25				1 1 1
HUAN	10	2039	2045	2040	N23	W14	.399 8880	9.8	6	-F	1	C 2040	.25	.25			D
GRP 7057	10	2054	2113	2100	N23	E15	.408 8883	12.0	19	-N			.67				3 3 3
LOCK	10	2050	2125	2103	N24	E15	.420 8883	12.0	35	-N	C	2103	.90	1.00		20	
HUAN	10	2056	2108	2059	N24	E15	.420 8883	12.0	12	-N	2	C 2059	.70	.71			E
HOUS	10	2057	2107	2058	N20	E16	.382 8883	12.1	10	-N	C		.40	.40		200	
GRP 7058	10	2113	2122	2115	N24	W14	.411 8880	9.8	9	-F			.25				1 1 1
HUAN	10	2113	2122	2115	N24	W14	.411 8880	9.8	9	-F	2	C 2115	.25	.25			D
GRP 7059	10	2146	2205	2148	N24	W14	.411 8880	9.9	19	-N			.58				2 2 2
HUAN	10	2145E	2158D		N24	W14	.411 8880	9.9	13D	-N	1	P 2155	.75	.76			
HALE	10	2146	2205	2148	N24	W13	.403 8880	9.9	19	-N	1	P 2148	.41	.50			
GRP 7060	11	0115	0200	0140	N24	W18	.447 8880	9.7	45	-F			.80				1 1 1
LOCK	11	0115	0200	0140	N24	W18	.447 8880	9.7	45	-F	C	0140	.80	.90		10	
GRP 7061	11	0326	0344		N23	W18	.436 8880	9.8	18	-B			.26				1 1 1
HALE	11	0326E	0344D		N23	W18	.436 8880	9.8	18D	-B	1	P 0344	.26	.30			
GRP 7062	11	0423	0438		N29	W17	.497 8880	9.9	15	-N			.15				1 1 1
HALE	11	0423E	0438		N29	W17	.497 8880	9.9	15D	-N	1	P 0423	.15	.20			
GRP 7063	11	0613	0636		N25	W19	.468 8880	9.8	23	-F			1.55				1 1 1
BUCA	11	0613	0636		N25	W19	.468 8880	9.8	23	-F	C	0618	1.55	1.70			

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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	MIN.	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT.
1967 JULY																		
GRP 7064	11	1027	1049	1035	S18	W70	.953	8875	6.2	22	2N		1.98				1 1 1	
CAPE	11	1027	1049	1035	S18	W70	.953	8875	6.2	22	2N	C	1035	1.98	6.40			
GRP 7065	11	1114	1151	1122	S06	W67	.925	8877	6.4	37	2F		1.98				1 1 1	
CAPE	11	1114	1151	1122	S06	W67	.925	8877	6.4	37	2F	C	1122	1.98	5.40			
GRP 7066	11	2145	2155	2147	N24	W28	.554	8880	9.8	10	-N		.28				3 3 3	
LOCK	11	2144	2156	2147	N24	W28	.554	8880	9.8	12	-F	C	2147	.50	.60		10	
HUAN	11	2144	2156		N25	W29	.573	8880	9.7	12	-F	1	C	2148	.25	.26		D
HALE	11	2146	2154	2147	N24	W28	.554	8880	9.8	8	-B	1	P	2147	.10	.10		
GRP 7067	11	2240	2305	2255	N25	E21	.488	8886	13.5	25	-F		.40				1 1 1	
LOCK	11	2240	2305	2255	N25	E21	.488	8886	13.5	25	-F	C	2255	.40	.50		10	
	11	2355	0000		NO FLARE PATROL													
GRP 7068	12	0104	0138	0106	N24	E00	.342	8883	12.0	34	-N		.31				2 2 2	
HALE	12	0104E	0133D	0106	N24	E01	.342	8883	12.1	29D	-B	2	P	0106	.21	.20		
LOCK	12	0110	0142	0125	N24	W01	.342	8883	12.0	32	-F	C	0125	.40	.40		10	
	12	0250	0300		NO FLARE PATROL													
	12	0320	0330		NO FLARE PATROL													
GRP 7069	12	0417	0425	0421	S21	E53	.845	8888	16.2	8	-B		.31				1 1 1	
HALE	12	0417E	0425D	0421	S21	E53	.845	8888	16.2	8D	-B	2	P	0421	.31	.60		
GRP 7070	12	0417	0425	0423	S19	E71	.959	8889	17.5	8	-B		.31				1 1 1	
HALE	12	0417E	0425D	0423	S19	E71	.959	8889	17.5	8D	-B	2	P	0423	.31			
GRP 7071	12	0420	0433	0424	N23	E17	.424	8886	13.5	13	-F		.41				1 1 1	
MANI	12	0420	0433	0424	N23	E17	.424	8886	13.5	13	-F	2		0424	.41	1.45		
GRP 7072	12	0438	0504	0443	S05	E18	.344	8887	13.5	26	-B		.31				1 1 1	
HALE	12	0438E	0504D	0443	S05	E18	.344	8887	13.5	26D	-B	2	P	0443	.31	.30		
GRP 7073	12	0438	0447	0445	N25	E20	.477	8886	13.7	9	-N		.21				1 1 1	
HALE	12	0438E	0447	0445	N25	E20	.477	8886	13.7	9D	-N	2	P	0445	.21	.20		
GRP 7074	12	0526	0550	0534	S18	E50	.809	8889	16.0	24	-B		.66				1 1 1	
ATHN	12	0526	0550	0534	S18	E50	.809	8889	16.0	24	-B	2		0534	.66	1.00	2.00	
GRP 7075	12	0535	0554	0538	S23	W70	.958	8877	7.0	19	-N		.66				1 1 1	
ATHN	12	0535	0554	0538	S23	W70	.958	8877	7.0	19	-N	2		0538	.66		1.90	
GRP 7076	12	0600	0654		S22	E55	.864	8889	16.4	54	-N		.66				1 1 1	
BUCA	12	0600	0654		S22	E55	.864	8889	16.4	54	-N	C	0615	.66	1.20			
GRP 7077	12	0656	0740	0724	N03	W80	.984	8876	6.3	44	-F		.32				2 2 2	
BUCA	12	0656	0750		N02	W80	.984	8876	6.3	54	-F	P	0730	.43				
CRON	12	0722	0730	0724	N04	W79	.981	8876	6.4	8	-F	C		.20	.60		100	
GRP 7078	12	0826	0835	0827	N06	W80	.984	8876	6.4	9	-N		.29				2 2 2	
CATA	12	0825	0835	0825	N08	W80	.983	8876	6.4	10	-N		.37				158	
CRON	12	0827	0834	0829	N04	W79	.981	8876	6.4	7	-F	C	0825	.20	.60		100	
GRP 7079	12	0830	1000	0835	N25	E18	.457	8886	13.7	90	-N		.41				1 1 1	
SALO	12	0830E	1000D	0835	N24	E19	.456	8886	13.8	90D	-N	P	0840	.41	.50	.14		
SALO	12	0830E	1000D	0835	N26	E18	.469	8886	13.7	90D	-N	P	0840	.41	.50	.14		
GRP 7080	12	0830	1000	0835	S18	E66	.931	8889	17.3	90	1N		.83				1 1 1	
SALO	12	0830E	1000D	0835	S18	E66	.931	8889	17.3	90D	1N	P	0840	.83	2.10	.15		
GRP 7081	12	0830	1000	0835	S19	E50	.812	8889	16.1	90	-N		.50				1 1 1	
SALO	12	0830E	1000D	0835	S19	E50	.812	8889	16.1	90D	-N	P	0840	.50	.90	.13		
GRP 7082	12	0922	0939	0928	N17	W37	.623	8880	9.6	17	-N		.54				2 2 2	
CAPE	12	0920	0946	0928	N17	W37	.623	8880	9.6	26	-N	C	0928	.87	1.10			
MEUD	12	0923	0932		N17	W37	.623	8880	9.6	9	-F	C	0927	.21	.30		D	
GRP 7083	12	0945	1010	0955	N17	E45	.719	8885	15.8	25	-B		.33				1 1 1	
SALO	12	0945E	1010D	0955	N17	E45	.719	8885	15.8	25D	-B	P	0955	.33	.50	.16		
GRP 7084	12	1011	1026	1016	S21	E49	.810	8888	16.1	15	1N		1.29				1 1 1	
CAPE	12	1011	1026	1016	S21	E49	.810	8888	16.1	15	1N	C	1016	1.29	2.30			
GRP 7085	12	1252	1307	1256	N30	W34	.660	8880	10.0	15	-F		.46				1 1 1	
CAPE	12	1252	1307	1256	N30	W34	.660	8880	10.0	15	-F	C	1256	.46	.60			
GRP 7086	12	1543	1552	1545	S15	E36	.648	8887	15.4	9	-F		.62				2 2 2	
MCMA	12	1542	1556	1545	S15	E36	.648	8887	15.4	14	-F	C	1545	.52	.70		EH	
MEUD	12	1543	1548		S14	E35	.631	8887	15.3	5	-F	C	1545	.72	.90			
GRP 7087	12	1611	1644	1612	N23	W35	.626	8880	10.0	33	-B		.41				1 1 1	
HALE	12	1611	1644	1612	N23	W35	.626	8880	10.0	33	-B	2	C	1612	.41	.50		
GRP 7088	12	1741	1746	1743	S23	E49	.818	8888	16.4	5	-N		.31				1 1 1	
HALE	12	1741	1746	1743	S23	E49	.818	8888	16.4	5	-N	2	C	1743	.31	.50		
GRP 7089	12	1750	1756	1753	S15	E34	.625	8887	15.3	6	-N		.35				4 4 4	
LOCK	12	1749	1758	1753	S15	E34	.625	8887	15.3	9	-F	C	1753	.30	.40		10	
MCMA	12	1750	1755	1752	S15	E35	.637	8887	15.4	5	-F	C	1752	.31	.40		D	
MEUD	12	1751	1755		S14	E33	.607	8887	15.2	4	-F	C	1752	.36	.40			
HALE	12	1751	1757	1753	S14	E33	.607	8887	15.2	6	-B	2	C	1753	.41	.50		
GRP 7090	12	1802	1803		S14	E33	.607	8887	15.2	1	-F		.26				1 1 1	
MEUD	12	1802	1803		S14	E33	.607	8887	15.2	1	-F	C	1802	.26	.30		D	
GRP 7091	12	1905	1925	1915	S20	E64	.922	8889	17.6	20	-N		.52				1 1 1	
MCMA	12	1905	1925	1915	S20	E64	.922	8889	17.6	20	-N	V	1915	.52	1.30		E	
GRP 7092	12	1933	1941	1937	S20	E64	.922	8889	17.6	8	-N		.42				2 2 2	
MCMA	12	1930	1940	1935	S20	E64	.922	8889	17.6	10	-N	V	1935	.52	1.30		E	
HALE	12	1935	1941	1938	S20	E64	.922	8889	17.6	6	-N	2	C	1938	.31			

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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. %		
GRP 7093	12	1947	1956	1949	S15	E34	.625	8889	15.4	9	-N							2 2 2	
LOCK	12	1945	1955	1948	S15	E34	.625	8889	15.4	10	-F								
HALE	12	1948	1956	1950	S14	E33	.607	8889	15.3	8	-N	2	C	1948	.30	.40		10	
GRP 7094	12	2044	2052	2046	S14	E34	.619	8887	15.4	8	-N							3 3 3	
LOCK	12	2042	2052	2046	S15	E34	.625	8887	15.4	10	-F								
MCMA	12	2044	2048D	2046	S15	E36	.648	8887	15.6	4D	-N								
HALE	12	2045	2051	2046	S13	E31	.576	8887	15.2	6	-B	2	C	2046	.36	.50		10	
GRP 7095	12	2047	2051	2048	N22	W43	.712	8880	9.6	4	-N							1 1 1	
HALE	12	2047	2051	2048	N22	W43	.712	8880	9.6	4	-N	2	C	2048	.21	.30			
GRP 7096	12	2211	2223	2217	S15	E33	.613	8889	15.4	12	-F							2 2 2	
LOCK	12	2210	2222	2213	S15	E34	.625	8889	15.5	12	-F								
HALE	12	2212	2224D	2221	S14	E31	.583	8889	15.3	12D	-F	2	P	2213	.41	.50		10	
	12	2255	2300		NO FLARE PATROL														
GRP 7097	12	2309	2318	2312	S18	E60	.892	8889	17.5	9	-F							1 1 1	
HALE	12	2309	2318	2312	S18	E60	.892	8889	17.5	9	-F	2	C	2312	.21	.50			
	12	2355	0000		NO FLARE PATROL														
GRP 7098	13	0110	0142	0117	S13	E28	.540	8887	15.1	32	-B							1 1 1	
HALE	13	0110	0142	0117	S13	E28	.540	8887	15.1	32	-B	1	C	0117	.52	.60			
GRP 7099	13	0224	0230	0226	N20	E05	.286	8886	13.5	6	-B							1 1 1	
HALE	13	0224	0230	0226	N20	E05	.286	8886	13.5	6	-B	1	C	0226	.31	.30			
GRP 7100	13	0237	0252	0239	S13	E28	.540	8887	15.2	15	-B							1 1 1	
HALE	13	0237	0252	0239	S13	E28	.540	8887	15.2	15	-B	1	C	0239	.41	.50			
GRP 7101	13	0428	0443	0428	S18	E70	.953	8889	18.4	15	-N							1 1 1	
ATHN	13	0428E	0443	0428	S18	E70	.953	8889	18.4	15D	-N	2		0428	.99		1.80		
GRP 7102	13	0633	0656	0635	S20	E57	.874	8889	17.5	23	-N							2 2 2	
CATA	13	0625	0655	0635	S22	E56	.872	8889	17.5	30	-N								
BUCA	13	0640	0657		S18	E58	.877	8889	17.6	17	-N							190	
GRP 7103	13	0725	0745	0725	S17	W79	.987	8877	7.4	20	-N							1 1 1	
CATA	13	0725	0745	0725	S17	W79	.987	8877	7.4	20	-N							166	
GRP 7104	13	0749	0757		S20	W75	.976	8877	7.7	8	-F							1 1 1	
MEUD	13	0749	0757		S20	W75	.976	8877	7.7	8	-F								
GRP 7105	13	0820	0830		S19	E52	.830	8889	17.2	10	1N							1 1 1	
SALO	13	0820E	0830D		S20	E54	.850	8889	17.4	10D	1N	S		0820	.83	1.50	.13		
SALO	13	0820E	0830D		S19	E51	.822	8889	17.2	10D	-N	S		0820	.50	.90	.13		
GRP 7106	13	1129	1215	1140	S17	W82	.994	8877	7.3	46	1N							4 4 3	
CAPE	13	1127	1210	1140	S18	W83	.996	8877	7.3	43	-N								
MONT	13	1129	1215	1140	S20	W78	.985	8877	7.6	46	1N								
MCMA	13	1130	1150D	1141	S18	W88	1.000	8877	6.9	20D	-N								
SALO	13	1130E	1220D		S13	W80	.988	8877	7.5	50D	1B	S		1140	1.03				
GRP 7107	13	1258	1454	1342	N23	W48	.766	8880	9.9	116	2B							3 2 2	
CAPE	13	1250	1432	1344	N23	W48	.766	8880	9.9	102	1N								
MONT	13	1305	1500	1340	N22	W47	.753	8880	10.0	115	2F								
SALO	13	1430E	1510D	1440	N23	W50	.786	8880	9.9	40D	-N	S		1340	5.16	.80	.13		
GRP 7107	13	1315	1403	1318	N26	W47	.766	8880	10.0	48	-N							3 3 3	
CAPE	13	1250	1432	1318	N23	W48	.766	8880	9.9	102	1N								
CANA	13	1315	1339	1318	N31	W44	.758	8880	10.3	24	-N								
MCMA	13	1318E	1357D		N23	W49	.776	8880	9.9	39D	-N	V		1327	1.03	1.70		200	
GRP 7108	13	1339	1351	1343	S17	W83	.995	8877	7.3	12	-F							1 1 1	
CAPE	13	1339	1351	1343	S17	W83	.995	8877	7.3	12	-F								
GRP 7107	13	1351	1421	1357	N27	W46	.760	8880	10.1	30	1N							2 2 2	
CAPE	13	1250	1432	1359	N23	W48	.766	8880	9.9	102	1N								
CANA	13	1351	1410	1355	N31	W44	.758	8880	10.3	19	-N								
GRP 7109	13	1430	1510	1440	S13	W80	.988	8877	7.6	40	1B							200	
SALO	13	1430E	1510D	1440	S13	W80	.988	8877	7.6	40D	1B	S		1440	.66	3.30	.14		
GRP 7110	13	1520	1524	1520	S16	W85	.998	8877	7.3	4	-N							1 1 1	
CATA	13	1520	1524	1520	S16	W85	.998	8877	7.3	4	-N								
	13	1920	1925		NO FLARE PATROL														155
	13	1930	1940		NO FLARE PATROL														
	13	2045	2150		NO FLARE PATROL														
GRP 7111	14	0408	0417	0413	N24	W56	.842	8880	10.0	9	-F							1 1 1	
CRON	14	0408	0417	0413	N24	W56	.842	8880	10.0	249	-F								
GRP 7112	14	0549	0629		N23	W58	.857	8880	9.9	40	1F							100	
BUCA	14	0549	0629		N23	W58	.857	8880	9.9	40	1F	P		0602	2.55	4.90		1 1 1	
GRP 7113	14	0553	0643		N25	W08	.377	8883	13.6	50	-F							1 1 1	
BUCA	14	0553	0643		N25	W08	.377	8883	13.6	50	-F								
GRP 7114	14	0708	0750	0737	S19	E41	.726	8889	17.4	42	-N							2 2 2	
BUCA	14	0708	0755		S19	E41	.726	8889	17.4	47	-F								
CAPE	14	0733	0744	0737	S19	E40	.716	8889	17.3	11	-N								
CAPE	14	0720E	0731	0722	S19	E41	.726	8889	17.4	11D	-F								
GRP 7115	14	0745	0800	0745	N24	W60	.874	8880	9.8	15	-B							1 1 1	
CATA	14	0745	0800	0745	N24	W60	.874	8880	9.8	15	-B								
																			214
GRP 7116	14	0758	0803	0759	S19	E40	.716	8889	17.3	5	-F							1 1 1	
CAPE	14	0758	0803	0759	S19	E40	.716	8889	17.3	5	-F								

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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.	CENTRAL MER. DIST.	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT.	
GRP 7169	18	0105	0122	0115	S23	E82	.995	8901	24.2	17	-F		.40				1 1 1	
LOCK	18	0105	0122	0115	S23	E82	.995	8901	24.2	17	-F	C	.40	1.40		10		
GRP 7170	18	0407	0414		N25	W59	.867	8886	13.7	7	1N		1.84				1 1 1	
TACH	18	0407	0414		N25	W59	.867	8886	13.7	7	1N	V	1.84	3.50	2.60	84		
GRP 7171	18	1108	1122	1111	N09	E34	.560	8895	21.0	14	-F		.61				2 2 2	
CANA	18	1107	1123	1112	N08	E34	.559	8895	21.0	16	-F	C	.30	.40		100		
CAPE	18	1108	1121	1110	N10	E34	.561	8895	21.0	13	-F	C	.92	1.10				
GRP 7172	18	1602	1636	1617	S25	E73	.973	8901	24.1	34	-N		.51				2 2 2	
LOCK	18	1600	1635	1615	S25	E72	.969	8901	24.1	35	-N	C	.50	1.40		20		
SACP	18	1603	1637	1618	S24	E73	.972	8901	24.1	34	-N	C	.52	1.18				
GRP 7173	19	0248	0256	0248	S23	E63	.923	8901	23.8	8	-N		.47				2 2 2	
IKOM	19	0248	0253D		S23	E60	.904	8901	23.6	5D	-F	V	.31				D	
MITK	19	0248	0256	0248	S22	E66	.939	8901	24.1	8	-N	C	.62				E	
	19	0335	0345		NO FLARE PATROL													
GRP 7174	19	0351	0359		S12	E49	.783	8899	22.8	8	1N		1.64				1 1 1	
TACH	19	0351	0359		S12	E49	.783	8899	22.8	8	1N	V	1.64	2.60	2.10	75		
GRP 7175	19	0403	0430	0414	N08	E25	.424	8895	21.0	27	-F		.72				1 1 1	
MANI	19	0403	0430	0414	N08	E25	.424	8895	21.0	27	-F	2	.72	.80				
GRP 7176	19	0930	0952		S26	E76	.984	8901	25.1	22	1F		.50				2 1 1	
KHAR	19	0930E	0946D		S27	E90	1.001	8901	26.1	16D	1F	V			2.80		DH	
CAPS	19	0944	0957		S24	E61	.913	8901	24.0	13	-F	3	.50			152		
GRP 7177	19	1145	1215	1200	S18	W30	.606	8889	17.2	30	1N		2.06				1 1 1	
MONT	19	1145	1215	1200	S18	W30	.606	8889	17.2	30	1N		2.06					
GRP 7178	19	1242	1300	1251	S31	E45	.827	8899	22.9	18	-F		.41				1 1 1	
MCMA	19	1242	1300D	1251	S31	E45	.827	8899	22.9	18D	-F	C	.41	.90			EJ	
GRP 7179	19	1510	1520	1510	S22	E60	.902	8901	24.1	10	-N		.07				1 1 1	
CATA	19	1510	1520	1510	S22	E60	.902	8901	24.1	10	-N		.07			199		
GRP 7180	19	1617	1630	1619	N29	W17	.487	8891	18.4	13	-N		.48				5 5 5	
CATA	19	1615	1630	1615	N28	W16	.467	8891	18.5	15	-N		.59	.68		178		
SACP	19	1616	1632	1620	N29	W17	.487	8891	18.4	16	-F	C	.31	.31				
LOCK	19	1617	1628	1621	N30	W18	.507	8891	18.3	11	-N	C	.60	.70		10		
HUAN	19	1618	1628	1620	N30	W17	.500	8891	18.4	10	-N	2	.50	.50				
MCMA	19	1619	1630	1620	N30	W18	.507	8891	18.3	11	-F	C	.41	.50			E	
GRP 7181	19	1730	1736	1732	N24	W80	.982	8886	13.7	6	-F		.25				1 1 1	
HUAN	19	1730	1736	1732	N24	W80	.982	8886	13.7	6	-F	2	.25				D	
GRP 7182	19	1818	1819		S30	E41	.792	8899	22.8	1	-F		.25				1 1 1	
HUAN	19	1818E	1819D		S30	E41	.792	8899	22.8	1D	-F	1	.25	.32			D	
GRP 7183	19	1915	1916		S23	E63	.923	8901	24.5	1	-F		.25				1 1 1	
HUAN	19	1915E	1916D		S23	E63	.923	8901	24.5	1D	-F	1	.25	.40			D	
GRP 7184	19	2011	2021	2015	S23	E50	.830	8899	23.6	10	-F		.40				1 1 1	
LOCK	19	2011	2021	2015	S23	E50	.830	8899	23.6	10	-F	C	.40	.70		10		
GRP 7185	19	2039	2055	2043	S22	E10	.476	8894	20.6	16	-F		.50				1 1 1	
LOCK	19	2039	2055	2043	S22	E10	.476	8894	20.6	16	-F	C	.50	.60		10		
GRP 7186	19	2043	2103	2048	S25	E56	.882	8901	24.1	20	-F		.80				1 1 1	
LOCK	19	2043	2103	2048	S25	E56	.882	8901	24.1	20	-F	C	.80	1.60		10		
GRP 7187	19	2151	2210	2158	S31	E38	.776	8899	22.8	19	-F		.60				1 1 1	
LOCK	19	2151	2210	2158	S31	E38	.776	8899	22.8	19	-F	C	.60	1.00		10		
GRP 7188	19	2303	2313	2307	S24	E46	.801	8899	23.4	10	-N		.70				1 1 1	
LOCK	19	2303	2313	2307	S24	E46	.801	8899	23.4	10	-N	C	.70	1.20		20		
GRP 7189	19	2320	0000	2334	S31	E38	.776	8899	22.8	40	-F		.40				1 1 1	
LOCK	19	2320	0000	2334	S31	E38	.776	8899	22.8	40	-F	C	.40	.60		10	J	
GRP 7190	20	0017	0030	0020	S24	E46	.801	8899	23.5	13	-B		.80				1 1 1	
LOCK	20	0017	0030	0020	S24	E46	.801	8899	23.5	13	-B	C	.80	1.40		30		
GRP 7191	20	0052	0101	0056	S23	E47	.805	8899	23.6	9	-F		.46				2 2 2	
SACP	20	0050	0102	0056	S22	E47	.801	8899	23.6	12	-F	C	.31	.40				
LOCK	20	0053	0100	0056	S24	E46	.801	8899	23.5	7	-F	C	.60	1.00		10		
GRP 7192	20	0549	0625	0553	S22	E50	.827	8901	24.0	36	1N		2.88					
CATA	20	0540	0640	0545	S23	E50	.830	8901	24.0	60	1B		1.94	3.66		308		
ATHN	20	0547	0621	0551	S21	E52	.840	8901	24.1	34	1N	2	0551	1.98	3.60	1.80		
MITK	20	0547	0639	0551	S22	E50	.827	8901	24.0	52	2F	C	0551	3.40	6.30			
KIEV	20	0548	0610	0549	S23	E51	.839	8901	24.1	22	1N	C	0549	3.09			70	
MANI	20	0548	0624D		S20	E49	.810	8901	23.9	36D	-N	1	0553	.83	1.38			
CAPS	20	0550E	0628		S22	E50	.827	8901	24.0	38D	1B	3	0555	2.00	3.40		288	
TACH	20	0555	0614	0559	S22	E52	.843	8901	24.1	19	2F	V	0555	3.20	6.10	2.40	75	
BUCA	20	0557	0710		S21	E47	.797	8901	23.8	73	2N	P	0558	3.32	5.40			
WEND	20	0601E	0624		S22	E49	.818	8901	23.9	23D	1N	V		4.13				
GRP 7193	20	0716	0813	0724	S22	E49	.818	8901	24.0	57	1N		3.45				5 5 5	
MONT	20	0715	0800	0725	S22	E47	.801	8901	23.8	45	2N		0725	5.16				
CATA	20	0715	0825	0724	S23	E50	.830	8901	24.1	70	1B		0724	1.35	2.55		324	
CAPS	20	0717	0813		S22	E49	.818	8901	24.0	56	2N	3	0727	3.00	5.10		220	
MITK	20	0718	0733D	0722	S22	E50	.827	8901	24.1	15D	1N	C	0722	2.58	4.50			
WEND	20	0723E	0815		S22	E48	.810	8901	23.9	52D	1N	V		5.16				

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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	
GRP 7240	22	0509	0522	0511	S21 E28	.613	8901	24.3	13	-F						1 1 1
MANI	22	0509	0522	0511	S21 E28	.613	8901	24.3	13	-F	2	0511	.21	.26		
GRP 7241	22	0600	0629	0606	S21 E26	.593	8901	24.2	29	-N			1.48			5 5 4
CATA	22	0555	0625	0605	S22 E26	.603	8901	24.2	30	-B		0605	.96	1.19	251	
BUCA	22	0600	0655		S20 E20	.527	8901	23.8	55	1F	C	0608	2.65	3.20		
MANI	22	0601	0624	0605	S21 E30	.633	8901	24.5	23	-N	2	0605	.31	.40		
ATHN	22	0602	0619	0608	S20 E27	.594	8901	24.3	17	-N	1	0608	.99	1.20	1.70	
CAPS	22	0604E	0623		S22 E26	.603	8901	24.2	19D	-B	3	0612	1.30	1.60	199	
GRP 7242	22	0730	0741		N13 E90	1.000	8907	29.1	11	1N			1.76			1 1 1
CAPF	22	0730E	0741D		N13 E90	1.000	8907	29.1	11D	1N	P	0735	1.76			
GRP 7243	22	0816	0845		N13 E90	1.000	8907	29.1	29	-N			.20			3 2 1
ARCE	22	0814E	0859D		N13 E90	1.000	8907	29.1	45D	-N	C	0819	.20	1.10		
MONT	22	0817	0830		N12 E90	1.000	8907	29.1	13	-N						
CAPF	22	0840E	0916D		N13 E90	1.000	8907	29.1	36D	1N	P	0848	1.18			
GRP 7244	22	0820	0845	0835	N23 E73	.953	8905	27.8	25	-F			.13			1 1 1
CATA	22	0820	0845	0835	N23 E73	.953	8905	27.8	25	-F		0835	.13		145	
GRP 7245	22	0908	0928	0911	S15 E24	.516	8901	24.2	20	1N			1.90			6 6 6
MONT	22	0906	0930	0910	S24 E22	.588	8901	24.0	24	1B		0910	2.06			
ARCE	22	0908	0920	0908	S21 E25	.584	8901	24.3	12	1N	C	0908	1.60	2.00		
CAPS	22	0909	0920D		S22 E24	.584	8901	24.2	11D	-B	3	0912	1.00	1.20	191	E
KHAR	22	0909E	0932D		S21 E27	.603	8901	24.4	23D	1F	P	0914	1.70	2.10	1.80	DL
CATA	22	0910	0935	0915	S23 E24	.595	8901	24.2	25	-B		0915	.90	1.10	257	
WEND	22	0907	0932		N22 E24	.482	8901	24.2	25	1N	V		4.13			
GRP 7246	22	0910	0950	0930	N23 E80	.981	8905	28.4	40	-F			.35			1 1 1
CATA	22	0910	0950	0930	N23 E80	.981	8905	28.4	40	-F		0930	.35		135	
GRP 7247	22	0944	1004	0949	N12 E90	1.000	8907	29.2	20	1B			.34			5 5 3
CATA	22	0940	1010	0950	N12 E90	1.000	8907	29.2	30	-B		0950	.43		347	
ARCE	22	0945E	0947D		N13 E90	1.000	8907	29.2	2D	-N	C	0947	.33	1.90		
MANI	22	0947	1002D	0948	N12 E90	1.000	8907	29.2	15D	-B	2	0948	.26	.84		
MONT	22	0945	1000		N12 E90	1.000	8907	29.2	15	1B						
CAPS	22	0948E	1058		N13 E90	1.000	8907	29.2	70D	2N	3					
GRP 7248	22	1023	1053	1010	N13 E90	1.000	8907	29.2	30	1N			.79			2 2 1
MONT	22	1040	1050		N12 E90	1.000	8907	29.2	10	-N						
CATA	22	1005	1055	1010	N13 E90	1.000	8907	29.2	50	1F		1010	.79		148	
GRP 7249	22	1100	1130	1110	S21 W90	1.000	8889	15.7	30	-F			.48			1 1 1
CATA	22	1100	1130	1110	S21 W90	1.000	8889	15.7	30	-F		1110	.48		117	
GRP 7250	22	1112	1116	1115	N16 E90	1.000	8907	29.2	4	1N			.57			2 2 2
ATHN	22	1109	1116	1110	N20 E90	1.000	8907	29.2	7	-N	2	1110	.33	1.80		
CATA	22	1115	1130	1120	N12 E90	1.000	8907	29.2	15	1N		1120	.81		170	
CATA	22	1055	1115	1055	N11 E90	1.000	8907	29.2	20	-N		1055	.49		195	
GRP 7249	22	1130	1410	1140	S21 W90	1.000	8889	15.7	160	-F			.42			1 1 1
CATA	22	1130	1410	1140	S21 W90	1.000	8889	15.7	160	-F		1140	.42		117	
GRP 7251	22	1135	1235	1135	N13 E90	1.000	8907	29.2	60	-N			.43			1 1 1
CATA	22	1135	1235	1135	N13 E90	1.000	8907	29.2	60	-N		1135	.43		174	
GRP 7252	22	1135	1248	1150	N32 W13	.495	8897	21.5	73	-B			.78			2 2 2
MONT	22	1135	1235	1150	N32 W08	.470	8897	21.9	60	-B		1150	.52			
MCMA	22	1200E	1300		N32 W18	.528	8897	21.1	60D	-N	C	1215	1.03	1.20		BF
GRP 7253	22	1154	1255	1225	N31 E85	.993	8905	28.9	61	2N			2.11			1 1 1
CATA	22	1154	1255	1225	N31 E85	.993	8905	28.9	61	2N		1225	2.11		178	
GRP 7254	22	1240	1310	1300	N14 E90	1.000	8907	29.3	30	-N			.21			1 1 1
CATA	22	1240	1310	1300	N14 E90	1.000	8907	29.3	30	-N		1300	.21		162	
GRP 7255	22	1315	1324	1319	N12 E90	1.000	8907	29.3	9	-N			1.18			4 4 1
CATA	22	1315	1410	1320	N12 E90	1.000	8907	29.3	55	-N		1320	.05		158	
MCMA	22	1316	1322	1318	N12 E90	1.000	8907	29.3	6	-N	C	1318				
CAPF	22	1318E	1323D		N13 E90	1.000	8907	29.3	5D	1N	S	1320	1.18			
CAPS	22	1315	1327		N12 E90	1.000	8907	29.3	12	-B	3					D
GRP 7256	22	1354	1410	1358	N28 E80	.981	8905	28.6	16	-F						1 1 0
MCMA	22	1354	1410	1358	N28 E80	.981	8905	28.6	16	-F	C	1358				D
GRP 7257	22	1359	1408	1401	N13 E90	1.000	8907	29.3	9	-N			.70			3 3 1
SANM	22	1357	1409	1400	N14 E90	1.000	8907	29.3	12	-N	C					
MCMA	22	1400	1405	1401	N12 E90	1.000	8907	29.3	5	-N	C	1401				D
CAPS	22	1400E	1410		N12 E90	1.000	8907	29.3	10D	1N	3	1404	.70			CD
GRP 7258	22	1419	1457	1422	N14 E90	1.000	8907	29.3	38	1B			.68			6 6 2
ATHN	22	1417	1453	1420	N20 E90	1.000	8907	29.3	36	1B	2	1420	.66	2.00		
MCMA	22	1419	1545	1421	N12 E90	1.000	8907	29.3	86	1B	V	1421				K
CATA	22	1420	1430	1420	N14 E90	1.000	8907	29.3	10	1B		1420	.70		246	
AROS	22	1420	1500	1428	N12 E90	1.000	8907	29.3	40	1N	V					
MONT	22	1418	1440		N12 E90	1.000	8907	29.3	22	-N						
CAPS	22	1418	1456		N13 E90	1.000	8907	29.3	38	2N	3					H
GRP 7259	22	1459	1600	1531	N14 E90	1.000	8907	29.4	61	1N			.11			2 2 1
SANM	22	1418	1525D	1521	N14 E90	1.000	8907	29.3	67D	1N	C					
CATA	22	1540	1600	1540	N13 E90	1.000	8907	29.4	20	-F		1540	.11		123	
GRP 7260	22	1515	1540	1525	S21 W90	1.000	8889	15.9	25	-F			.11			1 1 1
CATA	22	1515	1540	1525	S21 W90	1.000	8889	15.9	25	-F		1525	.11		126	
GRP 7261	22	1540	1620	1545	S32 E02	.602	8899	22.8	40	1B			.66			1 1 1
SALO	22	1540E	1620D	1545	S32 E02	.602	8899	22.8	40D	1B	S	1545	.66	.80	115	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IM. POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT.
GRP 7262	22	1540	1620	1545	N24	E67	.920 8905 27.7	40	-N							1 1 1	
SALO	22	1540E	1620D	1545	N24	E67	.920 8905 27.7	40D	-N	S	1545	.25	.60	.12			
GRP 7263	22	1600	1640	1605	S22	W90	1.001 8889 15.9	40	-F							1 1 1	
CATA	22	1600	1640	1605	S22	W90	1.001 8889 15.9	40	-F		1605	.13				112	
GRP 7264	22	1610	1625	1617	N16	E90	1.000 8907 29.4	15	-F							1 1 1	
LOCK	22	1610	1625	1617	N16	E90	1.000 8907 29.4	15	-F	C	1617	.30	1.20			10	
GRP 7265	22	1634	1658	1639	N28	E77	.971 8905 28.5	24	-N							6 6 4	
MONT	22	1628	1640D	1635	N26	E73	.954 8905 28.2	12D	1B		1635	1.03					
LOCK	22	1632	1655	1640	N30	E75	.964 8905 28.3	23	-F	C	1640	.60	1.70			10	
SACP	22	1635	1713U	1640U	N30	E79	.978 8905 28.6	38U	1N	C		1.23	3.01				
MCMA	22	1636	1652D	1640	N28	E80	.981 8905 28.7	16D	-N	C						EK	
CATA	22	1640	1645	1640	N30	E78	.975 8905 28.5	5	-B		1640	.39				209	
HUAN	22	1646E	1705D		N25	E77	.971 8905 28.5	19D	-N	1 P							
GRP 7265	22	1649	1710	1655	N28	E80	.981 8905 28.7	21	-N			.62				2 2 2	
HUAN	22	1646E	1705D		N28	E80	.981 8905 28.7	19D	-N	1 P	1649	.62				E	
MCMA	22	1652	1710D	1655	N28	E80	.981 8905 28.7	18D	-N	C	1655	.62	1.00				
GRP 7266	22	1750	1814	1757	N16	E90	1.000 8907 29.5	24	-F			.30				1 1 1	
LOCK	22	1750	1814	1757	N16	E90	1.000 8907 29.5	24	-F	C	1757	.30	1.20			10	
GRP 7267	22	1820	1846	1840	N15	E90	1.000 8907 29.5	26	1F			1.00				H	
LOCK	22	1820	1846	1840	N15	E90	1.000 8907 29.5	26	1F	C	1840	1.00	4.00			10	
GRP 7268	22	1848	1908	1851	N14	E90	1.000 8907 29.5	20	1B			1.00				H	
LOCK	22	1847	1911	1853	N15	E90	1.000 8907 29.5	24	1N	C	1853	1.00	4.00			20	
MCMA	22	1848	1905	1849	N12	E90	1.000 8907 29.5	17	-B	V	1849						
GRP 7269	22	2010	2037	2011	S30	E00	.573 8899 22.8	27	-N			.83				1 1 1	
SACP	22	2010	2037E	2011	S30	E00	.573 8899 22.8	27D	-N	C		.83	.87				
GRP 7270	22	2019	2040	2025	N15	E90	1.000 8907 29.6	21	1B			.90				2 2 1	
LOCK	22	1940	2042	2024	N15	E90	1.000 8907 29.6	62	1N	C		.90	3.60			20	
MCMA	22	2019	2037	2025	N12	E90	1.000 8907 29.6	18	-B	V	2025						
LOCK	22	1940	2042	2001	N15	E90	1.000 8907 29.6	62	1N	C		.90	3.60			20	
LOCK	22	1920	1945	1927	N21	E90	1.000 8907 29.6	25	-N	C	1927	.30	1.20			20	
GRP 7271	22	2054	2144	2100	N13	E90	1.000 8907 29.6	50	1B			.90				2 2 1	
LOCK	22	2052	2144	2102	N14	E90	1.000 8907 29.6	52	1N	C	2102	.90	3.60			20	
MCMA	22	2055	2114D	2058	N12	E90	1.000 8907 29.6	19D	-B	V	2058						
GRP 7272	22	2152	2227	2211	N14	E90	1.000 8907 29.7	35	1F			.80				1 1 1	
LOCK	22	2152	2227	2211	N14	E90	1.000 8907 29.7	35	1F	C	2211	.80	3.20			10	
GRP 7273	22	2315	2349	2322	N14	E89	.999 8907 29.6	34	-N			.56				2 2 2	
LOCK	22	2315	2350	2322	N15	E90	1.000 8907 29.7	35	-F	C	2322	.50	2.00			10	
MANI	22	2330E	2348		N12	E87	.998 8907 29.5	18D	-N	2	2332	.62	1.85				
GRP 7274	23	0010	0145	0032	N16	E90	1.000 8907 29.8	95	1F			.70				1 1 1	
LOCK	23	0010	0145	0032	N16	E90	1.000 8907 29.8	95	1F	C		.70	2.80			10	
GRP 7274	23	0010	0145	0115	N16	E90	1.000 8907 29.8	95	1F	C		.70	2.80			10	
LOCK	23	0010	0145	0115	N16	E90	1.000 8907 29.8	95	1F	C		.70	2.80				
GRP 7275	23	0143	0200	0151	S17	E26	.557 8901 25.0	17	-N			1.00				1 1 1	
LOCK	23	0143	0200D	0151	S17	E26	.557 8901 25.0	17D	-N	C	0151	1.00	1.20			20	
	23	0235	0245		NO FLARE PATROL												
GRP 7276	23	0438	0445	0439	N27	E70	.939 8905 28.4	7	-F			.52				1 1 1	
MITK	23	0438	0445	0439	N27	E70	.939 8905 28.4	7	-F	C	0439	.52					
GRP 7277	23	0441	0449	0443	N12	E80	.982 8907 29.2	8	1B			.93				2 2 2	
MANI	23	0440E	0448		N12	E80	.982 8907 29.2	8D	1B	1	0441	.93	2.40				
MITK	23	0442	0450	0443	N12	E80	.982 8907 29.2	8	1N	C	0443	.93				H	
GRP 7278	23	0541	0554	0544	N13	E86	.996 8907 29.7	13	1N			.68				4 3 3	
MITK	23	0538	0557	0543	N12	E90	1.000 8907 30.0	19	1F	C	0543	.52				A	
TACH	23	0540	0550	0543	N12	E86	.996 8907 29.7	10	1N	V	0540	1.19		4.80		75	
CATA	23	0545	0655	0545	N09	E87	.998 8907 29.8	70	-B		0545	.33				209	
BUCA	23	0600	0629		N17	E82	.987 8907 29.4	29	2N	P	0610	2.65					
GRP 7279	23	0641	0651	0644	N28	E67	.923 8905 28.3	10	1N			2.01				4 4 4	
CATA	23	0625	0745	0640	N27	E68	.928 8905 28.4	80	1B		0640	.96				246	
BUCA	23	0642	0655		N28	E66	.917 8905 28.2	13	1N	C	0644	2.21					
MITK	23	0644	0646	0644	N29	E65	.912 8905 28.2	2	-N	C	0644	.72				E	
MONT	23	0636E	0800		N26	E67	.922 8905 28.3	84D	2N		0710	4.13					
GRP 7280	23	0713	0905		N18	E86	.996 8907 29.8	112	-B			.44				3 2 1	
ARCE	23	0845	0900D		N13	E85	.995 8907 29.7	15D	-N	C	0845	.44	1.60				
ISTA	23	0710E	0905		N24	E90	.999 8907 30.0	115D	-B								
ISTA	23	0715	0905		N22	E83	.989 8907 29.5	110	-N								
MONT	23	0636E	0750		N11	E80	.982 8907 29.3	74D	1N		0710	.77					
GRP 7281	23	0735	0825		N22	E64	.899 8905 28.1	50	-B			.20				2 1 1	
ISTA	23	0735	0825		N27	E68	.928 8905 28.4	50	-F								
CATA	23	0605	0745	0620	N23	E68	.926 8905 28.4	100	-B		0620	.20				229	
CATA	23	0805	0825	0810	N22	E61	.877 8905 27.9	20	-F		0810	.33				138	

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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 Ha
GRP 7282	23	0925	1001	0936	N24	E59	.863 8905 27.8	36	-N						6 6 5	
CATA	23	0915	1030	0935	N29	E60	.878 8905 27.9	75	-N	0935	.34			199		
ARCE	23	0925	1000D	0945	N24	E60	.871 8905 27.9	35D	-N	0945	.33				D	
ATHN	23	0926	0948	0929	N22	E60	.869 8905 27.9	22	-N	2	0929	.33	.70	1.70		
CANA	23	0930	0947	0934	N24	E56	.839 8905 27.6	17	-F	C		.20	.40		100	
SALO	23	0935E	1000D		N23	E56	.837 8905 27.6	25D	1B	V	0940	.50	.80	.13		
CAPS	23	0927E	1002D		N21	E62	.884 8905 28.0	35D	-F	3					C	
GRP 7283	23	0945	1026	0956	N11	E80	.982 8907 29.4	41	-F			.47			4 4 4	
MONT	23	0945	1040	1000	N11	E79	.979 8907 29.3	55	1F		1000	1.03				
CANA	23	0948	1004	0954	N11	E80	.982 8907 29.4	16	-F	C		.20	.60		100	
CATA	23	0950	1007	0955	N09	E79	.979 8907 29.3	17	-N		0955	.33			164	
CATA	23	0915	0940	0920	N14	E90	1.000 8907 30.1	25	-F		0920	.13			123	
SALO	23	0935E	1005D		N12	E75	.963 8907 29.0	30D	-F	V	0940	.33	1.50	.12		
CANA	23	1012	1030	1015	N11	E80	.982 8907 29.4	18	-F	C		.20	.60		100	
GRP 7284	23	1045	1105	1045	N18	E76	.967 8907 29.1	20	-F			.23			1 1 1	
CATA	23	1045	1105	1045	N18	E76	.967 8907 29.1	20	-F		1045	.23			138	
GRP 7285	23	1131	1138	1134	S23	W11	.500 8899 22.7	7	-N			.48			2 2 2	
CANA	23	1131	1135	1132	S24	W12	.520 8899 22.6	4	-F	C		.30	.40		100	
ATHN	23	1134E	1141	1135	S22	W10	.481 8899 22.7	7D	-N	2	1135	.66	.70	1.60		
GRP 7286	23	1210	1230	1210	N09	E80	.983 8907 29.5	20	-N			.11			1 1 1	
CATA	23	1210	1230	1210	N09	E80	.983 8907 29.5	20	-N		1210	.11			159	
GRP 7287	23	1248	1309	1301	N12	E76	.967 8907 29.2	21	1B			2.23			8 8 8	
CATA	23	1240	1415	1303	N12	E76	.967 8907 29.2	95	1B		1303	2.01			436	
SACP	23	1244	1311	1303	N13	E74	.958 8907 29.1	27	2B	C		3.37	6.94			
CAPS	23	1251	1307		N11	E75	.963 8907 29.2	16	1N	3	1302	2.50			H	
CANA	23	1255	1306	1258	N11	E78	.975 8907 29.4	11	1N	C		1.10	3.30		200	
ATHN	23	1257E	1310	1259	N15	E76	.967 8907 29.2	13D	1B	1	1259	1.32		2.00		
SANM	23	1300E	1310	1301	N12	E75	.963 8907 29.2	10D	1B	P	1301	1.65				
CAPP	23	1303E	1308D		N11	E80	.982 8907 29.5	5D	1	P	1304	1.76				
WEND	23	1233	1251D		N12	E74	.958 8907 29.1	18D	1N	V		4.13				
GRP 7288	23	1320	1337	1320	N26	E63	.896 8905 28.3	17	-N			.22			2 2 2	
CATA	23	1320	1335	1320	N23	E58	.854 8905 27.9	15	-N		1320	.18	.35		162	
HUAN	23	1326E	1338		N29	E68	.929 8905 28.7	12D	-F	1	P	1326	.25			D
GRP 7289	23	1331	1358	1341	N13	E78	.975 8907 29.4	27	-N			.39			2 2 2	
HUAN	23	1331	1356		N12	E85	.995 8907 29.9	25	-N	1	C	1345	.45			E
SANM	23	1331	1400	1341	N13	E75	.963 8907 29.2	29	-N	C	1341	.32				
HUAN	23	1331	1356		N13	E78	.975 8907 29.4	25	-N	1	C					
GRP 7290	23	1445	1452	1447	N13	E85	.995 8907 30.0	7	-F			.41			1 1 1	
HUAN	23	1445	1452	1447	N13	E85	.995 8907 30.0	7	-F	1	C	1447	.41			E
GRP 7291	23	1553	1606	1555	N11	E74	.958 8907 29.2	13	-B			.76			6 6 6	
HUAN	23	1551	1608	1554	N10	E77	.972 8907 29.4	17	-N	2	C	1554	.41			D
SACP	23	1552	1604	1557	N12	E73	.953 8907 29.1	12	-N	C		.81	1.63			
LOCK	23	1552	1613	1555	N13	E72	.948 8907 29.1	21	1B	C		1.00	2.50		30	
CAPS	23	1553E	1600		N11	E74	.958 8907 29.2	7D	-N	3	1555	1.50			189	
MGMA	23	1553	1610	1555	N11	E74	.958 8907 29.2	17	-B	V	1605	.41	1.50			
CATA	23	1555	1600	1555	N07	E76	.968 8907 29.4	5	-B		1555	.40			338	
GRP 7291	23	1553	1612	1606	N12	E73	.953 8907 29.1	19	1B			1.00			2 2 1	
LOCK	23	1552	1613	1606	N13	E72	.948 8907 29.1	21	1B	C		1.00	2.50		30	
MGMA	23	1553	1610	1605	N11	E74	.958 8907 29.2	17	-B	V						
GRP 7292	23	1619	1626	1622	N12	E81	.985 8907 29.8	7	-N			.31			5 5 5	
HUAN	23	1618	1626	1621	N12	E81	.985 8907 29.8	8	-N	2	C	1621	.31			D
LOCK	23	1618	1627	1622	N12	E79	.979 8907 29.6	9	-F	C	1622	.30	.90		10	
ATHN	23	1619	1626	1621	N15	E79	.978 8907 29.6	7	-B	1		1621	.33		2.00	
MGMA	23	1619	1627	1622	N13	E80	.982 8907 29.7	8	-B	V	1622	.41	1.50			
CATA	23	1620	1625	1625	N09	E85	.995 8907 30.1	5	-B		1625	.20			229	
GRP 7293	23	1625	1657	1648	S17	E16	.456 8901 24.9	32	-F			.30			1 1 1	
LOCK	23	1625	1657	1648	S17	E16	.456 8901 24.9	32	-F	C	1648	.30	.30		10	
GRP 7294	23	1636	1645	1638	S07	E07	.241 8901 24.2	9	-F			.30			1 1 1	
LOCK	23	1636	1645	1638	S07	E07	.241 8901 24.2	9	-F	C	1638	.30	.30		10	
GRP 7295	23	1639	1645	1640	N16	E76	.967 8907 29.4	6	-F			.30			1 1 1	
LOCK	23	1639	1645	1640	N16	E76	.967 8907 29.4	6	-F	C	1640	.30	.90		10	
GRP 7296	23	1717	1725	1719	N28	E65	.911 8905 28.6	8	-F			.26			2 2 2	
HUAN	23	1716	1723	1718	N28	E65	.911 8905 28.6	7	-F	2	C	1718	.31	.50		D
LOCK	23	1717	1726	1720	N28	E64	.904 8905 28.5	9	-F	C	1720	.20	.40		10	
GRP 7297	23	1727	1740	1731	S08	E08	.264 8901 24.3	13	-N			.38			2 2 2	
LOCK	23	1726	1740	1730	S08	E08	.264 8901 24.3	14	-N	C	1730	.50	.50		20	
HUAN	23	1727	1739	1732	S08	E07	.255 8901 24.3	12	-N	2	C	1732	.25	.25		D
GRP 7298	23	1810	1840	1814	N12	E73	.953 8907 29.2	30	1B			1.13			2 2 2	
LOCK	23	1809	1847	1813	N12	E71	.942 8907 29.1	38	1B	C	1825	2.00	4.80		30	
HUAN	23	1810	1833	1815	N11	E74	.958 8907 29.3	23	-B	2	C	1815	.25			D
GRP 7298	23	1810	1840	1825	N12	E73	.953 8907 29.2	30	1B			1.42			2 2 2	
LOCK	23	1809	1847	1825	N12	E71	.942 8907 29.1	38	1B	C	1825	2.00	4.80		30	
HUAN	23	1810	1833	1825	N11	E74	.958 8907 29.3	23	-B		1825	.83				
GRP 7299	23	1853	1906	1857	S07	E06	.233 8901 24.2	13	-N			.40			1 1 1	
LOCK	23	1853	1906	1857	S07	E06	.233 8901 24.2	13	-N	C	1857	.40	.40		20	

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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.
1967 JULY																
GRP 7300	23	1902	1915	1906	S34	W15	.663 8899	22.7	13	-F		.70			1 1 1	
LOCK	23	1902	1915	1906	S34	W15	.663 8899	22.7	13	-F	C	1906	.70 .90		10	
GRP 7301	23	1920	1926	1923	N11	E73	.953 8907	29.3	6	-F		.21			1 1 1	
HUAN	23	1920	1926	1923	N11	E73	.953 8907	29.3	6	-F	2	C	1923	.21		D
GRP 7302	23	2009	2020	2012	N12	E75	.963 8907	29.5	11	1N		1.50			2 2 1	
HUAN	23	2011	2017	2014	N12	E72	.948 8907	29.2	6	-N	2	C	2014	.25		D
LOCK	23	2010E	2022U	2010U	N12	E74	.958 8907	29.4	12U	1N	C	2010	1.50 4.10		20	
HUAN	23	2009	2013	2010	N10	E80	.983 8907	29.8	4	-N	2	C	2010	.25		D
GRP 7303	23	2113	2137	2116	N23	E54	.819 8905	27.9	24	-F		.61			2 2 2	
LOCK	23	2112	2140	2116	N23	E53	.810 8905	27.9	28	-N	C	2116	.90 1.50		20	
HUAN	23	2114	2134	2115	N23	E54	.819 8905	27.9	20	-N	2	C	2115	.31 .42		D
GRP 7304	23	2226	2232		N10	E67	.917 8907	29.0	6	-N		.21			1 1 1	
MANI	23	2226E	2232		N10	E67	.917 8907	29.0	6D	-N	2	2228	.21 .43			
	23	2235	2315		NO FLARE PATROL											
GRP 7305	23	2331	0010	2340	N15	E68	.924 8907	29.1	39	-F		.80			1 1 1	
LOCK	23	2331	0010	2340	N15	E68	.924 8907	29.1	39	-F	C	2340	.80 1.80		10	
GRP 7306	24	0025	0050	0036	N11	E66	.910 8907	29.0	25	1N		2.10			3 3 3	
LOCK	24	0024	0050	0034	N10	E66	.910 8907	29.0	26	1B	C	0034	1.50 3.30		30	
SACP	24	0025	0049	0037	N12	E67	.917 8907	29.0	24	2N	C		3.25 5.59			
MANI	24	0038E	0051		N10	E66	.910 8907	29.0	13D	1N	1	0040	1.55 3.15			
GRP 7307	24	0036	0052	0049	S24	W18	.559 8899	22.7	16	-F		.70			1 1 1	
LOCK	24	0036U	0052D	0049U	S24	W18	.559 8899	22.7	16D	-F	C	0049	.70 .80		10	
GRP 7308	24	0040	0050	0042	N25	E55	.831 8905	28.2	10	-F		.60			1 1 1	
LOCK	24	0040U	0050U	0042	N25	E55	.831 8905	28.2	10U	-F	C	0042	.60 1.10		10	
GRP 7309	24	0054	0145	0118	N11	E68	.924 8907	29.1	51	-F		.41			1 1 1	
SACP	24	0054	0145	0118	N11	E68	.924 8907	29.1	51	-F	C		.41 .71			
GRP 7310	24	0307	0327		N25	E51	.796 8905	28.0	20	1N		2.73			1 1 1	
TACH	24	0307	0327		N25	E51	.796 8905	28.0	20	1N	V	0322	2.73 4.90	2.00	57	
GRP 7311	24	0419	0430	0422	N10	E66	.910 8907	29.1	11	1N		1.31			2 2 2	
MANI	24	0415E	0432	0421	N10	E64	.895 8907	29.0	17D	1B	2	0421	1.24 2.44			
TACH	24	0422	0428	0423	N10	E67	.917 8907	29.2	6	-F	V	0424	1.37		2.40	
GRP 7312	24	0453	0458	0454	N14	E76	.967 8907	29.9	5	-N		.24			2 2 2	
ATHN	24	0452	0458	0453	N14	E78	.975 8907	30.1	6	-N	2	0453	.27		1.80	
HALE	24	0454	0457D	0454	N14	E74	.958 8907	29.8	3D	-N	1	P	0454	.21		
GRP 7313	24	0545	0554	0548	N14	E76	.967 8907	29.9	9	-N		.22			3 3 3	
ATHN	24	0545	0553	0546	N15	E77	.971 8907	30.0	8	-N	2	0546	.33		1.80	
CATA	24	0545	0555	0550	N13	E80	.982 8907	30.2	10	-B		0550	.18		324	
MANI	24	0548E	0555D		N14	E72	.947 8907	29.6	7D	-N	2	0549	.15 .34			
GRP 7314	24	0557	0658	0620	N16	E78	.975 8907	30.1	61	2N		5.54			2 1 1	
BUCA	24	0557	0658	0620	N16	E75	.962 8907	29.9	61	2N	P	0600	5.54			
CATA	24	0620	0625	0620	N16	E80	.982 8907	30.3	5	-F		0620	.20		148	
GRP 7315	24	0607	0647	0615	N26	E61	.881 8905	28.8	40	-N		1.09			3 3 2	
CATA	24	0605	0640	0615	N25	E65	.908 8905	29.1	35	-B		0615	.13		282	
BUCA	24	0608	0705		N27	E68	.928 8905	29.4	57	1F	C	0619	1.66			
MANI	24	0620E	0631D		N27	E62	.889 8905	28.9	11D	-N	1	0621	.52 1.00			
BUCA	24	0637	0654		N23	E47	.751 8905	27.8	17	-F	C	0640	.66 1.00			
GRP 7316	24	0739	0756	0740	N11	E69	.930 8907	29.5	17	-N		.20			2 2 1	
KHAR	24	0737	0747	0739	N12	E73	.953 8907	29.8	10	-F	V	0739			2.10	
CATA	24	0740	0805	0740	N10	E65	.903 8907	29.2	25	-B		.20			204	
GRP 7317	24	0757	0813	0801	N26	E58	.858 8905	28.7	16	1N		1.29			8 8 5	
KHAR	24	0754	0812		N29	E58	.863 8905	28.7	18	1F	V	0801			1.80	
MEUD	24	0755	0803	0757	N26	E58	.858 8905	28.7	8	-N	C	0757	.52 1.10			
SALO	24	0755E	0810D		N27	E55	.835 8905	28.5	15D	1N	V	0800	.83 1.50		.14	
BUCA	24	0755	0828		N27	E66	.916 8905	29.3	33	1N	C	0759	1.10			
CAPS	24	0757E	0811		N26	E59	.866 8905	28.8	14D	1N	3	0800	2.00 4.00		189	
CATA	24	0800	0820	0800	N26	E63	.895 8905	29.1	20	-B		0800	.29		224	
ATHN	24	0802	0824	0805	N27	E56	.844 8905	28.5	22	1N	2	0805	1.98 3.60	1.90		
ISTA	24	0755E	0815		N27	E58	.860 8905	28.7	20D	-N						
BUCA	24	0735	0800		N11	E52	.785 8905	28.2	25	-N	C	0740	.55 1.10			
ISTA	24	0755E	0806		N25	E60	.872 8905	28.8	11D	-F						
SALO	24	0755E	0815D		N27	E47	.763 8905	27.9	20D	1N	V	0800	.83 1.50		.14	
ISTA	24	0755E	0806		N26	E57	.850 8905	28.6	11D	-F						
SALO	24	0820E	0830D		N28	E54	.829 8905	28.4	10D	1N	V	0825	.50 .90		.11	
ISTA	24	0755E	0809		N25	E58	.857 8905	28.7	14D	-F						
GRP 7318	24	0825	0929	0830	N12	E73	.953 8907	29.8	64	1N		1.66			3 3 1	
MEUD	24	0828	0837		N10	E64	.895 8907	29.2	9	-F	C	0832	.31 .70			
CATA	24	0830	0935	0830	N08	E65	.903 8907	29.2	65	-B		0830	.25		229	
BUCA	24	0816	0830		N16	E84	.992 8907	30.6	14	2F	C	0818	1.66			
MEUD	24	0920	0922	0921	N14	E76	.967 8907	30.1	2	-F	C	0921	.21			

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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	MCMAATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha
GRP 7319	24	0929	1015	0933	N27	E54	.827 8905 28.4	46	1N			2.07				8 8 5	
CANA	24	0925	0954	0931	N27	E57	.852 8905 28.7	29	-N			.50			200	I	
KHAR	24	0928E	1025		N29	E57	.856 8905 28.7	57D	2N	C	0939	2.84	.90	5.30	3.20	ELO	
MEUD	24	0929	1010		N26	E53	.816 8905 28.4	41	1N	C	0940	1.34		2.30		C	
CAPS	24	0929E	1018		N27	E54	.827 8905 28.4	49D	18	3	0933	2.00		3.40		237	
ATHN	24	0930	1023	0934	N27	E54	.827 8905 28.4	53	18	2	0934	2.31		4.20	2.00	EJ	
CATA	24	0930	1100	0935	N28	E52	.812 8905 28.3	90	-B		0935	.60		1.11		316	
ARCE	24	0931E	1005D		N28	E58	.861 8905 28.7	34D	1N	P	0931	1.88		3.60			
ONDR	24	0931E	1011		N29	E52	.815 8905 28.3	40D	2N	V	0937				2.20	CHJ	
CATA	24	1025	1030	1025	N21	E47	.746 8905 28.0	5	-N		1025	.35	.54			170	
GRP 7320	24	0955	1008	1000	N10	E64	.895 8907 29.2	13	18			1.42				8 8 7	
KHAR	24	0949E	1010D	1000	N12	E72	.948 8907 29.8	21D	18	V	1000				6.10	DHGX	
CATA	24	0950	1050	1000	N08	E63	.888 8907 29.1	60	18		1000	1.66				363	
MONT	24	0953	1005	0958	N10	E63	.887 8907 29.1	12	-B		0958	.77				H	
CANA	24	0956	1004	0957	N09	E63	.888 8907 29.1	8	18	C		1.60		3.20		300	
CAPS	24	0956E	1008		N10	E64	.895 8907 29.2	12D	-B	3	1000	.90				220	
MEUD	24	0959	1008	1000	N10	E62	.879 8907 29.1	9	1N	C	1000	1.96		3.80		H	
ATHN	24	0959	1016	1002	N12	E63	.887 8907 29.1	17	1N	2	1002	1.32		3.90	1.90	V	
ARCE	24	1000	1005D		N12	E65	.903 8907 29.3	5D	1N	P	1003	1.76		4.20			
GRP 7321	24	1055	1120	1100	N20	E50	.775 8905 28.2	25	-B			.25				1 1 1	
CATA	24	1055	1120	1100	N20	E50	.775 8905 28.2	25	-B		1100	.25	.41			214	
GRP 7322	24	1109	1125	1113	N16	W26	.465 8897 22.5	16	-F			.92				3 3 2	
CANA	24	1106	1131U	1109	N15	W25	.446 8897 22.6	25U	-F	C		.60	.70			100	
CATA	24	1110	1225	1120	N16	W25	.451 8897 22.6	75	-N		1120	1.23	1.38			195	
MEUD	24	1111	1118	1111	N17	W27	.484 8897 22.4	7	-F	C	1111	.21	.20			D	
GRP 7323	24	1130	1228	1135	N10	E68	.924 8907 29.6	58	-N			.25				2 1 1	
CATA	24	1130	1225	1135	N07	E64	.896 8907 29.3	55	-N		1135	.25				174	
CANA	24	1215	1230	1218	N12	E71	.942 8907 29.8	15	-F	C		.10	.20			100	
GRP 7324	24	1148	1211	1153	S23	W03	.474 8901 24.3	23	1N			1.73				8 8 8	
ATHN	24	1146	1208	1150	S26	W01	.517 8901 24.4	22	1N	2	1150	2.77	3.10	1.70			
MONT	24	1146	1215	1154	S22	W08	.473 8901 23.9	29	1N		1154	2.06				H	
SALO	24	1147E	1210D		S23	E04	.476 8901 24.8	23D	-B	V	1200	.83	1.00	.15			
CANA	24	1147	1210	1152	S23	W04	.476 8901 24.2	23	-N	C		1.50	1.70			200	
MCMA	24	1148E	1155D		S24	W04	.491 8901 24.2	7D	18	V	1155	1.80		2.10		E	
HUAN	24	1148	1214	1155	S23	W04	.476 8901 24.2	26	1N	1	1155	2.73	2.81			E	
MEUD	24	1150	1206	1154	S23	W07	.484 8901 24.0	16	-N	C	1154	1.34	1.50			E	
CAPS	24	1154	1210D		S17	W01	.377 8901 24.4	16D	-N	3	1207	.80	.90			F	
GRP 7325	24	1149	1224	1200	N27	E53	.818 8905 28.5	35	1N			1.28				10 10 9	
SALO	24	1145E	1215D		N27	E52	.810 8905 28.4	30D	1N	V	1200	.83	1.50	.11			
HUAN	24	1146E	1225	1203	N27	E54	.827 8905 28.5	39D	1N	1	1203	1.75	2.33			ET	
MCMA	24	1148E	1232D		N28	E55	.838 8905 28.6	44D	-B	V	1155	.72	1.30			E	
ATHN	24	1150	1224	1155	N27	E54	.827 8905 28.5	34	18	2	1155	1.65	3.10	2.00			
CAPS	24	1154	1216		N27	E55	.835 8905 28.6	22	1N	3	1207	1.80	3.20			181	
MEUD	24	1154	1218		N26	E52	.807 8905 28.4	24	-N	C	1202	1.03	1.70			FH	
CANA	24	1156	1218	1201	N27	E52	.810 8905 28.4	22	-N	C		.70	1.20			200	
ONDR	24	1157E	1234		N29	E51	.806 8905 28.3	37D	1N	V	1201			2.30		EI	
CAPF	24	1202E	1210D		N28	E53	.821 8905 28.5	8D	1N	P	1204	2.35	4.10			CHJ	
CATA	24	1140	1305	1144	N25	E55	.831 8905 28.6	85	-B		1144	.66	1.19			240	
GRP 7326	24	1238	1255	1244	N27	E60	.875 8905 29.0	17	-N			.62				7 7 7	
CANA	24	1235	1250	1236	N26	E61	.881 8905 29.1	15	-N	C		.30	.60			200	
SACP	24	1236	1301	1242	N28	E60	.876 8905 29.0	25	-N	C		.63	.95				
HUAN	24	1237	1256		N27	E61	.882 8905 29.1	19	-F	2	C	1249	.31	.47			D
MEUD	24	1238	1248		N26	E60	.874 8905 29.0	10	-N	C	1240	.41				E	
ATHN	24	1239	1249	1241	N29	E59	.871 8905 29.0	10	-N	2	1241	.66	1.30	1.80			
HERS	24	1240	1252	1241U	N27	E57	.852 8905 28.8	12	-B	P	1241	.89	1.70			BE	
CATA	24	1240	1310	1250	N26	E61	.881 8905 29.1	30	-B		1250	1.11				240	
GRP 7327	24	1243	1315	1249	S24	W05	.493 8901 24.2	32	-N			1.17				5 5 5	
HUAN	24	1240	1321		S22	W05	.463 8901 24.2	41	1F	2	C	1257	2.63	2.70			E
CANA	24	1250	1315	1254	S21	W07	.454 8901 24.0	25	-N	C		.70	.80			200	
MEUD	24	1244	1310	1247	S23	W08	.488 8901 23.9	26	-N	C	1247	.62	.70			E	
ATHN	24	1245	1251	1246	S26	W02	.518 8901 24.4	6	-N	2	1246	.83	.90	1.90		EK	
CATA	24	1245	1340	1250	S24	W05	.493 8901 24.2	55	-N		1250	1.05	1.22			178	
CANA	24	1242	1258	1243	S25	W04	.506 8901 24.2	16	-F	C		.70	.80			100	
MEUD	24	1244	1310	1258	S23	W08	.488 8901 23.9	26	-N								
GRP 7328	24	1257	1312	1302	N27	E51	.801 8905 28.4	15	-N			.85				7 7 7	
SACP	24	1254	1309	1302	N29	E50	.798 8905 28.3	15	-N	C		1.55	2.03				
CANA	24	1255	1307	1258	N26	E50	.789 8905 28.3	12	-N	C		.70	1.10			200	
HUAN	24	1255	1312	1301	N27	E52	.810 8905 28.4	17	-B	2	C	1301	.75	.99			I
MEUD	24	1256	1310		N26	E51	.798 8905 28.4	14	-N	C	1301	.72	1.10			D	
ATHN	24	1257	1314	1301	N28	E48	.776 8905 28.1	17	-N	2	1301	1.16	1.80	1.80			
SANM	24	1300E	1318	1302	N28	E50	.795 8905 28.3	18D	-B	P	1302	.65	.90				
CATA	24	1305	1410	1310	N26	E52	.807 8905 28.4	65	-B		1310	.44	.78			263	
SANM	24	1303	1410	1335	N29	E54	.832 8905 28.6	67	-F	C	1335	.65	1.15				

SOLAR FLARES

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OBSERVATORY	OBSERVED UT			LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
1967 JULY															
GRP 7329	24	1307	1332	1310	N12	E61	.871 8907 29.1	25	-N			.32			5 5 5
SACP	24	1304	1345	1310	N13	E60	.863 8907 29.0	41	-N	C		.52	.75		
CANA	24	1305	1322	1308	N11	E61	.871 8907 29.1	17	-N	C		.20	.40		200 J
HUAN	24	1308	1316	1311	N12	E61	.871 8907 29.1	8	-F	2 C	1311	.25	.37		D
SANM	24	1310	1335	1312	N13	E60	.863 8907 29.0	25	-F	C	1312	.32	.60		
CATA	24	1310	1340	1310	N10	E61	.871 8907 29.1	30	-N		1310	.33			174
CANA	24	1305	1322	1316	N11	E61	.871 8907 29.1	17	-N						
GRP 7330	24	1338	1351	1343	N16	E73	.952 8907 30.0	13	-N			.29			4 4 4
SACP	24	1322	1350	1342	N16	E72	.947 8907 30.0	28	-N	C		.31	.60		
SANM	24	1335	1400	1344	N16	E76	.967 8907 30.3	25	-F	C	1344	.32			
CANA	24	1336	1345	1341	N13	E73	.953 8907 30.0	9	-N	C		.20	.50		200
ATHN	24	1342	1348	1343	N17	E72	.947 8907 30.0	6	-N	2	1343	.33			1.80
GRP 7331	24	1406	1411	1411	N27	E52	.810 8905 28.5	5	1N			1.37			2 2 1
CATA	24	1310	1635	1415	N27	E55	.835 8905 28.7	205	1B		1415	1.37	2.52		269
CANA	24	1406	1411	1407	N26	E49	.779 8905 28.3	5	-F	C		.20	.30		100
GRP 7332	24	1444	1449	1446	N15	E72	.947 8907 30.0	5	-N			.40			5 5 5
CANA	24	1442	1448	1443	N14	E73	.953 8907 30.1	6	-N	C		.30	.80		200
HUAN	24	1444	1450	1446	N15	E75	.962 8907 30.2	6	-N	1 C	1446	.25			D
MCMA	24	1445	1451	1447	N15	E70	.936 8907 29.9	6	-N	C	1447	.31	.90		D
MEUD	24	1446	1450	1447	N15	E73	.953 8907 30.1	4	-N	C	1447	.52			D
SACP	24	1425	1445	1426	N17	E71	.942 8907 29.9	20	-F	C		.61	1.17		
GRP 7333	24	1507	1532	1514	N13	E66	.910 8907 29.6	25	-N			.50			7 7 7
SACP	24	1504	1530	1520	N15	E66	.910 8907 29.6	26	-N	C		.92	1.52		
CANA	24	1505	1527	1510	N11	E66	.910 8907 29.6	22	-N	C		.30	.70		200
CATA	24	1505	1535	1510	N13	E70	.936 8907 29.9	30	-B		1510	.21			240
HUAN	24	1509	1532	1513	N14	E72	.947 8907 30.0	23	-N	1 C	1513	.75			E
MCMA	24	1510	1535	1514	N15	E68	.924 8907 29.7	25	-N	C	1514	.52	1.50		E
MEUD	24	1512	1520		N13	E65	.903 8907 29.5	8	-N	C	1514	.41			E
LOCK	24	1515	1533	1517	N13	E61	.871 8907 29.2	18	-N	C	1517	.40	.80		10
LOCK	24	1504E	1514	1504E	N12	E61	.871 8907 29.2	100	-F	C	1504	.30	.60		10
CATA	24	1505	1535	1510	N11	E65	.903 8907 29.5	30	-N		1510	.13			191
MEUD	24	1528	1530	1529	N10	E59	.854 8907 29.1	2	-F	C	1529	.21	.40		D
GRP 7334	24	1536	1602	1542	N28	E49	.785 8905 28.3	26	-N			.55			3 3 3
ATHN	24	1534	1605	1544	N28	E46	.757 8905 28.1	31	-N	1	1544	.66	1.00	1.50	
HUAN	24	1537	1551	1540	N28	E50	.795 8905 28.4	14	-F	2 C	1540	.50	.65		E
SALO	24	1540E	1610D		N27	E50	.792 8905 28.4	300	1N	V	1600	.50	.90	.15	
GRP 7335	24	1551	1603	1556	N11	E61	.871 8907 29.2	12	-N			.34			10 9 9
LOCK	24	1544	1640	1558	N14	E59	.855 8907 29.1	56	-N	C	1558	.70	1.30		10
SALO	24	1545E	1555D		N10	E67	.917 8907 29.7	100	-F	V	1550	.33	.60	.13	K
SACP	24	1546	1612	1556	N12	E61	.871 8907 29.2	26	-N	C		.51	.75		
CANA	24	1551	1558	1554	N10	E60	.863 8907 29.2	7	-N	C		.20	.40		200
HUAN	24	1552	1559	1554	N11	E62	.879 8907 29.3	7	-F	2 C	1554	.21			H
SANM	24	1554	1604	1557	N11	E60	.863 8907 29.2	10	-F	C	1557	.32	.65		DH
MEUD	24	1555	1601	1557	N10	E59	.854 8907 29.1	6	-N	C	1557	.26	.50		DH
ATHN	24	1555E	1602	1555	N13	E61	.871 8907 29.2	7D	-B	1	1555	.33	.70	2.00	
CATA	24	1555	1605	1555	N11	E62	.879 8907 29.3	10	-B		1555	.18			302
HALE	24	1631E	1650	1634	N11	E60	.863 8907 29.2	19D	-N	2 P	1634	.21	.40		
GRP 7336	24	1623	1722	1628	N26	E52	.807 8905 28.6	59	2B			2.69			2 2 2
MCMA	24	1621E	1722D	1624	N27	E53	.818 8905 28.7	61D	1B	V	1624	1.24	2.20		EK
MONT	24	1625	1711D	1632	N25	E50	.786 8905 28.4	46D	2N		1632	4.13			L
GRP 7336	24	1640	1652	1644	N26	E50	.789 8905 28.4	12	-N			.34			3 3 3
HUAN	24	1637	1705		N25	E50	.786 8905 28.4	28	-F	1 C	1641	.62	.79		
HALE	24	1643	1655	1644	N25	E48	.767 8905 28.3	12	-N	2 C	1644	.15	.20		
CATA	24	1505	1635	1515	N28	E52	.812 8905 28.5	90	-B		1515	.25	.43		224
GRP 7336	24	1720	1731	1725	N23	E54	.819 8905 28.8	11	-N			.84			4 3 3
LOCK	24	1718	1726	1722	N14	E57	.836 8905 29.0	8	-N	C	1722	.40	.80		10
HUAN	24	1721	1736		N27	E51	.801 8905 28.5	15	-N	1 C	1727	.57	.73		E
MCMA	24	1722	2015	1727	N27	E53	.818 8905 28.7	173	1B	V	1727	1.55	2.80		EK
HALE	24	1855	1906	1858	N26	E46	.750 8905 28.2	11	-N	1 C	1858	.10	.20		
GRP 7337	24	1727	1736	1731	N16	E65	.903 8907 29.6	9	-F			.38			4 4 4
LOCK	24	1726	1734	1729	N16	E66	.910 8907 29.7	8	-F	C	1729	.60	1.30		10
HALE	24	1730	1739	1734	N13	E67	.917 8907 29.8	9	-N	1 C	1734	.21			
HUAN	24	1728	1733	1729	N12	E68	.924 8907 29.8	5	-F	1 C	1729	.25			D
MCMA	24	1729	1738	1731	N15	E67	.917 8907 29.8	9	-F	V	1731	.31	.90		D
HALE	24	1726	1750	1730	N28	E47	.767 8907 28.3	24	-N	2 C	1730	.15	.20		
GRP 7338	24	1811	1820	1813	N13	E66	.910 8907 29.7	9	-N			.50			4 4 4
SACP	24	1808	1823	1813	N13	E66	.910 8907 29.7	15	-N	C		.92	1.54		
HUAN	24	1810	1817	1812	N12	E68	.924 8907 29.9	7	-F	1 C	1812	.31			E
MCMA	24	1810	1819	1812	N15	E65	.903 8907 29.6	9	-N	V	1812	.52	1.50		E
HALE	24	1814	1820	1815	N12	E67	.917 8907 29.8	6	-N	1 C	1815	.26			
HALE	24	1754	1814	1757	N11	E60	.863 8907 29.2	20	-N	1 C	1757	.21	.40		H

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OBSERV- ATORY	OBSERVED UT			LOCATION				DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL DIST.	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
1967 JULY															
GRP 7339	24	1822	1835	1827	N16	E61	.872 8907	29.3	13	-N		.58			5 5 5
SACP	24	1820	1835	1829	N15	E62	.880 8907	29.4	15	-N		.92	1.40		
LOCK	24	1820	1839	1827	N15	E58	.846 8907	29.1	19	-N	C	1827	.90	1.70	10
HUAN	24	1821	1833	1826	N16	E62	.880 8907	29.4	12	-N	2 C	1826	.41	.63	E
MCMA	24	1822	1834	1824	N18	E63	.889 8907	29.5	12	-N	V	1824	.26	.70	DH
HALE	24	1826	1834	1827	N15	E62	.880 8907	29.4	8	-N	1 C	1827	.41	.90	
GRP 7340	24	1850	1857	1852	N14	E57	.836 8907	29.1	7	-F		.30			1 1 1
LOCK	24	1850	1857	1852	N14	E57	.836 8907	29.1	7	-F	C	1852	.30	.60	10
GRP 7341	24	1904	1913	1907	N12	E58	.845 8907	29.1	9	-N		.41			3 3 3
LOCK	24	1900	1914	1908	N13	E56	.827 8907	29.0	14	-N	C	1908	.70	1.40	10
MCMA	24	1904	1909	1905	N12	E60	.863 8907	29.3	5	-F	V	1905	.31	.70	D
HALE	24	1907	1915	1908	N11	E57	.835 8907	29.1	8	-N	1 C	1908	.21	.40	H
GRP 7342	24	1920	1938	1922	N12	E57	.836 8907	29.1	18	-N		.51			2 2 2
LOCK	24	1919	1946	1922	N13	E56	.827 8907	29.0	27	-F	C	1922	.60	1.10	10
SACP	24	1920	1930	1922	N11	E58	.845 8907	29.2	10	-N	C		.41	.58	K
GRP 7343	24	2016	2032	2020	N25	E43	.716 8905	28.1	16	-N		.44			4 4 4
MCMA	24	2015	2026	2018	N24	E43	.712 8905	28.1	11	-N	V	2018	.21	.30	D
LOCK	24	2015	2038	2020	N24	E40	.680 8905	27.8	23	-F	C	2020	.50	.70	10
HALE	24	2018	2047	2021	N23	E40	.676 8905	27.8	29	-N	1 C	2021	.21	.30	
HUAN	24	1944	2017		N27	E50	.792 8905	28.6	33	-F	1 C	1955	.83	1.06	E
GRP 7343	24	2020	2150	2104	N28	E48	.776 8905	28.4	90	2B		4.30			2 2 2
SACP	24	2013	2140	2105	N29	E48	.780 8905	28.4	87	2B	C		5.51	6.98	
MCMA	24	2027	2200D	2103	N27	E48	.773 8905	28.5	93D	2B	V	2103	3.09	5.10	E
GRP 7343	24	2028	2105	2051	N27	E48	.773 8905	28.5	37	1B		2.27			2 2 2
HUAN	24	2025	2105D		N27	E49	.782 8905	28.5	40D	1B	1 P	2052	2.99	3.83	
HALE	24	2030	2059D	2051	N27	E47	.763 8905	28.4	29D	1B	1 P	2051	1.55	2.40	FJK
GRP 7344	24	2045	2102	2054	N11	E57	.835 8907	29.1	17	-B		.92			5 5 5
LOCK	24	2040	2105	2054	N13	E57	.836 8907	29.1	25	-N	C	2054	.90	1.70	10
SACP	24	2041	2103	2052	N11	E57	.835 8907	29.1	22	-N	C		1.42	1.96	
MCMA	24	2049	2100	2053	N10	E58	.845 8907	29.2	11	-B	V	2053	.83	1.60	EH
HALE	24	2050	2059D	2056	N11	E57	.835 8907	29.1	9D	-B	1 P	2056	.46	.90	
HUAN	24	2051E	2101		N10	E58	.845 8907	29.2	10D	-B	1 P	2052	1.00	1.43	
GRP 7345	24	2111	2145	2116	S28	W31	.702 8899	22.6	34	-F		.41			1 1 1
MCMA	24	2111	2145D	2116	S28	W31	.702 8899	22.6	34D	-F	C	2116	.41	.50	E
GRP 7346	24	2139	2147	2142	N14	E59	.855 8907	29.3	8	-N		.30			1 1 1
LOCK	24	2139	2147	2142	N14	E59	.855 8907	29.3	8	-N	C	2142	.30	.50	10
GRP 7347	24	2230	2247	2235	N24	E63	.893 8907	29.7	17	-F		.80			1 1 1
LOCK	24	2230	2247	2235	N24	E63	.893 8907	29.7	17	-F	C	2235	.80	1.70	10
GRP 7348	24	2300	2315	2303	N27	E47	.763 8905	28.5	15	-F		.31			1 1 1
IKOM	24	2300	2315D	2303	N27	E47	.763 8905	28.5	15D	-F	V	2303	.31	.50	E
GRP 7349	24	2320	2355	2321	N31	E41	.723 8905	28.0	35	-F		.30			1 1 1
LOCK	24	2320	2355	2321	N31	E41	.723 8905	28.0	35	-F	C	2321	.30	.50	10
GRP 7350	25	0023	0100	0038	N29	E44	.742 8905	28.3	37	1N		1.57			3 3 3
IKOM	25	0035E	0055D	0037	N28	E46	.757 8905	28.5	20D	1N	V	0037	1.55	2.30	100
MANI	25	0036E	0100	0039	N27	E46	.753 8905	28.5	24D	1N	1	0039	1.96	2.98	E
LOCK	25	0010	0059	0014	N31	E41	.723 8905	28.1	49	-F	C	0014	1.20	1.80	20
GRP 7351	25	0034	0059	0039	N13	E56	.826 8907	29.2	25	-N		.30			1 1 1
LOCK	25	0034	0059	0039	N13	E56	.826 8907	29.2	25	-N	C	0039	.30	.50	10
GRP 7352	25	0121	0132	0123	N14	E56	.827 8907	29.3	11	-N		.20			1 1 1
LOCK	25	0121	0132	0123	N14	E56	.827 8907	29.3	11	-N	C	0123	.20	.40	10
GRP 7353	25	0144	0200	0148	S21	W08	.460 8901	24.5	16	-N		1.10			1 1 1
LOCK	25	0144	0200	0148	S21	W08	.460 8901	24.5	16	-N	C	0148	1.10	1.30	10
GRP 7354	25	0218	0223	0221	N29	E48	.779 8905	28.7	5	-N		.31			1 1 1
HALE	25	0218	0223D	0221U	N29	E48	.779 8905	28.7	5D	-N	1 P	0221	.31	.50	JT
GRP 7355	25	0324	0332	0327	N29	E43	.732 8905	28.4	8	-B		1.06			2 2 2
TACH	25	0324	0328	0326	N29	E44	.742 8905	28.4	4	-B	V	0326	1.29	2.00	4.50 84
HALE	25	0328E	0336	0328U	N29	E42	.722 8905	28.3	8D	-N	2 P	0328	.83	1.20	JT
GRP 7356	25	0354	0406		N28	E44	.738 8905	28.5	12	2F		5.93			1 1 1
TACH	25	0354	0406		N28	E44	.738 8905	28.5	12	2F	V	0354	5.93	9.20	2.10 90
GRP 7357	25	0403	0413	0408	N11	E53	.796 8907	29.1	10	-N		1.10			4 4 3
MITK	25	0403	0406D		N12	E54	.806 8907	29.2	3D	-N	C	0406	.83	1.40	E
HALE	25	0403	0418	0409	N12	E53	.796 8907	29.1	15	1B	2 C	0409	1.24	2.10	
CRON	25	0404	0410	0406	N09	E54	.806 8907	29.2	6	-F	C		.30	.50	100
MANI	25	0406E	0411D		N11	E52	.785 8907	29.1	5D	-N	1	0406	1.24	1.97	
GRP 7358	25	0420	0423		N29	E44	.742 8905	28.5	3	-N		.93			1 1 1
TACH	25	0420	0423		N29	E44	.742 8905	28.5	3	-N	V	0420	.93	1.40	1.60 57
GRP 7359	25	0515	0519		N27	E44	.734 8905	28.5	4	-B		.93			1 1 1
TACH	25	0515	0519		N27	E44	.734 8905	28.5	4	-B	V	0518	.93	1.40	1.80 81
GRP 7360	25	0524	0526		N30	E46	.765 8905	28.7	2	1N		1.45			1 1 1
TACH	25	0524	0526		N30	E46	.765 8905	28.7	2	1N	V	0525	1.45	2.40	1.90 63

SOLAR FLARES
JULY 1967

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 Ha
GRP	1967 JULY																
7371	25	1303	1312	1307	N28	E39	.688 8905 28.5	9	-N					1.17			8 8 7
ATHN	25	1301	1306	1302	N28	E38	.677 8905 28.4	5	-B	2		1302	.99	1.40	2:00		
CANA	25	1301	1308	1304	N28	E37	.667 8905 28.3	7	-N		C		.50	.70		200	I
HUAN	25	1303	1314	1308	N28	E39	.688 8905 28.5	11	-N	2	C	1308	1.00	1.16			E
MEUD	25	1304	1312		N26	E35	.634 8905 28.2	8	-N		C	1304	.36	.50			
MCMA	25	1304	1314	1306	N28	E40	.698 8905 28.5	10	-B		C	1306	.41	.60			E
SACP	25	1304	1317	1306	N28	E38	.677 8905 28.4	13	1N		C		2:56	2.93			
MCNT	25	1305	1400	1315	N28	E44	.738 8905 28.8	55	1N			1315	2:06				
SANM	25	1307E	1314	1309	N28	E37	.667 8905 28.3	7D	-N		C	1309	.65	.85			
SANM	25	1307E	1513	1314	N30	E41	.718 8905 28.6	126D	-F		C	1314	.32	.45			
GRP	7372	25	1319	1330	1321	N27	E38	.672 8905 28.4	11	-N			.50				4 4 4
MCMA	25	1318	1333	1321	N28	E40	.698 8905 28.6	15	-B		V	1321	.83	1.20			E
SANM	25	1318	1335	1320	N28	E39	.688 8905 28.5	17	-F		C	1320	.32	.45			
HUAN	25	1319	1330	1321	N27	E39	.683 8905 28.5	11	-F	2	C	1321	.57	.65			E
MEUD	25	1322	1323		N26	E34	.623 8905 28.1	1	-N		C	1322	.26	.30			CD
GRP	7373	25	1340	1413	1349	N27	E40	.693 8905 28.6	33	1N			1.89				6 6 6
CAPS	25	1307E	1428		N27	E41	.703 8905 28.6	81D	1B	3		1345	2:50	3.70		237	F
SACP	25	1337	1408	1350	N27	E38	.672 8905 28.4	31	1N		C		2:44	2.81			
SANM	25	1338	1410	1350	N28	E39	.688 8905 28.5	32	1N		C	1350	1.94	2.60			
MCMA	25	1339	1427D	1348	N28	E40	.698 8905 28.6	48D	1B		V	1348	1:55	2.10			ELRV
CANA	25	1343	1355	1349	N27	E39	.683 8905 28.5	12	-F		C		1:40	1.90		100	I
HUAN	25	1343	1407	1349	N27	E40	.693 8905 28.6	24	-B	2	C	1349	1:50	1.73			E
GRP	7374	25	1424	1456	1428	N28	E39	.688 8905 28.5	32	1B			3:25				8 8 6
MCNT	25	1415	1500	1425	N28	E44	.738 8905 28.9	45	2B			1425	5:16				
HUAN	25	1423	1500	1429	N28	E39	.688 8905 28.5	37	1B	2	C	1429	2:37	2.70			
CANA	25	1424	1436	1426	N27	E38	.672 8905 28.5	12	-N		C		.80	1.10		200	I
SACP	25	1425	1444	1430	N28	E38	.677 8905 28.5	19	1N		C		3:56	4.06			
ATHN	25	1426	1456	1429	N27	E35	.640 8905 28.2	30	1B	2		1429	2:31	3.20		2:00	
MCMA	25	1427	1500	1429	N28	E40	.698 8905 28.6	33	1B		V	1429	3:09	4.30			ELRV
CAPS	25	1428	1509		N27	E41	.703 8905 28.7	41	1B	3		1433	3:00	4.30		354	F
SANM	25	1435E	1500		N28	E36	.657 8905 28.3	25D	-N		P	1436	.98	1.25			
GRP	7375	25	1449	1457	1451	N11	E47	.729 8907 29.1	8	-N			.56				6 6 6
ATHN	25	1447	1456	1449	N10	E48	.741 8907 29.2	9	-N	2		1449	.66	.90		1:70	
CANA	25	1448	1453	1449	N11	E46	.718 8907 29.1	5	-F		C		.40	.60		100	
SANM	25	1449	1458	1452	N10	E47	.729 8907 29.1	9	-N		C	1452	.67	.90			
MCMA	25	1450	1456	1452	N11	E48	.741 8907 29.2	6	-B		V	1456	.52	.80			D
HUAN	25	1450	1457	1452	N10	E48	.741 8907 29.2	7	-N	2	C	1452	.50	.60			D
SACP	25	1450	1459	1452	N11	E46	.718 8907 29.1	9	-N		C		.61	.72			
GRP	7376	25	1510	1550	S29	W39	.774 8899 22.7	40	-N				.33				1 1 1
SALO	25	1510E	1550D		S29	W39	.774 8899 22.7	40D	-N		V	1520	.33	.60		1:15	
GRP	7377	25	1537	1545	1539	N27	E36	.651 8905 28.4	8	-F			.50				3 3 3
CANA	25	1535	1540	1537	N26	E36	.645 8905 28.3	5	-F		C		.50	.70		100	I
HUAN	25	1537	1549	1540	N28	E37	.667 8905 28.4	12	-N	2	C	1540	.50	.56			D
SACP	25	1540	1546	1541	N28	E36	.657 8905 28.4	6	-F		C		.51	.57			
GRP	7378	25	1550	1600	1553	N12	E82	.988 8913 31.8	10	-N			.20				1 1 1
LOCK	25	1550	1600	1553	N12	E82	.988 8913 31.8	10	-N		C	1553	.20	.70		10	
GRP	7379	25	1620	1701	1628	N28	E37	.667 8905 28.5	41	-N			2:37				7 7 4
HUAN	25	1612	1713	1628	N27	E38	.672 8905 28.5	61	1N	2	C	1628	2:73	3.11			
MCMA	25	1616	1717D	1628	N28	E38	.677 8905 28.5	61D	1B		V	1628	2:58	3.50			EH
LOCK	25	1622	1702	1627	N29	E34	.643 8905 28.2	40	-F		C	1627	.40	.50		10	
ATHN	25	1625	1651D	1627	N27	E33	.619 8905 28.2	26D	-B	2		1627	1:32	1.80		2:00	
HALE	25	1628	1644	1632	N28	E37	.667 8905 28.5	16	-B	1	C	1632	.62	.80			EJT
MEUD	25	1623	1640		N26	E37	.656 8905 28.5	17	-N		C						E
SACP	25	1614	1706	1650	N30	E40	.708 8905 28.7	52	1N		C		2:85	3.34			
MEUD	25	1643	1653		N26	E38	.667 8905 28.5	10	-N		C						
GRP	7380	25	1645	1652	1647	N16	E45	.712 8907 29.1	7	-F			.20				1 1 1
LOCK	25	1645	1652	1647	N16	E45	.712 8907 29.1	7	-F		C	1647	.20	.30		10	
GRP	7381	25	1723	1743	1728	N28	E37	.667 8905 28.5	20	1N			2:04				5 5 4
MEUD	25	1720	1735	1720	N26	E33	.612 8905 28.2	15	-N		C						
HUAN	25	1720	1749	1728	N27	E37	.662 8905 28.5	29	1N	2	C	1728	2:01	2.26			
HALE	25	1723	1738	1731	N28	E36	.657 8905 28.4	15	1N	1	C	1731	1:75	2.30			JT
MCMA	25	1724E	1749	1726	N28	E38	.677 8905 28.6	25D	1B		V	1726	2:27	3.00			EH
SACP	25	1726	1742D	1729	N30	E40	.708 8905 28.7	16D	1N		C		2:13	2.50			
MEUD	25	1720	1735	1728	N26	E33	.612 8905 28.2	15	-N		C						
GRP	7382	25	1828	1850	1842	N28	E36	.657 8905 28.5	22	-N			.71				2 2 2
HUAN	25	1828	1847		N27	E37	.662 8905 28.5	19	-F	2	C	1840	.50	.56			E
SACP	25	1840E	1853D	1842	N28	E34	.636 8905 28.3	13D	-N		C		.92	1.01			
GRP	7383	25	1910	1925	1914	N28	E34	.636 8905 28.3	15	1N			1:86				1 1 1
HALE	25	1910	1925	1914	N28	E34	.636 8905 28.3	15	1N	1	C	1914	1:86	2.40			JT
GRP	7384	25	1937	1946	1939	N28	E34	.636 8905 28.4	9	-N			.41				1 1 1
HALE	25	1937	1946	1939	N28	E34	.636 8905 28.4	9	-N	1	C	1939	.41	.50			JT
GRP	7384	25	1944	1945	1944	N28	E33	.626 8905 28.3	1	-N			.31				1 1 1
HALE	25	1944	1945	1944	N28	E33	.626 8905 28.3	1	-N	1	C	1944	.31	.40			JT

SOLAR FLARES

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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.	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. %
1967 JULY																		
GRP 7415	26	1345	1400		N21	E80	.981	8913	1.6	15	-N						1 1 1	
CAPS	26	1345	1400		N21	E80	.981	8913	1.6	15	-N	3	1347	.40			E	
GRP 7416	26	1358	1411	1401	N13	E34	.565	8907	29.1	13	-F			.38			2 2 2	
CANA	26	1355	1414	1400	N13	E33	.551	8907	29.1	19	-F			.30	.40		HI	
HUAN	26	1401	1408	1402	N12	E35	.577	8907	29.2	7	-F	2	C	1402	.45	.48	100	EH
GRP 7417	26	1359	1410	1405	N13	W69	.930	8897	21.4	11	-F			.25			1 1 1	
HUAN	26	1359	1410	1405	N13	W69	.930	8897	21.4	11	-F	2	C	1405	.25			E
GRP 7418	26	1408	1429	1415	N15	E33	.557	8907	29.1	21	-N			2.58			5 4 1	
HOUS	26	1410	1417	1413	N13	E33	.551	8907	29.1	7	-F			.30	.40		100	
MCMA	26	1410	1418	1414	N15	E35	.584	8907	29.2	8	-N			.36	.40		H	
MONT	26	1410	1450	1418	N18	E31	.542	8907	28.9	40	IN			2.58			EH	
CAPS	26	1400	1418		N12	E34	.563	8907	29.1	18	-N	3					H	
SACP	26	1434E	1442D	1435	N15	E32	.543	8907	29.0	8D	-F			1.21	1.27			
GRP 7419	26	1526	1532	1528	N14	E33	.554	8907	29.1	6	-F			.32			5 5 5	
CANA	26	1524	1529	1526	N13	E32	.537	8907	29.0	5	-F			.30	.40		100	
HOUS	26	1525	1533	1527	N13	E32	.537	8907	29.0	8	-F			.40	.50		100	
HUAN	26	1526	1531	1528	N13	E32	.537	8907	29.0	5	-F	2	C	1528	.36	.38		EH
MEUD	26	1527	1532	1529	N13	E33	.551	8907	29.1	5	-F			.21	.20			
MCMA	26	1527	1533	1528	N16	E36	.600	8907	29.3	6	-N			.31	.40		D	
GRP 7420	26	1535	1551	1539	N28	E34	.635	8905	29.2	16	-N			.77			8 8 8	
CANA	26	1532	1544	1533	N28	E32	.614	8905	29.0	12	-N			.50	.60		200	
HUAN	26	1535	1546	1537	N28	E34	.635	8905	29.2	11	-N	2	C	1537	.75	.85		E
HOUS	26	1535	1552	1536	N28	E33	.625	8905	29.1	17	-N			.70	.90		200	
MEUD	26	1536	1548		N28	E34	.635	8905	29.2	12	-N			.41	.50		E	
MCMA	26	1536	1549	1537	N28	E35	.646	8905	29.3	13	-B			.62	.80		E	
CAPS	26	1538	1559		N27	E35	.640	8905	29.3	21	-N	2		1.10	1.40		170	
SACP	26	1540E	1551	1542	N30	E33	.639	8905	29.1	11D	-N			1.21	1.34			
ATHN	26	1544E	1555	1544	N28	E33	.625	8905	29.1	11D	-N	2		.83	1.10	1.60		
GRP 7421	26	1559	1610	1602	N13	E33	.551	8907	29.1	11	-N			.52			7 7 7	
CANA	26	1555	1607	1559	N13	E34	.565	8907	29.2	12	-N			.30	.40		200	
SACP	26	1556	1610	1600	N12	E32	.534	8907	29.1	14	-N			.91	.95			
HOUS	26	1559	1612	1603	N11	E32	.532	8907	29.1	13	-N			.50	.60		200	
MONT	26	1600	1610	1605	N18	E30	.529	8907	28.9	10	-N			.52				
MCMA	26	1601	1609	1603	N14	E34	.568	8907	29.2	8	-B			.41	.50		E	
HUAN	26	1601	1610	1602	N11	E33	.547	8907	29.1	9	-N	2	C	1602	.70	.74		E
MEUD	26	1603	1610		N13	E33	.551	8907	29.1	7	-N			.31	.40		E	
GRP 7422	26	1617	1628	1620	S28	W58	.906	8899	22.3	11	-N			.49			5 5 5	
MEUD	26	1617	1627	1620	S30	W60	.923	8899	22.2	10	-F			.31	.70		E	
SACP	26	1617	1628	1619	S31	W57	.909	8899	22.4	11	-F			.80	1.34			
HOUS	26	1617	1628	1619	S29	W58	.909	8899	22.3	11	-N			.30	.50		200	
HUAN	26	1617	1629	1620	S29	W58	.909	8899	22.3	12	-N	2	C	1620	.36	.60		E
ATHN	26	1620E	1630	1620	S22	W58	.891	8899	22.3	10D	-N	2		.66	1.50	1.60		
GRP 7423	26	1624	1653	1626	N27	E24	.523	8905	28.5	29	-N			1.33			4 4 4	
CANA	26	1617	1627	1621	N27	E25	.533	8905	28.6	10	-F			1.10	1.30		100	
SACP	26	1622	1711	1627E	N28	E24	.532	8905	28.5	49	-N			1.82	1.90			
HUAN	26	1623	1657	1625	N28	E25	.542	8905	28.6	34	IF	2	C	1625	1.86	1.96		
CANA	26	1615	1619	1616	N26	E17	.443	8905	28.0	4	-F			.30	.30		100	
MCMA	26	1707	1729D		N26	E26	.535	8905	28.7	22D	-N			.62	.80		EK	
MCMA	26	1632	1655	1639	N28	E25	.542	8905	28.6	23	-N			.52	.70			
GRP 7424	26	1722	1732	1725	S23	E78	.988	8912	1.6	10	-N			.41			4 4 3	
LOCK	26	1719	1732	1725	S21	E77	.984	8912	1.5	13	-F			.30	.90		10	
HOUS	26	1722	1726U	1723	S24	E80	.993	8912	1.7	4U	-F			.30	1.00		100	
MCMA	26	1722	1730	1724	S24	E80	.993	8912	1.7	8	-F			.10			E	
HALE	26	1725	1733	1727	S22	E75	.979	8912	1.4	8	1B	1	C	1727	.62			
GRP 7425	26	1731	1739	1733	N13	E32	.537	8907	29.1	8	-F			.29			2 2 2	
MCMA	26	1729	1733	1731	N14	E34	.568	8907	29.3	4	-F			.31	.40		EH	
HALE	26	1732	1744	1734	N12	E30	.506	8907	29.0	12	-F	1	C	1734	.26	.30		T
GRP 7426	26	1741	1800	1747	N25	E20	.462	8905	28.2	19	-N			.80			5 5 5	
HUAN	26	1741	1753		N23	E19	.430	8905	28.2	12	-B	1	P	1745	.70	.71		E
MCMA	26	1738E	1746D		N27	E23	.513	8905	28.5	8D	-B			.83	.90		E	
HALE	26	1745	1806	1747	N24	E17	.420	8905	28.0	21	-B	1	C	1747	.31	.30		T
HOUS	26	1742	1801	1746	N24	E20	.451	8905	28.2	19	-N			1.20	1.50		200	
LOCK	26	1743	1807	1747	N25	E15	.413	8905	27.9	24	-N			.90	1.00		10	
HUAN	26	1737	1744		N27	E23	.513	8905	28.5	7	-N	1	C	1739	.45	.47		E
HALE	26	1740	1800	1742	N28	E22	.513	8905	28.4	20	-N	1	C	1742	.36	.40		T
GRP 7427	26	1745	1805	1748	N14	E31	.526	8907	29.1	20	-N			1.41			5 5 4	
LOCK	26	1730	1835	1749	N14	E29	.498	8907	28.9	65	1F			1.80	2.20		10	
HOUS	26	1744	1752	1747U	N13	E31	.523	8907	29.1	8	1F			2.10	2.50		100	
MCMA	26	1745	1746D		N16	E34	.574	8907	29.3	1D	-B			.36	.40		IL	
HUAN	26	1745E	1753		N13	E32	.537	8907	29.1	8D	-B	1	P	1749	1.03	1.08		DM
HALE	26	1747	1758	1749	N14	E31	.526	8907	29.1	11	-B	1	C	1749	.72	.80		H
GRP 7427	26	1801	1814	1805	N14	E30	.512	8907	29.0	13	-N			.35			TW	
LOCK	26	1759	1814	1803	N13	E28	.480	8907	28.8	15	-F			.40	.50		2 2 2	
HOUS	26	1803	1814	1806	N14	E32	.540	8907	29.2	11	-N			.30	.40		200	

SOLAR FLARES

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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	
1967 JULY																	
GRP 7428	26	1809	1826	1813	N27	E24	.523	8905	28.6	17	-N		.95				2 2 2
HALE	26	1811	1826	1813	N28	E26	.552	8905	28.7	15	-N	1 C	1813	.52	.60		T
HUAN	26	1806E	1823D		N28	E27	.563	8905	28.8	17D	-N	1 P	1808	1.37	1.44		E
HALE	26	1757	1818	1803	N27	E22	.503	8905	28.4	21	-N	1 C	1803	.26	.30		T
HUAN	26	1806E	1823D		N27	E22	.503	8905	28.4	17D	-N	1 P					
GRP 7429	26	1836	1842	1838	N11	E78	.975	8913	1.6	6	-F		.10				1 1 1
HOUS	26	1836	1842	1838	N11	E78	.975	8913	1.6	6	-F	C	.10	.30		100	
GRP 7430	26	1926	1954	1941	N22	E12	.348	8905	27.7	28	-F		.30				1 1 1
LOCK	26	1926	1954	1941	N22	E12	.348	8905	27.7	28	-F	C	1941	.30	.30		10
GRP 7431	26	2000	2010	2002	N13	E30	.509	8907	29.1	10	-N		.54				2 2 2
HOUS	26	1959U	2007	2000	N12	E30	.506	8907	29.1	8U	-N	C		.40	.50		200 HI
HALE	26	2000	2012	2004	N13	E30	.509	8907	29.1	12	-N	1 C	2004	.67	.80		T
GRP 7432	26	2016	2027	2022	N16	E34	.574	8907	29.4	11	-N		1.03				1 1 1
HALE	26	2016	2027	2022	N16	E34	.574	8907	29.4	11	-N	1 C	2022	1.03	1.30		T
GRP 7433	26	2048	2056		N27	E28	.565	8905	29.0	8	-F		.31				1 1 1
MCMA	26	2048	2056		N27	E28	.565	8905	29.0	8	-F	V	2051	.31	.40		D
GRP 7434	26	2113	2128	2117	N16	E34	.574	8907	29.4	15	-N		.74				4 4 4
LOCK	26	2110	2140	2118	N18	E32	.555	8907	29.3	30	-F	C	2118	.80	1.00		10
HUAN	26	2114	2122	2116	N15	E34	.571	8907	29.4	8	-N	2 C	2116	.55	.58		E
HOUS	26	2114	2124	2117	N15	E33	.557	8907	29.4	10	-N	C		1.10	1.30		200 H
MCMA	26	2114	2125	2118	N16	E36	.600	8907	29.6	11	-N	C	2118	.52	.70		EH
GRP 7435	26	2114	2120	2116	N23	E30	.558	8905	29.1	6	-N		.26				1 1 1
MCMA	26	2114	2120	2116	N23	E30	.558	8905	29.1	6	-N	C	2116	.26	.30		D
GRP 7436	26	2135	2146	2137	N24	E29	.553	8905	29.1	11	-N		.76				4 4 4
MCMA	26	2133	2138D	2135	N23	E30	.558	8905	29.1	5D	-N	C	2135	.52	.70		E
HALE	26	2134	2148	2138	N25	E30	.572	8905	29.1	14	-F	1 C	2138	.93	1.10		TK
SACP	26	2136	2143D	2138	N25	E28	.549	8905	29.0	7D	-N	C		1.21	1.27		
HUAN	26	2136	2144	2138	N24	E29	.553	8905	29.1	8	-F	2 C	2138	.36	.39		E
GRP 7437	26	2150	2158	2153	N28	E23	.522	8905	28.6	8	-F		.74				1 1 1
HUAN	26	2150	2158	2153	N29	E26	.561	8905	28.9	8	-F	2 C	2153	.74	.79		E
HUAN	26	2150	2158	2153	N28	E21	.503	8905	28.5	8	-F	2 C					
GRP 7438	26	2208	2218	2214	N11	E30	.503	8907	29.2	10	-F		.25				1 1 1
HUAN	26	2208	2218	2214	N11	E30	.503	8907	29.2	10	-F	2 C	2214	.25	.26		DH
GRP 7439	26	2213	2223	2217	N26	E18	.453	8905	28.3	10	-N		.71				2 2 2
LOCK	26	2210	2217	2212	N24	E10	.359	8905	27.7	7	-F	C	2212	1.00	1.10		10
HUAN	26	2216	2229D	2221	N28	E25	.542	8905	28.8	13D	-N	2 C	2221	.41	.44		E
GRP 7440	26	2244	2257	2249	N14	E28	.483	8907	29.0	13	1N		2.05				4 4 4
SACP	26	2240	2248	2243	N15	E28	.488	8907	29.0	8	-F	C		.71	.73		
HOUS	26	2242	2300	2246	N13	E27	.465	8907	29.0	18	1N	C		4.20	4.80		200 I
HALE	26	2244	2300	2251	N14	E28	.483	8907	29.0	16	1N	2 C	2251	2.58	3.00		TK
IKOM	26	2251	2300D		N14	E29	.498	8907	29.1	9D	-N	V	2251	.72	.80		D
GRP 7441	26	2250	2303	2253	N27	E14	.430	8905	28.0	13	-B		.87				2 2 2
SACP	26	2249	2300	2253	N27	E13	.422	8905	27.9	11	-N	C		.91	.91		
IKOM	26	2251	2305D		N26	E15	.426	8905	28.1	14D	-B	V	2255	.83	.90		D
GRP 7441	26	2252	2317	2307	N27	E13	.422	8905	27.9	25	-N		.87				2 2 2
HALE	26	2252	2317	2310	N27	E14	.430	8905	28.0	25	-B	1 C	2310	1.03	1.10		T
LOCK	26	2258E	2316	2304	N27	E11	.408	8905	27.8	18D	-F	C	2304	.70	.80		10
GRP 7442	26	2306	2325	2311	N28	E22	.513	8905	28.6	19	-N		.64				5 5 5
SACP	26	2302	2323	2309	N28	E18	.476	8905	28.3	21	-N	C		1.53	1.55		
MANI	26	2305	2322	2310	N26	E21	.482	8905	28.5	17	-F	2 C	2310	.31	.35		
MITK	26	2307	2319	2310	N28	E24	.532	8905	28.8	12	-N	C	2310	.62	.70		E
IKOM	26	2313E	2335D		N28	E25	.542	8905	28.8	22D	-N	V	2313	.31	.40		D
HALE	26	2311	2328	2313	N28	E23	.522	8905	28.7	17	-F	1 C	2313	.41	.50		T
GRP 7443	26	2330	2345	2332	N28	E20	.494	8905	28.5	15	-N		1.58				6 6 5
LOCK	26	2305	2356	2333	N31	E20	.527	8905	28.5	51	-N	C	2333	1.40	1.70		10 K
MANI	26	2325	2343	2332	N26	E21	.482	8905	28.6	18	-N	2 C	2332	.36	.41		
MITK	26	2329	2338	2331	N28	E20	.494	8905	28.5	9	-B	C	2331	1.55	1.80		
SACP	26	2329	2346	2332	N28	E19	.485	8905	28.4	17	1N	C		2.23	2.29		
IKOM	26	2333E	2339D		N28	E18	.476	8905	28.3	6D	-N	V	2333	1.44	1.60		120 D
HALE	26	2333	2346	2334	N28	E20	.494	8905	28.5	13	-B	1 C	2334	1.29	1.50		T
GRP 7444	26	2340	0024	2351	N24	E34	.611	8907	29.5	44	-N		1.52				2 2 2
LOCK	26	2336	0052	2355	N21	E32	.570	8907	29.4	76	-F	C	2355	1.40	1.70		10
SACP	26	2344	2355	2347	N27	E36	.650	8907	29.7	11	-N	C		1.63	1.82		
GRP 7445	27	0003	0023	0007	N23	E14	.379	8905	28.1	20	-N		1.06				6 6 6
LOCK	26	2357	0035	0009	N23	E11	.352	8905	27.8	38	-N	C	0009	.70	.80		10
SACP	27	0000E	0027	0007	N23	E12	.360	8905	27.9	27D	-N	C		1.53	1.52		
HALE	27	0002B	0005D	0005D	N22	E12	.346	8905	27.9	3D	-N	2 D	0005	.36	.40		
MITK	27	0005	0016	0008	N22	E12	.346	8905	27.9	11	-N	C	0008	.93	1.00		
MANI	27	0006E	0017D		N21	E11	.324	8905	27.8	11D	-F	1 C	0006	.93	.98		
IKOM	27	0010	0018D		N23	E14	.378	8905	28.1	8D	-N	V	0010	1.03	1.10		95 D
HALE	27	0002B	0205	0027U	N27	E32	.607	8905	29.4	123B	-B	2 P	0027	1.24	1.50		IF
GRP 7446	27	0117	0137	0119	N14	E26	.454	8907	29.0	20	-N		.20				1 1 1
LOCK	27	0117	0137D	0119	N14	E26	.454	8907	29.0	20D	-N	C	0119	.20	.20		10 K

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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.		MAX. WIDTH Ha	MAX. INT.
GRP 7447	1967 JULY 27	0154	0225	0159	N28	E18	.475 8905	28.4	31	-F						1 1 1		
HALE	27	0154	0225	0159	N28	E18	.475 8905	28.4	31	-F	2	C	0159	.21	.20		JT	
GRP 7448	27	0154	0232	0220	N13	E25	.435 8907	29.0	38	-B				.46			1 1 1	
HALE	27	0154	0232	0220	N13	E25	.435 8907	29.0	38	-B	2	C	0220	.46	.50		JT	
GRP 7449	27	0256	0313	0301	N28	E22	.512 8905	28.8	17	-N				.84			6 6 6	
HALE	27	0256	0327	0301	N29	E22	.522 8905	28.8	35	-B	2	C	0301	.31	.40		JT	
MITK	27	0251	0307	0254	N29	E23	.532 8905	28.8	16	-N		C	0254	.72	.90		E	
IKOM	27	0255E	0302		N28	E25	.541 8905	29.0	7D	-F		V	0255	.72	.90		D	
MANI	27	0258E	0310D		N24	E20	.450 8905	28.6	12D	-F	1		0300	.77	.86			
SIBE	27	0300E	0314	0301	N28	E25	.541 8905	29.0	14D	-F		P	0301	.66	.90		73 DT	
TACH	27	0301	0320		N29	E18	.487 8905	28.5	19	-B		V	0302	1.65	1.80	3.00	102	
HALE	27	0248	0342	0258	N27	E17	.454 8905	28.4	54	-N	2	C	0258	.52	.60		JT	
GRP 7450	27	0345	0442	0402	N14	E24	.425 8907	29.0	57	-B				.67			1 1 1	
HALE	27	0345	0442	0402	N14	E24	.425 8907	29.0	57	-B	2	C	0402	.67	.70		IJT	
GRP 7451	27	0358	0451	0442	N27	E16	.445 8905	28.4	53	-N				.65			2 2 2	
HALE	27	0358	0455	0443	N27	E17	.454 8905	28.4	57	-N	2	C	0443	.31	.30		JTK	
ATHN	27	0440E	0447	0440	N27	E15	.437 8905	28.3	7D	-N	2		0440	.99	1.10	1.80		
GRP 7451	27	0400	0435	0406	N28	E18	.475 8905	28.5	35	1N				4.02			2 2 1	
HALE	27	0358	0455	0406	N27	E17	.454 8905	28.4	57	-N	2	C	0406	.31	.30		JTK	
TACH	27	0402	0415		N29	E18	.487 8905	28.5	13	1F		V	0403	4.02	4.40	2.00	57	
GRP 7452	27	0516	0524	0518	N27	E17	.454 8905	28.5	8	-N				2.02			4 4 3	
ATHN	27	0514	0522	0516	N27	E16	.445 8905	28.4	8	-N	2		0516	1.65	1.80	1.80		
CRON	27	0517	0521	0518	N26	E15	.424 8905	28.3	4	-F		C		.40	.40		100	
MITK	27	0517	0523	0518	N28	E16	.458 8905	28.4	6	-N		C	0518	.93	1.00		D	
SIBE	27	0517E	0530	0519	N27	E20	.482 8905	28.7	13D	1F		P	0519	3.47	4.60		77 ET	
GRP 7453	27	0608	0640	0610	N28	E15	.450 8905	28.4	32	-N				.39			2 2 1	
ISTA	27	0605E	0615		N27	E12	.414 8905	28.2	10D	-N								
CATA	27	0610	0640	0610	N27	E14	.429 8905	28.3	30	-N			0610	.39	.44		195	
ISTA	27	0620	0640		N29	E19	.495 8905	28.7	20	-N								
GRP 7454	27	0608	0651	0615	N18	E79	.978 8913	2.2	43	-N				1.28			3 3 2	
CATA	27	0610	0645	0615	N14	E80	.982 8913	2.3	35	-N			0615	.55			174	
CAPS	27	0614E	0627		N19	E77	.970 8913	2.0	13D	1F	2		0617	2.00			CE	
ISTA	27	0605E	0720		N22	E80	.981 8913	2.3	75D	-N								
GRP 7454	27	0645	0713	0652	N21	E79	.977 8913	2.2	28	1F				1.75			3 3 3	
CAPS	27	0639	0719		N21	E78	.974 8913	2.1	40	1F	2		0658	1.00			D	
ATHN	27	0650	0708	0652	N20	E80	.981 8913	2.3	18	-N	2		0652	.50		1.80		
KHAR	27	0700E	0713		N22	E78	.974 8913	2.1	13D	2F		V	0707	3.74	12.20	2.40		DH
GRP 7455	27	0702	0708	0704	N13	E24	.420 8907	29.1	6	1F				1.93			1 1 1	
CAPE	27	0702	0708	0704	N13	E24	.420 8907	29.1	6	1F		C	0704	1.93	2.10		CH	
GRP 7456	27	0714	0731		N23	E12	.360 8905	28.2	17	-N				2.11			6 5 3	
CATA	27	0545	0740	0720	N22	E13	.356 8905	28.2	115	-N			0720	.44	.48		195	
ATHN	27	0712	0726	0713	N23	E12	.360 8905	28.2	14	-N	2		0713	1.65	1.80	1.90		
CAPS	27	0713	0732		N22	E13	.356 8905	28.3	19	-B	2		0714	1.20	1.30		196	
ONDR	27	0714E	0730		N23	E10	.343 8905	28.1	16D	-F		V	0716			1.60		
KHAR	27	0715	0735		N23	E11	.351 8905	28.1	20	1F		V	0724	2.50	2.70	2.10		
ISTA	27	0638	0730		N22	E13	.356 8905	28.3	52	-B								
ATHN	27	0658	0712	0702	N27	E14	.429 8905	28.3	14	1B	2		0702	2.64	3.00	2.00		
ISTA	27	0715	0725		N23	E14	.378 8905	28.4	10	-B								
CATA	27	0735	0835	0745	N26	E15	.424 8905	28.4	60	-N			0745	.21	.24		182	
GRP 7457	27	0750	0850	0750	N30	E27	.579 8905	29.4	60	-B			0750	.11	.14		219	
CATA	27	0750	0850	0750	N30	E27	.579 8905	29.4	60	-B				.11	.14			
GRP 7458	27	0809	0818	0814	N15	E23	.416 8907	29.1	9	1F				2.59			1 1 1	
CAPE	27	0809	0818	0814	N15	E23	.416 8907	29.1	9	1F		C	0814	2.59	2.80		CH	
GRP 7459	27	0857	0911	0901	N28	E16	.458 8905	28.6	14	-F				2.35			5 5 3	
MEUD	27	0852	0858	0852	N27	E17	.454 8905	28.6	6	-F		C	0852	.41	.40		D	
CANA	27	0858	0905D	0859	N28	E08	.405 8905	28.0	7D	-F		C		.30	.30		100	
CAPE	27	0859	0916	0902	N29	E19	.495 8905	28.8	17	1N		C	0902	1.93	2.20		KTV	
KHAR	27	0900	0916		N28	E17	.466 8905	28.6	16	1F		V	0908	3.97	4.60	1.60		
SALO	27	0902E	0920D		N27	E17	.454 8905	28.7	18D	-N		P	0910	1.16	1.30	.14		
GRP 7459	27	0857	0914	0904	N27	E19	.473 8905	28.8	17	-N				1.62			3 3 2	
CAPS	27	0851	0913		N28	E19	.484 8905	28.8	22	1N	2		0903	1.80	2.10		182	
CAPE	27	0859	0916	0907	N28	E19	.484 8905	28.8	17	-N			0907	1.43	1.60		J	
MEUD	27	0901	0912	0901	N26	E18	.452 8905	28.7	11	-N		C	0901	.21	.20			
GRP 7460	27	0915	0919	0915	N17	E48	.747 8911	31.0	4	-N				.27			2 2 2	
MEUD	27	0915	0918	0915	N18	E48	.749 8911	31.0	3	-F		C	0915	.26	.40			
CATA	27	0915	0920	0915	N16	E48	.746 8911	31.0	5	-B			0915	.27	.43		219	
GRP 7461	27	0923	0937	0932	N29	E18	.487 8905	28.7	14	1N				2.35			1 1 1	
CAPE	27	0923	0937D	0932	N29	E18	.487 8905	28.7	14D	1N		C	0932	2.35	2.70		T	
GRP 7462	27	0928	0937		N18	W75	.962 8895	21.8	9	-N				.92			1 1 1	
CAPE	27	0928	0937		N18	W75	.962 8895	21.8	9	-N		P	0937	.92	3.30		F	

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OBSERV- ATORY	OBSERVED UT			LOCATION					DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MGMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	
GRP 7478	27	1500	1509	1503	N20	E75	.962 8913	2.3	9	-N		.34				3 3 3
CANA	27	1457	1505	1500	N19	E72	.947 8913	2.0	8	-F	C	.30	.80		100	D
HUAN	27	1501	1510	1504	N20	E76	.966 8913	2.3	9	-N	1 C	.31				
HOUS	27	1501	1512U	1504	N21	E76	.966 8913	2.3	11U	-N	C	.40	.90		200	I
GRP 7479	27	1510	1516	1512	N28	E12	.428 8905	28.5	6	-N		1.50				1 1 1
HUAN	27	1510	1516	1512	N28	E12	.428 8905	28.5	6	-N	2 C	1.50	1.51			
GRP 7480	27	1529	1542	1533	N12	E20	.356 8907	29.1	13	-F		.51				5 5 5
CANA	27	1524	1532	1527	N14	E17	.323 8907	28.9	8	-F	C	.20	.20		100	
HOUS	27	1528	1545	1532	N13	E19	.346 8907	29.1	17	-N	C	.80	.80		200	EI
HUAN	27	1529	1546	1534	N11	E20	.351 8907	29.1	17	-F	2 C	.75	.75			E
MEUD	27	1534	1540	1534	N12	E19	.340 8907	29.1	6	-F	C	.46	.50			E
SALO	27	1535E	1545D		N10	E24	.410 8907	29.4	10D	-N	P	.33	.40	.11		
GRP 7481	27	1543	1549	1546	N29	E16	.470 8905	28.9	6	-N		.78				2 2 2
SACP	27	1543	1549	1546	N29	E14	.455 8905	28.7	6	-N	C	.81	.83			
HUAN	27	1543	1549	1546	N28	E17	.466 8905	28.9	6	-F	2 C	.75	.76			
GRP 7482	27	1607	1620	1609	N24	E07	.339 8905	28.2	13	-N		1.01				8 8 8
SALO	27	1540E	1620D		N23	E11	.351 8905	28.5	40D	-B	P	.99	1.10	.15		
HUAN	27	1553	1620	1609	N24	E08	.344 8905	28.3	27	-B	2 C	1.39	1.39			E
ATHN	27	1605E	1620	1607	N25	E05	.345 8905	28.0	15D	-N	2	.99	1.10	1.86		
HOUS	27	1607	1615	1608	N23	E07	.323 8905	28.2	8	-N	C	1.20	1.20		200	E
SACP	27	1607	1619	1609	N24	E07	.339 8905	28.2	12	-N	C	1.84	1.82			
MEUD	27	1608	1616	1609	N24	E07	.339 8905	28.2	8	-N	C	.72	.70			
LOCK	27	1608E	1625	1609	N24	E05	.329 8905	28.0	17D	-N	C	.50	.60		10	
HALE	27	1610B	1627	1612	N23	E05	.313 8905	28.0	17B	-B	2 D	.46	.50			JT
GRP 7483	27	1618	1632	1623	N21	E74	.957 8913	2.2	14	-F		.73				3 3 3
HOUS	27	1618	1631	1621	N21	E74	.957 8913	2.2	13	-N	C	.80	1.20		200	I
HALE	27	1618	1632	1625	N21	E75	.962 8913	2.3	14	-F	2 C	.36				
SACP	27	1618	1632	1623	N22	E72	.947 8913	2.1	14	-F	C	1.02	2.00			
GRP 7484	27	1719	1726	1721	N11	E22	.382 8907	29.4	7	-N		.41				4 4 4
SACP	27	1718	1724	1720	N12	E21	.371 8907	29.3	6	-N	C	.71	.71			
HUAN	27	1718	1724	1720	N11	E22	.382 8907	29.4	6	-F	2 C	.36	.36			D
LOCK	27	1720E	1726	1720	N11	E21	.367 8907	29.3	6D	-N	C	.30	.30		10	
HALE	27	1721	1730	1722	N11	E22	.382 8907	29.4	9	-N	3 C	.26	.30			J
GRP 7485	27	1733	1746	1736	N29	E13	.448 8905	28.7	13	1N		2.48				3 2 2
HALE	27	1718	1802	1739	N28	E14	.442 8905	28.8	44	-B	2 C	1.39	1.50			JTU
SACP	27	1731	1744	1736	N29	E13	.448 8905	28.7	13	1N	C	2.45	2.49			
HUAN	27	1734	1748	1736	N29	E13	.448 8905	28.7	14	1N	2 C	2.51	2.54			
HUAN	27	1650	1721	1653	N28	E13	.435 8905	28.7	31	-B	2 C	1.24	1.26			
HALE	27	1718	1722	1720	N28	E09	.410 8905	28.4	4	-B	2 C	.21	.20			JT
GRP 7486	27	1804	1825	1809	N11	E20	.351 8907	29.3	21	-N		1.04				6 6 6
SACP	27	1800	1819	1804	N12	E21	.371 8907	29.3	19	1N	C	2.65	2.63			
HUAN	27	1812	1816	1814	N10	E21	.363 8907	29.3	4	-N	1 C	1.00	1.00			EH
LOCK	27	1802	1830	1803	N12	E20	.356 8907	29.3	28	-N	C	.60	.70		10	
MOMA	27	1805E	1815D		N11	E20	.351 8907	29.3	10D	-N	V	.41	.40			EH
HALE	27	1805	1843	1816	N11	E21	.367 8907	29.3	38	-B	3 C	.36	.40			TK
HOUS	27	1810	1817	1812	N11	E19	.336 8907	29.2	7	-N	C	1.10	1.10		300	EMI
HUAN	27	1801	1807	1804	N10	E22	.379 8907	29.4	6	-N	1 C	.83	.83			H
HALE	27	1805	1843	1807	N11	E21	.367 8907	29.3	38	-N	3 C	.46	.50			TK
GRP 7487	27	1858	1908	1902	N12	E17	.310 8907	29.1	10	-F		.50				2 2 2
HUAN	27	1858	1907	1901	N11	E18	.320 8907	29.1	9	-F	2 C	.50	.50			E
LOCK	27	1858	1909	1902	N12	E15	.279 8907	28.9	11	-F	C	.50	.60		10	
GRP 7488	27	1902	1915	1903	N25	E11	.379 8905	28.6	13	-N		1.13				2 2 1
HUAN	27	1859	1916	1901	N23	E12	.360 8905	28.7	17	-N	2 C	1.13	1.14			E
HALE	27	1904	1913	1904	N27	E09	.395 8905	28.5	9	-N	2 C	.21	.20			BJT
HALE	27	1846	1901	1850	N28	E11	.421 8905	28.6	15	-B	2 C	.72	.80			JTI
GRP 7489	27	1927	2011	1945	N27	E11	.407 8905	28.6	44	-N		.71				3 3 3
HALE	27	1925	2027	1946	N28	E12	.428 8905	28.7	62	-N	2 C	.52	.60			JTIF
LOCK	27	1926	1952	1945	N24	E07	.339 8905	28.3	26	-F	C	.60	.70		10	K
HUAN	27	1930	2014	1943	N28	E13	.435 8905	28.8	44	-N	1 C	1.00	1.01			
GRP 7490	27	1952	2006	1954	N13	E23	.406 8907	29.6	14	-N		.35				2 2 2
LOCK	27	1950	2001	1951	N13	E19	.346 8907	29.3	11	-F	C	.50	.60		10	K
HOUS	27	1954	2010	1956	N13	E27	.465 8907	29.9	16	-N	C	.20	.30		200	
GRP 7491	27	1952	2026	1958	N16	E35	.587 8911	30.5	34	-N		.26				2 2 2
HALE	27	1951	2035	1958	N15	E36	.597 8911	30.5	44	-N	2 C	.21	.30			
LOCK	27	1952	2016	1958	N17	E34	.577 8911	30.4	24	-F	C	.30	.40		10	
GRP 7492	27	2013	2024	2015	N23	E05	.313 8905	28.2	11	-N		.49				3 3 3
LOCK	27	2011	2018	2013	N24	E04	.326 8905	28.1	7	-N	C	.40	.40		10	
HUAN	27	2013	2023	2014	N22	E05	.298 8905	28.2	10	-N	1 C	.75	.75			
HALE	27	2014	2031	2018	N23	E05	.313 8905	28.2	17	-N	2 C	.31	.30			FJT
GRP 7493	27	2037	2054	2045	N14	E17	.323 8907	29.1	17	-N		.52				3 3 3
HUAN	27	2035	2052	2043	N14	E17	.323 8907	29.1	17	-N	1 C	.50	.50			H
HALE	27	2038	2057	2046	N15	E17	.330 8907	29.1	19	-N	2 C	.46	.50			TJ
HOUS	27	2043E	2052	2046	N14	E16	.308 8907	29.1	9D	-N	C	.60	.60		200	H1

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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	MCMAATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H α	MAX. INT.
GRP 7517	28	0305	0314	0307	N15	E11	.249	8907	29.0	9	-F						1 1 1	
HALE	28	0305	0314	0307	N15	E11	.249	8907	29.0	9	-F	1	C	0307	.31	.30		
GRP 7518	28	0406	0411	0407	N15	E10	.237	8907	28.9	5	-N				.21			1 1 1
HALE	28	0406	0411	0407	N15	E10	.237	8907	28.9	5	-N	3	C	0407	.21	.20		
GRP 7519	28	0428	0440	0435	N16	E09	.238	8907	28.9	12	-N				.41			1 1 1
HALE	28	0428	0440	0435	N16	E09	.238	8907	28.9	12	-N	2	C	0435	.41	.40		
GRP 7520	28	0530	0537	0531	N16	E24	.435	8907	30.0	7	-N				.66			1 1 1
ATHN	28	0530	0537	0531	N16	E24	.435	8907	30.0	7	-N	3		0531	.66	.70	1.70	
GRP 7521	28	0535	0542	0536	N16	E12	.272	8907	29.1	7	-N				.83			1 1 1
ATHN	28	0535	0542	0536	N16	E12	.272	8907	29.1	7	-N	3		0536	.83	.90	1.70	
GRP 7522	28	0555	0620	0555	N16	E40	.651	8911	31.2	25	-N				.84			1 1 1
CATA	28	0555	0620	0555	N16	E40	.651	8911	31.2	25	-N			0555	.84	1.12	178	
GRP 7523	28	0734	0826	0830	N30	E07	.429	8905	28.8	52	-N				1.57			3 3 2
CAPE	28	0828	0838	0830	N30	E07	.429	8905	28.9	10	-N		C	0830	.92	1.00		
ISTA	28	0803	0820		N30	E07	.429	8905	28.9	17	-N							
CATA	28	0640	0820	0645	N29	E08	.418	8905	28.9	100	1B			0645	2.21	2.44	309	
GRP 7523	28	0758	0847	0805	N29	E02	.401	8905	28.5	49	-B				.33			3 2 1
CATA	28	0755	0850	0805	N28	E01	.384	8905	28.4	55	-B			0805	.33	.36	219	
ISTA	28	0800	0825		N30	W01	.416	8905	28.3	25	-N							
CAPE	28	0847	0907	0853	N30	E07	.429	8905	28.9	20	-N		C	0853	.92	1.00		J
GRP 7524	28	0810	0828	0813	N26	E62	.887	8913	2.0	18	-F				.60			1 1 1
CAPE	28	0810	0828	0813	N26	E62	.887	8913	2.0	18	-F		C	0813	.60	1.30		C
GRP 7525	28	0820	0935		N18	E35	.593	8911	31.0	75	-F							1 1 0
ISTA	28	0820	0935		N18	E35	.593	8911	31.0	75	-F							
GRP 7526	28	0849	0904	0853	N11	E11	.212	8907	29.2	15	-N				.77			8 8 6
MONT	28	0846	0900		N12	E09	.191	8907	29.0	14	-B			0850	.77			
ATHN	28	0846	0900	0847	N11	E12	.227	8907	29.3	14	-N	3		0847	.66	.70	1.70	
CAPE	28	0848	0914	0854	N13	E11	.229	8907	29.2	26	-N			0854	.97	1.00		F
SALO	28	0850E	0900D		N12	E12	.234	8907	29.3	10D	-F		V	0850	.33	.40	.13	
CATA	28	0850	0915	0850	N10	E12	.220	8907	29.3	25	-B			0850	1.07	1.11	1.80	302
KHAR	28	0851E	0859		N09	E13	.231	8907	29.3	8D	1F		V	0854			1.80	
ARCE	28	0851	0900	0855	N12	E10	.205	8907	29.1	9	-N		C	0855	.83	.80		D E
ISTA	28	0850	0905		N11	E11	.212	8907	29.2	15	-N							
GRP 7527	28	0932	0950	0937	S30	W79	.993	8899	22.5	18	-F				.37			1 1 1
CAPE	28	0932	0950	0937	S30	W79	.993	8899	22.5	18	-F		C	0937	.37	2.10		T
GRP 7528	28	0955	1018	1000	N12	E09	.191	8907	29.1	23	-F				.87			1 1 1
CAPE	28	0955	1018	1000	N12	E09	.191	8907	29.1	23	-F		C	1000	.87	.90		F
GRP 7529	28	1014	1033	1022	S22	W60	.905	8899	23.9	19	2F				3.64			1 1 1
CAPE	28	1014	1033	1022	S22	W60	.905	8899	23.9	19	2F		C	1022	3.64	8.60		4 4 4
GRP 7530	28	1018	1056	1029	N19	E33	.572	8911	30.9	38	-N				1.35			4 4 4
CATA	28	1015	1110	1030	N15	E32	.542	8911	30.8	55	-B			1030	.79	.97	240	
CAPS	28	1019E	1044		N26	E34	.621	8911	31.0	25D	-F	3		1027	1.00	1.20	158	E
CAPE	28	1019	1101	1027	N18	E32	.554	8911	30.8	42	-N		C	1027	.78	.90		
KHAR	28	1027E	1055D		N16	E31	.532	8911	30.8	28D	1F		V	1035	2.84	3.40	1.50	DH
CATA	28	1045	1105	1045	N16	E36	.599	8911	31.1	20	-N			1045	1.07	1.35	174	
GRP 7531	28	1029	1036	1029	N30	E07	.429	8905	29.0	7	-N				.84			1 1 1
CAPE	28	1029	1036	1029	N30	E07	.429	8905	29.0	7	-N		C	1029	.84	.90		
GRP 7532	28	1041	1052	1044	S22	W62	.918	8899	23.8	11	-N				.69			1 1 1
CAPE	28	1041	1052	1044	S22	W62	.918	8899	23.8	11	-N		C	1044	.69	1.80		
GRP 7533	28	1107	1122	1112	S24	E80	.993	8914	3.5	15	1F				1.10			1 1 1
CAPE	28	1107	1122	1112	S24	E80	.993	8914	3.5	15	1F		C	1112	1.10	7.00		C
GRP 7534	28	1128	1153	1138	N17	E32	.550	8911	30.9	25	1N				2.90			7 7 4
CAPE	28	1123	1206	1136	N17	E32	.550	8911	30.9	43	2N		C	1136	5.17	6.10		V
KHAR	28	1130	1147		N16	E31	.532	8911	30.8	17	1N		V	1139	3.74	4.40	2.40	DH
MONT	28	1130	1210	1142	N18	E35	.593	8911	31.1	40	1B			1142	1.86			H
CATA	28	1135	1155	1135	N14	E32	.539	8911	30.9	20	-B			1135	.64	.77	240	
ONDR	28	1137E	1144		N17	E30	.523	8911	30.7	7D	1N		V	1144			3.30	CJ
HUAN	28	1143E	1146		N15	E31	.529	8911	30.8	3D	-F	1	P	1144	.25	.26		D
ATHN	28	1120	1143	1125	N19	E35	.597	8911	31.1	23	-N		2	1125	.83	1.10	1.90	
GRP 7535	28	1158	1215	1201	N28	E03	.386	8905	28.7	17	-N				1.04			3 3 3
CAPE	28	1157	1217	1201	N29	E02	.401	8905	28.6	20	-N		C	1201	1.80	2.00		F
HUAN	28	1159	1214	1201	N28	E03	.386	8905	28.7	15	-F	2	C	1201	.45	.45		E
ATHN	28	1200E	1213	1200	N27	E05	.376	8905	28.9	13D	-N	2		1200	.86	.90	1.70	
GRP 7536	28	1205	1232	1216	S30	W80	.995	8899	22.5	27	-F				.41			1 1 1
CAPE	28	1205	1232	1216	S30	W80	.995	8899	22.5	27	-F		C	1216	.41			T
GRP 7537	28	1244	1259	1249	N17	E31	.537	8911	30.9	15	1N				2.07			2 2 2
CAPE	28	1243	1302	1249	N18	E31	.541	8911	30.9	19	1N		C	1249	3.83	4.50		
HUAN	28	1244	1255	1248	N15	E30	.515	8911	30.8	11	-F	2	C	1248	.31	.32		D
GRP 7538	28	1258	1311	1301	N13	E08	.189	8907	29.1	13	1F				2.59			1 1 1
CAPE	28	1258	1311	1301	N13	E08	.189	8907	29.1	13	1F		C	1301	2.59	2.60		C
GRP 7539	28	1259	1334	1320	N18	E31	.541	8911	30.9	35	-N				1.00			2 2 2
MCMA	28	1246	1335		N18	E32	.554	8911	30.9	49	-F		C	1309	1.03	1.20		E
CAPE	28	1311	1332	1320	N17	E30	.523	8911	30.8	21	-N		C	1320	.97	1.10		
GRP 7540	28	1300	1421		S22	W70	.960	8899	23.3	81	1N							1 1 0
MONT	28	1300	1421D															

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OBSERVATORY	OBSERVED UT			LOCATION				DURATION	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha
GRP 7541	28	1312	1321	1315	N13	E07	.177 8907	29.1	9	-F		.64				1 1 1
CAPE	28	1312	1321	1315	N13	E07	.177 8907	29.1	9	-F	C	.64	.70			1 1 1
GRP 7542	28	1318	1341	1333	S24	E79	.991 8914	3.5	23	-F		.37				1 1 1
CAPE	28	1318	1341	1333	S24	E79	.991 8914	3.5	23	-F	C	.37	2.10			C
GRP 7543	28	1322	1327	1324	N16	E07	.218 8907	29.1	5	-F		.37				1 1 1
CAPE	28	1322	1327	1324	N16	E07	.218 8907	29.1	5	-F	C	.37	.40			C
GRP 7544	28	1348	1356	1351	N17	E29	.510 8911	30.8	8	-N		.29				2 2 2
CAPE	28	1347	1358	1351	N18	E30	.528 8911	30.8	11	-N		.37	.40			2 2 2
MCMA	28	1349	1354	1351	N16	E28	.491 8911	30.7	5	-N	C	.21	.20			E
GRP 7545	28	1418	1425	1421	N17	E28	.496 8911	30.7	7	-N		.51				3 3 3
CAPE	28	1417	1423D	1421	N18	E29	.515 8911	30.8	6D	-N	C	.92	1.10			3 3 3
HOUS	28	1419	1424	1420	N16	E28	.491 8911	30.7	5	-N	C	.40	.50		200	I
MCMA	28	1419	1425	1421	N16	E28	.491 8911	30.7	6	-N	C	.21	.20			D
GRP 7546	28	1427	1440	1429	S29	W88	1.000 8899	22.0	13	-F		.31				1 1 1
HUAN	28	1427	1440	1429	S29	W88	1.000 8899	22.0	13	-F	1 C	.31				D
GRP 7547	28	1430	1457	1435	N20	E33	.577 8911	31.1	27	-N		.99				1 1 1
ATHN	28	1430E	1457	1435	N20	E33	.577 8911	31.1	27D	-N	2	.99	1.30	1.80		1 1 1
GRP 7548	28	1440	1505	1445	N25	E05	.344 8905	29.0	25	-N		.66				1 1 1
ATHN	28	1440E	1505	1445	N25	E05	.344 8905	29.0	25D	-N	2	.66	.70	1.80		1 1 1
GRP 7549	28	1501	1506	1502	S29	W90	1.001 8899	21.9	5	-N		.23				2 2 2
HOUS	28	1500	1505	1501	S29	W90	1.001 8899	21.9	5	-N	C	.20	.80		200	I
HUAN	28	1501	1507	1502	S29	W90	1.001 8899	21.9	6	-N	1 C	.25				D
GRP 7550	28	1502	1510	1504	N16	E28	.491 8911	30.7	8	-N		.40				1 1 1
HOUS	28	1502	1510U	1504	N16	E28	.491 8911	30.7	8U	-N	C	.40	.50		200	I
GRP 7551	28	1507	1511	1509	N22	W04	.292 8905	28.3	4	-F		.45				1 1 1
HUAN	28	1507	1511	1509	N22	W04	.292 8905	28.3	4	-F	2 C	.45	.45			D
GRP 7552	28	1517	1615		N30	E01	.416 8905	28.7	58	-N		.51				2 2 2
MCMA	28	1517	1615D		N30	E01	.416 8905	28.7	58D	-N	V	.52	.50			EL
HUAN	28	1516	1614		N30	E03	.418 8905	28.9	58	-N	2 C	.50	.50			E
HUAN	28	1516	1614		N29	W02	.401 8905	28.5	58	-N	2 C	.50	.50			
GRP 7553	28	1520	1532	1525	S29	W90	1.001 8899	21.9	12	-N		.20				1 1 1
HOUS	28	1520	1532	1525	S29	W90	1.001 8899	21.9	12	-N	C	.20	.80		200	I
GRP 7554	28	1600	1606	1601	S31	W80	.995 8899	22.7	6	-F		.20				1 1 1
HOUS	28	1600U	1606U	1601	S31	W80	.995 8899	22.7	6U	-F	C	.20	.60		100	I
GRP 7555	28	1619	1635	1623	N30	E00	.415 8905	28.7	16	-N		.52	.50			1 1 1
MCMA	28	1619	1635	1623	N30	E00	.415 8905	28.7	16	-N	V	.52	.50			E
GRP 7556	28	1625	1640		S32	W80	.995 8899	22.7	15	3B		.83				1 1 1
SALO	28	1625E	1640D		S32	W80	.995 8899	22.7	15D	3B	V	.83	5.20	.16		1 1 1
GRP 7557	28	1652	1656	1653	N27	W09	.394 8905	28.0	4	-F		.25				1 1 1
HUAN	28	1652	1656	1653	N27	W09	.394 8905	28.0	4	-F	2 C	.25	.25			D
GRP 7558	28	1702	1706	1704	N15	E03	.173 8907	28.9	4	-N		.15				1 1 1
HALE	28	1702	1706	1704	N15	E03	.173 8907	28.9	4	-N	3 C	.15	.20			1 1 1
GRP 7559	28	1743	1800	1747	S29	W90	1.001 8899	22.0	17	-N		.20				1 1 1
HOUS	28	1743	1800	1747	S29	W90	1.001 8899	22.0	17	-N	C	.20	.80		200	I
GRP 7560	28	1748	1752	1749	N18	E29	.515 8911	30.9	4	-N		.15				1 1 1
HALE	28	1748	1752	1749	N18	E29	.515 8911	30.9	4	-N	3 C	.15	.20			1 1 1
GRP 7561	28	1812	1843	1817	N17	E21	.400 8911	30.3	31	-F		.29				3 3 3
MCMA	28	1811	1845	1815	N18	E22	.421 8911	30.4	34	-F	C	.31	.30			D
HUAN	28	1812	1834	1815	N17	E22	.414 8911	30.4	22	-F	2 C	.25	.25			D
HALE	28	1814	1851	1822	N17	E20	.386 8911	30.3	37	-N	2 C	.31	.30			F
GRP 7561	28	1835	1844	1836	N16	E26	.463 8911	30.7	9	-N		.31				2 2 2
HOUS	28	1834	1847	1836	N15	E25	.444 8911	30.6	13	-N	C	.30	.40		200	H
HUAN	28	1835	1840	1836	N16	E27	.477 8911	30.8	5	-F	2 C	.31	.31			D
GRP 7562	28	1845	1930	1905	S33	W90	1.001 8899	22.0	45	-F		.50				1 1 1
LOCK	28	1845E	1930	1905	S33	W90	1.001 8899	22.0	45D	-F	C	.50	2.00		10	1 1 1
GRP 7563	28	1849	1912	1855	N12	E03	.125 8907	29.0	23	1N		2.92				6 6 6
LOCK	28	1847	1932	1855	N12	E02	.119 8907	28.9	45	1N	C	3.10	3.10		20	H
HUAN	28	1849	1904	1854	N11	E02	.102 8907	28.9	15	1N	2 C	2.73	2.73			H
MCMA	28	1849	1910	1854	N13	E03	.141 8907	29.0	21	-B	V	1.55	1.50			HV
HOUS	28	1851	1904	1853	N11	E03	.109 8907	29.0	13	1N	C	3.80	3.80		200	H
HALE	28	1851	1912	1857	N11	E03	.109 8907	29.0	21	1B	2 C	2.68	2.70			H
SACP	28	1854E	1857D	1854U	N12	E02	.119 8907	28.9	3D	1N	P	3.03	2.98			
GRP 7564	28	1935	2045	1945	S33	W90	1.001 8899	22.1	70	1F		.70				1 1 1
LOCK	28	1935	2045	1945	S33	W90	1.001 8899	22.1	70	1F	C	.70	2.80		10	1 1 1
GRP 7564	28	1935	2045	2017	S33	W90	1.001 8899	22.1	70	1F		.70				1 1 1
LOCK	28	1935	2045	2017	S33	W90	1.001 8899	22.1	70	1F	C	.70	2.80		10	1 1 1
GRP 7565	28	1953	1959	1955	N17	E25	.455 8911	30.7	6	-N		.41				1 1 1
HALE	28	1953	1959	1955	N17	E25	.455 8911	30.7	6	-N	2 C	.41	.50			1 1 1

SOLAR FLARES

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OBSERV- ATORY	OBSERVED UT			MAX. PHASE	LOCATION				DURA- TION 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.		MAX. WIDTH H _g
1967 JULY																	
GRP 7566	28	2040	2045	2044	N26	W09	.379	8905	28.2	5	-N			.79			5 5 5
LOCK	28	2030	2047	2039	N24	W12	.372	8905	28.0	17	-N	C	2039	1.00	1.10		20
MCMA	28	2044	2145	2050	N30	W05	.422	8905	28.5	61	-N	V	2050	1.13	1.10		EHK
HUAN	28	2038	2044	2040	N24	W11	.364	8905	28.0	6	-N	2 C	2040	.70	.70		H
HOUS	28	2038	2044	2039	N25	W11	.378	8905	28.0	6	-N	C		.50	.60		200
HALE	28	2041	2048	2042	N25	W11	.378	8905	28.0	7	-N	2 C	2042	.62	.70		H
MCMA	28	2038	2044	2040	N27	W13	.420	8905	27.9	6	-N	V	2040	.52	.50		EHK
HUAN	28	2044	2112	2048	N28	W05	.391	8905	28.5	28	-N	2 C	2048	.55	.55		E
LOCK	28	2045	2105	2049	N27	W04	.373	8905	28.6	20	-F	C	2049	.70	.80		10
GRP 7567	28	2115	2132	2130	S33	W90	1.001	8899	22.1	17	-F			.50			1 1 1
LOCK	28	2115	2132D	2130	S33	W90	1.001	8899	22.1	17D	-F	C	2130	.50	2.00		10
GRP 7568	28	2118	2146	2122	N29	W03	.402	8905	28.7	28	-N			.85			2 2 2
HUAN	28	2116	2137	2119	N29	W02	.401	8905	28.7	21	-N	2 C	2119	.45	.45		E
HALE	28	2119	2155	2125	N29	W04	.404	8905	28.6	36	-N	1 C	2125	1.24	1.30		F
GRP 7569	28	2139	2146	2141	N24	E11	.364	8907	29.7	7	-F			.25			1 1 1
HUAN	28	2139	2146	2141	N24	E11	.364	8907	29.7	7	-F	2 C	2141	.25	.25		D
GRP 7570	28	2231	2255	2234	N28	W04	.388	8905	28.6	24	-N			.86			4 4 4
HUAN	28	2228	2230D		N29	W02	.401	8905	28.8	2D	-F	1 P	2229	.31	.31		E
LOCK	28	2229	2255	2233	N29	W04	.404	8905	28.6	26	-F	C	2233	1.60	1.80		30
HOUS	28	2231	2249	2234	N27	W04	.373	8905	28.6	18	-N	C		.70	.80		200
HALE	28	2234	2300	2235	N29	W03	.402	8905	28.7	26	-B	1 C	2235	.83	.90		F
HUAN	28	2228	2230D		N28	W06	.395	8905	28.5	2D	-F	1 P					
LOCK	28	2231	2247	2235	N28	W04	.388	8905	28.6	16	-F	C	2235	.60	.60		10
GRP 7571	28	2236	2249	2239	N12	E03	.125	8907	29.2	13	-N			.31			1 1 1
HALE	28	2236	2249	2239	N12	E03	.125	8907	29.2	13	-N	2 C	2239	.31	.30		
GRP 7572	28	2237	2247	2239	N13	E43	.683	8913	1.2	10	-B			.51			2 2 2
LOCK	28	2235	2247	2238	N12	E41	.656	8913	1.0	12	-N	C	2238	.50	.60		20
HALE	28	2238	2246	2239	N14	E44	.696	8913	1.2	8	-B	2 C	2239	.52	.70		
GRP 7573	28	2300	2310	2310	N15	E26	.458	8911	30.9	10	-F			.40			1 1 1
LOCK	28	2300	2310	2310	N15	E26	.458	8911	30.9	10	-F	C	2310	.40	.40		10
GRP 7574	28	2331	2345	2334	S31	W90	1.001	8899	22.2	14	-N			.40			2 2 2
LOCK	28	2330	2347	2334	S33	W90	1.001	8899	22.2	17	-N	C	2334	.50	2.00		20
HOUS	28	2331	2342	2333	S28	W90	1.001	8899	22.2	11	-N	C		.30	1.20		200
GRP 7575	29	0002	0014	0006	N19	E27	.493	8911	31.0	12	-F			.66			2 2 2
SACP	29	0002	0013U	0005	N19	E27	.493	8911	31.0	11U	-F	C		.71	.72		
LOCK	29	0002	0014	0006	N18	E27	.487	8911	31.0	12	-F	C	0006	.60	.70		10
GRP 7576	29	0011	0026	0015	N26	W14	.414	8905	28.0	15	-N			1.36			4 4 4
HOUS	29	0010	0020	0014	N27	W12	.412	8905	28.1	10	-N	C		1.30	1.50		200
LOCK	29	0010	0035	0014	N27	W16	.443	8905	27.8	25	-B	C	0014	1.50	1.70		30
SACP	29	0011	0023E	0014	N25	W14	.401	8905	28.0	12D	-N	C		1.40	1.41		
HALE	29	0013	0025	0017	N24	W13	.379	8905	28.0	12	-N	1 C	0017	1.24	1.30		
HOUS	29	0021	0039	0026	N27	W12	.412	8905	28.1	18	-N	C		1.30	1.50		200
GRP 7577	29	0045	0059	0049	S33	W90	1.001	8899	22.3	14	1F			.90			1 1 1
LOCK	29	0045	0059	0049	S33	W90	1.001	8899	22.3	14	1F	C	0049	.90	3.60		10
GRP 7578	29	0103	0110	0110	N18	W45	.715	8902	25.7	7	2F			4.13			1 1 1
SIBE	29	0103E	0110D	0110	N18	W45	.715	8902	25.7	7D	2F		0110	4.13	6.00		55
GRP 7579	29	0115	0158	0123	N18	E22	.420	8911	30.7	43	-N			1.42			2 2 2
LOCK	29	0113	0155	0121	N19	E20	.402	8911	30.6	42	-N	C	0121	1.60	1.80		20
HALE	29	0116	0200	0124	N17	E23	.427	8911	30.8	44	-N	1 C	0124	1.24	1.40		
GRP 7580	29	0207	0302	0217	N17	E25	.454	8911	31.0	55	-N			1.89			3 3 3
HALE	29	0202	0248	0221	N17	E26	.468	8911	31.0	46	-N	1 C	0221	1.44	1.60		
LOCK	29	0205	0215D	0215U	N17	E24	.440	8911	30.9	10D	-N	C	0215	1.00	1.10		20
KODA	29	0215	0316	0215	N18	E25	.460	8911	31.0	61	1N	V	0217	3.22	3.60	2.00	E
GRP 7581	29	0222	0228	0224	N24	W13	.379	8905	28.1	6	-F			.31			1 1 1
HALE	29	0222	0228	0224	N24	W13	.379	8905	28.1	6	-F	2 C	0224	.31	.30		
GRP 7582	29	0230	0237	0233	N24	W13	.379	8905	28.1	7	-F			.41			1 1 1
HALE	29	0230	0237	0233	N24	W13	.379	8905	28.1	7	-F	2 C	0233	.41	.40		
GRP 7583	29	0242	0258		N17	E08	.240	8907	29.7	16	1B			3.30			1 1 1
MITK	29	0242E	0258		N17	E08	.240	8907	29.7	16D	1B	C	0242	3.30	3.50		FH
GRP 7584	29	0247	0256	0253	N29	W84	.990	8897	22.8	9	-F			.21			1 1 1
HALE	29	0247	0256	0253	N29	W84	.990	8897	22.8	9	-F	2 C	0253	.21			G
GRP 7585	29	0249	0356		N16	E19	.364	8911	30.5	67	2N			8.10			2 2 2
HALE	29	0242	0326	0246	N16	E19	.364	8911	30.5	44	1B	2 C	0246	3.30	3.60		
TACH	29	0256	0400		N16	E20	.378	8911	30.6	64	3F	V	0256	12.89	14.30	1.90	63
HALE	29	0344	0352	0344	N16	E18	.351	8911	30.5	8	-B	2 C	0344	.36	.40		E
GRP 7586	29	0326	0338	0328	S20	E79	.989	8914	4.1	12	-N			.26			1 1 1
HALE	29	0326	0338	0328	S20	E79	.989	8914	4.1	12	-N	2 C	0328	.26			
GRP 7587	29	0401	0426	0403	N28	W06	.393	8905	28.7	25	-F			.31			1 1 1
HALE	29	0401	0426	0403	N28	W06	.393	8905	28.7	25	-F	3 C	0403	.31	.30		

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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.	MAX. WIDTH Ha		MAX. INT. "
GRP 7612	1967 JULY 29	1331	1406	1337	N18	E13	.306	8911	30.5	35	-F			.25				1 1 1
HUAN	29	1331	1406	1337	N18	E13	.306	8911	30.5	35	-F	2 C	1337	.25	.25			D
GRP 7613	29	1342	1401	1348	N23	W20	.439	8905	28.1	19	-F			.31				1 1 1
HUAN	29	1342	1401	1348	N23	W20	.439	8905	28.1	19	-F	2 C	1348	.31	.31			D
GRP 7612	29	1344	1354	1346	N17	E18	.359	8911	30.9	10	-F			.25				1 1 1
HUAN	29	1344	1354	1346	N17	E18	.359	8911	30.9	10	-F	2 C	1346	.25	.25			D
GRP 7614	29	1443	1505	1447	S16	W52	.827	8904	25.7	22	-N			.66				1 1 1
ATHN	29	1443	1505	1447	S16	W52	.827	8904	25.7	22	-N	2	1447	.66	1.10	1.90		
GRP 7615	29	1454	1551	1508	N25	W14	.401	8905	28.6	57	1N			2.29				5 5 5
LOCA	29	1452	1514D	1507	N25	W11	.377	8905	28.8	22D	1N	S	1507	2.10	2.30			
SANM	29	1454	1550	1510	N26	W12	.398	8905	28.7	56	-N	C	1510	.98	1.10			
HUAN	29	1453	1553	1508	N25	W13	.392	8905	28.6	60	1N	2 C	1508	1.80	1.84			E
MONT	29	1458	1521D		N26	W17	.440	8905	28.3	23D	2B		1505	5.16				E
CAPS	29	1500E	1550D		N27	W14	.427	8905	28.6	50D	-B	3	1510	1.40	1.50	195		FK
SANM	29	1452	1525	1507	N23	W13	.366	8905	28.6	33	-N	C	1507	.80	.85			
SANM	29	1516	1540	1517	N24	W20	.449	8905	28.1	24	-F	C	1517	.67	.70			
GRP 7615	29	1500	1559	1525	N25	W18	.439	8905	28.3	59	1N			1.73				5 5 4
HUAN	29	1453	1553	1531	N24	W20	.449	8905	28.1	60	1N	2 C						
SACP	29	1455E	1529D	1522U	N25	W16	.419	8905	28.4	34D	1N	C		2.53	2.55			
LOCK	29	1505E	1600	1525	N26	W16	.431	8905	28.4	55D	1N	C	1525	2.00	2.20	20		
SANM	29	1505	1619D	1520	N27	W19	.471	8905	28.2	74D	-B	C	1520	.98	1.10			F
HOU5	29	1526E	1544	1529	N25	W18	.439	8905	28.3	18D	-N	C		1.40	1.60	200		E
GRP 7616	29	1525	1605	1535	S29	W90	1.001	8899	22.9	40	1F			.60				1 1 1
LOCK	29	1525	1605	1535	S29	W90	1.001	8899	22.9	40	1F	C		.60	2.40	10		H
GRP 7616	29	1525	1605	1553	S29	W90	1.001	8899	22.9	40	1F			.60				1 1 1
LOCK	29	1525	1605	1553	S29	W90	1.001	8899	22.9	40	1F	C		.60	2.40	10		H
GRP 7617	29	1547	1614	1602	N13	E01	.131	8907	29.7	27	-N			.53				2 2 2
LOCK	29	1547	1614	1602	N13	W04	.147	8907	29.4	27	-F	C	1602	.40	.40	10		
SALO	29	1600E	1610D		N12	E06	.152	8907	30.1	10D	-N	P	1600	.66	.70	.14		
GRP 7618	29	1600	1610		S22	E60	.905	8914	3.2	10	-F			.58				1 1 1
SALO	29	1600E	1610D		S22	E60	.905	8914	3.2	10D	-F	P	1600	.58	1.30	.11		
GRP 7619	29	1608	1655	1642	S29	W90	1.001	8899	22.9	47	1N			1.10				1 1 1
LOCK	29	1608	1655	1642	S29	W90	1.001	8899	22.9	47	1N	C	1642	1.10	4.40	20		L
GRP 7620	29	1609	1631	1613	N28	W08	.402	8905	29.1	22	-N			1.04				4 4 4
HALE	29	1608	1645	1616	N28	W06	.393	8905	29.2	37	-F	2 C	1616	1.03	1.10			
SANM	29	1609	1619D	1612	N29	W07	.413	8905	29.1	10D	-F	P	1612	.32	.35			
LOCK	29	1609	1622	1612	N30	W06	.424	8905	29.2	13	-F	C	1612	1.00	1.10	10		
SALO	29	1610E	1625D		N27	W04	.371	8905	29.4	15D	1B	P	1620	1.32	1.40	.14		
SANM	29	1516	1619D	1535	N22	W23	.464	8905	27.9	63D	-B	C	1535	.80	.90			
GRP 7621	29	1610	1618	1612	N29	W90	.999	8897	22.9	8	-F			.25				1 1 1
HUAN	29	1610	1618	1612	N29	W90	.999	8897	22.9	8	-F	2 C	1612	.25				D
GRP 7622	29	1629	1653	1634	N29	W90	.999	8897	22.9	24	-N			.50				1 1 1
HUAN	29	1629	1653	1634	N29	W90	.999	8897	22.9	24	-N	1 C	1634	.50				
GRP 7623	29	1640	1704	1648	N26	W23	.500	8905	28.0	24	-N			.71				2 2 2
LOCK	29	1639	1700	1645	N26	W23	.500	8905	28.0	21	-F	C	1645	1.00	1.20	10		
HALE	29	1640	1708	1651	N26	W23	.500	8905	28.0	28	-N	3 C	1651	.41	.50			
GRP 7624	29	1645	1652	1647	N12	W06	.152	8907	29.2	7	-N			.21				2 2 2
LOCK	29	1644	1649	1646	N12	W06	.152	8907	29.2	5	-F	C	1646	.20	.20	10		
HALE	29	1645	1654	1648	N12	W06	.152	8907	29.2	9	-N	1 C	1648	.21	.20			
GRP 7625	29	1701	1715	1707	N16	E11	.259	8911	30.5	14	-N			.36				2 2 2
LOCK	29	1659	1709	1702	N16	E12	.271	8911	30.6	10	-F	1 C	1702	.40	.40	10		
HALE	29	1702	1721	1712	N16	E10	.248	8911	30.5	19	-N	1 C	1712	.31	.30			
GRP 7626	29	1710	1807	1740	S29	W90	1.001	8899	23.0	57	-N			.50				1 1 1
LOCK	29	1710	1807	1740	S29	W90	1.001	8899	23.0	57	-N	C		.50	2.00	20		
GRP 7626	29	1710	1807	1753	S29	W90	1.001	8899	23.0	57	-N			.50				1 1 1
LOCK	29	1710	1807	1753	S29	W90	1.001	8899	23.0	57	-N	C		.50	2.00	20		
GRP 7627	29	1726	1748	1730	N15	E11	.248	8911	30.6	22	-N			.61				4 4 4
LOCK	29	1724	1750	1730	N16	E12	.271	8911	30.6	26	-F	C	1730	.80	.80	10		
HOU5	29	1725	1744	1728	N15	E12	.261	8911	30.6	19	-N	C		.70	.70	200		E
HUAN	29	1726	1736	1729	N15	E11	.248	8911	30.6	10	-F	2 C	1729	.52	.52			
HALE	29	1727	1800	1733	N15	E10	.236	8911	30.5	33	-N	1 C	1733	.41	.40			
GRP 7628	29	1736	1811	1742	N15	W01	.165	8907	29.7	35	-N			1.82				4 4 4
LOCK	29	1735	1812	1742	N14	W01	.148	8907	29.7	37	-N	C	1742	2.00	2.00	20		
HUAN	29	1736	1806	1741	N15	E00	.164	8907	29.7	30	1N	2 C	1741	2.01	2.00			
HALE	29	1738	1823	1744	N15	W02	.168	8907	29.6	45	-B	2 C	1744	1.55	1.60			
HOU5	29	1739E	1801	1740	N16	W02	.185	8907	29.6	22D	-N	C		1.70	1.70	200		E
GRP 7629	29	1744	1818	1758	N29	W06	.409	8905	29.3	34	-N			.68				4 4 4
HALE	29	1730	1835	1800	N32	W02	.447	8905	29.6	65	-N	2 C	1800	.72	.80			
LOCK	29	1735	1815	1755	N29	W07	.413	8905	29.2	40	-F	C	1755	1.00	1.10	10		
HOU5	29	1749	1806	1755	N30	W03	.417	8905	29.5	17	-N	C		.70	.80	200		
HUAN	29	1754	1814	1800	N29	W02	.399	8905	29.6	20	-F	2 C	1800	.31	.31			D
HALE	29	1738	1746	1743	N27	W22	.500	8905	28.1	8	-N	2 C	1743	.21	.20			
GRP 7630	29	1750	1758	1753	N29	W90	.999	8897	23.0	8	-N			.41				1 1 1
HUAN	29	1750	175															

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE COND. TYPE	OBS. TIME UT	MEASUREMENTS			REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	OMP DAY				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	
GRP 7631	29	1815	1845	1830	S29	W90	1.001	8899	23.0	30	1F		.90			1 1 1
LOCK	29	1815	1845	1830	S29	W90	1.001	8899	23.0	30	1F	C 1830	.90	3.60		10 L
GRP 7632	29	1820	1836	1827	N25	W90	.999	8897	23.0	16	-F		.41			1 1 1
HUAN	29	1820	1836	1827	N25	W90	.999	8897	23.0	16	-F	1 C 1827	.41			
GRP 7633	29	1823	1837	1832	N15	E10	.236	8911	30.5	14	-F		.52			1 1 1
HALE	29	1823	1837	1832	N15	E10	.236	8911	30.5	14	-F	1 C 1832	.52	.50		
GRP 7634	29	1835	1851	1840	N26	W25	.522	8905	27.9	16	-N		.66			2 2 2
LOCK	29	1830	1900	1839	N26	W27	.543	8905	27.7	30	-F	C 1839	.90	1.10		10
HALE	29	1839	1841	1840	N26	W23	.500	8905	28.1	2	-N	2 C 1840	.41	.50		E
GRP 7635	29	1913	1926	1916	N31	W04	.434	8905	29.5	13	-F		.40			1 1 1
LOCK	29	1913	1926	1916	N31	W04	.434	8905	29.5	13	-F	C 1916	.40	.40		10
GRP 7636	29	1915	1928	1925	N16	E10	.248	8911	30.6	13	-F		.56			2 2 2
HALE	29	1914	1933	1925	N15	E10	.236	8911	30.6	19	-F	1 C 1925	.62	.60		
HUAN	29	1915	1923		N16	E10	.248	8911	30.6	8	-F	1 C 1920	.50	.50		E
GRP 7637	29	1935	2020	1950	N15	E09	.224	8911	30.5	45	1N		2.16			5 5 5
LOCK	29	1933	2048	1950	N16	E09	.237	8911	30.5	75	1N	C 1950	3.00	3.00		20
HUAN	29	1935	2003		N15	E10	.236	8911	30.6	28	-B	1 C 1948	1.50	1.50		
HALE	29	1937	2025	1954	N15	E10	.236	8911	30.6	48	-B	1 C 1954	1.55	1.60		200 EJ
HOU5	29	1938U	2010U	1947	N15	E09	.224	8911	30.5	32U	1N	C	2.20	2.20		
SACP	29	1941E	2015D	1947	N15	E09	.224	8911	30.5	34D	1N	C	2.53	2.47		
GRP 7638	29	1939	2022	1948	N23	W21	.450	8905	28.2	43	1B		2.52			5 5 5
LOCK	29	1930	2025	1947	N20	W18	.386	8905	28.5	55	1B	C 1947	2.30	2.50		30
HUAN	29	1931E	2017		N24	W22	.471	8905	28.2	46D	-B	1 P 1949	1.60	1.63		E
HOU5	29	1943	2010U	1945	N24	W23	.482	8905	28.1	27U	1N	C	3.40	3.90		200 E
SACP	29	1943	2014E	1947	N23	W22	.461	8905	28.2	31D	1N	C	3.23	3.28		
HALE	29	1946	2024	1951	N23	W22	.461	8905	28.2	38	1B	1 C 1951	2.06	2.30		E
HALE	29	2017	2038	2023	N25	W14	.401	8905	28.8	21	-N	1 C 2023	.52	.60		
GRP 7639	29	1942	2005	1951	S30	W90	1.001	8899	23.1	23	-F		.20			1 1 1
LOCK	29	1942	2005	1951	S30	W90	1.001	8899	23.1	23	-F	C 1951	.20	.80		
GRP 7640	29	1946	1957	1950	S35	W32	.772	8903	27.4	11	-F		.30			1 1 1
LOCK	29	1946	1957	1950	S35	W32	.772	8903	27.4	11	-F	C 1950	.30	.50		10
GRP 7641	29	1955	2003	1958	N13	E04	.147	8907	30.1	8	-F		.21			1 1 1
HALE	29	1955	2003	1958	N13	E04	.147	8907	30.1	8	-F	1 C 1958	.21	.20		
GRP 7642	29	2145	2218	2148	N27	W19	.471	8905	28.5	33	-F		.71			2 2 2
LOCK	29	2143	2157	2147	N28	W18	.473	8905	28.6	14	-F	C 2147	1.00	1.10		10
HALE	29	2146	2233	2149	N29	W17	.476	8905	28.6	47	-F	1 C 2149	.41	.50		
HALE	29	2147	2238	2204	N23	W23	.473	8905	28.2	51	-F	1 C 2204	.52	.60		
HALE	29	2151	2219	2200	N27	W20	.480	8905	28.4	28	-F	1 C 2200	.26	.30		
GRP 7643	29	2153	2200	2155	N14	E03	.156	8907	30.1	7	-F		.15			1 1 1
HALE	29	2153	2200	2155	N14	E03	.156	8907	30.1	7	-F	1 C 2155	.15	.20		
GRP 7642	29	2213	2226	2216	N24	W24	.493	8905	28.1	13	-N		.51			2 2 2
LOCK	29	2213	2223	2216	N24	W24	.493	8905	28.1	10	-F	C 2216	.70	.80		10
HUAN	29	2218E	2228		N23	W24	.485	8905	28.1	10D	-N	1 P 2219	.31	.32		D
GRP 7644	29	2221	2239	2230	N15	E04	.178	8907	30.2	18	-N		.26			1 1 1
HALE	29	2221	2239D	2230	N15	E04	.178	8907	30.2	18D	-N	1 P 2230	.26	.30		
GRP 7645	29	2239	2318	2246	N27	W26	.541	8905	28.0	39	-N		1.36			2 2 2
LOCK	29	2239	2318	2246	N27	W27	.552	8905	27.9	39	-N	C 2246	1.20	1.40		20
SACP	29	2244E	2249D	2245U	N26	W25	.522	8905	28.1	5D	-N	C	1.52	1.59		
GRP 7646	29	2250	2327	2314	N27	W18	.461	8905	28.6	37	-N		.62			2 2 2
LOCK	29	2250	2325	2305	N28	W09	.407	8905	29.3	35	-F	C 2305	.30	.30		10
HALE	29	2322E	2328D	2322	N26	W27	.543	8905	27.9	6D	-N	1 P 2322	.93	1.10		
GRP 7647	29	2303	2325	2308	S28	W77	.988	8899	24.2	22	-F		.50			1 1 1
LOCK	29	2303	2325	2308	S28	W77	.988	8899	24.2	22	-F	C 2308	.50	1.60		10
GRP 7648	29	2340	0040	0011	N15	W01	.165	8907	29.9	60	-F		.80			1 1 1
LOCK	29	2340	0040	0011	N15	W01	.165	8907	29.9	60	-F	C 0011	.80	.80		10
GRP 7649	29	2350	0020	2353	S20	W86	.999	8899	23.5	30	-N		.45			2 2 2
LOCK	29	2347	0030	2351	S20	W82	.995	8899	23.8	43	-F	C 2351	.60	2.00		10
HOU5	29	2352	0010	2354	S20	W90	1.001	8899	23.2	18	-N	C	.30	1.20		200
GRP 7650	30	0022	0039	0025	N24	W25	.504	8905	28.1	17	-N		.55			2 2 2
HOU5	30	0022	0028	0023	N26	W23	.500	8905	28.3	6	-N	C	.30	.30		200
LOCK	30	0022	0050	0027	N22	W26	.500	8905	28.1	28	-F	C 0027	.80	1.00		10
GRP 7651	30	0023	0036	0027	S22	W70	.960	8901	24.8	13	-F		.70			1 1 1
LOCK	30	0023	0036	0027	S22	W70	.960	8901	24.8	13	-F	C 0027	.70	1.90		10
GRP 7652	30	0151	0200	0156	N24	W18	.426	8905	28.7	9	-N		.67			1 1 1
HALE	30	0151	0200D	0156	N24	W18	.426	8905	28.7	9D	-N	1 D 0156	.67	.70		
GRP 7653	30	0245	0309	0251	N27	W27	.551	8905	28.1	24	1N		1.25			3 2 2
HALE	30	0245	0330	0250	N27	W26	.540	8905	28.2	45	-N	2 C 0250	.57	.70		
KODA	30	0249E	0253	0252	N27	W28	.562	8905	28.0	4D	1N	P 0249	1.93	2.40	1.60	EL
TACH	30	0303	0305		N26	W26	.532	8905	28.2	2	-F	V 0303	1.03	1.20	1.30	54
GRP 7654	30	0250	0305	0250	N13	W02	.133	8907	30.0	15	-N		2.45			3 3 2
HALE	30	0245E	0301	0247	N13	W02	.133	8907	30.0	16D	-N	1 P 0247	.52	.50		
KODA	30	0248E	0254	0250	N12	W02	.116	8907	30.0	6D	-F	P 0249	1.29	1.30	1.52	EL
TACH	30	0258	0320		N14	W02	.150	8907	30.0	22	1N	V 0258	3.61	3.60	2.00	66

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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	
1967 JULY																
GRP 7672	30	1355	1401	1356	S25 E13	.547	8912	31.6	6	-N		.45				2 2 2
HOUS	30	1354	1400	1355	S24 E12	.528	8912	31.5	6	-N	C	.40	.50		200	H
HUAN	30	1355	1401	1356	S25 E13	.547	8912	31.6	6	-N	2 C	.50	.52			D
GRP 7673	30	1411	1446	1417	N14 W09	.211	8907	29.9	35	1B		2.91				7 7 6
HUAN	30	1409	1447	1418	N15 W08	.212	8907	30.0	38	1B	2 C	1418	3.76	3.75		
LOCA	30	1410	1432D	1418	N14 W08	.199	8907	30.0	22D	-B	V	1418	1.68	1.70		
CAPS	30	1411	1443		N15 W09	.223	8907	29.9	32	1B	2 C	1418	2.00	2.00		220
HOUS	30	1411	1500	1417	N14 W08	.199	8907	30.0	49	1B	C		2.50	2.50		300
ATHN	30	1412	1440D	1416	N16 W10	.247	8907	29.8	28D	1B	2 C	1416	3.63	3.70	2.00	
SACP	30	1414	1446U	1417	N14 W10	.224	8907	29.8	32U	1B	C		3.87	3.79		
ONDR	30	1421E	1438		N10 W11	.204	8907	29.8	17D	1F	V	1424			1.60	CJ
GRP 7674	30	1415	1436	1419	N20 E06	.268	8911	31.0	21	-F		.31				1 1 1
HUAN	30	1415	1436	1419	N20 E06	.268	8911	31.0	21	-F	2 C	1419	.31	.31		D
GRP 7675	30	1504	1529	1507	N23 W32	.579	8905	28.2	25	-N		.79				6 6 6
HOUS	30	1451	1532	1507	N22 W31	.561	8905	28.3	41	-N	C		.60	.70		200
SACP	30	1502E	1524U	1508	N22 W33	.586	8905	28.2	22U	-N	C		1.02	1.09		
CAPS	30	1504	1524		N24 W31	.574	8905	28.3	20	-N	2 C	1508	1.00	1.20		173
ATHN	30	1505E	1524	1505	N23 W33	.591	8905	28.2	19D	-N	2 C	1505	.66	.90	1.90	
LOCK	30	1505E	1535	1508U	N23 W32	.579	8905	28.2	30D	-N	C	1508	.90	1.10		20
HUAN	30	1506	1532	1509	N24 W33	.597	8905	28.2	26	-N	2 C	1509	.57	.61		D
GRP 7676	30	1520	1548	1533	S42 E10	.749	8912	31.4	28	-N		.40				1 1 1
HOUS	30	1520	1548	1533	S42 E10	.749	8912	31.4	28	-N	C		.40	.60		200
GRP 7677	30	1545	1642	1601	N14 W01	.147	8911	30.6	57	1B		2.25				2 2 2
HOUS	30	1545	1710E	1601	N14 E02	.150	8911	30.8	85D	-B	C	1.40	1.40		300	
WEND	30	1603E	1614		N13 W04	.146	8911	30.4	11D	1N	V	3.09				
GRP 7678	30	1555	1619	1602	N13 W07	.175	8907	30.1	24	-B		2.28				6 6 4
LOCK	30	1554	1618	1601	N13 W06	.164	8907	30.2	24	-B	C	1601	1.30	1.30		30
HUAN	30	1555	1611	1601	N13 W07	.175	8907	30.1	16	1B	2 C	1601	2.78	2.78		
SACP	30	1555	1617U	1601	N13 W06	.164	8907	30.2	22U	1B	C		3.05	2.99		
ONDR	30	1602E	1610		N11 W08	.166	8907	30.1	8D	-N	V	1604			1.80	CJ
ATHN	30	1602E	1615	1602	N15 W09	.223	8907	30.0	13D	-B	2 C	1602	1.98	2.00	2.00	
HALE	30	1604E	1641	1604E	N12 W06	.151	8907	30.2	37D	-B	1 P	1604	.57	.60		
GRP 7679	30	1617	1657	1636	N26 W36	.642	8905	28.0	40	1N		2.59				6 6 6
SACP	30	1611	1654U	1634	N26 W36	.642	8905	28.0	43U	1N	C		2.24	2.50		
HUAN	30	1612	1654	1636	N28 W37	.664	8905	27.9	42	1N	2 C	1636	2.27	2.56		
LOCK	30	1612	1700	1636	N25 W37	.648	8905	27.9	48	-N	C	1636	1.30	1.70		20
HALE	30	1615	1710	1639	N26 W35	.631	8905	28.1	55	-B	2 C	1639	.93	1.20		
ATHN	30	1625	1651	1635	N28 W36	.654	8905	28.0	26	1N	2 C	1635	3.63	4.70	1.90	
WEND	30	1626	1651		N25 W35	.626	8905	28.1	25	1N	V		5.16			
GRP 7680	30	1722	1748	1727	N26 W31	.587	8905	28.4	26	-N		1.05				6 6 6
LOCK	30	1717	1750	1724	N24 W35	.620	8905	28.1	33	-N	C	1724	.80	1.00		20
HOUS	30	1720	1750	1730	N39 W12	.575	8905	29.8	30	-N	C		.90	1.10		200
SACP	30	1723E	1744	1724	N23 W34	.603	8905	28.2	21D	-N	C		.71	.77		
HUAN	30	1723	1747	1726	N24 W35	.620	8905	28.1	24	-F	2 C	1726	.41	.45		E
HALE	30	1723	1753	1732	N23 W33	.591	8905	28.2	30	-N	3 C	1732	.41	.50		
WEND	30	1723	1744		N22 W35	.610	8905	28.1	21	1N	V		3.09			
GRP 7681	30	1802	1820	1807	N13 W10	.213	8907	30.0	18	-F		.77				4 4 4
HOUS	30	1802	1815	1805	N13 W07	.175	8907	30.2	13	-N	C		.60	.60		200
LOCK	30	1746	1830	1806	N14 W09	.211	8907	30.1	44	-N	C	1806	1.00	1.00		20
HALE	30	1801	1828	1811	N13 W07	.175	8907	30.2	27	-N	2 C	1811	.26	.30		K
HUAN	30	1804	1813	1806	N13 W08	.187	8907	30.2	9	-F	2 C	1806	.75	.75		E
HOUS	30	1743	1806	1758	N14 W11	.237	8907	29.9	23	-F	C		.90	.90		100
HALE	30	1802	1820	1806	N14 W15	.292	8907	29.6	18	-F	2 C	1806	.41	.40		
HOUS	30	1743	1806	1803	N14 W11	.237	8907	29.9	23	-F						
GRP 7682	30	1836	1858	1843	N17 E64	.895	8915	4.6	22	-N		.24				3 3 3
HOUS	30	1835	1856	1843U	N16 E65	.902	8915	4.6	21	-N	C		.20	.40		200
LOCK	30	1836	1848	1839	N18 E63	.888	8915	4.5	12	-F	C	1839	.30	.60		10
HALE	30	1838	1911	1846	N17 E63	.888	8915	4.5	33	-N	2 C	1846	.21	.50		
GRP 7683	30	1855	1922	1859	N13 W08	.187	8907	30.2	27	-N		.69				4 4 4
LOCK	30	1855	1920	1900	N13 W08	.187	8907	30.2	25	-N	C	1900	1.00	1.00		20
HUAN	30	1855	1924	1858	N13 W08	.187	8907	30.2	29	-N	2 C	1858	.75	.75		K
SACP	30	1858E	1914D	1858	N13 W08	.187	8907	30.2	16D	-N	C		.71	.70		E
HALE	30	1856	1922	1914	N12 W08	.176	8907	30.2	26	-N	2 C	1914	.31	.30		
GRP 7684	30	1945	2029	1948	N19 W10	.285	8907	30.1	44	-F		.38				2 2 2
LOCK	30	1944	2000	1947	N20 W08	.281	8907	30.2	16	-F	C	1947	.50	.50		10
HALE	30	1945	2022	1949	N19 W08	.267	8907	30.2	37	-F	1 C	1949	.26	.30		
LOCK	30	2020	2035	2024	N16 W17	.336	8907	29.6	15	-F	C	2024	.50	.60		10
GRP 7685	30	1946	2021	1955	N30 W33	.636	8905	28.3	35	-N		1.04				5 5 5
LOCK	30	1944	2015	1957	N26 W38	.664	8905	28.0	31	-N	C	1957	1.10	1.40		20
HOUS	30	1945	2030	1957	N45 W12	.653	8905	29.9	45	-N	C		1.20	1.60		200
SACP	30	1946	2016U	1953	N26 W38	.664	8905	28.0	30U	-N	C		1.63	1.85		L
HUAN	30	1947	2021	1950	N27 W38	.669	8905	28.0	34	-N	2 C	1950	.88	.99		E
HALE	30	1949	2023	1959	N26 W37	.653	8905	28.1	34	-N	1 P	1959	.41	.50		
GRP 7686	30	2018	2055	2026	S24 E44	.789	8914	3.1	37	-N		.68				2 2 2
LOCK	30	2018	2050	2026	S23 E45	.793	8914	3.2	32	-F	C	2026	1.00	1.60		10
HALE	30	2032E	2100	2046	S24 E43	.781	8914	3.1	28D	-N	2 P	2046	.36	.60		

SOLAR FLARES

JULY 1967

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.		
1967 JULY																			
GRP 7708	31	0816	0844	0829	N26	W42	.706	8905	28.2	28	1N			3.42				11 11 8	
CATA	31	0805	0845	0815	N28	W45	.744	8905	28.0	40	1B			0815	2.62	3.92		240	
ATHN	31	0810E	0858	0815	N30	W35	.655	8905	28.7	480	1N			0815	3.30	4.50	1.90		
CAPS	31	0807	0853		N23	W41	.683	8905	28.3	46	1B			0827	2.80	3.60		204 FHK	
ARCE	31	0825	0855	0828	N22	W45	.724	8905	28.0	30	1N			0828	2.18	3.00			
MONT	31	0810	0900	0830	N28	W45	.744	8905	28.0	50	2B			0830	5.16			H	
CRON	31	0813	0819	0814	N27	W46	.750	8905	27.9	6	-F			C	1.00	1.50		100	
KODA	31	0824E	0843	0831	N24	W39	.665	8905	28.4	19D	1B			C	0832	3.54	4.80	2.36	EHL
ONDR	31	0826	0841		N25	W42	.702	8905	28.2	15	1N			V	0827			2.40	CJL
KIEV	31	0826	0854	0828	N24	W41	.687	8905	28.3	28	1N			C	0828	3.61			75 I
ISTA	31	0808	0819		N26	W43	.717	8905	28.1	11	1B								
WEND	31	0820	0838		N28	W45	.744	8905	28.0	18	1N			V	4.13				
ARCE	31	0810	0836	0825	N27	W46	.750	8905	27.9	26	1N			C	0825	1.40	2.10		
ISTA	31	0811	0822		N26	W44	.727	8905	28.0	11	-B								
CRON	31	0815	0831	0821	N27	W46	.750	8905	27.9	16	-F			C	1.00	1.50			100
CATA	31	0815	0855	0820	N24	W42	.698	8905	28.2	40	1N				0820	1.53	2.16		191
ISTA	31	0813	0822		N24	W44	.720	8905	28.0	9	-B								
GRP 7708	31	0830	0851	0837	N24	W42	.698	8905	28.2	21	1N				1.84				6 6 6
SALO	31	0830E	0845D		N23	W39	.661	8905	28.4	15D	1N			P	0840	1.16	1.60	.13	
ZURI	31	0832E	0850	0835	N24	W45	.730	8905	28.0	18D	1N			P	0835	2.10	3.00		
CRON	31	0826	0834	0828	N24	W43	.709	8905	28.1	8	-N			C	.70	1.00			200 E
LOCA	31	0832E	0853		N22	W43	.702	8905	28.1	21D	-N			V	0832	.73	1.00		H
CAPP	31	0834E	0845D		N28	W40	.694	8905	28.4	11D	-N			P	0837	1.18	1.65		
WEND	31	0825	0851		N23	W40	.672	8905	28.4	26	1N			V	5.16				
CRON	31	0832	0850	0838	N24	W42	.698	8905	28.2	18	-N			C	.50	.70			100
SALO	31	0830E	0845D		N27	W40	.690	8905	28.4	15D	-N			P	.50	.70	.13		
GRP 7709	31	0848	0950	0900	S26	W01	.526	8912	31.3	62	2B				5.16				1 1 1
MONT	31	0848	0950	0900	S26	W01	.526	8912	31.3	62	2B				0900	5.16			
GRP 7710	31	0856	0925	0858	N14	E11	.236	8913	1.2	29	1N				2.82				9 9 8
KIEV	31	0854	0918	0859	N14	E12	.249	8913	1.3	24	1B			C	0859	3.61	4.00		120 I
CAPS	31	0855	0933		N15	E12	.259	8913	1.3	38	1B				0900	3.00	3.10		256
ARCE	31	0855	0940	0855	N13	E10	.213	8913	1.1	45	1N			C	0855	5.01	5.10		
CATA	31	0855	0945	0855	N15	E12	.259	8913	1.3	50	1B				0855	2.75	2.86		288
MEUD	31	0856	0910	0857	N13	E13	.255	8913	1.3	14	1N			C	0857	2.37	2.40		
ZURI	31	0856	0928	0858	N13	E09	.199	8913	1.0	32	1N			P	0858	3.57	3.60		
CRON	31	0857	0915	0859	N14	E09	.210	8913	1.0	18	-N			C	1.10	1.10			200 E
ONDR	31	0857E	0922		N12	E06	.151	8913	31.8	25D	1N			V	0858			2.00	C
CAPP	31	0907E	0916D		N13	E09	.199	8913	1.1	9D	-N			P	0907	1.18	1.20		
CAPS	31	0918	0930		N16	E22	.405	8913	2.0	12	-F								DF
GRP 7711	31	0859	0922	0905	N15	W20	.370	8907	29.9	23	1B				3.30				1 1 1
ATHN	31	0859E	0922	0905	N15	W20	.370	8907	29.9	23D	1B			2	0922	3.30	3.50	2.00	
GRP 7712	31	0943	1013	0951	N24	W37	.642	8905	28.6	30	1N				.96				4 4 3
CATA	31	0940	1040	0955	N25	W38	.659	8905	28.6	60	1B				0955	1.86	2.50		209
ATHN	31	0945	0959	0947	N20	W40	.661	8905	28.4	14	-N			2	0947	.66	.90	1.60	
ARCE	31	0945	1005D		N26	W38	.663	8905	28.6	20D	-N			C	0945	.36	.50		
AROS	31	0946E	1006		N25	W30	.568	8905	29.2	20D	1N			V					
GRP 7713	31	1021	1040	1024	N13	E11	.226	8913	1.3	19	-N				.94				2 2 1
CATA	31	1020	1050	1025	N13	E12	.240	8913	1.3	30	-N				1025	.94	.97		199
MEUD	31	1022	1030	1023	N13	E10	.213	8913	1.2	8	-F			C					
GRP 7714	31	1114	1153	1120	S25	E38	.743	8918	3.3	39	1B				2.33				7 6 6
CATA	31	1110	1143	1115	S26	E37	.742	8918	3.2	33	1B				1115	1.66	2.40		263
MONT	31	1115	1130	1125	S25	E56	.887	8918	4.7	15	-N				1125	1.03			
ATHN	31	1115	1157	1120	S26	E32	.699	8918	2.9	42	1B			2	1120	2.31	2.90	2.00	
MEUD	31	1116	1129D		S23	E34	.693	8918	3.0	13D	-N			C	1122	1.34	1.80		
CAPS	31	1117E	1155		S23	E34	.693	8918	3.0	38D	1B			3	1121	2.50	3.50		246
WEND	31	1113	1206		S23	E37	.721	8918	3.2	53	1B			V	5.16				
HUAN	31	1139E	1207		S26	E35	.725	8918	3.1	28D	-B			2	1140	.75	.98		
GRP 7715	31	1115	1145	1115	N26	W42	.706	8905	28.3	30	-N				.55				1 1 1
CATA	31	1115	1145	1115	N26	W42	.706	8905	28.3	30	-N				1115	.55	.79		170
GRP 7716	31	1224	1252	1229	N24	W44	.720	8905	28.2	28	1B				3.08				8 8 6
MONT	31	1224	1255	1228	N28	W47	.764	8905	28.0	31	1B				1228	3.09			L
ONDR	31	1225E	1244		N25	W44	.723	8905	28.2	19D	2N			V	1228			2.50	C
ATHN	31	1225	1252	1229	N21	W43	.699	8905	28.3	27	2B			2	1229	4.29	6.30	2.00	
HUAN	31	1225	1255	1228	N23	W46	.738	8905	28.1	30	1B			2	1228	3.76	4.53		H
CAPP	31	1229E	1237D		N28	W44	.735	8905	28.2	8D	-N			P	1229	.59	.86		
CAPS	31	1229E	1248		N22	W40	.668	8905	28.5	19D	-B			3	1234	1.30	1.80		288
SACP	31	1231E	1300	1231	N22	W43	.702	8905	28.3	29D	1N			C		1.90	2.22		
WEND	31	1221	1250		N21	W41	.676	8905	28.4	29	1N			V	4.13				
GRP 7716	31	1230	1320		N23	W43	.706	8905	28.3	50	-N				.48				2 2 2
SALO	31	1230E	1320D		N23	W42	.695	8905	28.4	50D	-N			P	1250	.33	.50	.12	
MEUD	31	1240E	1242D		N23	W44	.716	8905	28.2	2D	-N			C	1242	.62	.90		

SOLAR FLARES

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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 Ha		MAX. INT. %	
GRP 7717	31	1240	1320		S22	E48	.814	8918	4.1	40	-F							1 1 1	
SALO	31	1240E	1320D		S22	E48	.814	8918	4.1	40D	-F	P	1250	.33	.60	11		2 2 2	
GRP 7718	31	1328	1333	1330	N30	W38	.685	8905	28.7	5	-N			.41				200	
HOUS	31	1327	1334	1330	N30	W38	.685	8905	28.7	7	-N	C		.40	.60				
MEUD	31	1329	1332		N29	W37	.669	8905	28.8	3	-F	C	1330	.41	.60				
GRP 7719	31	1344	1350	1346	N13	E07	.175	8913	1.1	6	-F			.57				1 1 1	
HUAN	31	1344	1350	1346	N13	E07	.175	8913	1.1	6	-F	2	C	1346	.57	.57			E
GRP 7720	31	1416	1437	1421	N22	E75	.961	8915	6.2	21	-F			.21				1 1 1	
SACP	31	1416	1437	1421	N22	E75	.961	8915	6.2	21	-F	C		.21	.42				
GRP 7721	31	1434	1440	1435	N14	E04	.160	8913	31.9	6	-F			.28				2 2 2	
MEUD	31	1433	1434D		N13	E07	.175	8913	1.1	1D	-F	C	1434	.31	.30			D	
HUAN	31	1434	1440	1435	N14	E01	.146	8913	31.7	1D	-F	2	C	1435	.25	.25			D
GRP 7722	31	1459	1539	1514	N25	W47	.754	8905	28.1	40	-N			1.29				9 9 9	
SACP	31	1450	1552	1512	N25	W47	.754	8905	28.1	62	1N	C		1.94	2.38				
HOUS	31	1455	1535	1516	N27	W49	.779	8905	27.9	40	-N	C		.90	1.40			200	
MEUD	31	1502	1528		N27	W48	.770	8905	28.0	26	-N	C	1513	.72	1.10			HJL	
ATHN	31	1503E	1530D		N24	W47	.751	8905	28.1	27D	1B	1	C	1506	1.65	2.70	2.00		E
HUAN	31	1503	1538	1514	N27	W49	.779	8905	28.0	35	-N	2	C	1514	.75	.94			E
CAPS	31	1504E	1531		N23	W44	.716	8905	28.3	27D	-N	3	C	1507	.80	1.10			E
LOCK	31	1505E	1535	1514	N17	W49	.757	8905	28.0	30D	-N	C	1514	1.20	1.80			20	
LOCA	31	1510E	1540	1512	N27	W45	.741	8905	28.3	30D	-N	V	1512	1.05	1.50			H	
MONT	31	1512	1600D		N28	W45	.744	8905	28.3	48D	1B		1530	2.58				E	
GRP 7723	31	1516	1544	1522	N13	E08	.187	8913	1.2	28	-N			1.32				8 8 8	
SACP	31	1502	1557	1526	N13	E08	.187	8913	1.2	55	1N	C		2.55	2.50				
HOUS	31	1513	1542	1520	N14	E07	.187	8913	1.2	29	-F	C	1524	1.00	1.00			100	
LOCK	31	1515	1542	1524	N14	E05	.168	8913	1.0	27	-N	C	1519	1.30	1.30			20	
ATHN	31	1516E	1535		N12	E06	.151	8913	1.1	19D	-N	1	C	1519	1.98	2.00	1.80		
LOCA	31	1516	1545D	1519	N12	E10	.203	8913	1.4	29D	-N	V	1519	1.05	1.10				
MEUD	31	1517	1529D		N12	E09	.189	8913	1.3	12D	-N	C	1520	.62	.60				
HUAN	31	1517	1551	1521	N13	E07	.175	8913	1.2	34	-N	2	C	1521	1.39	1.39			E
CAPS	31	1520E	1538		N15	E09	.222	8913	1.3	18D	-N	3	C	1523	.70	.70			
HUAN	31	1517	1551	1521	N13	E12	.240	8913	1.5	34	-N	2	C						
GRP 7724	31	1549	1555	1551	N10	W28	.470	8907	29.6	6	-F			.50				1 1 1	
LOCK	31	1549	1555	1551	N10	W28	.470	8907	29.6	6	-F	C	1551	.50	.60			10	
GRP 7725	31	1559	1628	1620	S26	W04	.529	8912	31.4	29	-F			.71				1 1 1	
SACP	31	1559	1628	1620	S26	W04	.529	8912	31.4	29	-F	C		.71	.74				
GRP 7726	31	1600	1627	1609	N14	W20	.364	8907	30.2	27	-F			.31				1 1 1	
HUAN	31	1600	1627	1609	N14	W20	.364	8907	30.2	27	-F	2	C	1609	.31	.31			D
GRP 7727	31	1649	1722	1655	N26	W40	.685	8905	28.7	33	-F			.25				1 1 1	
HUAN	31	1649	1722	1655	N26	W40	.685	8905	28.7	33	-F	2	C	1655	.25	.29			D
GRP 7728	31	1659	1737	1724	N13	W21	.374	8907	30.1	38	-N			1.28				5 5 5	
HOUS	31	1655	1739	1722	N14	W22	.394	8907	30.1	44	-N	C		1.30	1.40			200	
LOCK	31	1700	1737	1723	N10	W21	.362	8907	30.1	37	-F	C	1723	1.50	1.60			30	
HUAN	31	1701	1734	1722	N14	W20	.364	8907	30.2	33	-B	2	C	1722	1.34	1.34			K
SACP	31	1701	1736	1728	N13	W21	.374	8907	30.1	35	-B	C		1.53	1.51				
MEUD	31	1716	1727D		N13	W20	.359	8907	30.2	11D	-N	C	1722	.72	.70				
GRP 7728	31	1702	1729	1708	N12	W21	.369	8907	30.1	27	-N			.77				3 3 3	
LOCK	31	1700	1737	1707	N10	W21	.362	8907	30.1	37	-F	C	1723	1.50	1.60			30	
MEUD	31	1702	1712		N13	W20	.359	8907	30.2	10	-N	C	1704	.41	.40				
HALE	31	1705	1739	1708	N13	W21	.374	8907	30.1	34	-B	2	C	1708	.41	.40			TKW
GRP 7729	31	1822	1849	1829	N14	E04	.160	8913	1.1	27	-F			.78				2 2 2	
LOCK	31	1820	1845	1826	N14	E02	.148	8913	31.9	25	-F	C	1826	1.00	1.00			10	
HUAN	31	1823	1853	1831	N13	E04	.144	8913	1.1	30	-F	2	C	1831	.55	.55			E
HUAN	31	1823	1853	1831	N13	E08	.187	8913	1.4	30	-F	2	C						
GRP 7729	31	1829	1856	1840	N14	E07	.187	8913	1.3	27	-N			.51				3 2 2	
HALE	31	1835	1857	1839	N13	E09	.199	8913	1.4	22	-N	1	C	1839	.52	.50			T
HALE	31	1828	1913	1836	N13	E04	.144	8913	1.1	45	-N	1	C	1836	.31	.30			T
LOCK	31	1830	1855	1840	N14	E08	.198	8913	1.4	25	-F	C	1840	.50	.50			10	
SACP	31	1901E	1930D	1910	N13	E07	.175	8913	1.3	29D	-N	C		1.62	1.59				
GRP 7730	31	1833	1840	1836	S17	E35	.661	8918	3.4	7	-F			.70				1 1 1	
LOCK	31	1833	1840	1836	S17	E35	.661	8918	3.4	7	-F	C	1836	.70	.90			10	
GRP 7731	31	1835	1851	1838	N16	W27	.476	8907	29.7	16	-N			.52				1 1 1	
HALE	31	1835	1851	1838	N16	W27	.476	8907	29.7	16	-N	2	C	1838	.52	.60			T
GRP 7732	31	1853	1900	1857	N20	W17	.372	8911	30.5	7	-F			.41				1 1 1	
HALE	31	1853	1900	1857	N20	W17	.372	8911	30.5	7	-F	1	C	1857	.41	.40			
GRP 7733	31	1948	2008	1950	N14	W22	.394	8907	30.2	20	-F			.45				1 1 1	
HUAN	31	1948	2008	1950	N14	W22	.394	8907	30.2	20	-F	2	C	1950	.45	.45			E
GRP 7734	31	1952	2039	2004	N25	W46	.744	8905	28.4	47	1N			1.72				5 5 5	
HUAN	31	1949	2042	2003	N27	W45	.741	8905	28.5	53	1N	2	C	2003	1.89	2.28			E
HOUS	31	1950	2028	2002	N28	W47	.764	8905	28.3	38	-B	C		1.10	1.70			300	
HALE	31	1952	2056	2005	N27	W45	.741	8905	28.5	64	1N	1	C	2005	1.65	2.50			T
LOCK	31	1955	2030	2004	N17	W48	.746	8905	28.2	35	-N	C	2004	1.10	1.60			20	
SACP	31	2014E	2040	2020	N26	W44	.727	8905	28.5	26D	1N	C		2.86	3.44				

SOLAR FLARES

JULY 1967

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	MAX. INT. %		
1967 JULY																			
GRP 7735	31	2044	2118	2054	N13	E03	.137	8913	1.1	34	-F			.71				2 2 2	
SACP	31	2042	2116	2052	N13	E05	.153	8913	1.2	34	-F	C		.61	.59				
LOCK	31	2045	2120	2055	N12	E01	.111	8913	31.9	35	-F	C	2055	.80	.80		10	4 4 3	
GRP 7736	31	2047	2140	2115	N20	W50	.773	8905	28.1	53	2B			4.61					
SACP	31	2046	2141	2115	N22	W48	.756	8905	28.3	55	2B	C		7.13	8.86				
LOCK	31	2047	2140	2115	N11	W51	.774	8905	28.0	53	1B	C	2115	3.20	5.10		30	HK	
HOU5	31	2047	2140	2115	N23	W50	.779	8905	28.1	53	2B								
HUAN	31	2048	2140	2113	N23	W50	.779	8905	28.1	52	1B	2	C	2113	3.51	4.42			H
GRP 7736	31	2048	2143	2057	N19	W50	.771	8905	28.1	55	1B			3.60					
LOCK	31	2047	2140	2058	N11	W51	.774	8905	28.0	53	1B	C	2115	3.20	5.10		30	HK	
HOU5	31	2047	2140	2100	N23	W50	.779	8905	28.1	53	2B	C		4.00	6.40		300	HJL	
HALE	31	2051	2148	2052	N24	W49	.771	8905	28.2	57	-B	1	C	2052	.52	.80			TKW
GRP 7737	31	2056	2110	2103	N23	E15	.384	8913	2.0	14	-F			.77					
LOCK	31	2056	2107	2101	N24	E14	.386	8913	1.9	11	-F	C	2101	.60	.70		10	2 2 2	
HALE	31	2100E	2112	2105	N22	E16	.382	8913	2.1	120	-F	1	P	2105	.93	1.00			T
GRP 7738	31	2105	2119	2109	N11	W23	.396	8907	30.2	14	-N			.48					
HUAN	31	2104	2116	2107	N14	W23	.409	8907	30.2	12	-F	2	C	2107	.45	.45			E
LOCK	31	2106	2122	2110	N07	W22	.373	8907	30.2	16	-N	C	2110	.50	.60		20		
GRP 7739	31	2207	2243	2214	N13	E04	.144	8913	1.2	36	-N			.95					
LOCK	31	2204	2240	2211	N13	E01	.128	8913	1.0	36	-N	C	2211	1.10	1.10		20	3 3 3	
HUAN	31	2205	2222D		N13	E03	.137	8913	1.1	17D	-N	1	C	2210	1.03	1.03			E
HALE	31	2212	2246	2218	N13	E08	.187	8913	1.5	34	-B	1	C	2218	.72	.70			TW
HUAN	31	2205	2222D		N13	E07	.175	8913	1.4	17D	-N	1	C						
HALE	31	2213	2229	2216	N13	E03	.137	8913	1.2	16	-B	1	C	2216	.72	.70			T
GRP 7740	31	2212	2224	2216	N07	W22	.373	8907	30.3	12	-F			.40					
LOCK	31	2212	2224	2216	N07	W22	.373	8907	30.3	12	-F	C	2216	.40	.40		10	1 1 1	
GRP 7741	31	2304	2318	2310	N13	E01	.128	8913	1.0	14	-F			.80					
LOCK	31	2304	2318	2310	N13	E01	.128	8913	1.0	14	-F	C	2310	.80	.80		10	1 1 1	
GRP 7742	31	2334	2348	2339	N10	W23	.394	8907	30.3	14	-N			.46					
LOCK	31	2331	2345	2337	N07	W22	.373	8907	30.3	14	-N	C	2337	.50	.60		20	2 2 2	
HALE	31	2336	2351	2340	N13	W24	.419	8907	30.2	15	-N	1	C	2340	.41	.50			T
GRP 7743	31	2342	2359	2345	N21	W56	.832	8905	27.8	17	-N			.76					
LOCK	31	2339	2358	2344	N15	W57	.836	8905	27.7	19	-N	C	2344	.90	1.60		20	2 2 2	
HALE	31	2345	0000D	2346	N27	W54	.824	8905	27.9	15D	-N	1	C	2346	.62	1.10			T
GRP 7744	31	2350	0020	0000	S22	E30	.648	8918	3.2	30	-F			.92					
LOCK	31	2347	0020	0000	S19	E32	.643	8918	3.4	33	-F	C	0000	.90	1.20		10	2 2 2	
HALE	31	2352	0000D	0000	S25	E28	.656	8918	3.1	8D	-F	1	P	0000	.93	1.20			T

Remarks

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

- N = Continuous spectrum shows effects of polarization.
- O = Observations have been made in the calcium II lines H or K.
- P = Flare shows helium D₃ in emission.
- Q = Flare shows the Balmer continuum in emission.
- R = Marked asymmetry in H α line.
- S = Brightening follows disappearance of filament.
- T = Region active all day.
- U = Close and somewhat parallel bright filaments.
- V = Occurrence of an explosive phase.
- W = Great increase in area after time of maximum intensity.
- X = Unusually wide H α emission.
- Y = Onset of a system of loop-type prominences.
- Z = Major sunspot umbra covered by flare.