

SOLAR FLARES

REVISED

MARCH 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 $\alpha$	MAX. INT. %	
1967 MAR																		
GRP 3727	01	0100	0127	0106	N17	E10	.441	8707	1.8	27	1-							1 1 1
IKOM	01	0100E	0127D	0106	N17	E10	.441	8707	1.8	27D	-F	V	0106	1.03	1.10		100	E
GRP 3728	01	0143	0159	0150	S20	E53	.797	8711	5.0	16	1-							1 1 1
HALE	01	0143	0159	0150	S20	E53	.797	8711	5.0	16	-F	1 C	0150	.21	.30			
GRP 3729	01	0153	0209	0158	N16	E10	.426	8707	1.8	16	1-							5 5 5
HALE	01	0144	0201D	0157U	N16	E10	.426	8707	1.8	17D	-B	1 P	0157	1.03	1.10			
MITK	01	0154	0208	0156	N17	E10	.441	8707	1.8	14	1N							
MANI	01	0156E	0204	0158	N16	E13	.447	8707	2.1	8D	1N	2 C	0158	2.27	2.53			
CRON	01	0157	0215	0159U	N15	E09	.406	8707	1.8	18	-N							
IKOM	01	0201E	0207D		N17	E10	.441	8707	1.8	6D	-N	V	0203	1.30	1.40	200.00	200	I
GRP 3730	01	0312	0317	0313	N17	E11	.447	8707	2.0	5	1-							1 1 1
MITK	01	0312	0317	0313	N17	E11	.447	8707	2.0	5	-N	C	0313	1.13	1.30			
GRP 3731	01	0322	0340	0332	N17	E09	.435	8707	1.8	18	1-							2 2 2
MITK	01	0322	0330	0324	N17	E09	.435	8707	1.8	8	-F	C	0324	.83	.90			
CRON	01	0330	0349	0339	N16	E08	.415	8707	1.7	19	-N	C		.80	.90		200	E
GRP 3732	01	0416	0425	0420	N17	E11	.447	8707	2.0	9	1-							2 2 2
MITK	01	0416	0424	0420	N17	E10	.441	8707	1.9	8	-N	C	0420	.72	.80			
IKOM	01	0416	0425D	0420	N17	E12	.454	8707	2.1	9D	-N	V	0419	.62	.70		120	D
GRP 3733	01	0428	0445	0431	N17	E12	.454	8707	2.1	17	1-							4 3 3
IKOM	01	0426E	0448D	0428	N17	E13	.460	8707	2.2	22D	2B	V	0426	2.97	5.70	2.65	150	D
MITK	01	0429	0432		N18	E11	.461	8707	2.0	3	1B	P	0429	2.78	3.10			
CRON	01	0431E	0449D	0432U	N17	E12	.454	8707	2.1	18D	-B	C		.70	.80		300	E
MANI	01	0432E	0449	0433	N16	E12	.440	8707	2.1	17D	-B	2 C	0433	1.13	1.25			
GRP 3734	01	0711	0829	0814	N15	E09	.406	8707	2.0	78	1-							3 2 2
ABST	01	0711E	0814D	0805	N16	E09	.421	8707	2.0	63D	-F	P	0805	1.07	1.10		73	EJK
ATHN	01	0800E	0821	0802	N13	E11	.390	8707	2.2	21D	-B	2 C	0802	.76	.80	2.00		
CATA	01	0815E	0836D	0834	N17	E06	.422	8707	1.8	21D	-N							
GRP 3735	01	0834	0836	0834	S20	E51	.777	8711	5.2	2	1-							1 1 1
CATA	01	0834E	0836D	0834	S20	E51	.777	8711	5.2	2D	-B							
GRP 3736	01	0844	0905	0846	N22	W26	.626	8704	27.4	21	1-							3 3 2
CRON	01	0840U	0902	0846	N22	W25	.618	8704	27.5	22U	-N	C		.59	.90		214	
ONDR	01	0842E	0856D		N22	W28	.644	8704	27.3	14D	-N	V	0846	.56	.40		200	E
LOCA	01	0850E	0907		N23	W25	.628	8704	27.5	17D	-N	V	0850	.30	.40	1.90		C
GRP 3737	01	1010	1018	1011	S19	E45	.710	8711	4.8	8	1-							1 1 1
ATHN	01	1010	1018	1011	S19	E45	.710	8711	4.8	8	-N	1 C	1011	.33	.50	1.50		
GRP 3738	01	1110	1114	1111	N18	E10	.455	8707	2.2	4	1-							1 1 1
ATHN	01	1110	1114	1111	N18	E10	.455	8707	2.2	4	-B	1 C	1111	.50	.50	2.00		
GRP 3739	01	1206	1219	1208	N17	E03	.413	8707	1.7	13	1-							3 3 3
CATA	01	1200E	1210D	1202	N17	E01	.411	8707	1.6	10D	-B							
UCCL	01	1208E	1208D		N18	E00	.426	8707	1.5		-N	P	1208	.74	.80		229	D
ATHN	01	1210E	1219	1213	N17	E09	.435	8707	2.2	9D	-N	1 C	1213	.52	.70	1.60		
GRP 3740	01	1252	1256		N14	E05	.371	8707	1.9	4	1-							1 1 0
ONDR	01	1252E	1256		N14	E05	.371	8707	1.9	4D	-F	V	1254	.66	.70	1.60		CD
GRP 3741	01	1302	1310		N17	E05	.418	8707	1.9	8	1-							1 1 0
ONDR	01	1302	1310		N17	E05	.418	8707	1.9	8	-F	V	1307			1.40		CDH
GRP 3742	01	1401	1433	1414	N15	E03	.381	8707	1.8	32	1-							1 1 1
SACP	01	1401	1433	1414	N15	E03	.381	8707	1.8	32	-F	C		1.22	1.36			
GRP 3743	01	1412	1450	1430	S21	E48	.747	8711	5.2	38	1-							1 1 1
SACP	01	1412	1450	1430	S21	E48	.747	8711	5.2	38	-N	C		.58	.78			
GRP 3744	01	1414	1422	1416	N23	W30	.671	8704	27.3	8	1-							2 2 2
SACP	01	1413	1424	1416	N24	W31	.688	8704	27.3	11	-F	C		.64	.52			
ATHN	01	1414	1420	1415	N22	W29	.653	8704	27.4	6	-N	1 C	1415	.54	.90	1.60		
GRP 3745	01	1428	1438	1431	N15	E05	.387	8707	2.0	10	1-							1 1 1
SACP	01	1428	1438	1431	N15	E05	.387	8707	2.0	10	-N	C		.41	.45			
GRP 3746	01	1444	1513	1452	N12	E60	.888	8714	6.1	29	1-							2 2 2
SACP	01	1441	1525	1452	N13	E57	.867	8714	5.9	44	1N	C		1.05	.45			
MCMA	01	1447	1500	1451	N11	E62	.901	8714	6.3	13	-F	C	1451	1.45	2.16			D
GRP 3747	01	1510	1515	1511	N15	E03	.381	8707	1.9	5	1-							1 1 1
MCMA	01	1510	1515	1511	N15	E03	.381	8707	1.9	5	-N	C	1511	.57	.41			E
GRP 3748	01	1518	1532	1521	N17	W01	.411	8707	1.6	14	1-							1 1 1
MCMA	01	1518	1532	1521	N17	W01	.411	8707	1.6	14	-N	C	1521	1.01	.72	.80		EH
GRP 3749	01	1554	1646	1622	N17	E00	.410	8707	1.7	52	1-							2 1 1
SACP	01	1554	1646	1606	N16	E04	.400	8707	2.0	52	-F	C		1.64	1.82			
LOCK	01	1633	1644	1637	N18	W04	.431	8707	1.4	11	-F	C	1637	1.82	.40		10	H
GRP 3750	01	1603	1625	1617	N25	W35	.730	8704	27.0	22	1-							3 3 3
SACP	01	1600	1631	1618	N24	W31	.688	8704	27.3	31	1F	C		.80	2.10			
MCMA	01	1605	1613	1609	N26	W30	.697	8704	27.4	8	-F	C	1609	1.82	.31	.40		D
HUAN	01	1621	1630	1625	N26	W44	.810	8704	26.4	9	-F	2 C	1625	.40	.37	.49		E
GRP 3751	01	1641	1650	1644	N24	W33	.705	8704	27.2	9	1-							3 3 3
LOCK	01	1640	1651	1644	N23	W34	.706	8704	27.1	11	-F	C	1644	.97	1.00	1.40		10
HUAN	01	1641	1650	1644	N24	W33	.705	8704	27.2	9	-N	2 C	1644	1.00	1.17			E
MCMA	01	1643	1649	1644	N25	W32	.705	8704	27.3	6	-N	C	1644	.72	1.00			E

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	MÉR. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %			
GRP 3752	01	1652	1707	1657	S20	E47	.734	8711	5.2	15	1-								2 2 2	
LOCK	01	1647	1708	1655	S20	E46	.723	8711	5.1	21	-F	C	1655	.42	.60			10		
MCMA	01	1657	1705	1659	S20	E48	.745	8711	5.3	8	-N	C	1659	.31	.50				D	
GRP 3753	01	1658	1713	1703	N24	W32	.697	8704	27.3	15	1-								4 4 4	
SACP	01	1655	1713	1705	N23	W33	.697	8704	27.2	18	1N	C		1.58						
LOCK	01	1658	1712	1702	N23	W26	.636	8704	27.8	14	-N	C	1702	2.70	3.17			20		
HUAN	01	1658	1713	1703	N24	W35	.723	8704	27.1	15	1N	C	1703	1.10	1.70					
MCMA	01	1659	1715	1702	N24	W33	.705	8704	27.2	16	-B	C	1702	2.06	2.46					
GRP 3754	01	1700	1724	1713	N15	E49	.803	8714	5.4	24	1-								EH	
SACP	01	1547	1734	1712	N15	E48	.793	8714	5.3	107	1N	C		.83	1.20					
MCMA	01	1658	1720	1705	N14	E55	.853	8714	5.8	22	-N	C	1705	.96						5 4 4
HUAN	01	1701	1718	1706	N16	E46	.778	8714	5.2	17	-N	C	1706	2.34	3.07					D
LOCK	01	1702	1713	1707	N16	E48	.797	8714	5.3	11	-F	C	1707	.52	.80					D
HALE	01	1729E	1736D	1733	N16	E48	.797	8714	5.3	7D	-F	C	1707	.50	.90			10		
GRP 3755	01	1716	1735	1724	N18	E03	.429	8707	1.9	19	1-	C	1733	.21	.30					F
SACP	01	1712	1742	1729	N18	E04	.431	8707	2.0	30	-N	C		.67						5 5 5
LOCK	01	1716	1733	1720	N18	E03	.429	8707	1.9	17	-N	C	1720	1.54	1.55					
MCMA	01	1717	1731	1721	N17	E02	.412	8707	1.9	14	-B	C	1721	.70	.80					20
HUAN	01	1717	1733	1722	N18	E04	.431	8707	2.0	16	-N	C	1722	.41	.41					EH
HALE	01	1729E	1734D	1729	N17	E04	.415	8707	2.0	5D	-N	C	1722	.45	.46					D
GRP 3756	01	1815	1831	1820	N15	E51	.821	8714	5.6	16	1-									3 3 3
SACP	01	1752	1835	1820	N15	E48	.793	8714	5.3	43	-N	C		.74						
MCMA	01	1814	1830	1820	N14	E55	.853	8714	5.9	16	-N	C	1820	1.44	1.87					D
LOCK	01	1815	1827	1819	N16	E49	.807	8714	5.4	12	-F	C	1819	.36	.60					10
GRP 3757	01	1822	1839	1826	N14	E01	.362	8707	1.8	17	1-									3 3 3
SACP	01	1817	1844	1825	N14	E02	.363	8707	1.9	27	-N	C		.41	.44					
LOCK	01	1823	1833	1826	N14	E03	.365	8707	2.0	10	-F	C	1826	.45	.70					10
MCMA	01	1825	1840	1828	N15	W01	.379	8707	1.7	15	-N	C	1828	.40	.31					D
GRP 3758	01	1902	1931	1910	N15	E50	.812	8714	5.5	29	1-									4 4 4
HALE	01	1858	2042	1909	N15	E46	.774	8714	5.2	104	-N	C	1909	.85						
SACP	01	1859	1936	1911	N15	E47	.784	8714	5.3	37	1N	C		.36	.60					K
LOCK	01	1904	1917	1909	N16	E49	.807	8714	5.5	13	-F	C	1909	1.72	2.22					10
MCMA	01	1906	1940	1910	N13	E58	.875	8714	6.1	34	-N	C	1910	.50	.90					E
GRP 3759	01	1915	1932	1917	S15	E01	.136	8706	1.9	17	1-									1 1 1
HALE	01	1915	1932	1917	S15	E01	.136	8706	1.9	17	-F	C	1917	.25						
GRP 3760	01	1918	1933	1927	S20	E45	.712	8711	5.2	15		C		.62	1.20					1 0 1
HALE	01	1918	1933	1927	S20	E45	.712	8711	5.2	15		C	1927	.21	.21					
GRP 3761	01	1918	1933	1921	S20	E44	.701	8711	5.1	15	1-									1 1 1
HALE	01	1918	1933	1921	S20	E44	.701	8711	5.1	15	-F	C	1921	.21	.30					
GRP 3762	01	1923	2014	1927	N16	W04	.400	8707	1.5	51	1-									2 1 2
HALE	01	1920	2045	1926	N16	W03	.397	8707	1.6	85		C	1926	.68						
MCMA	01	1925	1942	1928	N16	W04	.400	8707	1.5	17	-F	C	1928	.41	.41					E
GRP 3763	01	1933	1950	1936	N19	W27	.607	8704	27.8	17	1-									1 1 1
HALE	01	1933	1950	1936	N19	W27	.607	8704	27.8	17	-F	C	1936	.25						
GRP 3764	01	1950	1959	1952	N24	W29	.671	8704	27.7	9	1-									4 4 4
LOCK	01	1949	1956	1951	N22	W30	.662	8704	27.6	7	-N	C	1951	.21	.30					
SACP	01	1949	2005	1950	N25	W30	.688	8704	27.6	16	1B	C		.40	.60					20
HALE	01	1950	1956	1951	N23	W28	.653	8704	27.7	6	-B	C	1951	2.82	3.26					
MCMA	01	1950	1957D	1952	N25	W29	.680	8704	27.7	7D	-B	C	1952	.36	.50					D
GRP 3765	01	1953	2005	2000	N25	W32	.705	8704	27.4	12	1-									4 3 3
SACP	01	1949	2005	1959	N25	W30	.688	8704	27.6	16		C		.60						
MCMA	01	1952	2003	1958	N27	W33	.729	8704	27.4	11	-N	C	1958	.41	.60					E
HALE	01	1954	2006	2001	N25	W31	.696	8704	27.5	12	-N	C	2001	.52	.70					
LOCK	01	1957	2006	2001	N26	W33	.721	8704	27.4	9	-F	C	2001	.31	.31					10
GRP 3766	01	1958	2035	2010	N15	E52	.830	8714	5.7	37	1-									4 3 4
HALE	01	1858	2042	2013	N16	E46	.778	8714	5.2	104		C	2013	.70						
SACP	01	1949	2040	2012	N14	E55	.853	8714	6.0	51	1N	C		.21	.30					K
LOCK	01	2002	2022	2010	N16	E49	.807	8714	5.5	20	-F	C	2010	1.63	2.36					
MCMA	01	2003	2016D	2005	N13	E58	.875	8714	6.2	13D	-N	C	2005	.30	.50					10
GRP 3767	01	2001	2033	2010	N15	E00	.378	8707	1.8	32	1-									3 2 3
HALE	01	1920	2045	2014	N15	E01	.379	8707	1.9	85		C	2014	.45	.60					
MCMA	01	2000	2016D	2008	N15	W01	.379	8707	1.8	16D	-N	C	2008	.52	.31					D
LOCK	01	2002	2020	2008	N15	E01	.379	8707	1.9	18	-F	C	2008	.31	.30					10
GRP 3768	01	2002	2018	2006	S11	E01	.068	8706	1.9	16	1-									2 2 2
HALE	01	2001	2021	2005	S16	E01	.154	8706	1.9	20	-N	C	2005	.44						
LOCK	01	2002	2015	2007	S05	E01	.042	8706	1.9	13	-F	C	2007	.31	.31					
GRP 3769	01	2037	2103	2042	N25	W32	.705	8704	27.5	26	1-									3 3 3
SACP	01	2034	2111	2040	N26	W32	.713	8704	27.5	37	1N	C		.50	.90					
LOCK	01	2038	2052	2043	N25	W34	.722	8704	27.3	14	-F	C	2043	1.01	2.69					10
HALE	01	2039	2107	2043	N25	W31	.696	8704	27.5	28	-N	C	2043	.27	.36					L
GRP 3770	01	2136	2156	2142	S18	E43	.685	8711												

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	WER. DIST.												
	1967																	
	MAR																	
GRP 3771	01	2152	2159	2155	N14	E45	.760	8714	5.3	7	1-						1 1 1	
HALE	01	2152	2159	2155	N14	E45	.760	8714	5.3	7	-N	2	C	2155	.18	.20		1 1 1
GRP 3772	01	2201	2205	2202	N17	E02	.412	8707	2.1	4	1-							1 1 1
HALE	01	2201	2205D	2202	N17	E02	.412	8707	2.1	4D	-F	1	P	2202	.26	.30		1 1 1
GRP 3773	01	2204	2226	2207	N25	W33	.713	8704	27.4	22	1-							3 3 3
SACP	01	2119	2234	2212	N26	W33	.721	8704	27.4	75	1N		C		1.10			
LOCK	01	2203	2215	2205	N25	W34	.722	8704	27.4	12	-N		C	2205	2.28	2.71	20	L
HALE	01	2204	2229	2205U	N25	W33	.713	8704	27.4	25	-N	1	P	2205	.50	.80		
GRP 3774	01	2219	2232	2225	N16	W03	.397	8707	1.7	53	1-				.62	.90		1 1 1
HALE	01	2219E	2312D	2225	N16	W03	.397	8707	1.7	53D	-N	1	P	2225	.92	.80		F
GRP 3775	01	2219	2312	2300	N15	E46	.774	8714	5.4	53	1-				.77	.80		2 2 2
HALE	01	2219E	2312D	2308	N13	E43	.734	8714	5.2	53D	-N	1	P	2308	.50	.60		
LOCK	01	2249	2303U	2252	N16	E49	.807	8714	5.6	14U	-F		C	2252	.41	.90	10	H
GRP 3776	01	2315	0024	2353	N12	E54	.839	8714	6.0	69	1-				1.83			4 4 4
SACP	01	2338	0041	2351	N13	E51	.815	8714	5.8	41D	2N		C		5.94	8.07		
LOCK	01	2348	0005	2352	N11	E59	.879	8714	6.4	17	-N		C	2352	.80	1.60	20	
IKOM	01	2350	0026D		N12	E49	.792	8714	5.7	36D	-B		V	2355	1.03	1.70	140	D0
MANI	01	2351E	0022	2355	N10	E58	.868	8714	6.3	31D	-N	2		2355	.62	1.14		
GRP 3777	01	2354	0017	0002	N17	W03	.413	8707	1.8	23	1-				.98			3 3 3
LOCK	01	2353	0007	2356	N19	W03	.444	8707	1.8	14	-F		C	2356	.80	.90	10	
IKOM	01	2355	0009D		N15	W06	.391	8707	1.5	14D	-F		V	2355	.83	.90	100	D
SACP	02	0000E	0036	0008	N16	W01	.395	8707	1.9	36D	-N		C		1.83	1.82		
GRP 3778	02	0024	0033	0028	S21	E43	.691	8711	5.2	9	1-				.95			2 2 2
IKOM	02	0020E	0033D	0027	S21	E43	.691	8711	5.2	13D	1F		V	0027	1.55	2.20	95	E
HALE	02	0028E	0033	0029	S21	E42	.680	8711	5.2	5D	-F	1	P	0029	.67	.90		
GRP 3779	02	0033	0112	0040	N14	E43	.739	8714	5.2	39	1-				1.33			2 2 2
HALE	02	0028E	0110D	0040	N14	E42	.729	8714	5.2	42D	1N	1	P	0040	1.55	2.30		
IKOM	02	0038	0113D		N14	E43	.739	8714	5.3	35D	-F		V	0038	1.24	1.90	100	E
GRP 3780	02	0035	0042		N24	W44	.799	8704	26.7	7	1-				.62			1 1 1
IKOM	02	0035	0042D		N24	W44	.799	8704	26.7	7D	-F		V	0035	1.03	1.60		D
GRP 3781	02	0041	0104	0056	N25	W33	.713	8704	27.6	23	1-				.71			2 1 1
IKOM	02	0041E	0104D		N25	W33	.713	8704	27.6	23D	-F		V	0041	1.13	1.60		E
GRP 3782	02	0044	0056	0048	N26	W32	.713	8704	27.6	6D	-B	1	P	0056	.46	.70		
HALE	02	0042	0047D	0045	S21	E42	.680	8711	5.2	12	1-				.78			3 3 3
LOCK	02	0046	0055D	0050	S18	E41	.660	8711	5.1	9D	-F		C	0050	.60	.80	10	
IKOM	02	0047E	0105D		S21	E43	.691	8711	5.3	18D	1N		V	0047	1.55	2.20		E
GRP 3783	02	0154	0215	0204	N23	W35	.715	8704	27.5	21	1-				.57			2 2 2
MITK	02	0145	0222	0205	N23	W36	.724	8704	27.4	37	-N		C	0205	.83	1.20		E
HALE	02	0202	0208	0203	N22	W34	.699	8704	27.5	6	-B	1	C	0203	.46	.60		
GRP 3784	02	0206	0214	0207	S22	E43	.694	8711	5.3	8	1-				1.00			1 1 1
HALE	02	0206	0214	0207	S22	E43	.694	8711	5.3	8	-N	1	C	0207	.83	1.20		
GRP 3785	02	0211	0224	0215	N25	W36	.739	8704	27.4	13	1-				.95			4 4 4
IKOM	02	0207E	0224D	0215	N25	W34	.722	8704	27.5	17D	-B		V	0215	1.24	1.70	145	E
MANI	02	0211	0227	0215	N23	W40	.760	8704	27.1	16	-B	2		0215	1.24	1.85		
MITK	02	0212	0221	0215	N26	W36	.746	8704	27.4	9	1B		C	0215	1.44	2.20		
HALE	02	0213	0222	0215	N26	W34	.729	8704	27.5	9	-B	1	P	0215	.72	1.10		
GRP 3786	02	0249	0309	0257	N14	E42	.729	8714	5.3	20	1-				.49			4 4 4
HALE	02	0248E	0300D	0258U	N13	E43	.734	8714	5.3	12D	-N	1	P	0258	.36	.50		
IKOM	02	0250E	0304D		N14	E43	.739	8714	5.3	14D	-F		V	0250	.72	1.10	90	D
MITK	02	0250	0310	0255	N15	E42	.734	8714	5.3	20	-F		C	0255	.62	.90		D
MANI	02	0254E	0307		N14	E41	.718	8714	5.2	13D	-F	1		0255	.77	1.11		
GRP 3787	02	0309	0342	0314	N15	W01	.379	8707	2.1	33	1-				1.58			4 4 4
HALE	02	0308U	0329D	0315	N14	W02	.364	8707	2.0	21D	-N	1	P	0315	.93	1.00		
IKOM	02	0308E	0330D	0315	N15	W01	.379	8707	2.1	22D	1N		V	0315	2.89	3.20	1.30	100
MITK	02	0309	0345	0312	N16	W02	.396	8707	2.0	36	1N		C	0312	1.96	2.10		E
MANI	02	0311	0338	0315	N15	E00	.378	8707	2.1	27	-N	2		0315	1.08	1.07		
GRP 3788	02	0431	0600	0531	N14	E42	.729	8714	5.3	89	1-				.73			3 3 3
IKOM	02	0400	0600D		N14	E41	.718	8714	5.2	120D	-N		V	0546	1.03	1.40	120	D
ATHN	02	0546E	0559	0549	N15	E45	.764	8714	5.6	13D	-B	2		0549	.83	1.20	2.00	
MANI	02	0502	0600	0512	N14	E39	.696	8714	5.1	58	-F	2		0512	.83	1.12		
GRP 3789	02	0444	0458	0447	N24	W32	.697	8704	27.8	14	1+				1.63			5 5 5
KODA	02	0440	0450	0445	N26	W35	.738	8704	27.6	10	1B		V	0443	1.93	2.80	3.56	DH
MITK	02	0444	0505	0448	N27	W36	.753	8704	27.5	21	1B		C	0448	1.86	2.80		H
CRON	02	0445	0454	0449	N17	W24	.558	8704	28.4	9	1B		C		1.70	2.10	300	H
IKOM	02	0445E	0457D		N25	W35	.730	8704	27.6	12D	1B		V	0445	2.58	3.90	130	D
MANI	02	0448E	0505		N26	W32	.713	8704	27.8	17D	-B	2		0448	1.03	1.50		F
GRP 3790	02	0509	0516		S20	E90	.999	8716	9.0	7	1-				.28			1 1 1
MANI	02	0509E	0516		S20	E90	.999	8716	9.0	7D	-N	2		0510	.36	1.20		
GRP 3791	02	0627	0655		N18	E90	1.001	8715	9.0	28	1-				.42			1 1 1
MANI	02	0627E	0655		N18	E90	1.001	8715	9.0	28D	-F	2			.52			

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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. %	
	1967																	
	MAR																	
GRP 3792	02	0643	0653	0646	N25	W33	.713	8704	27.8	10	1-							1 1 1
ATHN	02	0643	0653	0646	N25	W33	.713	8704	27.8	10	-N	2	0646	.66	.70	1.70		1 1 1
GRP 3793	02	0716	0725	0718	N13	E40	.702	8714	5.3	9	1-							1 1 1
ATHN	02	0716	0725	0718	N13	E40	.702	8714	5.3	9	-N	2	0718	.50	.70	1.70		1 1 1
GRP 3794	02	0737	0758	0739	S24	E13	.357	8709	3.3	21	1-							1 1 1
ATHN	02	0737	0758	0739	S24	E13	.357	8709	3.3	21	-N	2	0739	.33	.40	1.60		1 1 1
GRP 3795	02	0824	0845	0830	N16	E40	.718	8714	5.4	21	1-							4 4 4
MONT	02	0819	0845	0830	N12	E39	.686	8714	5.3	26	-N							OD
ARCE	02	0822E	0843D		N14	E41	.718	8714	5.4	21D	-N	C	0830	.92	1.30			
ATHN	02	0825	0845	0827	N13	E39	.691	8714	5.3	20	-N	2	0827	.66	.90	1.70		
MANI	02	0829	0835D	0832	N23	E41	.768	8714	5.4	6D	-N	1	0832	.41	.64			
GRP 3796	02	0828	0837	0830	N17	W04	.415	8707	2.1	9	1-							1 1 1
ATHN	02	0828	0837	0830	N17	W04	.415	8707	2.1	9	-N	2	0830	.33	.40	1.70		
GRP 3797	02	0845	0900		N17	W02	.412	8707	2.2	15	1-							1 1 1
MONT	02	0845	0900		N17	W02	.412	8707	2.2	15	-N	C	0850	.72				0
GRP 3798	02	0911	0924	0914	N13	E39	.691	8714	5.3	13	1-							3 3 3
MONT	02	0907	0930	0913	N12	E39	.686	8714	5.3	23	-N	C	0912	.31				OD
ATHN	02	0912	0920	0914	N13	E38	.680	8714	5.2	8	-B	2	0920	.50	.70	2.00		
CAPF	02	0915	0921		N13	E40	.702	8714	5.4	6	-N	V	0919	.59	.85			
GRP 3799	02	0945	1000		S23	E90	.999	8716	9.2	15	1-							1 1 1
ARCE	02	0945E	1000D		S23	E90	.999	8716	9.2	15D	-N	C	0948	.31	1.80			
GRP 3800	02	1010	1033	1011	N19	E90	1.001	8715	9.2	23	1							4 3 1
ARCE	02	1010	1030D		N19	E90	1.001	8715	9.2	20D	1B	C	1013	.51	2.90			A
KIEV	02	1010E	1040D	1011	N16	E90	1.001	8715	9.2	30D	2N	C	1011	2.78				50
MONT	02	1010	1030D		N19	E90	1.001	8715	9.2	20D	-B	C						A
HERS	02	1010E	1032D		N23	E90	1.001	8715	9.2	22D	1N	V						AD
GRP 3801	02	1041	1043		N24	W55	.883	8704	26.3	2	1-							1 1 1
UCCL	02	1041E	1043D		N24	W55	.883	8704	26.3	2D	-N	P	1042	.15	.21			DI
GRP 3802	02	1045	1108	1046	N27	W39	.777	8704	27.5	23	1-							3 3 3
ATHN	02	1045	1052D	1046	N25	W40	.772	8704	27.4	7D	-N	2	1046	.66	1.00	1.50		
MEUD	02	1049E	1055		N26	W37	.754	8704	27.7	6D	-N	C	1050	.72	1.10			CD
UCCL	02	1049E	1120D		N30	W40	.804	8704	27.5	31D	-N	P	1054	.77				DHI
GRP 3803	02	1051	1055		N13	E39	.691	8714	5.4	4	1-							2 2 2
UCCL	02	1049E	1055D		N14	E40	.707	8714	5.5	6D	-N	P	1054	.52	1.00			D
MONT	02	1053E	1054D		N12	E38	.674	8714	5.3	1D	-N	C	1053	.83				OD
GRP 3804	02	1102	1102		N13	E37	.669	8714	5.2	1	1-							1 1 0
CAPS	02	1102E	1102D		N13	E37	.669	8714	5.2	1	-N	i						
GRP 3805	02	1102	1112		N13	W06	.360	8707	2.0	10	1-							1 1 0
CAPS	02	1102E	1112D		N13	W06	.360	8707	2.0	10D	-B	1						
GRP 3806	02	1110	1121	1112	N27	W38	.769	8704	27.6	11	1							5 4 3
MONT	02	1053E	1123D	1114	N28	W37	.768	8704	27.7	30D	-N	C	1114	1.52				OH
KIEV	02	1108E	1121D	1108	N28	W38	.776	8704	27.6	13D	1N	C	1108	1.75	3.00			65
ZURI	02	1112	1120	1115	N28	W38	.769	8704	27.6	8	1N	C	1115	1.90	2.90			DHI
CAPS	02	1111E	1120D		N25	W38	.755	8704	27.6	9D	1B	1						H
MEUD	02	1123E	1123D		N26	W37	.754	8704	27.7		-N	C	1123	1.03	1.60			
GRP 3807	02	1114	1120		N13	E37	.669	8714	5.2	6	1-							1 1 0
CAPS	02	1114E	1120D		N13	E37	.669	8714	5.2	6D	-B	i						
GRP 3808	02	1202	1214	1208	N24	W42	.783	8704	27.4	12	1-							3 3 2
CAPF	02	1158E	1211		N21	W52	.851	8704	26.6	13D	1N	V	1159	1.78	2.16			
MONT	02	1200	1213D		N27	W38	.769	8704	27.6	13D	-N	C	1202	.93				0
ATHN	02	1208	1217	1208	N23	W36	.724	8704	27.8	9	-N	2	1208	.17	.20	1.60		
GRP 3809	02	1204	1214		N13	W05	.356	8707	2.1	10	1-							2 2 2
UCCL	02	1202E	1208D		N14	W04	.368	8707	2.2	6D	-N	P	1205	1.92	1.20			EJ
CAPF	02	1206E	1214		N12	W05	.340	8707	2.1	8D	1N	V	1210	2.35				
GRP 3810	02	1215	0000															
HUAN	02	1300	1306		S28	E09	.382	8709	3.2	6	1-							2 2 2
UCCL	02	1259E	1306D		S28	E09	.382	8709	3.2	7D	-F	i	1259	.57	.57			E
GRP 3811	02	1306	1349		S28	E09	.382	8709	3.2	5D	-N	P	1300	.92	.60			
MONT	02	1306	1349		N24	W43	.791	8704	27.3	43	1							3 3 3
CAPS	02	1317E	1408D		N27	W38	.769	8704	27.7	51D	1B	C	1330	2.06				0
HUAN	02	1307E	1335		N21	W45	.793	8704	27.2	28D	-F	2	1311	.50	.80			145
GRP 3812	02	1353	1504	1444	N25	W45	.813	8704	27.2	38	-N	1	1327	.50	.66			D
SACP	02	1349	1504	1444	N23	W47	.819	8704	27.1	75	-F	C		.65	1.47			2 2 2
HUAN	02	1356	1411D		N24	W42	.783	8704	27.4	15D	-F	1	1359	.37	.50			D
GRP 3813	02	1420	1447	1426	N14	E37	.674	8714	5.4	27	1-							1 1 1
SACP	02	1420	1447	1426	N14	E37	.674	8714	5.4	27	-F	C		.65	.82			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	
	1967																	
	MAR																	
GRP 3814	02	1424	1445	1430	S26	E09	.352	8709	3.3	21	1-							
LOCA	02	1424	1434	1428	S27	E08	.361	8709	3.2	10	-N	V	1428	1.10				6 6 5
SACP	02	1424	1447	1425	S26	E10	.359	8709	3.3	23	1N	C		2.44	2.43			
CAPS	02	1425E	1436		S27	E10	.374	8709	3.4	11D	-N	2	1428	1.50	1.60		185	C
CAPF	02	1425E	1502		S26	E10	.359	8709	3.4	37D	-N	V	1428	1.18	1.25			
HUAN	02	1429E	1449		S27	E11	.380	8709	3.4	20D	-B	1	1430	.67	.67			E
MEUD	02	1437E	1443D	1438	S25	E07	.325	8709	3.1	6D	-F		1438	.31	.30			D
GRP 3815	02	1436	1447	1440	S20	E34	.578	8711	5.2	11	1-	C		1.58				5 5 5
MEUD	02	1436E	1442		S20	E33	.565	8711	5.1	6D	-N	C	1437	1.44	1.70			E
CAPS	02	1436	1443		S21	E35	.595	8711	5.2	7	1N	2	1439	3.00	3.60		189	E
HUAN	02	1436	1444		S19	E34	.574	8711	5.2	8	-N	1	1437	1.12	1.20			E
SACP	02	1436	1450	1437	S20	E33	.565	8711	5.1	14	-B	C		1.35	1.44			
LOCA	02	1436	1455	1442	S21	E35	.595	8711	5.2	19	-F	V	1442	1.26	1.60			
GRP 3816	02	1524	1530	1526	N14	E36	.663	8714	5.3	6	1-	C		.50				1 1 1
MEUD	02	1524	1530	1526	N14	E36	.663	8714	5.3	6	-N	C	1526	.62	.80			
GRP 3817	02	1543	1628	1554	N29	W38	.782	8704	27.8	45	1+			2.69				7 7 7
HOUS	02	1541	1628	1554	N30	W38	.789	8704	27.8	47	-N	C		1.10	1.80		200	EIKL
MEUD	02	1543	1550D		N30	W40	.804	8704	27.7	7D	1N	C	1550	2.48	4.00			
LOCA	02	1543	1603D	1556	N30	W43	.825	8704	27.4	20D	1B	V	1556	2.94	5.10			H
CAPS	02	1543E	1620D		N28	W38	.776	8704	27.8	37D	1N	2	1554	3.00	4.80		176	HL
SACP	02	1543	1628	1552	N28	W38	.776	8704	27.8	45	2N	C		6.48	8.25			
MCMA	02	1546E	1627D	1553	N26	W35	.738	8704	28.0	41D	1B	C	1553	1.19	2.10			FHK
CAPF	02	1555E	1615D		N29	W36	.768	8704	28.0	20D	2N	V	1557	3.53	5.47			H
GRP 3818	02	1553	1608	1557	N14	E35	.652	8714	5.3	15	1-	C		.20				1 1 1
HOUS	02	1553	1608	1557	N14	E35	.652	8714	5.3	15	-N	C		.20	.30		200	
GRP 3819	02	1607	1633	1614	N15	W10	.412	8707	1.9	26	1-			1.15				6 6 6
SACP	02	1606	1633	1613	N15	W10	.412	8707	1.9	27	-N	C		1.36	1.37			
HOUS	02	1606	1638	1611	N16	W12	.440	8707	1.8	32	-N	C		.50	.60		200	E
CAPF	02	1607	1615D		N16	W10	.427	8707	1.9	8D	-N	V	1611	1.76	1.96			
CAPS	02	1607	1620D		N13	W10	.383	8707	1.9	13D	1N	2	1614	2.00	2.10		164	E
MCMA	02	1607	1634	1610	N16	W07	.411	8707	2.1	27	-N	C	1610	.83	.90			E
LOCK	02	1620E	1625	1620E	N16	W12	.440	8707	1.8	5D	-F	C	1620	.90	1.00		10	
GRP 3820	02	1617	1625	1619	N15	E42	.734	8714	5.8	8	1-	C		.43				1 1 1
MCMA	02	1617	1625	1619	N15	E42	.734	8714	5.8	8	-N	C	1619	.31	.50			D
GRP 3821	02	1628	1702	1636	N28	W38	.776	8704	27.8	34	1-	C		1.00				5 4 4
SACP	02	1626	1703	1635	N27	W36	.753	8704	28.0	37	-N	C		1.08	1.34			
MCMA	02	1627	1650D	1633	N28	W40	.791	8704	27.7	23D								
HOUS	02	1628	1707	1643	N30	W36	.775	8704	28.0	39	-N	C		.50	.80		200	I
LOCK	02	1630	1655	1633	N26	W42	.794	8704	27.5	25	-N	C	1633	2.00	3.30			
HUAN	02	1633E	1703		N28	W38	.776	8704	27.8	30D	-N	1	1650	.50	.61			D
GRP 3822	02	1658	1722	1708	N20	W51	.839	8704	26.9	24	1-	C		.36				2 2 2
HOUS	02	1651	1726	1708	N18	W45	.778	8704	27.3	35	-N	C		.30	.60		200	
HUAN	02	1705	1718		N21	W56	.881	8704	26.5	13	-F	1	1710	.52	.77			E
GRP 3823	02	1708	1713	1709	N13	E50	.805	8714	6.5	5	1-	C		.10				1 1 1
HOUS	02	1708	1713	1709	N13	E50	.805	8714	6.5	5	-B	C		.10	.20		300	V
GRP 3824	02	1716	1741	1722	N13	E47	.776	8714	6.2	25	1-			.80				4 4 3
SACP	02	1715	1745	1724	N12	E42	.719	8714	5.9	30	-N	C		1.62	1.92			
HUAN	02	1716	1727	1719	N10	E49	.785	8714	6.4	11	-F	1	1719	.25	.32			D
HOUS	02	1716	1759	1723	N18	E48	.804	8714	6.3	43	-N	C		.20	.30		200	
LOCK	02	1717	1731	1722	N11	E48	.779	8714	6.3	14	-F	C	1722	.70	1.10			
GRP 3825	02	1721	1751	1728	N23	W42	.777	8704	27.6	30	1-	C		.35				3 3 3
HOUS	02	1713	1816	1728	N24	W41	.774	8704	27.6	63	-N	C		.20	.30		200	
LOCK	02	1725	1740	1728	N22	W42	.771	8704	27.6	15	-F	C	1728	.60	1.00			
HUAN	02	1726	1738	1728	N24	W42	.783	8704	27.6	12	-F	2	1728	.25	.32			D
GRP 3826	02	1858	1912	1905	N45	W09	.797	8712	2.1	14	1-	C		.20				1 1 1
HOUS	02	1858	1912	1905	N45	W09	.797	8712	2.1	14	-N	C		.20	.30		200	
GRP 3827	02	1946	2000	1950	N22	E82	.997	8715	9.0	14	1-	C		.25				1 1 1
LOCK	02	1946	2000	1950	N22	E82	.997	8715	9.0	14	-F	C	1950	.30	1.00		10	H
GRP 3828	02	1949	2010	2001	N14	E37	.674	8714	5.6	21	1-	C		.51				2 2 2
HALE	02	1948	2009	1958U	N13	E36	.657	8714	5.5	21	-N	1	1958	.31	.40			
SACP	02	1949	2010	2003	N14	E37	.674	8714	5.6	21	-F	C		.72	.83			
GRP 3829	02	2000	2016	2005	S17	E90	.999	8716	9.6	16	1-			.16				1 1 1
LOCK	02	2000	2016	2005	S17	E90	.999	8716	9.6	16	-F	C	2005	.20	.80		10	
GRP 3830	02	2057	2126	2105	S19	E90	.999	8716	9.6	29	1-	C		.49				2 2 2
LOCK	02	2055	2145	2105	S18	E90	.999	8716	9.6	50	1N	C	2105	.90	3.60		20	
HUAN	02	2058	2106		S19	E90	.999	8716	9.6	8	-F	1	2103	.25				D
GRP 3831	02	2057	2128	2111	N15	E33	.637	8714	5.3	31	1-	C		.76				4 4 4
SACP	02	2052	2136	2112	N15	E34	.648	8714	5.4	44	1-	C		1.46	1.63			
HUAN	02	2055E	2127		N14	E34	.641	8714	5.4	32D	-N	1	2110	.57	.63			E
HALE	02	2057	2112D	2110	N15	E33	.637	8714	5.3	15D	1-	1	2110	.67	.90			
LOCK	02	2105	2122	2110	N17	E32	.641	8714	5.3	17	-F	C	2110	.40	.50		10	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %	
					LAT.	MER. DIST.													
	1967																		
	MAR																		
GRP 3832	02	2107	2123	2113	N29	W50	.868	8704	27.1	16	1-					3 3 3			
SACP	02	2104	2126	2113	N27	W45	.823	8704	27.5	22	-N								
LOCK	02	2109	2120	2114	N33	W58	.928	8704	26.5	11	-F	C	2114	.40	.74		10		
HUAN	02	2109	2123	2112	N27	W46	.831	8704	27.4	14	-N	1	C	2112	.31	.42		D	
GRP 3833	02	2155	2210	2200	N33	W60	.938	8704	26.4	15	1-						1 1 1		
LOCK	02	2155	2210	2200	N33	W60	.938	8704	26.4	15	-F	C	2200	.30	.70		10		
GRP 3834	02	2330	2350	2335	S18	E90	.999	8716	9.7	20	1-						1 1 1		
LOCK	02	2330	2350	2335	S18	E90	.999	8716	9.7	20	-F	C	2335	.30	1.20		10		
GRP 3835	02	2355	0032		N15	E32	.626	8714	5.4	37	1-						1 1 1		
IKOM	02	2355	0032D		N15	E32	.626	8714	5.4	37D	-N	V	0025	.83	1.10		110	EO	
GRP 3836	02	2357	0002	0001	N24	W45	.808	8704	27.6	5	1-						2 2 2		
LOCK	02	2356	0003D	0003	N25	W47	.828	8704	27.5	7D	-N						20		
HALE	02	2357	0001D	2359	N25	W43	.797	8704	27.8	4D	-B	1	P	0003	1.00	1.80		E	
GRP 3837	02	0001	0027	0003	N22	W55	.877	8704	26.9	26	1-							2 2 2	
MANI	02	2356E	0023	2359	N22	W53	.862	8704	27.0	27D	1N	2	P	2359	1.86	3.38		F	
HALE	02	2405E	0030	0007	N21	W57	.888	8704	26.7	25D	-N	1	P	0007	.52	1.10		F	
GRP 3838	03	0028	0045	0033	S24	E29	.537	8711	5.2	17	1-							1 1 1	
HALE	03	0028E	0045	0033	S24	E29	.537	8711	5.2	17D	-N	1	P	0033	.21	.21		F	
GRP 3839	03	0059	0114	0103	N15	E31	.615	8714	5.4	15	1-							2 2 2	
HALE	03	0057	0121	0103	N14	E30	.596	8714	5.3	24	-N	2	C	0103	1.13	1.40		F	
MITK	03	0100	0106	0103	N15	E31	.615	8714	5.4	6	-N							1 1 1	
GRP 3840	03	0100	0125	0101	S17	E39	.633	8711	6.0	25	1-							1 1 1	
HALE	03	0100	0125	0101	S17	E39	.633	8711	6.0	25	-F	2	C	0101	.93	1.20		F	
GRP 3841	03	0110	0135	0115	S21	E27	.492	8711	5.1	25	1-							1 1 1	
HALE	03	0110	0135	0115	S21	E27	.492	8711	5.1	25	-F	2	C	0115	.83	.90		F	
GRP 3842	03	0115	0134	0119	N17	W15	.476	8707	1.9	19	1-							2 2 2	
HALE	03	0114	0136	0119	N16	W14	.455	8707	2.0	22	-N	1	C	0119	.72	.80		F	
MITK	03	0115	0132	0119	N18	W15	.489	8707	1.9	17	-F								E
GRP 3843	03	0204	0304	0247	N13	E33	.623	8714	5.6	60	1-							1 1 1	
HALE	03	0204	0304D	0247	N13	E33	.623	8714	5.6	60D	-N	1	P	0247	1.00	1.10		F	
GRP 3844	03	0259	0334	0312	S24	E29	.537	8711	5.3	35	1-							3 3 3	
HALE	03	0253	0345	0316	S23	E26	.493	8711	5.1	52	-N	2	P	0316	.93	1.10		F	
MITK	03	0305	0323	0307	S25	E29	.543	8711	5.3	18	1N							F	
IKOM	03	0307E	0317D		S24	E31	.561	8711	5.5	10D	-N							120	
GRP 3845	03	0315	0403	0340	N24	E78	.991	8715	9.0	48	1-							1 1 1	
HALE	03	0315E	0403	0340	N24	E78	.991	8715	9.0	48D	-N	2	P	0340	.21	.25		F	
GRP 3846	03	0330	0350	0335	N25	W50	.851	8704	27.4	20	1-							1 1 1	
HALE	03	0330	0350	0335	N25	W50	.851	8704	27.4	20	-N	2	C	0335	.57	1.10		F	
GRP 3847	03	0406	0422	0415	S23	E26	.493	8711	5.1	16	1-							1 1 1	
HALE	03	0406	0422D	0415	S23	E26	.493	8711	5.1	16D	-N	2	P	0415	.83	1.00		F	
GRP 3848	03	0505	0530	0508	N26	W49	.848	8704	27.5	25	1-							1 1 1	
CRON	03	0505	0530	0508	N26	W49	.848	8704	27.5	25	1F							100	
GRP 3849	03	0627	0656	0631	N23	W49	.835	8704	27.6	29	1+							7 7 7	
ATHN	03	0621E	0656D	0632	N25	W46	.821	8704	27.8	35D	1B	2	C	0632	2.31	3.90		2.00	
CRON	03	0625	0657U	0630	N23	W49	.835	8704	27.6	32U	1N							200	
IKOM	03	0625E	0700D	0629	N24	W48	.832	8704	27.7	35D	2B							140	
MITK	03	0629	0638	0630	N23	W49	.835	8704	27.6	9	1B							2.40	
SIBE	03	0629E	0654D	0629	N24	W49	.840	8704	27.6	25D	1N							110	
TACH	03	0630	0646	0630	N21	W50	.835	8704	27.5	16	-N							69	
MANI	03	0630E	0724	0637	N21	W50	.835	8704	27.5	54D	1N	1						2.70	
GRP 3850	03	0730	0848	0820	S20	E90	.999	8716	10.1	78	1-							2 2 1	
CATA	03	0730E	0900D	0820	S20	E90	.999	8716	10.1	90D	1B							204	
MONT	03	0815	0835		S19	E90	.999	8716	10.1	20	-N							0	
GRP 3851	03	0839	0845		N23	E85	1.000	8715	9.7	6	1-							1 1 1	
ARCE	03	0839E	0845D		N23	E85	1.000	8715	9.7	6D	1N							0	
GRP 3852	03	0901	0932	0904	N17	W19	.510	8707	2.0	31	1-							5 5 5	
MONT	03	0900	0940	0903	N18	W20	.531	8707	1.9	40	-B							0	
CAPS	03	0901E	0928		N15	W17	.468	8707	2.1	27D	1N	3						200	
ARCE	03	0902	0919	0903	N18	W18	.513	8707	2.0	17	1N								
CATA	03	0902E	0945D	0905	N16	W20	.508	8707	1.9	43D	1B							309	
MANI	03	0905E	0929D		N16	W18	.489	8707	2.0	24D	1B	1							
GRP 3853	03	0907	1002	0922	N17	W22	.538	8707	1.7	55	1-							5 5 4	
ARCE	03	0902	1000D	0922	N16	W25	.558	8707	1.5	58D	-N							Z	
CAPF	03	0911	0952D		N16	W20	.508	8707	1.9	41D	1N								
HERS	03	0920E	0925D		N16	W22	.528	8707	1.7	5D	-N								
UCCL	03	0927E	0938D		N19	W20	.542	8707	1.9	11D	1N								
ZURI	03	0918E	1002		N16	W21	.518	8707	1.8	44D	1N								

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1967																	
	MAR																	
GRP 3854	03 0944	1004	0949	S22 E24	.461	8711	5.2	20	1-					1.86			7 7 7	
CAPP	03 0940	1000D		S22 E24	.461	8711	5.2	20D	1N	V	0946	2.94	3.28					
MONT	03 0943	1020	0950	S20 E20	.394	8711	4.9	37	-N	C	0950	1.03					OE	
MEUD	03 0945	1000	0948	S20 E23	.433	8711	5.1	15	-N	C	0948	1.34	1.50				E	
ARCE	03 0945	1000D		S24 E25	.488	8711	5.3	15D	1N	C	0949	2.77	3.20				F	
ZURI	03 0945	1002	0950	S22 E25	.473	8711	5.3	17	1N	P	0950	3.36	3.90				E	
UCCL	03 0946	0951D	0947	S24 E24	.477	8711	5.2	5D	1N	P	0947	2.32	3.00				E	
CAPS	03 0952E	1002		S22 E26	.486	8711	5.4	10D	1F	2	0954	2.20	2.50			152	E	
GRP 3855	03 1044	1055	1046	N22 W50	.839	8704	27.7	11	1-			.59					1 1 1	
MEUD	03 1044	1055	1046	N22 W50	.839	8704	27.7	11	-N	C	1046	.72	1.30					
GRP 3856	03 1135	1143		N27 W54	.887	8704	27.4	8	1-			1.03					1 1 1	
MONT	03 1135	1143		N27 W54	.887	8704	27.4	8	-F	C	1138	1.03					0	
GRP 3857	03 1140	1146	1142	S15 W21	.375	8706	1.9	6	1-			.39					1 1 1	
ATHN	03 1140	1146	1142	S15 W21	.375	8706	1.9	6	-F	2	1142	.39	.40	1.30				
GRP 3858	03 1240	1300		S20 E88	.997	8716	10.1	20	1-			.32					2 2 1	
MEUD	03 1240	1242D		S20 E85	.992	8716	9.9	2D	-N	C	1242	.41						
MONT	03 1240	1300		S19 E90	.999	8716	10.3	20	-N	C								
GRP 3859	03 1431	1435		S24 E23	.465	8711	5.3	4	1-			.31					1 1 1	
MONT	03 1431	1435D		S24 E23	.465	8711	5.3	4D	-F	C	1432	.31					0	
GRP 3860	03 1454	1501	1455	N16 W23	.538	8707	1.9	7	1-			.33					1 1 1	
ATHN	03 1454	1501	1455	N16 W23	.538	8707	1.9	7	-N	1	1455	.33	.40	1.50				
GRP 3861	03 1530	1546	1534	N22 W66	.945	8704	26.7	16	1-			1.04					5 5 4	
HOUS	03 1435	1554	1531	N23 W68	.956	8704	26.5	79	-F	C		.20	.50		100		I	
MCMA	03 1527	1539	1535	N21 W66	.943	8704	26.7	12	-N	C	1535	.62	1.80				E	
SACP	03 1528	1543	1535	N21 W66	.943	8704	26.7	15	1N	C		1.26	2.44					
ATHN	03 1530E	1547	1530	N22 W69	.959	8704	26.5	17D	1N	1	1530	1.32		1.70				
ZURI	03 1534	1546	1538	N21 W59	.902	8704	27.2	12	-N	C	1538	1.05	2.20					
GRP 3862	03 1636	1651	1641	N21 W67	.949	8704	26.7	15	1-			.50					1 1 1	
SACP	03 1636	1651	1641	N21 W67	.949	8704	26.7	15	-N	C		.55	1.08					
GRP 3863	03 1658	1712	1704	N28 W58	.914	8704	27.4	14	1-			1.34					2 2 2	
SACP	03 1658	1712	1704	N28 W58	.914	8704	27.4	14	1-	C		1.91	3.22					
MCMA	03 1705E	1708D		N28 W58	.914	8704	27.4	3D	-B	C	1705	.62	1.60				EH	
GRP 3864	03 1733	1744	1735	S24 E82	.984	8716	9.9	11	1-			.73					1 1 1	
SACP	03 1733	1744	1735	S24 E82	.984	8716	9.9	11	-F	C		.81						
GRP 3865	03 1742	1800	1748	N20 W69	.957	8704	26.6	18	1-			.68					4 4 3	
SACP	03 1740	1756	1747	N21 W67	.949	8704	26.7	16	1N	C		1.08	2.12					
MCMA	03 1743	1757	1748	N21 W75	.981	8704	26.1	14	-N	C	1748						E	
HALE	03 1745E	1809	1749	N19 W64	.929	8704	26.9	24D	-N	2	1749	.62						
HUAN	03 1749E	1756		N20 W69	.957	8704	26.6	7D	-F	1	1750	.45					D	
GRP 3866	03 1751	1808	1754	N24 E68	.958	8715	8.8	17	1-			.37					1 1 1	
HALE	03 1751	1808	1754	N24 E68	.958	8715	8.8	17	-N	2	1754	.31					F	
GRP 3867	03 1755	1811	1804	S20 E78	.972	8716	9.6	16	1-			.65					2 2 1	
SACP	03 1755	1806	1759	S20 E78	.972	8716	9.6	11	-F	C		.72	1.68					
MCMA	03 1755	1815	1808	S20 E78	.972	8716	9.6	20	1N	C	1808						E	
GRP 3868	03 1830	1837	1833	N22 W72	.972	8704	26.4	7	1-			.52					3 3 2	
SACP	03 1829	1836	1832	N22 W69	.959	8704	26.6	7	-N	C		.91	1.92					
MCMA	03 1830	1838	1833	N21 W75	.981	8704	26.1	8	-N	C	1833						D	
HUAN	03 1833E	1835D		N24 W71	.970	8704	26.4	2D	-N	1	1833	.31					D	
GRP 3869	03 1912	1928	1920	N25 E64	.940	8715	8.6	16	1-			.43					1 1 1	
HALE	03 1912E	1928D	1920U	N25 E64	.940	8715	8.6	16D	-N	1	1920	.36						
GRP 3870	03 1919	1943	1925	N22 W60	.911	8704	27.3	24	1-			.39					3 3 3	
HUAN	03 1925	1936		N20 W70	.961	8704	26.6	11	-F	1	1930	.31					D	
HOUS	03 1926E	1949	1931	N23 W62	.925	8704	27.2	23D	-N	C		.70	1.80		200		I	
HALE	03 1912	1928D	1918	N24 W49	.840	8704	28.1	16D	-N	1	1918	.21	.40					
GRP 3871	03 1926	2007	1936	N16 W29	.601	8707	1.6	41	1-			.20					1 1 1	
HOUS	03 1926E	2007	1936	N16 W29	.601	8707	1.6	41D	-N	C		.20	.30		200			
GRP 3872	03 1934	2006	1947	N17 W28	.599	8707	1.7	32	1-			.20					1 1 1	
HOUS	03 1934	2006	1947	N17 W28	.599	8707	1.7	32	-N	C		.20	.30		200		K	
GRP 3873	03 1957	2007	2001	N20 W72	.970	8704	26.4	10	1-			.73					3 3 2	
HOUS	03 1954	2006	2002	N21 W71	.967	8704	26.5	12	-F	C		.40	1.10		100			
MCMA	03 1958	2007	2000	N20 W78	.989	8704	26.0	9	-F	C	2000						E	
SACP	03 1958	2009	2000	N19 W67	.946	8704	26.8	11	1N	C		1.18	2.31					
GRP 3874	03 2009	2050	2036	S19 E80	.979	8716	9.8	41	1-			.20					1 1 1	
HOUS	03 2009	2050	2036	S19 E80	.979	8716	9.8	41	-N	C		.20	.60		200			
GRP 3875	03 2013	2027	2015	N17 W28	.599	8707	1.7	14	1-			.20					1 1 1	
HOUS	03 2013	2027	2015	N17 W28	.599	8707	1.7	14	-N	C		.20	.30		200		K	
GRP 3876	03 2016	2050	2037	N15 W31	.615	8707	1.5	34	1-			.60					1 1 1	
HOUS	03 2016	2050	2037	N15 W31	.615	8707	1.5	34	-F	C		.60	.80		100			



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	
	1967																	
	MAR																	
GRP 3877	03	2042	2054	2047	N22	W72	.972	8704	26.5	12	1-							4 4 3
HOUS	03	2040	2055	2047	N24	W70	.966	8704	26.6	15	-N							I
CULG	03	2042	2053	2045	N23	W70	.965	8704	26.6	11	1B	C	2045	1.24	.44			
SACP	03	2044	2056	2048	N22	W70	.964	8704	26.6	12	1N	C		1.26	2.76			
MCMA	03	2045E	2053	2047	N20	W78	.989	8704	26.0	8D	-B	C	2047					E
GRP 3878	03	2057	2111	2102	N22	W73	.975	8704	26.4	14	1							3 3 2
CULG	03	2056	2102D	2102	N22	W70	.964	8704	26.6	6D	1B	P	2102	.78	.83			
MCMA	03	2058	2107	2102	N20	W78	.989	8704	26.0	9	-N	C	2102					E
HOUS	03	2058E	2115	2101	N24	W71	.970	8704	26.5	17D	1N	C		.80	2.30			200
GRP 3879	03	2106	2115	2110	S21	E73	.949	8716	9.4	9	1-			.74				2 2 2
HOUS	03	2103	2116	2109	S21	E71	.938	8716	9.2	13	-N	C		.40	1.00			200
SACP	03	2108	2114	2110	S20	E75	.959	8716	9.5	6	1N	C		1.19	2.48			
GRP 3880	03	2112	2126	2117	S27	W05	.347	8709	3.5	14	1-			.57				3 3 3
HOUS	03	2111	2127D	2118	S27	W06	.351	8709	3.4	16D	-F	C		.40	.40			100
HALE	03	2112	2117D	2117U	S26	W04	.328	8709	3.6	5D	-N	1 P	2117	.62	.70			
SACP	03	2112	2125	2116	S27	W05	.347	8709	3.5	13	-F	C		.63	.62			
GRP 3881	03	2131	2156	2143	S19	E77	.968	8716	9.7	25	1-			.28				1 1 1
CULG	03	2131	2156D	2143	S19	E77	.968	8716	9.7	25D	-N	P	2143	.31				
GRP 3882	03	2132	2154	2143	N20	W67	.947	8704	26.9	22	1-			1.22				4 4 4
CULG	03	2122E	2156D	2141	N19	W68	.951	8704	26.8	34D	1B	P	2141	1.96	1.13			
HUAN	03	2137E	2150D		N20	W70	.961	8704	26.7	13D	-B	1 P	2141	1.20				E
SACP	03	2138	2148	2142	N19	W68	.951	8704	26.8	10	1N	C		1.64	3.31			
HALE	03	2142E	2202D	2145U	N20	W62	.919	8704	27.3	20D	-B	1 P	2145	.72				
GRP 3883	03	2146	2225	2216	S24	E18	.408	8711	5.3	39	1-			.69				2 2 2
HALE	03	2146	2228D	2215	S24	E18	.408	8711	5.3	42D	-N	1 P	2215	.67	.70			F
SACP	03	2212	2222	2216	S24	E18	.408	8711	5.3	10	-F	C		.64	.63			
GRP 3884	03	2154	2228	2222	N25	E62	.929	8715	8.6	34	1-			.49				1 1 1
HALE	03	2154	2228D	2222	N25	E62	.929	8715	8.6	34D	-N	1 P	2222	.41				F
GRP 3885	03	2300	2314	2303	N16	W21	.518	8707	2.4	14	1-			1.13				1 1 1
SACP	03	2300	2314	2303	N16	W21	.518	8707	2.4	14	-N	C		1.26	1.31			
GRP 3886	03	2301	2325	2307	S20	E73	.949	8716	9.4	24	1-			.50				1 1 1
SACP	03	2301	2325	2307	S20	E73	.949	8716	9.4	24	-N	C		.55	1.09			
GRP 3887	03	2303	2323	2309	N23	W72	.972	8704	26.6	20	1-			1.82				1 1 1
SACP	03	2303	2323	2309	N23	W72	.972	8704	26.6	20	1N	C		2.02	4.66			
GRP 3888	03	2338	2353	2342	S19	E75	.959	8716	9.6	15	1-			.37				2 2 2
SACP	03	2338	2353	2342	S20	E74	.954	8716	9.5	15	-N	C		.45	.93			
MANI	03	2346E	2353		S18	E75	.959	8716	9.6	7D	-F	2	2348	.41	.98			
GRP 3889	03	2350	0001	2354	S21	E20	.402	8711	5.5	11	1-			.47				1 1 1
CULG	03	2350	0001	2354	S21	E20	.402	8711	5.5	11	-N	C	2354	.52	.55			
GRP 3890	04	0008	0035	0012	S20	E75	.959	8716	9.6	27	1-			.60				2 2 2
SACP	04	0007	0042	0011	S20	E73	.949	8716	9.5	35	-N	C		.91	1.78			
CULG	04	0008	0027	0012	S20	E76	.963	8716	9.7	19	-N	C	0012	.41				
GRP 3891	04	0038	0039	0038	N18	W75	.979	8704	26.4	1	1-			.31				1 1 1
HALE	04	0038	0039	0038	N18	W75	.979	8704	26.4	1	-N	1 C	0038	.26				
GRP 3892	04	0045	0116	0050	N13	E21	.486	8714	5.6	31	1-			1.04				2 2 2
CULG	04	0043	0110	0050	N12	E22	.487	8714	5.7	27	-N	C	0050	1.55	1.73			
HALE	04	0047	0122	0049	N13	E19	.464	8714	5.5	35	-B	2 C	0049	.57	.60			E
GRP 3893	04	0048	0135	0056	S23	W53	.801	8706	28.1	47	1-			.56				2 2 2
HALE	04	0043	0202	0057	S23	W53	.801	8706	28.1	79	-F	2 C	0057	.31	.50			CG
CULG	04	0052	0108	0055	S23	W53	.801	8706	28.1	16	-N	C	0055	.83	1.36			CF
GRP 3894	04	0048	0049		N17	W24	.558	8707	2.2	1	1-			.75				1 1 1
MANI	04	0048E	0049D		N17	W24	.558	8707	2.2	1D	-F	1		.83	1.11			
GRP 3895	04	0059	0200	0128	S19	E74	.954	8716	9.6	61	1-			.59				2 2 2
MANI	04	0124	0200	0128	S18	E72	.944	8716	9.5	36	-N	1	0128	.83	1.79			
HALE	04	0034E	0136D		S20	E75	.959	8716	9.6	62D	-B	2 P	0034	.41				F
GRP 3896	04	0100	0127	0107	N24	W70	.966	8704	26.8	27	1-			.30				2 2 2
MANI	04	0124E	0128		N22	W69	.959	8704	26.9	4D	-N	1	0125	.15	.35			
HALE	04	0100	0126	0107	N25	W71	.971	8704	26.7	26	-N	1 C	0107	.41				F
GRP 3897	04	0122	0131	0125	N24	W59	.910	8704	27.6	9	1-			.41				2 2 2
CULG	04	0121	0131	0125	N24	W59	.910	8704	27.6	10	-N	C	0125	.62				
HALE	04	0123	0130	0125	N23	W58	.901	8704	27.7	7	-B	1 C	0125	.21	.50			
GRP 3898	04	0135	0200	0137	N21	W70	.962	8704	26.8	25	1-			.88				1 1 1
MANI	04	0135E	0200	0137	N21	W70	.962	8704	26.8	25D	1F	1	0137	1.03	2.35			
GRP 3899	04	0218	0244	0229	S22	E13	.332	8711	5.1	26	1-			1.50				2 2 1
CULG	04	0217	0244	0229	S22	E14	.342	8711	5.1	27	-N	C	0229	1.65	1.68			
HALE	04	0219	0223D		S21	E12	.309	8711	5.0	4D	-N	1 P	0221	.15	.20			
GRP 3900	04	0218	0232	0222	N23	W62	.925	8704	27.4	14	1-			.71				2 2 2
HALE	04	0219	0223D		N21	W64	.933	8704	27.3	4D	-N	1 P	0222	.56	.40			
CULG	04	0216	0232	0222	N24	W60	.916	8704	27.6	16	-N	C	0222	.83				
GRP 3901	04	0251	0300	0254	S20	E07	.250	8711	4.6	9	1-			.37				1 1 1
CULG	04	0251	0300	0254	S20	E07	.250	8711	4.6	9	-F	C	0254	.41	.40			





# SOLAR FLARES

REVISED

MARCH 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 $\alpha$		MAX. INT. %
GRP 3922	04	1213	1224	1213	N28	E66	.955	8715	9.5	11	1-							1 1 1
ATHN	04	1213E	1224	1213	N28	E66	.955	8715	9.5	11D	-B	2	1213	.66		2.00		
GRP 3923	04	1243	1300	1246	S20	E72	.944	8716	9.9	17	1			.68				2 2 2
MONT	04	1240	1310	1247	S20	E75	.959	8716	10.2	30	1N	C	1247	1.03				0
MEUD	04	1245	1249	1245	S20	E69	.926	8716	9.7	4	-N	C	1245	.41				D
GRP 3924	04	1305	1335	1307	N15	E31	.615	8714	6.9	30	1-			1.32				1 1 1
ATHN	04	1305	1335	1307	N15	E31	.615	8714	6.9	30	-N	2	1314	1.32	1.40	1.50		
GRP 3925	04	1308	1316		N17	W38	.703	8707	1.7	8	1-			.83				1 1 1
MONT	04	1308	1316		N17	W38	.703	8707	1.7	8	-N	C	1311	.83				0
GRP 3926	04	1313	1333	1319	N14	E12	.412	8714	5.5	20	1-			1.01				5 5 5
CAPS	04	1306	1332		N14	E14	.429	8714	5.6	26	-N	3	1320	1.60	1.80		182	
MCHA	04	1314E	1328		N15	E11	.419	8714	5.4	14D	-N	C	1322	.41	.42			E
MEUD	04	1316	1328	1317	N14	E12	.412	8714	5.5	12	-F	C	1317	.72	.80			
LOCA	04	1321E	1452	1321	N14	E11	.405	8714	5.4	91D	-N	V	1321	.63	.70			
WEND	04	1314	1342		N14	E12	.412	8714	5.5	28	1N	V		4.13				
GRP 3927	04	1321	1401	1328	S18	E69	.926	8716	9.7	40	1			1.31				7 6 6
ATHN	04	1320	1358	1325	S18	E71	.938	8716	9.9	38	1B	2	1325	1.32		2.00		
MCHA	04	1321	1341D	1327	S17	E66	.906	8716	9.5	20D	-B	C	1327	.72	1.70			E
MEUD	04	1321	1345	1326	S19	E68	.920	8716	9.7	24	-N	C	1326	1.34				E
CAPS	04	1322E	1352		S16	E67	.913	8716	9.6	30D	1B	3	1326	2.00				C
MONT	04	1322	1358	1328	S20	E74	.954	8716	10.1	36	1B	C	1328	1.24				0
LOCA	04	1324	1410	1333	S17	E67	.913	8716	9.6	46	1N	V	1333	1.05				
WEND	04	1320	1420		S18	E68	.920	8716	9.7	60	2B	V		12.38				
GRP 3928	04	1336	1352		N17	W36	.683	8707	1.9	16	1-			.81				3 3 3
MONT	04	1340	1347		N17	W37	.693	8707	1.8	7	-N	C	1344	.41				0
HUAN	04	1345E	1352D		N17	W36	.683	8707	1.9	7D	-F	1	1345	.90	1.01			
WEND	04	1332	1357		N16	W34	.655	8707	2.0	25	1F	V		3.09				
GRP 3929	04	1426	1502	1430	N21	W79	.991	8704	26.7	36	1			.94				6 5 4
SACP	04	1424	1510	1427	N20	W79	.991	8704	26.7	46	1N	C		1.63				
MONT	04	1425	1430D		N26	W63	.937	8704	27.9	5D	-N	C	1428	.52				0
AROS	04	1428	1448D	1432	N20	W80	.993	8704	26.6	20D	1N	P	1430	.93				
LOCA	04	1428	1450	1430	N20	W81	.995	8704	26.5	22	1N	V	1430	.85				H
WEND	04	1425	1500		N22	W80	.994	8704	26.6	35	2N	V		8.25				
HUAN	04	1446	1507		N20	W88	1.000	8704	26.0	21	-F	1	1455	.50				D
GRP 3930	04	1450	1502	1452	S21	E69	.926	8716	9.8	12	1-	C		.69				5 4 4
MEUD	04	1449	1458	1451	S21	E68	.920	8716	9.7	9	-N	C	1451	.62				D
HUAN	04	1450	1457		S22	E70	.932	8716	9.9	7	-N	1	1452	.31				D
LOCA	04	1452	1455	1453	S23	E71	.938	8716	9.9	3	-N	V	1453	.53				
SACP	04	1355E	1518U	1402E	S19	E68	.920	8716	9.7	83U	1F	C		1.66	2.86			
MONT	04	1421	1430D		S20	E74	.954	8716	10.1	9D	1N	C	1425	1.03				0
GRP 3931	04	1643	1646		N20	W88	1.000	8704	26.1	3	1			.33				1 1 1
HUAN	04	1643	1646D		N20	W88	1.000	8704	26.1	3D	-F	1	1644	.52				D
GRP 3932	04	1651	1702		S23	E10	.317	8711	5.5	11	1-			.41				1 1 1
HUAN	04	1651E	1702D		S23	E10	.317	8711	5.5	11D	-F	1	1652	.45	.45			E
GRP 3933	04	1657	1706	1700	N23	W85	1.000	8704	26.3	9	1-			.47				2 2 2
SACP	04	1656	1706	1700	N23	W82	.997	8704	26.6	10	1N	C		.81				
HUAN	04	1657	1702D		N23	W88	1.000	8704	26.1	5D	-F	1	1658	.31				0
GRP 3934	04	1716	1734	1717	N24	W68	.958	8704	27.6	18	1+			1.32				2 2 2
SACP	04	1715	1734	1716	N25	W69	.963	8704	27.5	19	1B	C		1.54	3.28			
HALE	04	1717	1734	1718	N23	W67	.952	8704	27.7	17	1B	5	1718	1.03				
GRP 3935	04	1738	1750	1739	N10	E15	.388	8714	5.9	12	1-			.12				1 1 1
HALE	04	1738	1750	1739	N10	E15	.388	8714	5.9	12	-N	3	1739	.10	.11			D
GRP 3936	04	1910	1956	1921	S22	E06	.273	8711	5.2	46	1+			4.51				3 3 3
LOCK	04	1906	1955	1923	S21	E08	.272	8711	5.4	49	1N	C	1923	4.00	4.40		20	
HALE	04	1911	2000	1918	S23	F05	.284	8711	5.2	49	-B	2	1918	1.75	1.80			F
SACP	04	1913	1952	1922	S23	F05	.284	8711	5.2	39	2N	C		7.18	7.06			
GRP 3937	04	1923	1926	1924	N16	E09	.421	8714	5.5	3	1-			.18				1 1 1
HALE	04	1923	1926	1924	N16	E09	.421	8714	5.5	3	-N	2	1924	.15	.20			
GRP 3938	04	2103	2128	2108	S24	F03	.292	8711	5.1	25	2-			4.79				3 3 3
SACP	04	2102	2126	2107	S25	F03	.309	8711	5.1	24	1B	C		4.64	4.57			
CULG	04	2102	2127	2108	S25	F03	.309	8711	5.1	25	2B	C	2108	8.25	8.40			H
HALE	04	2104	2130	2108	S23	F02	.274	8711	5.0	26	1B	2	2108	2.06	2.10			
GRP 3939	04	2245	2305	2250	N15	W42	.734	8707	1.8	20	1-			.84				2 2 2
CULG	04	2244	2307	2253	N16	W42	.739	8707	1.8	23	-N	C	2253	1.03	1.50			
HALE	04	2245	2302	2247	N14	W41	.718	8707	1.9	17	-F	2	2247	.62	.90			
GRP 3940	04	2308	2316	2311	S23	F01	.272	8711	5.0	8	1-			.75				1 1 1
CULG	04	2308	2316	2311	S23	F01	.272	8711	5.0	8	-N	C	2311	.83	.84			
GRP 3941	04	2312	2338	2327	N35	W65	.963	8704	28.1	26	1-			.37				2 2 2
CULG	04	2308	2339D	2328	N35	W64	.959	8704	28.2	31D	-N	P	2328	.62				
HALE	04	2316	2337	2325	N34	W65	.961	8704	28.1	21	-N	1	2325	.15				6



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# SOLAR FLARES

REVISED

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OBSERV- ATORY	OBSERVED UT				LOCATION				DURA- TION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH H $\alpha$	MAX. INT. %
					LAT.	MER. DIST.												
	1967 MAR																	
GRP 3962	05	1126	1157		N23	W90	1.001	8704	26.7	31	1-					1 1 0		
MONT	05	1126	1157D		N23	W90	1.001	8704	26.7	31D	-B							
GRP 3963	05	1155	1203	1155	N22	E41	.763	8715	8.6	8	1-		.66	1.00	1.70	1 1 1		
ATHN	05	1155E	1203	1155	N22	E41	.763	8715	8.6	8D	-N	1	1155	.66	1.00	1.70		
GRP 3964	05	1303	1317	1305	N12	E07	.350	8714	6.1	14	1-			.33		1 1 1		
ATHN	05	1303	1317	1305	N12	E07	.350	8714	6.1	14	-N	1	1305	.33	.40	1.60		
GRP 3965	05	1335	1350	1337	S20	W05	.236	8711	5.2	15	1-			.99		1 1 1		
ATHN	05	1335	1350	1337	S20	W05	.236	8711	5.2	15	-N	1	1337	.99	1.10	1.70		
GRP 3966	05	1437	1444	1441	S26	E60	.865	8716	10.1	7	1-			.50		1 1 1		
ATHN	05	1437	1444	1441	S26	E60	.865	8716	10.1	7	-B	1	1441	.50	.70	2.00		
GRP 3967	05	1601	1610	1605	N24	W85	1.000	8704	27.3	9	1-			.61		3 3 2		
LOCK	05	1605E	1610	1605U	N21	W85	.999	8704	27.3	5D	-F		C	1605	.40	1.40	10	
CAPP	05	1606E	1610D		N25	W90	1.001	8704	26.9	4D	1N		V	1607	.88			
LOCA	05	1601	1606D		N26	W80	.995	8704	27.7	5D	-N		S				H	
GRP 3968	05	1619	1635	1623	N15	W57	.872	8707	1.4	16	1-			.61		1 1 1		
LOCK	05	1619	1635	1623	N15	W57	.872	8707	1.4	16	-F		C	1623	.60	1.20	10	
GRP 3969	05	1626	1637	1627	S16	E56	.823	8716	9.9	11	1-			.20		1 1 1		
HOUS	05	1626	1637	1627	S16	E56	.823	8716	9.9	11	-N		C		.20	.30	200	
GRP 3970	05	1631	1647	1636	N15	W04	.384	8714	5.4	16	1-			.56		2 2 2		
LOCK	05	1631	1645	1636	N14	W04	.368	8714	5.4	14	-F		C	1636	.80	.90	10	
HOUS	05	1631	1649	1635U	N15	W03	.382	8714	5.5	18	-N		C		.30	.30	200	
GRP 3971	05	1737	1746	1739	N24	E44	.800	8715	9.0	9	1-			.30		1 1 1		
HOUS	05	1737	1746	1739	N24	E44	.800	8715	9.0	9	-N		C		.30	.50	200	
GRP 3972	05	1739	1930	1805	S23	W20	.420	8711	4.2	111	1-			.77		2 2 2		
HALE	05	1739	1930	1822	S22	W19	.399	8711	4.3	111	-B		C	1822	1.03	1.10	200	
HOUS	05	1745	1815D	1747	S23	W20	.420	8711	4.2	30D	-N		C		.30	.30	200	
GRP 3973	05	1744	1802	1747	S23	E53	.801	8716	9.7	18	1-			.29		3 3 3		
HOUS	05	1743	1804	1746	S34	E53	.825	8716	9.7	21	-N		C		.10	.20	200	
LOCK	05	1744	1800	1747	S17	E55	.814	8716	9.9	16	-F		C	1747	.40	.70	10	
HALE	05	1744	1803	1748	S19	E52	.786	8716	9.6	19	-N	2	C	1748	.31	.50		
GRP 3974	05	1800	1815	1813	S34	W20	.537	8709	4.3	15	1-			.30		1 1 1		
HOUS	05	1800	1815D	1813	S34	W20	.537	8709	4.3	15D	-N		C		.30	.30	200	
GRP 3975	05	1911	1921	1914	N25	E41	.780	8715	8.9	10	1-			1.03		2 2 2		
LOCK	05	1910	1921	1913	N26	E40	.778	8715	8.8	11	-N		C	1913	.90	1.40	20	
HALE	05	1912	1921	1914	N23	E41	.769	8715	8.9	9	-B	2	C	1914	.93	1.50		
GRP 3976	05	1920	1927	1920	S19	E52	.786	8716	9.7	7	1-			.25		1 1 1		
HALE	05	1920	1927	1920	S19	E52	.786	8716	9.7	7	-N	2	C	1920	.21	.30		
GRP 3977	05	1936	1938	1937	S23	E55	.820	8716	9.9	2	1-			.74		1 1 1		
HALE	05	1936	1938D	1937	S23	E55	.820	8716	9.9	2D	-N	2	P	1937	.62	1.10		
GRP 3978	05	2027	2049	2032	S17	E52	.784	8716	9.8	22	1-			.48		2 2 2		
LOCK	05	2026	2041	2030	S17	E55	.814	8716	10.0	15	-F		C	2030	.40	.70	10	
HALE	05	2027	2056	2033	S17	E48	.741	8716	9.5	29	-N	2	C	2033	.46	.70		
GRP 3979	05	2103	2117	2107	S19	E53	.796	8716	9.9	14	1-			.54		2 2 2		
CULG	05	2101E	2119	2106	S20	E52	.787	8716	9.8	18D	-N		P	2106	.52	.80		
LOCK	05	2104	2115	2107	S17	E54	.804	8716	9.9	11	-F		C	2107	.60	1.00	10	
GRP 3980	05	2104	2120	2106	N14	W06	.376	8714	5.4	16	1-			.87		3 3 3		
CULG	05	2103	2127	2105	N14	W05	.372	8714	5.5	24	-N		C	2105	.72	.74		
LOCK	05	2104	2116	2106	N14	W07	.380	8714	5.4	12	-N		C	2106	1.00	1.10	20	
HALE	05	2104	2117	2107	N13	W05	.356	8714	5.5	13	-N	1	C	2107	.77	.80		
GRP 3981	05	2133	2145		N25	E42	.789	8715	9.0	12	1-			.48		1 1 1		
HUAN	05	2133	2145		N25	E42	.789	8715	9.0	12	-F	1	C	2135	.55	.70	E	
GRP 3982	05	2138	2146	2140	N23	W88	1.000	8704	27.3	8	1-			.14		1 1 1		
HUAN	05	2138	2146	2140	N23	W88	1.000	8704	27.3	8	-F	2	C	2140	.21		D	
GRP 3983	05	2139	2200	2144	S22	E51	.780	8716	9.7	21	1-			.40		1 1 1		
LOCK	05	2139	2200	2144	S22	E51	.780	8716	9.7	21	-F		C	2144	.40	.60	10	
GRP 3984	05	2211	2224	2213	N25	E41	.780	8715	9.0	13	1-			.50		3 3 3		
LOCK	05	2210	2224	2212	N25	E40	.772	8715	8.9	14	-B		C	2212	.60	1.00	30	
HUAN	05	2211E	2213D		N25	E42	.789	8715	9.1	2D	-N	1	P	2212	.39	.50	D	
HALE	05	2212	2223	2213	N25	E40	.772	8715	8.9	11	-B	2	C	2213	.46	.70		
GRP 3985	05	2232	2237	2233	N21	W85	.999	8704	27.6	5	1-			.16		1 1 1		
LOCK	05	2232	2237	2233	N21	W85	.999	8704	27.6	5	-F		C	2233	.20	.70	10	
GRP 3986	05	2253	2350	2310	N13	W03	.350	8714	5.7	57	1-			.40		1 1 1		
LOCK	05	2253	2350	2310	N13	W03	.350	8714	5.7	57	-F		C	2310	.40	.40	10	
GRP 3987	05	2301	2315	2304	N25	E38	.756	8715	8.8	14	1-			1.03		2 2 2		
LOCK	05	2300	2315	2303	N26	E38	.762	8715	8.8	15	-N		C	2303	.80	1.20	20	
HALE	05	2302	2315	2304	N24	E38	.749	8715	8.8	13	-N	2	C	2304	1.03	1.60	E	
GRP 3988	06	0022	0030	0024	N12	W05	.340	8714	5.6	8	1-			.19		1 1 1		
LOCK	06	0022	0030	0024	N12	W05	.340	8714	5.6	8	-N		C	0024	.20	.20	20	
GRP 3989	06	0106	0121	0108	N16	W28	.590	8704	3.9	15	1-			.18		1 1 1		
HALE	06	0106	0121	0108	N16	W28	.590	8704	3.9	15	-N	2	C	0108	.15	.20	G	



SOLAR FLARES  
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MARCH 1967

OBSERV- ATORY	OBSERVED UT				LOCATION				DURA- TION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
	1967 MAR																	
GRP 4015	06	2207	2213	2208	N13	W05	.356	8714	6.5	6	1-					1 1 1		
HALE	06	2207	2213	2208	N13	W05	.356	8714	6.5	6	-N	2	C	2208	.25	.21		
GRP 4016	06	2255	2305	2300	N21	W03	.476	8714	6.7	10	1-				.39		2 2 2	
HALE	06	2251	2303D		N19	W04	.447	8714	6.7	12D	-N	1	P	2303	.31	.31	6	
HOUS	06	2259	2305	2300	N22	W02	.490	8714	6.8	6	-N		C		.40	.50	200	
GRP 4017	06	2256	0004	2311	N17	E08	.431	8715	7.6	68	1				4.47		4 4 3	
HALE	06	2251	2303D		N15	E07	.396	8715	7.5	12D	-N	1	P	2303	.67	.70		
LOCK	06	2255	0015	2312	N19	E08	.460	8715	7.6	80	1N		C	2312	4.10	4.50	20	
HOUS	06	2258	2338D	2310	N17	E08	.431	8715	7.6	40D	1N		C		2.50	2.80	200	
SACP	06	2259	2353	2310	N17	E09	.436	8715	7.6	54	2N		C		6.58	6.67		
GRP 4018	06	2322	2340	2328	N16	W22	.528	8714	5.3	18	1-				.40		1 1 1	
LOCK	06	2322	2340	2328	N16	W22	.528	8714	5.3	18	-F		C	2328	.40	.50	10	
	07	0100	0000		NO FLARE PATROL													
GRP 4019	07	0832	0852	0837	S28	W54	.819	8709	3.3	20	1-				1.49		3 3 1	
AROS	07	0832	0848D	0837	S28	W53	.810	8709	3.4	16D	-N		P					
ATHN	07	0845E	0848D		S27	W58	.851	8709	3.0	3D	1N	1		0846	1.49	2.50	1.40	
CAPS	07	0831E	0901D		S28	W50	.783	8709	3.6	30D	1N	2						
GRP 4020	07	0927	1005		S19	E31	.535	8716	9.7	38	1-				1.34		2 2 2	
AROS	07	0944E	1000		S18	E31	.530	8716	9.7	16D	-N		P	0944	1.03			
WEND	07	0927	1009		S19	E31	.535	8716	9.7	42	1N		V		4.13			
GRP 4021	07	1055	1125	1100	S22	E33	.574	8716	9.9	30	1-				.52		1 1 1	
MONT	07	1055	1125	1100	S22	E33	.574	8716	9.9	630	-N		C	1100	.52		OD	
GRP 4022	07	1100	1108		S20	W27	.486	8711	5.4	8	1-				1.32		1 1 1	
ATHN	07	1100	1108		S20	W27	.486	8711	5.4	8	-F	2		1105	1.32	1.50	2.00	
GRP 4023	07	1139	1144	1139	S21	W24	.453	8711	5.7	5	1-				.50		1 1 1	
ATHN	07	1139E	1144	1139	S21	W24	.453	8711	5.7	5D	-F	2		1139	.50	.60	1.20	
GRP 4024	07	1145	1200	1146	S17	E27	.471	8716	9.5	15	1-				.35		1 1 1	
CATA	07	1145E	1200D	1146	S17	E27	.471	8716	9.5	15D	-N			1146	.35	.40	168	
GRP 4025	07	1202	1210		S18	E27	.476	8716	9.5	8	1-						1 1 0	
WEND	07	1202	1210		S18	E27	.476	8716	9.5	8	-F							
GRP 4026	07	1246	1249		S18	E26	.462	8716	9.5	3	1-				.11		1 1 1	
CAPF	07	1246	1249		S18	E26	.462	8716	9.5	3	-B		V	1247	.21	.23	D	
GRP 4027	07	1335	1343	1337	S18	E27	.476	8716	9.6	8	1-				.37		3 3 2	
ATHN	07	1336	1342	1337	S17	E27	.471	8716	9.6	6	-B	2		1337	.33	.40	2.00	
CAPS	07	1336	1343		S18	E27	.476	8716	9.6	7	-N	3		1340	.40	.40	DK	
WEND	07	1334	1343		S18	E26	.462	8716	9.5	9	-F							
GRP 4028	07	1428	1435	1428	S17	E26	.457	8716	9.6	7	1-				.33		1 1 1	
ATHN	07	1428E	1435	1428	S17	E26	.457	8716	9.6	7D	-B	1		1428	.33	.40	2.00	
GRP 4029	07	1441	1500	1443	S18	E26	.462	8716	9.6	19	1-				.27		2 2 2	
ATHN	07	1441E	1448D	1442	S17	E26	.457	8716	9.6	7D	-B	1		1442	.33	.40	2.00	
HOUS	07	1441	1500	1443	S18	E25	.448	8716	9.5	19	-N		C		.20	.20	200	
GRP 4030	07	1500	1522	1507	N18	W47	.797	8704	4.1	22	1-				.10		2 2 1	
HOUS	07	1458	1524	1507	N18	W49	.815	8704	3.9	26	-F		C		.10	.20	100	
WEND	07	1501	1519		N17	W45	.773	8704	4.3	18	-F							
GRP 4031	07	1501	1510	1502	S19	W30	.521	8711	5.4	9	1-				.20		1 1 1	
HOUS	07	1501	1510	1502	S19	W30	.521	8711	5.4	9	-F		C		.20	.20	100	
GRP 4032	07	1538	1544	1538	S17	E25	.443	8716	9.5	6	1-				.33		1 1 1	
ATHN	07	1538E	1544D	1538	S17	E25	.443	8716	9.5	6D	-B	1		1538	.33	.40	2.00	
GRP 4033	07	1557	1604	1559	S17	E22	.400	8716	9.3	7	1-				.40		1 1 1	
HOUS	07	1557	1604	1559	S17	E22	.400	8716	9.3	7	-N		C		.40	.40	200	
GRP 4034	07	1738	1745	1743	S18	W31	.530	8711	5.4	7	1-				.20		1 1 1	
HOUS	07	1738	1745	1743	S18	W31	.530	8711	5.4	7	-F		C		.20	.20	100	
GRP 4035	07	1851	1907	1859	S16	E21	.380	8716	9.4	16	1-				.62		3 3 3	
SACP	07	1851	1905	1857	S17	E21	.386	8716	9.4	14	-N		C		.72	.72		
HOUS	07	1851	1907	1859	S17	E22	.400	8716	9.4	16	-N		C		.40	.40	200	
LOCK	07	1852	1910	1900	S15	E21	.375	8716	9.4	18	-F		C	1900	.80	.90	10	
GRP 4036	07	2017	2038	2029	N12	W34	.628	8714	5.3	21	1-				.51		2 2 2	
LOCK	07	2025	2035	2028	N11	W35	.634	8714	5.2	10	-F		C	2028	.80	1.00	10	
HOUS	07	2009	2041	2029	N13	W32	.611	8714	5.4	32	-N		C		.20	.30	200	
GRP 4037	07	2048	2124	2104	N19	E18	.525	8715	9.2	36	1-				.60		2 2 2	
HOUS	07	2046	2132	2108	N18	E18	.513	8715	9.2	46	-N		C		.70	.80	200	
LOCK	07	2050	2115	2100	N20	F18	.537	8715	9.2	25	-F		C	2100	.50	.60	10	
GRP 4038	07	2305	2340	2320	S19	E25	.454	8716	9.8	35	1-				.82		1 1 1	
LOCK	07	2305	2340	2320	S19	E25	.454	8716	9.8	35	-F		C	2320	.80	.90	10	
GRP 4039	08	0050	0056	0053	S23	W44	.708	8711	4.7	6	1-				.43		1 1 1	
SACP	08	0050	0056D	0053D	S23	W44	.708	8711	4.7	6D	-N		P		.48	.56		
GRP 4040	08	0218	0241	0224	N13	W35	.646	8714	5.5	23	1-				.40		1 1 1	
CRON	08	0218	0241	0224	N13	W35	.646	8714	5.5	23	-F		C		.40	.50	100	
GRP 4041	08	0559	0641	0603	S17	E16	.316	8716	9.4	42	1-				.83		1 1 1	
ATHN	08	0559	0641	0603	S17	E16	.316	8716	9.4	42	-B	1		0603	.83	.90	2.00	

# SOLAR FLARES

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OBSERVATORY	OBSERVED UT			MAX. PHASE	LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END		APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
	1967 MAR																		
GRP 4042	08	0654	0712	0658	S18	E17	.338	8716	9.6	18	1-							2 2 2	
ATHN	08	0649	0707	0653	S17	E16	.316	8716	9.5	18	-B	2	0653	.44	.50	2.00			
MANI	08	0658	0716	0702	S18	E17	.338	8716	9.6	18	-N	2	0702	.41	.44			1 1 1	
GRP 4043	08	0724	0734	0729	S17	E15	.302	8716	9.4	10	1-								
ATHN	08	0724	0734	0729	S17	E15	.302	8716	9.4	10	-B	2	0729	.50	.50	2.00		1 1 1	
GRP 4044	08	0744	0806	0754	S17	E15	.302	8716	9.4	22	1-								
ATHN	08	0744	0806	0754	S17	E15	.302	8716	9.4	22	-B	2	0754	1.16	1.20	2.00		1 1 1	
GRP 4045	08	0912	0918	0914	S17	E15	.302	8716	9.5	6	1-								
ATHN	08	0912	0918	0914	S17	E15	.302	8716	9.5	6	-B	2	0914	.33	.40	2.00		1 1 1	
GRP 4046	08	0922	0926	0923	S17	E15	.302	8716	9.5	4	1-								
ATHN	08	0922	0926	0923	S17	E15	.302	8716	9.5	4	-B	2	0923	.33	.40	2.00		1 1 1	
GRP 4047	08	1250	1257	1251	N21	E11	.504	8715	9.4	7	1-								
ATHN	08	1250	1257	1251	N21	E11	.504	8715	9.4	7	-N	2	1251	.83	.90	1.70		1 1 1	
GRP 4048	08	1300	1313	1301	S24	E18	.407	8716	9.9	13	1-								
ATHN	08	1300	1313	1301	S24	E18	.407	8716	9.9	13	-F	2	1301	.83	.90	1.40		1 1 1	
GRP 4049	08	1457	1529	1502	S16	E11	.240	8716	9.4	32	1-								
HUAN	08	1454	1552	1502	S16	E11	.240	8716	9.4	58	-F	1	P 1518	.65	.70			E	
ATHN	08	1500	1506	1502	S16	E11	.240	8716	9.4	6	-N	1	1502	.66	.70	1.60			
GRP 4050	08	1520	1534	1521	S17	E12	.263	8716	9.5	14	1-								
HOUS	08	1517	1530	1522	S17	E12	.263	8716	9.5	13	-N		C 1520	.73	.30		200	I	
ATHN	08	1517	1536	1520	S17	E10	.238	8716	9.4	19	-B	1		1.16	1.20	2.00			
SACP	08	1518	1528	1520	S17	E11	.250	8716	9.5	10	-N		C 1521	.64	.62			E	
MOMA	08	1520	1540	1521	S17	E11	.250	8716	9.5	20	-N		C 1521	.62	.70			CE	
CAPS	08	1521E	1531D		S16	E14	.280	8716	9.7	100	-N	2							
WEND	08	1526	1540		S15	E11	.230	8716	9.5	14	-F								
GRP 4051	08	1659	1742	1715	S17	E11	.250	8716	9.5	43	1-								
SACP	08	1655	1817	1724U	S17	E10	.238	8716	9.5	82	-N		C 1705	.51	.89			2 2 2	
HOUS	08	1703	1707	1705	S17	E11	.250	8716	9.5	4	-N		C 1705	.91	.20		200	IK	
GRP 4052	08	1704	1830	1740	S17	E11	.250	8716	9.5	86	1-								
HALE	08	1658E	1859	1740	S16	E10	.227	8716	9.5	121D	-B	2	C 1740	.31	.30			2 2 2	
HOUS	08	1709	1801	1739	S17	E11	.250	8716	9.5	52	-N		C 1740	.26	.30		200	K	
GRP 4053	08	1722	1810	1727	S17	E11	.250	8716	9.5	48	1-								
HOUS	08	1715	1732U	1721	S17	E11	.250	8716	9.5	17U	-N		C 1733	.67	.60		200	EI	
MOMA	08	1728	1810	1733	S17	E11	.250	8716	9.6	42	-F		C 1733	.60	.60			2 2 2	
GRP 4054	08	1732	1810	1755	S16	E09	.215	8716	9.4	38	1-								
LOCK	08	1725	1812	1755	S15	E09	.204	8716	9.4	47	-N		C 1755	.52	.60		20	EH	
HUAN	08	1738	1808		S16	E09	.215	8716	9.4	30	-N	1	C 1756	.65	.80			2 2 2	
GRP 4055	08	1824	1839	1829	S19	E11	.274	8716	9.6	15	1-								
LOCK	08	1824	1838	1829	S17	E10	.238	8716	9.5	14	-F		C 1829	.52	.52			2 2 2	
HOUS	08	1824	1840U	1829	S20	E11	.286	8716	9.6	16U	-N		C 1829	.20	.20		10		
GRP 4056	08	1838	1856	1843	S16	E10	.227	8716	9.5	18	1-								
HALE	08	1658E	1859	1843	S16	E10	.227	8716	9.5	121D	-B	2	C 1843	.20	.20			2 1 2	
LOCK	08	1838	1852	1842	S15	E09	.204	8716	9.5	14	-F		C 1842	.19	.15		10		
GRP 4057	08	1900	1921	1909	N14	W66	.933	8708	3.8	21	1-								
LOCK	08	1900	1921	1909	N14	W66	.933	8708	3.8	21	-F		C 1909	.28	.30		10	1 1 1	
GRP 4058	08	1902	1927	1911	N19	W68	.951	8704	3.7	25	1-								
HOUS	08	1902	1927	1911	N19	W68	.951	8704	3.7	25	-N		C 1909	.20	.50		200	1 1 1	
GRP 4059	08	1905	1925	1914	S16	E10	.227	8716	9.5	20	1-								
MOMA	08	1900	2028	1912	S17	E11	.250	8716	9.6	88	-N		C 1912	.20	.57			2 2 2	
LOCK	08	1910	1925	1915	S15	E09	.204	8716	9.5	15	-F		C 1915	.52	.60		10	E	
GRP 4060	08	1924	1954	1934	S16	E09	.215	8716	9.5	30	1-								
SACP	08	1908	1957	1931	S17	E09	.227	8716	9.5	49	-N		C 1932	.48	.64			4 4 4	
HALE	08	1912	1956	1932	S17	E09	.227	8716	9.5	44	-B	1	C 1932	.64	.62				
LOCK	08	1937	1951	1931	S15	E09	.204	8716	9.5	14	-N		C 1931	.26	.30		20		
MOMA	08	1938	1953	1940	S16	E10	.227	8716	9.6	15	-N		C 1940	.60	.60			2 2 2	
GRP 4061	08	1948	2012	1954	N17	W44	.764	8714	5.5	24	1-								
HALE	08	1947	2023	1955	N16	W43	.749	8714	5.6	36	-N	1	C 1955	.31	.32			2 2 2	
HOUS	08	1949	2000	1953	N17	W45	.773	8714	5.5	11	-N		C 1955	.47	.90		200		
GRP 4062	08	1953	2021	1957	N22	E04	.493	8715	9.1	28	1-								
HOUS	08	1952	2029	1957	N22	E04	.493	8715	9.1	37	-N		C 1956	.34	.30		200	2 2 2	
HALE	08	1954	2012	1956	N21	E04	.477	8715	9.1	18	-N	1	C 1956	.31	.40				
GRP 4063	08	2006	2045	2013	S16	E08	.203	8716	9.4	39	1-								
HOUS	08	2013	2045	2025	S16	E07	.193	8716	9.4	32	-N		C 2001	.25	.20		200	2 2 2	
LOCK	08	1959	2023	2001	S15	E09	.204	8716	9.5	24	-F		C 2001	.20	.30		10	HI	
GRP 4064	08	2108	2135	2119	S19	E54	.806	8716	12.9	27	1-								
HOUS	08	2108	2135D	2119	S19	E54	.806	8716	12.9	27D	-N		C 2115	.20	.30		200	1 1 1	
GRP 4065	08	2113	2127	2115	S20	W49	.756	8711	5.2	14	1-								
MOMA	08	2113E	2127D	2115	S20	W49	.756	8711	5.2	14D	-N		C 2115	.37	.26			1 1 1	
GRP 4066	08	2148	2222	2150	N14	W44	.750	8714	5.6	34	1-								
HALE	08	2148E	2222D	2150U	N14	W44	.750	8714	5.6	34D	-N	1	P 2150	.74	.62			1 1 1	



# 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 Ha		MAX. INT. %
GRP 4067	1967 MAR 08	2215	2316	2232	S22	W50	.770	8711	5.2	61	1			1.51				3 3 3
SACP	08	2214U	2327U	2234U	S21	W51	.778	8711	5.1	73U	1F	C		2.27	2.90			
LOCK	08	2215	2252	2230	S24	W50	.773	8711	5.2	37	-F	C	2230	.90	1.40		10	
HALE	08	2222E	2329D	2232U	S21	W50	.768	8711	5.2	67D	1N	1 P	2232	1.29	2.00			
GRP 4068	08	2239	2317	2300	N16	W42	.739	8714	5.8	38	1-			.29				2 2 2
HALE	08	2244E	2329D	2315U	N15	W41	.723	8714	5.9	45D	-N	1 P	2315	.31	.50			2 2 2
HOUS	08	2239	2305	2244	N17	W43	.754	8714	5.7	26	-N			.20	.30		200	H
GRP 4069	08	2309	2323	2316	N17	W43	.754	8714	5.7	14	1-	C		.53				2 2 2
SACP	08	2308	2324	2316	N16	W42	.739	8714	5.8	16	-B	C		.72	.88			
HOUS	08	2310	2321	2316	N17	W43	.754	8714	5.7	11	-N	C		.40	.60		200	
GRP 4070	09	0005	0030	0015	S15	E09	.204	8716	9.7	25	1-			.19				1 1 1
LOCK	09	0005	0030	0015	S15	E09	.204	8716	9.7	25	-F	C	0015	.20	.20		10	H
GRP 4071	09	0339	0346	0341	N23	W02	.505	8715	9.0	7	1-			.18				1 1 1
HALE	09	0339	0346	0341	N23	W02	.505	8715	9.0	7	-N	1 C	0341	.15	.20			
GRP 4072	09	0534	0604	0604	N23	E00	.504	8715	9.2	30	1-			1.12				1 1 1
CULG	09	0534	0604D	0604	N23	E00	.504	8715	9.2	30D	-N	P	0604	1.24	1.38			
GRP 4073	09	0815	0835	0818	N18	W26	.588	8715	7.4	20	1-			1.32				2 2 1
ATHN	09	0818E	0830D	0818	N16	W25	.558	8715	7.5	12D	-F	2	0818	1.32	1.60		1.20	
ISTA	09	0815	0835		N20	W27	.616	8715	7.3	20	-N							
GRP 4074	09	0815	0955		N17	W34	.662	8714	6.8	100	1-			1.19				1 1 1
BUCA	09	0815E	0955D		N17	W34	.662	8714	6.8	100D	1N	C	0826	1.66	2.20			G
GRP 4075	09	1015	1108	1029	N24	W04	.522	8715	9.1	53	1-			1.68				3 3 3
ATHN	09	1015	1105	1029	N23	W04	.507	8715	9.1	50	1B	1	1029	2.48	2.80		2.00	
CAPP	09	1026E	1113		N24	W04	.522	8715	9.1	47D	-N	V	1029	.29	.34			
WEND	09	1017E	1107		N26	W04	.551	8715	9.1	50D	1N	V		5.16				
GRP 4076	09	1039	1120	1052	N25	W04	.537	8715	9.1	41	1-			1.89				5 4 4
KIEV	09	1036E	1055D	1039	N27	W06	.570	8715	9.0	19D	1F	C	1039	2.58	3.50		40	EI
CATA	09	1039E	1052D	1042	N26	W02	.549	8715	9.3	13D	-B		1042	1.62	1.90		204	
BUCA	09	1042	1132D		N25	W05	.539	8715	9.1	50D	1N	P	1046	2.65	3.10			
WEND	09	1017E	1058		N23	W06	.512	8715	9.0	41D	1N	V		3.09				
ATHN	09	1113	1130	1116	N25	W02	.534	8715	9.3	17	1-	1	1116	1.98	2.30		1.70	
GRP 4077	09	1153	1201	1155	N15	W52	.830	8714	5.6	8	1-			.66				1 1 1
ATHN	09	1153	1201	1155	N15	W52	.830	8714	5.6	8	-B	1	1155	.66	1.10		2.00	
GRP 4078	09	1432	1445	1435	S12	E31	.514	8716	11.9	13	1-			.83				1 1 1
ATHN	09	1432	1445	1435	S12	E31	.514	8716	11.9	13	-N	1	1435	.83	.90		1.60	
GRP 4079	09	1443	1454	1444	N15	W54	.848	8714	5.6	11	1-			.50				1 1 1
ATHN	09	1443	1454	1444	N15	W54	.848	8714	5.6	11	-N	1	1444	.50	.80		1.80	
GRP 4080	09	1523	1532	1525	S18	W55	.815	8711	5.5	9	1-			.83				1 1 1
ATHN	09	1523	1532	1525	S18	W55	.815	8711	5.5	9	-F	1	1525	.83	1.40		1.30	
GRP 4081	09	1528	1543	1532	N15	W57	.872	8714	5.4	15	1-			.33				1 1 1
ATHN	09	1528	1543	1532	N15	W57	.872	8714	5.4	15	-N	1	1532	.33	.50		1.50	
GRP 4082	09	1551	1555	1552	N16	W56	.867	8714	5.5	4	1-			.37				1 1 1
HUAN	09	1551	1555	1552	N16	W56	.867	8714	5.5	4	-N	1 C	1552	.45	.67			D
GRP 4083	09	1600	1613	1603	N17	W58	.885	8714	5.3	13	1-			.59				3 3 3
SACP	09	1559	1618	1602	N15	W56	.864	8714	5.5	19	-N	C		1.01	1.47			
HUAN	09	1600	1602D		N15	W57	.872	8714	5.4	2D	-N	1 P	1601	.39	.58			D
MCA	09	1601	1607	1603	N21	W61	.915	8714	5.1	6	-N	C	1603	.36	.70			E
GRP 4084	09	1617	1648	1628	N23	W06	.512	8715	9.2	31	1-			.20				1 1 1
HOUS	09	1617U	1648	1628	N23	W06	.512	8715	9.2	31U	-N	C		.20	.20		200	E
GRP 4085	09	1646	1658	1647	N14	W60	.893	8714	5.2	12	1-			.10				1 1 1
HOUS	09	1646	1658	1647	N14	W60	.893	8714	5.2	12	-F	C		.10	.20		100	
GRP 4086	09	1731	1801	1737	S20	W65	.899	8711	4.9	30	1-			.10				1 1 1
HOUS	09	1731U	1801	1737	S20	W65	.899	8711	4.9	30U	-N	C		.10	.20		200	
GRP 4087	09	1740	1758	1748	S28	W89	.997	8709	3.1	18	1-			.25				1 1 1
SACP	09	1740	1758	1748	S28	W89	.997	8709	3.1	18	-F	C		.28				
GRP 4088	09	1746	1837	1759	N14	W61	.900	8714	5.2	51	1-			.20				1 1 1
HOUS	09	1746	1837D	1759	N14	W61	.900	8714	5.2	51D	-N	C		.20	.40		200	
GRP 4089	09	1912	1927	1916	S23	W62	.878	8711	5.2	15	1-			.82				1 1 1
SACP	09	1912	1927D	1916	S23	W62	.878	8711	5.1	15D	-N	C		.91	1.40			
GRP 4090	09	1940	2013	1947	N28	E74	.983	8722	15.4	33	1-			.36				3 3 3
MCA	09	1940E	1950D	1944	N29	E77	.991	8722	15.6	10D	-N	P	1944	.31				D
SACP	09	1940E	2022U	1950U	N28	E73	.980	8722	15.3	42U	-N	C		.27				
HUAN	09	1941	2004		N28	E73	.980	8722	15.3	23	-F	1 P	1952	.47				E
GRP 4091	09	2037	2045	2040	N18	W56	.872	8714	5.7	8	1-			.41				1 1 1
SACP	09	2037	2045D	2040	N18	W56	.872	8714	5.7	8D	-F	C		.45	.68			
GRP 4092	09	2142	2154	2148	N14	W60	.893	8714	5.4	12	1-			.56				1 1 1
CULG	09	2142	2154D	2148	N14	W60	.893	8714	5.4	12D	-N	P	2148	.62	1.35			
GRP 4093	10	0404	0516	0428	S23	W67	.914	8711	5.1	72	1-			.47				1 1 1
CULG	10	0404	0516	0428	S23	W67	.914	8711	5.1	72	-N	C	0428	.52				F
GRP 4094	10	0419	0433	0421	N21	W12	.509	8715	9.3	14	1-			.47				1 1 1
CULG	10	0419	0433	0421	N21	W12	.509	8715	9.3	14	-N	C	0421	.52	.58			F



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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 $\alpha$	MAX. INT. %		
GRP 4121	1967 MAR 11	1527	1533	1528	S23	W23	.456	8716	9.9	6	1-							1 1 1	
ATHN	11	1527	1533	1528	S23	W23	.456	8716	9.9	6	-F	2	1528	.99	1.10	1.20		1 1 1	
GRP 4122	11	1557	1613	1601	S21	W88	.997	8711	5.1	16	1			.29				1 1 1	
HUAN	11	1557	1613	1601	S21	W88	.997	8711	5.1	16	-N	1	1601	.45				D	
GRP 4123	11	1608	1619		S29	W85	.991	8711	5.3	11	1			.21				1 1 1	
HUAN	11	1608	1619		S29	W85	.991	8711	5.3	11	-F	1	1612	.31				D	
	11	1635	0000		NO FLARE PATROL														
GRP 4124	11	1712	1727		N14	W56	.861	8715	7.5	15	1-			.37				1 1 1	
HUAN	11	1712	1727		N14	W56	.861	8715	7.5	15	-F	1	1715	.45	.65			E	
	11	1725	0000		NO FLARE PATROL														
	11	1925	0000		NO FLARE PATROL														
GRP 4125	11	2041	2051	2042	N25	W39	.764	8715	8.9	10	1-			.68				2 2 2	
CULG	11	2040E	2051	2042	N25	W37	.747	8715	9.1	110	-N		2042	.72	.81				
HUAN	11	2042E	2047D		N24	W40	.766	8715	8.9	5D	-F	1	2044	.83	1.02			E	
GRP 4126	11	2120	2136	2124	N19	W37	.706	8715	9.1	16	1-			.28				1 1 1	
CULG	11	2120	2136D	2124	N19	W37	.706	8715	9.1	16D	-F			.31	.42				
	11	2135	0000		NO FLARE PATROL														
	11	2215	0000		NO FLARE PATROL														
	11	2310	0000		NO FLARE PATROL														
	12	0030	0000		NO FLARE PATROL														
GRP 4127	12	0140	0245		S20	W90	.999	8711	5.3	65	1							1 1 0	
IKOM	12	0140	0245D		S20	W90	.999	8711	5.3	65D	-F								
GRP 4128	12	0320	0331	0323	S16	W34	.565	8716	9.6	11	1-			.56				1 1 1	
CULG	12	0320	0331	0323	S16	W34	.565	8716	9.6	11	-N		0323	.62	.72				
GRP 4129	12	0503	0510		S18	E90	.999	8727	19.0	7	1-			.16				1 1 1	
MANI	12	0503E	0510D		S18	E90	.999	8727	19.0	7D	-N	3	0505	.21	.67				
GRP 4130	12	0000	0000		S00	F00	.000	8711	12.0									0 0 0	
GRP 4131	12	0505	0603	0525	S22	W90	.999	8711	5.5	58	1-			.30				2 2 1	
CRON	12	0505	0603	0525	S23	W90	.999	8711	5.5	58	-F			.30	1.20		100		
IKOM	12	0515E	0555D		S20	W90	.999	8711	5.5	40D	-F								
GRP 4132	12	0548	0605	0554	N26	W43	.802	8715	9.0	17	1-			.39				2 2 2	
CULG	12	0544	0612	0554	N27	W44	.815	8715	8.9	28	-N		0554	.31	.54				
ATHN	12	0551	0558	0553	N25	W41	.780	8715	9.2	7	-N	2	0553	.50	.70	1.60			
GRP 4133	12	0656	0729	0702	N17	W63	.919	8715	7.6	33	1-			.43				2 2 2	
CRON	12	0655	0729U	0705	N17	W64	.925	8715	7.5	34U	-N			.20	.50		200		
ATHN	12	0657	0728	0659	N17	W62	.913	8715	7.6	31	-B	2	0659	.66	1.60	2.00			
GRP 4134	12	0700	0714	0703	N26	W43	.802	8715	9.1	14	1-			.57				2 2 2	
CRON	12	0659	0718	0703	N25	W44	.805	8715	9.0	19	-N			.30	.50		200		
ATHN	12	0701	0709	0703	N26	W42	.794	8715	9.1	8	-N	2	0703	.83	1.10	1.70			
GRP 4135	12	0739	0745	0742	N16	W44	.759	8715	9.0	6	1-			.20				1 1 1	
CRON	12	0739	0745	0742	N16	W44	.759	8715	9.0	6	-N			.20	.30		200		
GRP 4136	12	0836	0856	0844	N19	W44	.773	8715	9.1	20	1-			.20				1 1 1	
CRON	12	0836	0856	0844	N19	W44	.773	8715	9.1	20	-N			.20	.30		200		
GRP 4137	12	1049	1100		S22	W90	.999	8711	5.7	11	1+			.57				1 1 1	
ARCE	12	1049	1100D		S22	W90	.999	8711	5.7	11D	1B			.57	3.20				
GRP 4138	12	1130	1145	1133	N21	W47	.810	8715	9.0	15	1-			1.16				1 1 1	
ATHN	12	1130	1145	1133	N21	W47	.810	8715	9.0	15	-N	2	1133	1.16	1.70	1.40			
GRP 4139	12	1236	1302	1239	N15	W63	.915	8715	7.8	26	1-			.99				1 1 1	
ATHN	12	1236	1302	1239	N15	W63	.915	8715	7.8	26	1N	2	1239	.99	2.20	1.60			
GRP 4140	12	1638	1650	1641	N25	W45	.813	8715	9.3	12	1-			.90				1 1 1	
MCMA	12	1638E	1650D	1641	N25	W45	.813	8715	9.3	12D	-N			.62	1.10			E	
GRP 4141	12	1752	1807		N24	W52	.862	8715	8.8	15	1-			.21				1 1 1	
HUAN	12	1752	1807		N24	W52	.862	8715	8.8	15	-F	1	1755	.25	.34			D	
GRP 4142	12	1821	1837	1824	S14	W43	.679	8716	9.5	16	1			.23				1 1 1	
HUAN	12	1821	1837	1824	S14	W43	.679	8716	9.5	16	-F	2	1824	.25	.26			D	
GRP 4143	12	1838	1843	1839	N23	W50	.843	8715	9.0	5	1-			.18				1 1 1	
HUAN	12	1838	1843	1839	N23	W50	.843	8715	9.0	5	-F	2	1839	.21	.28			D	
GRP 4144	12	2102	2119	2106	N15	W89	1.000	8714	6.2	17	1-			.30				1 1 1	
HOUS	12	2102	2119	2106	N15	W89	1.000	8714	6.2	17	-F			.30	1.00		100		
GRP 4145	13	0217	0232	0223	S20	W43	.689	8716	9.9	15	1-			.32				2 2 2	
CULG	13	0217	0228	0223	S19	W43	.687	8716	9.9	11	-N		0223	.41	.56				
IKOM	13	0223E	0236D		S21	W43	.692	8716	9.9	13D	-F		0223	.52	.70		70	D	
GRP 4146	13	0706	0736	0710	S18	W49	.753	8716	9.6	30	1-			.88				4 4 4	
CAPS	13	0706E	0714D		S20	W50	.767	8716	9.5	8D	-F	2	0710	1.20	1.80		152		
ATHN	13	0706	0725	0710	S16	W47	.729	8716	9.8	19	-B		0710	1.16	1.70	2.00			
CRON	13	0706	0727	0709	S18	W47	.731	8716	9.8	21	-N			.40	.60		200	E	
BUCA	13	0707E	0755D		S18	W51	.775	8716	9.5	48D	-N			1.10	1.80				
GRP 4147	13	0821	0902	0831	N23	W57	.894	8715	9.1	41	1-			.30				1 1 1	
CRON	13	0821	0902	0831	N23	W57	.894	8715	9.1	41	-N			.30	.60		200	E	

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	
	1967																
	MAR																
GRP 4148	13	1219	1227	1220	S23	W53	.801	8716	9.5	8	1-						2 2 2
ATHN	13	1217	1226	1219	S22	W51	.780	8716	9.7	9	-N	2	1219	.60	1.30	1.60	
UCCL	13	1220	1227	1221	S23	W55	.820	8716	9.4	7D	-N		1221	.83			EH
GRP 4149	13	1222	1224	1223	N16	W89	1.000	8714	6.8	2	1-						1 1 0
UCCL	13	1222	1224	1223	N16	W89	1.000	8714	6.8	2	-N						
GRP 4151	13	1256	1305	1259	S14	E75	.960	8727	19.2	9	1-						2 2 2
ATHN	13	1255	1305D	1258	S13	E70	.933	8727	18.8	10D	-N	2	1258	.69		1.90	
UCCL	13	1257	1305D	1300	S15	E80	.980	8727	19.5	8D	1N		1300	.66			E
GRP 4151	13	1512	1520	1512	N29	E31	.730	8729	16.0	8	1-						1 1 1
ATHN	13	1512E	1520D	1512	N29	E31	.730	8729	16.0	8D	-N	1	1512	1.03	.50	1.60	
GRP 4152	13	1703	1709	1704	S20	W54	.807	8716	9.7	6	1-						1 1 1
HOUS	13	1703E	1709	1704	S20	W54	.807	8716	9.7	6D	-N			.20	.30		200
GRP 4153	13	1721	1743	1726	S20	E67	.913	8727	18.7	22	1-			.10			1 1 1
HOUS	13	1721	1743	1726	S20	E67	.913	8727	18.7	22	-F			.10	.20		100
GRP 4154	13	1724	1828	1740	N33	W07	.653	8719	13.2	64	1-			.40			1 1 1
HOUS	13	1724	1828U	1740	N33	W07	.653	8719	13.2	64U	-F			.40	.50		100
GRP 4155	13	1741	1828	1819	N27	E30	.706	8729	16.0	47	1-			.40			1 1 1
HOUS	13	1741	1828D	1819	N27	E30	.706	8729	16.0	47D	-N			.40	.60		200
GRP 4156	13	1855	1938	1910	S19	E61	.869	8727	18.4	43	1-			.40			1 1 1
HOUS	13	1855	1938	1910	S19	E61	.869	8727	18.4	43	-N			.40	.90		200
GRP 4157	13	1920	1940	1928	N27	E30	.706	8729	16.1	20	1-			.40			1 1 1
HOUS	13	1920	1940	1928	N27	E30	.706	8729	16.1	20	-N			.40	.60		200
GRP 4158	13	2008	2036	2031	S19	E67	.913	8727	18.9	28	1-			.50			2 2 2
HOUS	13	1948	2035	2032	S19	E66	.906	8727	18.8	47	-N			.20	.40		200
HALE	13	2028	2036	2030	S18	E67	.913	8727	18.9	8	-N	i	2030	.67			
GRP 4159	13	2008	2129	2020	N27	E29	.698	8729	16.0	81	1-			.70			1 1 1
HOUS	13	2008	2129	2020	N27	E29	.698	8729	16.0	81	-N			.70	1.00		200
GRP 4160	13	2034	2123	2050	N47	W10	.818	8728	13.1	49	1-			3.00			1 1 1
HOUS	13	2034	2123	2050U	N47	W10	.818	8728	13.1	49	-N			3.00	5.70		200
GRP 4161	13	2037	2105	2042	S20	W53	.797	8716	9.9	28	1-			1.00			2 1 1
HALE	13	2037	2105D	2042	S20	W51	.777	8716	10.0	28D	-F	1	2042	.83	1.30		E
HUAN	13	2100E	2103D		S20	W54	.807	8716	9.8	3D	-F	1	2101	.45	.59		2 2 2
GRP 4162	13	2048	2141	2125	S18	E64	.892	8727	18.7	53	1-			.54			2 2 2
HOUS	13	2048	2140	2123	S18	E64	.892	8727	18.7	52	-N			.70	1.40		200
CULG	13	2117E	2141	2126	S18	E64	.892	8727	18.7	24D	-N	i	2126	.41	.90		I
GRP 4163	13	2151	2320	2202	S16	E68	.920	8727	19.0	89	1-			.20			1 1 1
HOUS	13	2151	2320D	2202	S16	E68	.920	8727	19.0	89D	-F			.20	.40		100
GRP 4164	13	2232	2250	2241	S20	W56	.826	8716	9.7	18	1-			.20			1 1 1
HOUS	13	2232	2250	2241	S20	W56	.826	8716	9.7	18	-N			.20	.30		200
GRP 4165	13	2247	2321	2313	N18	W67	.944	8715	8.9	34	1-			.37			1 1 1
CULG	13	2247	2321D	2313	N18	W67	.944	8715	8.9	34D	-N			.41			
GRP 4166	14	0254	0318	0301	N23	W63	.931	8715	9.4	24	1-			.28			1 1 1
CULG	14	0254	0318	0301	N23	W63	.931	8715	9.4	24	-N			.31			
GRP 4167	14	0350	0423	0402	S13	W61	.868	8716	9.6	33	1-			.28			1 1 1
CULG	14	0350	0423D	0402	S13	W61	.868	8716	9.6	33D	-N			.31	.60		
GRP 4168	14	0456	0505		S17	E68	.920	8727	19.3	9	1-			.50			1 1 1
MANI	14	0456E	0505		S17	E68	.920	8727	19.3	9D	-F	i	0459	.62	1.26		E
GRP 4169	14	0807	0833	0833	N28	E23	.664	8729	16.1	26	1-			1.03			1 1 1
MONT	14	0807	0833D	0833	N28	E23	.664	8729	16.1	26D	-N			1.03			OE
GRP 4170	14	0807	0830		S26	E58	.850	8727	18.7	23	1			1.55			1 1 1
MONT	14	0807	0830		S26	E58	.850	8727	18.7	23	1N			1.55			0
GRP 4171	14	1230	1430		S26	E57	.841	8727	18.8	120	1-			.41			1 1 1
MONT	14	1230	1430		S26	E57	.841	8727	18.8	120	-N			.41			0
GRP 4172	14	1521	1706	1542	N18	E71	.963	8730	20.0	105	1-			.20			1 1 1
HOUS	14	1521	1706	1542	N18	E71	.963	8730	20.0	105	-N			.20	.60		200
GRP 4173	14	1605	1632	1608	N23	W85	1.000	8715	8.3	27	1-			.10			1 1 1
HOUS	14	1605	1632	1608	N23	W85	1.000	8715	8.3	27	-N			.10	.30		200
GRP 4174	14	1712	1845	1719	N23	W85	1.000	8715	8.3	93	1-			.10			1 1 1
HOUS	14	1712	1845	1719	N23	W85	1.000	8715	8.3	93	-N			.10	.30		200
GRP 4175	14	1753	1835	1819	N18	E71	.963	8730	20.1	42	1-			.20			1 1 1
HOUS	14	1753	1835	1819	N18	E71	.963	8730	20.1	42	-N			.20	.60		200
GRP 4176	14	1845	1933	1853	S19	W66	.906	8716	9.8	48	1-			.65			2 2 2
HOUS	14	1844	1928	1851	S18	W66	.906	8716	9.8	44	-N			.80	1.70		200
HALE	14	1846	1937	1855	S20	W66	.907	8716	9.8	51	-N	2	1855	.41			E
GRP 4177	14	1857	2045	1950	S17	E52	.784	8727	18.7	108	1-			.30			1 1 1
HOUS	14	1857	2045	1950	S17	E52	.784	8727	18.7	108	-N			.30	.50		200
GRP 4178	14	1959	2159	2029	N27	E16	.609	8729	16.0	120	1-			.50			1 1 1
HOUS	14	1959	2159D	2029	N27	E16	.609	8729	16.0	120D	-N			.50	.60		200
GRP 4179	14	2009	2027	2013	S18	E68	.920	8727	19.9	18	1-			.20			1 1 1
HOUS	14	2009	2027	2013	S18	E68	.920	8727	19.9	18	-N			.20	.50		200

# SOLAR FLARES

REVISED

MARCH 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	
	1967																
	MAR																
GRP 4180	14	2057	2141	2119	S17	E52	.784	8727	18.8	44	1-						1 1 1
HOUS	14	2057	2141	2119	S17	E52	.784	8727	18.8	44	-N	C		.70	1.10		200
GRP 4181	14	2143	2153	2147	S21	W71	.938	8716	9.6	10	1-						2 2 2
HUAN	14	2142	2155		S20	W69	.926	8716	9.7	13	-F	1	C	2147	.25		
HOUS	14	2143	2151	2147	S21	W72	.944	8716	9.5	8	-N				.50		200
GRP 4182	14	2200	2236	2216	N17	E14	.467	8729	16.0	36	1-						1 1 1
HOUS	14	2200	2236	2216	N17	E14	.467	8729	16.0	36	-N	C		.70	.90		200
GRP 4183	14	2210	2224	2216	S17	E52	.784	8727	18.8	14	1-						EI 1 1 1
HALE	14	2210	2224	2216	S17	E52	.784	8727	18.8	14	-F	2	C	2216	.18	.20	
GRP 4184	14	2259	2326	2307	S17	E50	.763	8727	18.7	27	1-						2 2 2
HOUS	14	2254	2319D	2305U	S17	E49	.752	8727	18.6	25D	-N	C		.31	.50		200
HALE	14	2304	2326	2308	S16	E50	.762	8727	18.7	22	-N	2	C	2308	.30	.40	
GRP 4185	15	0044	0106	0048	S16	E48	.740	8727	18.6	22	1-						3 3 3
HALE	15	0043	0113	0046	S17	E47	.730	8727	18.6	30	-B	1	C	0046	.67	.60	
MANI	15	0044	0100	0050	S16	E49	.751	8727	18.7	16	-N	2		0050	.52	.79	
LOCK	15	0044	0105	0047	S15	E47	.728	8727	18.6	21	-N	C		0047	1.00	1.50	20
GRP 4186	15	0123	0132	0126	S18	E57	.834	8727	19.3	9	1-				.31		1 1 1
HALE	15	0123	0132	0126	S18	E57	.834	8727	19.3	9	-N	1	C	0126	.26	.50	
GRP 4187	15	0155	0209	0156	S18	E57	.834	8727	19.4	14	1-				.25		1 1 1
HALE	15	0155	0209	0156	S18	E57	.834	8727	19.4	14	-N	1	C	0156	.21	.40	
GRP 4188	15	0205	0220	0210	N18	E65	.933	8730	20.0	15	1-				.43		1 1 1
HALE	15	0205	0220	0210	N18	E65	.933	8730	20.0	15	-N	1	C	0210	.36		
GRP 4189	15	0322	0330	0324	S18	E57	.834	8727	19.4	8	1-				.37		1 1 1
HALE	15	0322	0330	0324	S18	E57	.834	8727	19.4	8	-N	1	C	0324	.31	.60	
GRP 4190	15	0716	0857	0830	S15	E47	.728	8727	18.8	101	1-				1.55		1 1 1
MONT	15	0716	0857	0830	S15	E47	.728	8727	18.8	101	-N	C		0720	1.55		0
GRP 4191	15	1020	1100	1027	S15	E45	.704	8727	18.8	40D	1-				1.24		1 1 1
MONT	15	1020E	1100	1027	S15	E45	.704	8727	18.8	40D	-F	C		1027	1.24		0
GRP 4192	15	1145	1245	1155	S19	W81	.982	8716	9.4	60	1+				1.92		2 2 2
MONT	15	1145	1245	1155	S20	W84	.990	8716	9.2	60	1N	C		1155	1.03		OE
CAPS	15	1146E	1224D		S18	W77	.968	8716	9.7	38D	2F	2		1202	2.80		153
GRP 4193	15	1417	1430		S17	E49	.752	8727	19.3	13	1-				.52		1 1 1
MONT	15	1417	1430D		S17	E49	.752	8727	19.3	13D	-F	C		1420	.52		OD
GRP 4194	15	1420	1439	1424	S19	W80	.979	8716	9.6	19	1-				.78		6 6 5
SACP	15	1418	1440	1423	S18	W78	.972	8716	9.7	22	-N	C			.36	.85	
MONT	15	1420	1430D		S20	W85	.992	8716	9.2	10D	1N	C		1425	1.03		OE
CAPS	15	1420E	1437D		S20	W78	.972	8716	9.7	17D	1N	2		1422	.80		F
HOUS	15	1420E	1438U	1423	S18	W76	.964	8716	9.9	18U	-N	C			.20	.60	200
HERS	15	1424E	1428D	1425	S20	W80	.979	8716	9.6	4D	1N	P		1425	.72	3.60	E
LOCA	15	1425E	1438	1426	S19	W80	.979	8716	9.6	13D	-N	V		1426	.63		
GRP 4195	15	1531	1617	1555	N29	E06	.597	8729	16.1	46	1-				.40		1 1 1
HOUS	15	1531	1617	1555	N29	E06	.597	8729	16.1	46	-F	C			.40	.50	100
GRP 4196	15	1626	1642		S26	E01	.323	8721	15.8	16	1-				.23		1 1 1
HUAN	15	1626	1642D		S26	E01	.323	8721	15.8	16D	-F	1	P	1628	.25	.26	D
GRP 4197	15	1713	1738	1722	S18	E44	.697	8727	19.0	25	1-				.36		2 2 2
SACP	15	1713	1731	1717	S18	E44	.697	8727	19.0	18	-F	C			.45	.53	
HOUS	15	1719E	1744	1726	S18	E44	.697	8727	19.0	25D	-N	C			.30	.40	200
GRP 4198	15	1749	1802	1751	S17	E44	.695	8727	19.0	13	1-				.20		1 1 1
HOUS	15	1749	1802	1751	S17	E44	.695	8727	19.0	13	-N	C			.20	.30	200
GRP 4199	15	1857	1913	1900	S17	E44	.695	8727	19.1	16	1-				.30		1 1 1
HOUS	15	1857	1913	1900	S17	E44	.695	8727	19.1	16	-F	C			.30	.40	100
GRP 4200	15	1914	1952	1925	S19	E58	.843	8727	20.2	38	1-				.20		1 1 1
HOUS	15	1914	1952	1925	S19	E58	.843	8727	20.2	38	-N	C			.20	.30	200
GRP 4201	15	2048	2112	2057	S17	E36	.594	8727	18.6	24	1				2.03		3 3 2
HOUS	15	2040U	2117D	2100U	S17	F37	.608	8727	18.6	37D	-N	C			.40	.50	200
CULG	15	2050	2111	2056	S18	E36	.597	8727	18.6	21	1B	1	C	2056	2.06	2.50	E
SACP	15	2053	2108	2056	S17	E36	.594	8727	18.6	15	1N	C			2.46	2.67	
GRP 4202	15	2155	2210	2203	S17	E42	.671	8727	19.1	15	1-				.41		1 1 1
SACP	15	2155	2210	2203	S17	E42	.671	8727	19.1	15	-F	C			.45	.51	
GRP 4203	15	2214	2219D	2215	N14	E56	.861	8730	20.1	5	1-				.19		1 1 1
CULG	15	2214	2219D	2215	N14	E56	.861	8730	20.1	5D	-N	P		2215	.21	.38	
GRP 4204	16	0008	0021	0010	S16	F40	.644	8727	19.0	13	1-				.18		1 1 1
HALE	16	0008	0021	0010	S16	F40	.644	8727	19.0	13	-F	1	C	0010	.15	.20	
GRP 4205	16	0652	0715	0701	N17	E90	1.001	8733	23.0	23	1				.60		1 1 1
CRON	16	0652	0715	0701	N17	E90	1.001	8733	23.0	23	1N	C			.60	2.40	200
GRP 4206	16	0828	0847		S12	W90	1.000	8716	9.6	19	1				.90		1 1 1
CRON	16	0828	0847		S12	W90	1.000	8716	9.6	19	1F	C			.90	3.60	100
GRP 4207	16	0845	0859	0847	N24	E74	.980	8733	21.9	14	1-				.56		2 2 2
MEUD	16	0844	0902	0846	N23	E73	.976	8733	21.8	18	-N	C		0846	.52		
ARCF	16	0846	0855	0848	N25	E75	.984	8733	22.0	9	1N	C		0848	.69	2.00	

SOLAR FLARES

REVISED

MARCH 1967

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 FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$		MAX. INT. %
	1967 MAR																	
GRP 4208	16	1401	1403		N15	E53	.839	8733	20.6	2	1-						1 1 1	
MEUD	16	1401E	1403		N15	E53	.839	8733	20.6	2D	-F	C	1401	.28	.36	.60	CD	
GRP 4209	16	1450	1540		S20	W90	.999	8716	9.9	50	1						1 1 0	
MEUD	16	1450	1540		S20	W90	.999	8716	9.9	50	1	C						
GRP 4210	16	1657	1709	1659	N16	E90	1.001	8733	23.5	12	1-			.20			1 1 1	
HOUS	16	1657	1709	1659	N16	E90	1.001	8733	23.5	12	-F	C		.20	.80		100	
GRP 4211	16	1905	1919	1908	N24	E69	.962	8733	22.0	14	1-			.26			2 2 2	
HOUS	16	1905	1917	1907	N23	E69	.960	8733	22.0	12	-N	C		.20	.50		200	
SACP	16	1905	1921	1908	N24	E68	.957	8733	21.9	16	-N	C		.36	.74		K	
GRP 4212	16	1934	1954	1942	S17	E23	.415	8727	18.5	20	1-			.37			3 3 3	
SACP	16	1933	1954	1943	S17	E23	.415	8727	18.5	21	-F	C		.36	.36			
LOCK	16	1935	1945D	1941U	S15	E23	.405	8727	18.5	10D	-F	C	1941	.40	.40		10	
HOUS	16	1935	1953	1941	S18	E24	.435	8727	18.6	18	-N	C		.40	.40		200	
GRP 4213	16	2102	2121	2108	S17	E23	.415	8727	18.6	19	1-			.51			3 3 3	
CULG	16	2101	2117	2108	S16	E22	.395	8727	18.5	16	-N	i	C	2108	.62	.66		
SACP	16	2101	2121	2108	S17	E22	.401	8727	18.5	20	-N	C		.64	.63			
HOUS	16	2104	2124	2108	S18	E24	.435	8727	18.7	20	-N	C		.40	.40		200	
GRP 4214	16	2105	2117	2114	N17	E48	.801	8733	20.5	12	1-			.47			K	
CULG	16	2105	2117	2114	N17	E48	.801	8733	20.5	12	-N	C	2114	.52	.85		1 1 1	
GRP 4215	16	2138	2147	2139	N17	E80	.992	8733	22.9	9	1-			.28			3 3 3	
HOUS	16	2137	2149	2138	N17	E85	.999	8733	23.3	12	-F	C		.20	.70		100	
CULG	16	2138	2144	2139	N16	E77	.984	8733	22.7	6	-N	C	2139	.31				
HALE	16	2138	2147	2139	N18	E79	.990	8733	22.8	9	-N	i	C	2139	.31			
GRP 4216	16	2151	2254	2223	N23	E66	.946	8733	21.9	63	1-			.25			3 3 3	
CULG	16	2151	2302	2231	N23	E67	.951	8733	21.9	71	-N	C	2231	.41			K	
HALE	16	2228	2245	2230	N22	F63	.929	8733	21.7	17	-N	i	C	2230	.15			
HOUS	16	2157U	2230E	2209U	N23	E69	.960	8733	22.1	33D	-N	C		.20	.50		200	
GRP 4217	16	2210	2227	2215	S17	E22	.401	8727	18.6	17	1-			.42			K	
CULG	16	2209	2223	2215	S16	E22	.395	8727	18.6	14	-N	C	2215	.41	.44		4 4 4	
SACP	16	2209	2224	2216	S16	E21	.381	8727	18.5	15	-N	C		.45	.45			
HALE	16	2210	2231	2215	S16	E20	.366	8727	18.4	21	-N	i	C	2215	.41	.45		
HOUS	16	2211	2228	2215	S18	E24	.435	8727	18.7	17	-N	C		.40	.40		200	
GRP 4218	16	2303	2316	2306	N18	E80	.992	8733	23.0	13	1-			.40			3 3 3	
CULG	16	2302	2318	2307	N18	E83	.997	8733	23.2	16	-N	C	2307	.31				
SACP	16	2303	2315	2306	N17	E79	.989	8733	22.9	12	-N	C		.55				
HALE	16	2304	2315	2306	N18	E79	.990	8733	22.9	11	-B	i	C	2306	.36			
GRP 4219	16	2343	0002	2349	N18	E79	.990	8733	22.9	19	1			.64			2 2 2	
CULG	16	2342	0005	2351	N17	E79	.989	8733	22.9	23	1N	C	2351	.52				
HALE	16	2343	2359	2347	N18	E79	.990	8733	22.9	16	1B	1	C	2347	.67			
GRP 4220	16	2354	0006	2357	S24	F77	.967	8736	22.8	12	1-			.37			1 1 1	
CULG	16	2354	0006	2357	S24	F77	.967	8736	22.8	12	-N	C	2357	.41				
GRP 4221	16	2354	0004	2355	S18	E28	.490	8727	19.1	10	1-			.35			3 3 3	
CULG	16	2354	0008	2355	S19	E38	.626	8727	19.8	14	-B	C	2355	.36	.40			
HALE	16	2354	2359	2355	S18	E28	.490	8727	19.1	5	-B	1	C	2355	.41	.50		
MANI	16	2355E	0005		S17	E19	.358	8727	18.4	10D	-N	2		.26	.28			
GRP 4222	17	0022	0027	0025	N17	E47	.792	8733	20.5	5	1-			.28			1 1 1	
CULG	17	0022	0027	0025	N17	E47	.792	8733	20.5	5	-F	C	0025	.31	.48			
GRP 4223	17	0026	0040	0030	S17	E20	.373	8727	18.5	14	1-			.49			4 4 4	
SACP	17	0024	0042	0030	S16	E20	.366	8727	18.5	18	-N	C		.73	.72			
HALE	17	0025	0044	0029	S17	E20	.373	8727	18.5	19	-B	2	C	0029	.62	.70		E
CULG	17	0026	0035	0029	S16	E21	.381	8727	18.6	9	-N	C	0029	.31	.33			
MANI	17	0028	0037	0030	S17	E20	.373	8727	18.5	9	-F	2	C	0030	.31	.33		U
GRP 4224	17	0103	0152	0117	S21	F80	.979	8736	23.0	49	1-			.19			1 1 1	
CULG	17	0103	0152	0117	S21	F80	.979	8736	23.0	49	-N	C	0117	.21				
GRP 4225	17	0345	0421	0355	S23	W78	.971	8716	11.3	36	1-			.37			1 1 1	
CULG	17	0345	0421	0355	S23	W78	.971	8716	11.3	36	-N	P	0355	.41				
GRP 4226	17	0733	0737	0734	S16	W22	.395	8721	15.7	4	1-			.28			1 1 1	
CULG	17	0733	0737	0734	S16	W22	.395	8721	15.7	4	-N	C	0734	.31	.33			
GRP 4227	17	0745	0815	0800	S15	E14	.273	8727	18.4	30	1			2.06			1 1 1	
MONT	17	0745	0815	0800	S15	E14	.273	8727	18.4	30	1N	C	0800	2.06			0	
GRP 4228	17	0910	0940	0913	N25	E60	.918	8733	21.9	30	1-			.22			1 1 1	
ARCE	17	0910	0940D	0913	N25	E60	.918	8733	21.9	30D	-N	C	0913	.22	.50		D	
GRP 4229	17	1010	1023		S15	F12	.245	8727	18.3	13	1-			.41			1 1 1	
MONT	17	1010	1023E		S15	E12	.245	8727	18.3	13D	-N	C	1015	.41			0	
GRP 4230	17	1034	1037		S15	E15	.287	8727	18.6	3	1-			.66			1 1 1	
ATHN	17	1034E	1037		S15	F15	.287	8727	18.6	3D	-F	i	1034	.66	.70	1.40		
GRP 4231	17	1051	1056	1053	S17	E24	.429	8727	19.3	5	1-			.99			1 1 1	
ATHN	17	1051	1056D	1053	S17	E24	.429	8727	19.3	5D	-F	1	1053	.99	1.80	1.20		
GRP 4232	17	1116	1127	1117	S17	F17	.331	8727	18.7	11	1-			.41			1 1 1	
ATHN	17	1116	1127D	1117	S17	E17	.331	8727	18.7	11D	-F	1	1117	.41	.40	1.30		

# SOLAR FLARES

REVISED

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
1967 MAR																		
GRP 4233	17	1145	1204		S16	E20	.366	8727	19.0	19	1-						3 3 3	
CAPS	17	1145E	1158D		S16	E20	.366	8727	19.0	13D	-F	3	1146	1.80	1.90		CE	
HUAN	17	1145E	1158		S16	E22	.395	8727	19.1	13D	-N	2	1146	.62	.62		E	
MONT	17	1145	1215		S17	E18	.345	8727	18.8	30	-N		1150	1.03			O	
GRP 4234	17	1234	1247	1237	N22	W60	.910	8719	13.0	13	1-			.35			1 1 1	
HUAN	17	1234	1247	1237	N22	W60	.910	8719	13.0	13	-F	1	1237	.45	.75		E	
GRP 4235	17	1605	1626	1613	N22	E55	.877	8733	21.8	21	1-			.20			1 1 1	
HOU5	17	1605U	1626	1613U	N22	E55	.877	8733	21.8	21U	-F			.20	.40		EI	
GRP 4236	17	1620	1646	1627	N16	E65	.929	8733	22.6	26	1-			.50			1 1 1	
HOU5	17	1620	1646	1627	N16	E65	.929	8733	22.6	26	-F			.50	1.30		EK	
GRP 4237	17	1840	1940	1905	N18	W66	.938	8719	12.8	60	1-			.27			1 1 1	
LOCK	17	1840	1940	1905	N18	W66	.938	8719	12.8	60	-F		1905	.30	.70		JK	
GRP 4238	17	1930	1938	1931	S16	E19	.352	8727	19.2	8	1-			.84			3 3 3	
LOCK	17	1929	1936	1931	S15	E19	.346	8727	19.2	7	-F		1931	.80	.90			
HUAN	17	1930	1937	1931	S16	E18	.337	8727	19.2	7	-F	1	1931	1.00	1.00		E	
HOU5	17	1930	1940	1932	S17	E19	.359	8727	19.2	10	-N			.80	.80		200	
GRP 4239	17	1950	2024	2001	N29	W02	.590	8729	17.7	34	1-			.40			1 1 1	
HOU5	17	1950	2024	2001	N29	W02	.590	8729	17.7	34	-F			.40	.50		100	
GRP 4240	17	2022	2055	2031	N25	E53	.872	8733	21.8	33	1-			.64			4 4 4	
LOCK	17	2018	2050	2033	N26	E50	.855	8733	21.6	32	-F		2033	.90	1.70		10	
HOU5	17	2019	2110	2035	N23	E54	.873	8733	21.9	51	-N			.40	.80		200	
MCMA	17	2023	2050	2026	N26	E54	.883	8733	21.9	27	-F		2026	.41	.80		D	
HUAN	17	2029	2050		N25	E55	.886	8733	22.0	21	-N	1	2036	.80	1.20		E	
GRP 4241	17	2038	2101	2044	S17	E13	.277	8727	18.8	23	1-			1.08			5 5 5	
SACP	17	2035	2104	2042	S17	E12	.264	8727	18.8	29	-F			1.10	1.08			
LOCK	17	2038	2052	2043	S15	E13	.258	8727	18.8	14	-N		2043	1.10	1.10		20	
HUAN	17	2038	2101		S16	E12	.254	8727	18.8	23	-N	1	2042	1.55	1.55		E	
HOU5	17	2038	2114	2046	S18	E14	.300	8727	18.9	36	-N			.70	.70		200	
MCMA	17	2040	2055	2043	S17	E13	.277	8727	18.8	15	-N		2043	.83	.80		EI	
GRP 4242	17	2046	2104		N18	F69	.954	8733	23.0	18	1-			.18			1 1 1	
HUAN	17	2046E	2104D		N18	F69	.954	8733	23.0	18D	-F	1	2056	.25			D	
GRP 4243	17	2129	2146	2130	S16	E15	.295	8727	19.0	17	1-			.49			3 3 3	
LOCK	17	2127	2136	2130	S14	E14	.265	8727	18.9	9	-F		2130	.40	.40		10	
HUAN	17	2129	2155D		S17	E17	.331	8727	19.2	26D	-F	1	2131	.57	.57		E	
MCMA	17	2130	2133D		S17	F13	.277	8727	18.9	3D	-N		2132	.41	.42		E	
GRP 4244	17	2151	2223	2200	N24	F52	.862	8733	21.8	32	1-			1.25			4 4 4	
SACP	17	2148	2223	2202	N24	F53	.869	8733	21.9	35	1F			2.00	2.97			
HOU5	17	2150	2227	2156	N22	E51	.846	8733	21.7	37	-N			.90	1.70		200	
HUAN	17	2152	2155D		N24	E55	.883	8733	22.0	3D	1N	1	2153	1.60	2.34		E	
LOCK	17	2152	2220	2202	N27	F50	.859	8733	21.7	28	1F		2202	1.10	2.10		10	
GRP 4245	17	2221	2231	2225	N18	E64	.927	8733	22.7	10	1-			.25			2 2 2	
HOU5	17	2220	2232	2224	N17	E67	.942	8733	23.0	12	-N			.20	.50		200	
LOCK	17	2222	2229	2225	N19	E61	.910	8733	22.5	7	-F		2225	.30	.60		10	
GRP 4246	17	2241	2304	2248	N20	W30	.644	8729	15.7	23	1-			.41			1 1 1	
SACP	17	2241	2304	2248	N20	W30	.644	8729	15.7	23	-F			.45	.51			
GRP 4247	17	2335	0040	0000	N18	W66	.938	8719	13.0	65	1-			.18			1 1 1	
LOCK	17	2335	0040	0000	N18	W66	.938	8719	13.0	65	-F		0000	.20	.50		10	
GRP 4248	17	2345	0001	2349	N18	E85	.999	8738	24.4	16	1-			.90			1 1 1	
CRON	17	2345	0001	2349	N18	E85	.999	8738	24.4	16	-N			.90	3.00		200	
GRP 4249	17	2356	0012	2358	S27	F78	.971	8739	23.8	16	1-			.20			1 1 1	
CRON	17	2356	0012	2358	S27	F78	.971	8739	23.8	16	-N			.20	.60		200	
GRP 4250	18	0015	0038	0023	S15	E11	.231	8727	18.8	23	1-			.94			1 1 1	
LOCK	18	0015	0038	0023	S15	F11	.231	8727	18.8	23	-F		0023	.90	.90		10	
GRP 4251	18	0203	0216	0207	N17	E69	.953	8733	23.3	13	1-			.50			1 1 1	
MANI	18	0203E	0216	0207	N17	E69	.953	8733	23.3	13D	-F	3	0207	.62	1.34			
GRP 4252	18	0215	0237	0220	N12	W85	.998	8719	11.7	22	1-			.30			1 1 1	
CRON	18	0215	0237	0220	N12	W85	.998	8719	11.7	22	-N			.30	1.00		200	
GRP 4253	18	0305	0342		S10	E17	.293	8727	19.4	37	1-			1.09			1 1 1	
SIBE	18	0305E	0342D		S10	E17	.293	8727	19.4	37D	-F		0324	1.52	1.60		62	
GRP 4254	18	0434	0501	0439	S17	E69	.927	8736	23.4	27	1-			.88			1 1 1	
MANI	18	0434E	0501	0439	S17	E69	.927	8736	23.4	27D	-F	2	0439	1.03	1.11			
GRP 4255	18	0538	0613	0543	N09	W86	.999	8719	11.8	35	1-			.42			1 1 1	
MANI	18	0538	0613	0543	N09	W86	.999	8719	11.8	35	-N	2	0543	.52	1.50			
GRP 4256	18	0828	0923	0852	S15	E08	.193	8727	19.0	55	1-			3.60			5 4 5	
CRON	18	0828	0911	0843	S15	E09	.205	8727	19.0	43	1N			2.50	2.60		200	
CATA	18	0842E	0910D	0852	S15	E08	.193	8727	19.0	28D	2B		0852	6.87	7.00		327	
CAPS	18	0842E	0911D		S14	E07	.169	8727	18.9	29D	1F	1	0844	4.00	4.00		CF	
ABST	18	0835E	0900D	0854	S15	E10	.218	8727	19.1	25D	-F		0854	1.80	1.80		EJ	
MANI	18	0852E	0948D	0857	S17	E07	.208	8727	18.9	56D	1F	2	0857	2.17	2.29			
GRP 4257	18	1205	0000	NO FLARE	PATROL													
SACP	18	1354	1439	1405	N16	E48	.797	8733	22.2	45	1-			.50			1 1 1	
	18	1354	1439	1405	N16	E48	.797	8733	22.2	45	-N			.55	.71			



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
	1967																		
	MAR																		
GRP 4258	18	1533	1548	1536	N23	W79	.992	8719	12.7	15	1-					.37			3 3 2
SACP	18	1532	1600	1536	N23	W76	.985	8719	12.9	28	-N					.63			
MCMA	18	1534	1541	1535	N24	W80	.994	8719	12.6	7	-N								D
HUAN	18	1535E	1544		N23	W80	.994	8719	12.6	9D	-N								D
GRP 4259	18	1539	1606	1542	N23	E41	.768	8733	21.7	27	1-					.25			3 3 3
HUAN	18	1539	1606		N22	E41	.762	8733	21.7	27	-N					.75	.96		E
SACP	18	1539	1608	1540D	N22	E41	.762	8733	21.7	29	-N					.83	1.02		
MCMA	18	1540	1605	1543	N24	E40	.765	8733	21.7	25	-N					.41	.60		E
GRP 4260	18	1713	1734	1722	N24	W85	1.000	8719	12.3	21	1-					.20			1 1 1
HOU5	18	1713	1734	1722	N24	W85	1.000	8719	12.3	21	-F					.20			100
GRP 4261	18	1733	1806	1739	N20	E50	.830	8733	22.5	33	1-					.40			1 1 1
HOU5	18	1733	1806	1739	N20	E50	.830	8733	22.5	33	-F					.40	.70		100
GRP 4262	18	1954	2030	1958	N25	E40	.771	8733	21.8	36	1-					.51			2 2 2
LOCK	18	1952	2014	1959	N27	E38	.768	8733	21.7	22	-F					.80	1.30		10
HOU5	18	1955	2045	1957	N22	E42	.771	8733	22.0	50	-F					.20	.30		100
GRP 4263	18	2224	2309	2252	N17	E49	.810	8733	22.6	45	1-					.28			1 1 1
CULG	18	2224	2309D	2252	N17	E49	.810	8733	22.6	45D	-N					.31	.54		F
GRP 4264	18	2334	2347	2340	N24	E34	.713	8733	21.5	13	1-					.29			1 1 1
LOCK	18	2334	2347	2340	N24	E34	.713	8733	21.5	13	-F					.29			10
GRP 4265	19	0144	0154	0148	N24	E30	.678	8733	21.3	10	1-					.18			1 1 1
HALE	19	0144	0154	0148	N24	E30	.678	8733	21.3	10	-F					.15	.20		
GRP 4266	19	0236	0256	0248	S17	W04	.185	8727	18.8	20	1-					.58			2 2 2
HALE	19	0235	0258D	0251U	S17	W03	.180	8727	18.9	23D	-N					.62	.62		
CULG	19	0236	0253D	0244	S17	W05	.192	8727	18.7	17D	-N					.46	.45		
GRP 4267	19	0244	0329	0252	N23	E36	.723	8733	21.8	45	1					2.55			6 6 6
CULG	19	0242	0343	0253	N23	E34	.705	8733	21.7	61	1B					2.68	3.64		
HALE	19	0244E	0309D	0254U	N22	E36	.716	8733	21.8	25D	1B					2.37	3.40		
MITK	19	0245	0310D	0250	N23	E36	.723	8733	21.8	25D	1N					2.68	3.90		
MANI	19	0245	0330	0252	N22	E37	.725	8733	21.9	45	1N					3.09	4.47		
CRON	19	0246	0314	0253	N23	E36	.723	8733	21.8	28	-N					1.70	2.40		200
KODA	19	0249E	0258D	0250	N23	E36	.723	8733	21.8	9D	1N					3.22	4.70	1.80	E BI
GRP 4268	19	0348	0354		N21	W80	.993	8719	13.2	6	1-					.20			1 1 1
MANI	19	0348E	0354		N21	W80	.993	8719	13.2	60	-F					.26	.68		
GRP 4269	19	0548	0610		N26	E48	.840	8733	22.8	22	1-					.99			1 1 1
ATHN	19	0548E	0610		N26	E48	.840	8733	22.8	22D	-N					.99	1.60	1.50	
GRP 4270	19	0918	0922	0919	N19	E45	.782	8733	22.8	4	1-					.33			1 1 1
ATHN	19	0918	0922	0919	N19	E45	.782	8733	22.8	4	-N					.33	.50	1.50	
GRP 4271	19	0938	1003	0951	S15	W08	.193	8727	18.8	25	1-					1.43			6 6 4
ATHN	19	0921	0957	0945	S15	W08	.193	8727	18.8	36	-N					.99	1.20	1.40	
ARCE	19	0940	1000D	0949	S15	W09	.205	8727	18.7	20D	-N					1.26	1.30		
BUCA	19	0940E	1005D		S16	W08	.206	8727	18.8	25D	1N					2.21	2.30		
ISTA	19	0940	0955		S16	W09	.217	8727	18.7	15	-F								
CAPS	19	0942E	1003D		S15	W05	.162	8727	19.0	21D	-N								E
MONT	19	0945	1015	1000	S15	W07	.182	8727	18.9	30	-N					1.55			OE
GRP 4272	19	1618	1630	1622	N22	E47	.814	8733	23.2	12	1-					.61			2 2 2
LOCK	19	1617	1636	1622	N21	E45	.792	8733	23.1	19	-N					.60	1.00		20
MCMA	19	1619	1624	1621	N22	E48	.822	8733	23.3	5	-N					.41	.70		H D
GRP 4273	19	1734	1740	1734	S48	W53	.871		15.8	6	1-					.24			1 1 1
SACP	19	1734E	1740U	1734U	S48	W53	.871		15.8	6U	-F					.27	.41		
GRP 4274	19	1759	1823	1801	S15	W11	.231	8727	18.9	24	1-					.43			1 1 1
HALE	19	1759	1823	1801	S15	W11	.231	8727	18.9	24	-N					.36	.40		
GRP 4275	19	1918	1926	1923	N23	E25	.626	8733	21.7	8	1-					.49			1 1 1
HALE	19	1918	1926D	1923	N23	E25	.626	8733	21.7	8D	-F					.41	.50		V
GRP 4276	19	1945	2005	1952	S20	E41	.666	8736	22.9	20	1-					.19			1 1 1
LOCK	19	1945	2005	1952	S20	E41	.666	8736	22.9	20	-F					.20	.30		10
GRP 4277	19	1951	2010	2000	N20	E32	.663	8733	22.2	19	1-					.49			1 1 1
HALE	19	1951	2010	2000	N20	E32	.663	8733	22.2	19	-N					.41	.50		
GRP 4278	19	2004	2057	2035	N17	E41	.733	8733	22.9	53	1-					.06			1 1 1
HALE	19	2004	2057D	2035	N17	E41	.733	8733	22.9	53D	-B					.05	.10		D
GRP 4279	20	0017	0108	0058	N21	E43	.774	8733	23.2	51	1-					.28			1 1 1
CULG	20	0017	0108	0058	N21	E43	.774	8733	23.2	51	-N					.31	.48		CL
GRP 4280	20	0125	0150		N18	E42	.748	8733	23.2	25	1-					.20			1 1 1
IKOM	20	0125E	0150D		N18	E42	.748	8733	23.2	25D	-F					.41	.60		70
GRP 4281	20	0225	0241	0228	N21	E43	.774	8733	23.3	16	1-					.88			D 2 2 2
CULG	20	0223	0245	0228	N21	E43	.774	8733	23.3	22	-N					.83	1.28		L
CRON	20	0226	0236	0228	N21	E42	.765	8733	23.3	10	-F					1.00	1.50		100
GRP 4282	20	0347	0400	0350	N27	E17	.613	8733	21.4	13	1-					.28			J 2 2 2
CULG	20	0347	0400	0350	N27	E17	.613	8733	21.4	13	-N					.41	.50		H
MANI	20	0350E	0400		N26	E17	.601	8733	21.4	10D	-F					.21	.26		
GRP 4283	20	0425	0451	0435	N22	E22	.590	8733	21.8	26	1-					.75			1 1 1
CULG	20	0425	0451	0435	N22	E22	.590	8733	21.8	26	-N					.83	1.00		

# SOLAR FLARES

REVISED

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS				REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP DAY	COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha	MAX. INT. %
					LAT.	MER. DIST.													
GRP 4284	20	0540	0544		N18	E35	.678	8733	22.9	4	1-		.20				1 1 1		
IKOM	20	0540E	0544D		N18	E35	.678	8733	22.9	4D	-F	V	0540	.41	.60		D		
GRP 4285	20	0611	0625	0613	N23	E18	.571	8733	21.6	14	1-		.37				1 1 1		
CULG	20	0611	0625	0613	N23	E18	.571	8733	21.6	14	-N	C	0613	.41	.50				
GRP 4286	20	0808	0830	0807	N19	F38	.715	8733	23.2	22	1-		1.54				2 2 2		
ARCE	20	0815E	0825		N21	E39	.737	8733	23.3	10D	1N	C	0820	1.52	2.00		H		
MONT	20	0800	0835	0807	N17	E36	.681	8733	23.0	35	-B		0807	1.55			O		
GRP 4287	20	0844	0904	0852	N19	E37	.705	8733	23.1	20	1-		.85				4 4 4		
CATA	20	0815E	0900D	0857	N17	E39	.712	8733	23.3	45D	-B		0857	.88	1.20		282		
ARCE	20	0845	0900	0855	N21	E36	.709	8733	23.1	15	-N	C	0855	.44	.60				
CAPP	20	0846	0900D		N19	E35	.685	8733	23.0	14D	-N	V	0849	1.18	1.59				
MONT	20	0840	0915	0845	N17	E36	.681	8733	23.1	35	-B		0845	1.55			O		
GRP 4288	20	0854	1003	0904	N17	E90	1.001	8740	27.1	69	1-		1.20				4 4 2		
ARCE	20	0855E	0910D	0905	N19	E90	1.001	8740	27.1	15D	1N	C	0905	.89			191		
CATA	20	0855E	0911D	0903	N12	E90	1.000	8740	27.1	16D	1N		0903	1.51			A		
CAPP	20	0850	1006		N17	E90	1.001	8740	27.1	76	1N	C					A		
MONT	20	0855	1000		N19	E90	1.001	8740	27.1	65	1B								
GRP 4289	20	1010	1030		N17	E35	.671	8733	23.0	20	1-		.83				1 1 1		
MONT	20	1010E	1030D		N17	E35	.671	8733	23.0	20D	-N		1010	.83			O		
GRP 4290	20	1056	1102		N17	E90	1.001	8740	27.2	6	1-						1 1 0		
CAPP	20	1056E	1102D		N17	E90	1.001	8740	27.2	6D	1N						A		
GRP 4291	20	1159	1223		S17	W22	.402	8727	18.8	24	1-		1.24				3 3 3		
CAPP	20	1155E	1215D		S14	W23	.401	8727	18.8	28D	-F	V	1205	1.46	1.68				
CAPS	20	1158	1226D		S22	W18	.389	8727	19.1	28D	1N	3	1211	2.00	2.10		164		
MEUD	20	1205	1220		S15	W25	.435	8727	18.6	15	-N	C	1206	.93	1.00		E		
GRP 4292	20	1230	1430		N25	E90	1.001	8740	27.3	120	1-						1 1 0		
CAPP	20	1230E	1430D		N25	E90	1.001	8740	27.3	120D	1N	P					A		
GRP 4293	20	1344	1357	1351	N18	E41	.738	8733	23.6	13	1-		1.09				2 2 2		
SACP	20	1344	1357	1351	N15	E43	.743	8733	23.8	13	-N	C		1.66	2.03				
MEUD	20	1348E	1354D	1350	N20	E38	.721	8733	23.4	6D	-N	C	1350	.83	1.10				
GRP 4294	20	1348	1356		N31	E26	.713	8733	22.5	8	1		1.81				1 1 1		
CAPS	20	1348E	1356		N31	E26	.713	8733	22.5	8D	1N	3	1350	1.80	2.50		189		
GRP 4295	20	1356	1415		N27	E22	.645	8733	22.2	19	2-		4.41				1 1 1		
CAPS	20	1356	1415		N27	E22	.645	8733	22.2	19	2N	3	1404	4.00	5.20		212		
GRP 4296	20	1356	1421	1408	N18	E33	.657	8733	23.1	25	1-		1.27				4 4 4		
CAPP	20	1356	1418	1414	N19	E34	.675	8733	23.1	22	1N	V	1414	2.35	3.19				
HUAN	20	1407E	1415D		N18	E32	.647	8733	23.0	8D	-N	1	1407	1.08	1.22		E		
SACP	20	1356	1424	1401	N18	F33	.657	8733	23.1	28	1N	C		2.20	2.46				
MEUD	20	1358E	1405D		N18	E33	.657	8733	23.1	7D	-N	C	1402	1.03	1.30		E		
GRP 4297	20	1554	1615		N20	F36	.702	8733	23.4	21	1-		.23				1 1 1		
HUAN	20	1554	1615D		N20	F36	.702	8733	23.4	21D	-F	1	1555	.25	.29		D		
GRP 4298	20	1707	1724	1716	N25	E71	.971	8740	26.0	17	1-		.63				1 1 1		
LOCK	20	1707	1724	1716	N25	E71	.971	8740	26.0	17	-F	C	1716	.70	2.00		10		
GRP 4299	20	1930	1957	1944	N17	E28	.597	8733	22.9	27	1-		.82				1 1 1		
LOCK	20	1930	1957	1944	N17	E28	.597	8733	22.9	27	-F	C	1944	.80	1.00		10		
GRP 4300	20	2034	2100	2042	S16	W30	.510	8727	18.6	26	1-		1.07				1 1 1		
SACP	20	2034	2100	2042	S16	W30	.510	8727	18.6	26	-F	C		1.19	1.23				
GRP 4301	20	2037	2124	2037	S16	E29	.496	8736	23.0	47	1-		.47				1 1 1		
CULG	20	2037E	2124D	2037	S16	E29	.496	8736	23.0	47D	-N	P	2037	.52	.58				
GRP 4302	20	2227	2242	2232	N18	E27	.596	8733	23.0	15	1-		.19				1 1 1		
LOCK	20	2227	2242	2232	N18	F27	.596	8733	23.0	15	-F	C	2232	.20	.30		10		
GRP 4303	20	2301	2312	2304	N18	E27	.596	8733	23.0	11	1-		.64				2 2 2		
SACP	20	2300	2308	2303	N18	E28	.606	8733	23.1	8	-F	C		.73	.79				
LOCK	20	2301	2316	2305	N18	E26	.586	8733	22.9	15	-F	C	2305	.60	.70		10		
GRP 4304	20	2310	0020	2345	N26	E21	.627	8733	22.5	70	1		2.21				4 4 4		
SACP	20	2310	0000D	2345	N23	F21	.593	8733	22.5	50D	1N	C		2.57	2.77				
LOCK	20	2310	0015	2340	N24	E21	.605	8733	22.5	65	1N	C	2340	1.80	2.30		20		
MANI	20	2310	0025		N33	E22	.709	8733	22.6	75	1F	2	2340	3.40	4.32				
CULG	20	2326E	0021	2350	N23	E21	.593	8733	22.6	55D	-N	P	2350	1.24	1.60		F		
GRP 4305	20	2357	0002	2358	N22	E05	.492	8733	21.4	5	1-		.45				3 3 3		
CULG	20	2356	0002	2357	N22	E06	.495	8733	21.4	6	-N	C	2357	.41	.46				
LOCK	20	2357	0002	2358	N23	E03	.503	8733	21.2	5	-F	C	2358	.40	.50		10		
SACP	20	2358	0000D	2359	N22	F06	.495	8733	21.4	2D	-N	C		.64	.65				
GRP 4306	21	0015	0021	0017	N24	E04	.519	8733	21.3	6	1-		.41				3 3 3		
LOCK	21	0015	0020	0017	N23	E03	.502	8733	21.2	5	-F	C	0017	.40	.50		10		
CULG	21	0015	0021	0016	N24	E03	.517	8733	21.2	6	-N	C	0016	.62	.68				
MANI	21	0016	0022	0018	N24	E05	.521	8733	21.4	6	-N	2	0018	.31	.37				
GRP 4307	21	0102	0133	0116	N18	E25	.576	8733	22.9	31	1-		.42				2 2 2		
CULG	21	0059	0140	0116	N17	E24	.556	8733	22.8	41	-N	C	0116	.52	.63				
MANI	21	0105	0125		N18	E25	.576	8733	22.9	20	-F	2	0107	.41	.50				



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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$		MAX. INT. %
					LAT.	MER. DIST.												
1967 MAR																		
GRP 4335	21	2036	2144	2043	N24	W04	.519	8733	21.6	68	1-			.40				1 1 1
HOUS	21	2036	2144	2043U	N24	W04	.519	8733	21.6	33	-F	C		.40	.50		100	
GRP 4336	21	2037	2101	2049	N24	E57	.896	8740	26.1	24	1-			.53				2 2 2
HOUS	21	2037	2105	2047	N24	E57	.896	8740	26.1	28	-B	C		.40	.80		200	I
CULG	21	2049E	2056	2050	N23	E57	.893	8740	26.1	70	-B	P	2050	.72	1.58			Z
GRP 4337	21	2056	2120	2058	N26	W61	.925	8729	17.3	24	1-			.19				1 1 1
CULG	21	2056	2120	2058	N26	W61	.925	8729	17.3	24	-N	C	2058	.21				L
GRP 4338	21	2121	2137	2126	N24	E57	.896	8740	26.2	16	1-			.40				1 1 1
HOUS	21	2121	2137	2126	N24	E57	.896	8740	26.2	16	-N	C		.40	.80		200	I
GRP 4339	21	2128	2142	2130	S15	W43	.680	8727	18.7	14	1-			.20				1 1 1
HOUS	21	2128	2142	2130	S15	W43	.680	8727	18.7	14	-F	C		.20	.30		100	
GRP 4340	21	2139	2202	2142	N20	E80	.993	8740	27.9	23	1-			.50				1 1 1
HOUS	21	2139	2202	2142	N20	E80	.993	8740	27.9	23	-N	C		.50	1.70		200	I
GRP 4341	21	2145	2206	2200	S17	W49	.753	8727	18.2	21	1-			.10				1 1 1
HOUS	21	2145	2206	2200	S17	W49	.753	8727	18.2	21	-F	C		.10	.20		100	E
GRP 4342	21	2155	2215	2200	N26	W05	.550	8733	21.5	20	1-			1.31				3 3 3
SACP	21	2155	2215	2200	N26	W05	.550	8733	21.5	20	1N	C		2.19	2.30			
HOUS	21	2155	2216	2200	N26	W05	.550	8733	21.5	21	-N	C		.80	1.00		200	EHI
LOCK	21	2156	2213	2159	N25	W06	.538	8733	21.5	17	-N	C	2159	1.10	1.30		20	L
GRP 4343	21	2224	2245	2229	N18	E15	.486	8733	23.1	21	1-			.30				1 1 1
HOUS	21	2224	2245	2229	N18	E15	.486	8733	23.1	21	-N	C		.30	.30		200	E
GRP 4344	21	2246	2305	2249	N24	E57	.896	8740	26.2	19	1-			.50				1 1 1
HOUS	21	2246	2305	2249	N24	E57	.896	8740	26.2	19	-F	C		.50	1.10		100	H
GRP 4345	21	2251	2254	2252	S09	E26	.435	8739	23.9	3	1-			.20				1 1 1
HOUS	21	2251	2254	2252	S09	E26	.435	8739	23.9	3	-F	C		.20	.20		100	
GRP 4346	21	2335	2345	2337	N01	E29	.500	8733	24.2	10	1-			.20				1 1 1
HOUS	21	2335	2345U	2337	N01	E29	.500	8733	24.2	10U	-F	C		.20	.20		100	
GRP 4347	21	2350	0006	2357	N19	E10	.467	8733	22.7	16	1-			.19				1 1 1
LOCK	21	2350	0006	2357	N19	E10	.467	8733	22.7	16	-F	C	2357	.20	.20		10	
GRP 4348	22	0002	0015	0009	N28	W09	.589	8733	21.3	13	1-			.30				1 1 1
CRON	22	0002	0015	0009	N28	W09	.589	8733	21.3	13	-F	C		.30	.40		100	
GRP 4349	22	0022	0135	0033	N24	E68	.957	8740	27.1	73	3-			4.20				5 4 5
CULG	22	0013	0140D	0033	N23	E69	.960	8740	27.2	87D	2B	P	0033	3.82				F
SACP	22	0022	0044D	0034	N25	E70	.967	8740	27.3	22D	3B	C		6.46	14.33			
LOCK	22	0025	0120D	0033	N25	E68	.958	8740	27.1	55D	3B	C	0033	4.70	12.70		30	L
MANI	22	0025	0145	0034	N23	E68	.956	8740	27.1	80	2B	C	0034	4.54	9.70			
CRON	22	0026	0053	0033	N25	E67	.954	8740	27.0	27	1B	C		2.00	5.30		300	EI
GRP 4350	22	0138	0240	0154	N24	E69	.961	8740	27.2	62	1			1.28				5 4 4
SIBE	22	0050E	0250	0151	N25	E72	.974	8740	27.4	120D	1F	P	0151	1.90			77	ABEFTU
CRON	22	0122	0234	0155	N24	E70	.965	8740	27.3	72	1N	C		1.00	2.80		200	
MITK	22	0128E	0218D		N26	E67	.955	8740	27.1	50D	3F	C	0156	7.94				Y
MANI	22	0148	0236	0155	N24	E68	.957	8740	27.2	48	1N	C	0155	1.65	3.70			
CULG	22	0149E	0202D	0155	N23	E70	.964	8740	27.3	13D	1N	P	0155	1.03				
GRP 4351	22	0414	0447	0422	N25	E51	.857	8740	26.0	33	1-			.71				5 5 5
CULG	22	0411	0454	0424	N24	E53	.868	8740	26.1	43	-B	C	0424	1.03	2.00			
TACH	22	0413	0442	0420	N25	E40	.770	8740	25.2	29	-B	C	0420	.83	1.30	2.30	81	E
CRON	22	0415	0443	0424	N25	E54	.879	8740	26.2	28	-N	C		.70	1.40		200	E
MITK	22	0416	0432D	0420	N25	E52	.865	8740	26.1	16D	-N	C	0420	1.03	2.00			F
MANI	22	0417	0449	0422	N24	E54	.875	8740	26.2	32	-B	C	0422	.62	1.15			
GRP 4352	22	0840	0900		N16	E22	.525	8733	24.0	20	1-			.89				1 1 1
ARCE	22	0840E	0900D		N16	E22	.525	8733	24.0	20D	-N	C	0840	.86	1.00			H
GRP 4353	22	0942	1005		N25	E51	.857	8740	26.2	23	1-			1.04				1 1 1
ARCE	22	0942E	1005D		N25	E51	.857	8740	26.2	23D	1N	C	1005	1.04	2.00			Z
GRP 4354	22	1200	1245		S18	W43	.686	8727	19.3	45	1-			1.55				1 1 1
MONT	22	1200	1245		S18	W43	.686	8727	19.3	45	-N	C	1215	1.55				O
GRP 4355	22	1220	1315		N17	E20	.516	8733	24.0	55	1-			.62				1 1 1
MONT	22	1220	1315		N17	E20	.516	8733	24.0	55	-N	C	1230	.62				OD
GRP 4356	22	1331	1354	1337	N24	E48	.830	8740	26.2	23	1-			.71				4 4 4
MONT	22	1330	1348	1334	N26	E48	.839	8740	26.2	18	-B			.41				OE
MEUD	22	1332	1345	1334	N22	E48	.822	8740	26.2	13	-N	C	1334	.77	1.30			EZ
CAPS	22	1332E	1357D		N22	E49	.830	8740	26.2	25D	-N	C	1337	.80	1.40		170	CE
ATHN	22	1344E	1404	1344	N25	E47	.827	8740	26.1	20D	-N	C	1344	.99	1.70	1.70		
GRP 4357	22	1533	1535		S17	W47	.730	8727	19.1	2	1-			.43				1 1 1
MCMA	22	1533	1535D		S17	W47	.730	8727	19.1	2D	-N	P	1534	.31	.40			E
GRP 4358	22	1545	1553	1549	N24	W17	.576	8733	21.4	8	1-			.50				1 1 1
SACP	22	1545	1553	1549	N24	W17	.576	8733	21.4	8	-F	C		.55	.58			
GRP 4359	22	1603	1622		N25	E46	.819	8740	26.1	19	1-			.52				1 1 1
MCMA	22	1603E	1622		N25	E46	.819	8740	26.1	19D	-F	C	1605	.36	.60			E
GRP 4360	22	1848	1909	1851	N22	W19	.566	8733	21.4	21	1-			.63				2 2 2
MCMA	22	1848	1857	1850	N22	W18	.558	8733	21.4	9	-N	C	1850	.31	.40			EH
LOCK	22	1848	1920	1851	N21	W19	.554	8733	21.4	32	-N	C	1851	.80	1.00		20	L



# SOLAR FLARES

REVISED

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.														
	1967 MAR																			
GRP 4385	23	2235	2251	2239	N23	E42	.775	8740	27.1	16	1-			.69				4	4	4
LOCK	23	2234	2243U	2238	N24	E42	.781	8740	27.1	9U	-N	C	2238	.80	1.30			20		
SACP	23	2235	2245D	2239	N23	E44	.792	8740	27.2	10D	-N	C		.92	1.19					
MANI	23	2235	2251	2239	N23	E45	.801	8740	27.3	16	-N	1	2239	.31	.52					
CULG	23	2235	2251	2240	N22	E35	.706	8740	26.6	16	-N	C	2240	.93	1.35					
GRP 4386	23	2328	0000	2334	N25	E44	.803	8740	27.3	32	1			1.90				4	4	4
SACP	23	2327	2358	2333	N26	E42	.792	8740	27.1	31	1B	C		3.30	4.26					
CULG	23	2328E	0002D	2333	N24	E44	.798	8740	27.3	34D	-B	P	2333	.93	1.53					F
MITK	23	2329	2359	2331	N25	E45	.811	8740	27.4	30	1N	C	2331	2.17	3.60					F
MANI	23	2334E	0000	2338	N26	E45	.816	8740	27.4	26D	1B	2	2338	2.27	3.78					
GRP 4387	24	0009	0027	0012	N25	E28	.669	8740	26.1	18	1-			.94				3	3	3
SACP	24	0007	0031	0013	N24	E28	.659	8740	26.1	24	-N	C		1.57	1.78					
MANI	24	0010	0023	0013	N25	E28	.669	8740	26.1	13	-F	2	0013	.93	1.27					
MITK	24	0010	0026	0011	N25	E27	.661	8740	26.0	16	-F	C	0011	.83	1.10					
GRP 4388	24	0157	0223	0204	N18	W73	.971	8731	18.6	26	1-			.28				1	1	1
MANI	24	0157	0223	0204	N18	W73	.971	8731	18.6	26	-N	1	0204	.36	.88					
GRP 4389	24	0218	0313	0224	N12	E62	.902	8741	28.7	55	1-			.37						
CULG	24	0218	0313	0224	N12	E62	.902	8741	28.7	55	-N	C	0224	.41	.90					H
GRP 4390	24	0528	0605	0531	N14	W83	.996	8731	18.0	37	1-			.32				1	1	1
MANI	24	0528E	0605	0531	N14	W83	.996	8731	18.0	37D	-N	3	0531	.41	1.18					
GRP 4391	24	0724	0822	0750	N25	E40	.770	8740	27.3	58	1-			1.16				5	5	5
CULG	24	0721	0744D	0728	N24	E38	.746	8740	27.2	23D	-N	P	0728	.83	1.28					L
ATHN	24	0727	0800	0730	N26	E38	.760	8740	27.2	33	1B	2	0740	1.98	3.00	2.00				
MANI	24	0732E	0806	0737	N26	E42	.792	8740	27.5	34D	-B	3	0737	.31	.50					W
UCCL	24	0734E	0745D		N27	E40	.782	8740	27.3	11D	-N	P	0736	1.03	2.06					E
MONT	24	0734E	0900	0845	N23	E40	.757	8740	27.3	86D	1N		0845	2.06						O
GRP 4392	24	0726	0813	0743	N25	E38	.753	8740	27.2	47	1-			1.38				65		7
ABST	24	0723	0815	0740	N25	E45	.811	8740	27.7	52	-F	C	0740	.90	1.50					EJ
CULG	24	0726	0744D	0743	N23	E28	.650	8740	26.4	18D	-N	P	0743	.72	.91					
CRON	24	0726	0814	0743	N25	E37	.745	8740	27.1	48	-N	C		1.00	1.50	2.00				200
ATHN	24	0727	0800	0740	N26	E38	.760	8740	27.2	33	1B	2	0740	1.98	3.00	2.00				
CATA	24	0745E	0810D	0750	N22	E36	.715	8740	27.0	25D	1B		0750	2.55	3.60					296
ISTA	24	0730	0805		N27	E40	.782	8740	27.3	35	-N			1.93	3.10					
ARCE	24	0800E	0835D		N27	E41	.790	8740	27.4	35D	1N	C	0800	1.32						
GRP 4393	24	0738	0756	0740	N24	E37	.738	8740	27.1	18	1-							2	2	1
ISTA	24	0735	0800		N26	E41	.784	8740	27.4	25	-N									
ATHN	24	0740	0751	0740	N22	F32	.678	8740	26.7	11	-B	2	0740	1.32	1.70	2.00				
GRP 4394	24	0748	0938	0810	N20	W87	1.000	8731	17.8	110	1-			.57				4	3	2
ARCE	24	0800E	1000D		N18	W85	.999	8731	18.0	120D	1N	C	0808	.35	1.50					
CATA	24	0810E	1020D	0810	N20	W85	.999	8731	18.0	130D	1B		0810	.78						269
ISTA	24	0715E	0835		N22	W90	1.001	8731	17.6	80D	1N									
ATHN	24	0840E	0938		N20	W78	.988	8731	18.5	58D	-N	3	0840	.33	1.60					
GRP 4395	24	1054	1106	1056	N19	W23	.565	8733	22.7	12	1-			.95				2	2	2
MEUD	24	1053	1105	1056	N17	W24	.555	8733	22.7	12	-N	C	1056	1.55	1.80					E
ATHN	24	1054	1106	1056	N20	W21	.558	8733	22.9	12	-N	2	1056	.50	.60	1.60				
GRP 4396	24	1058	1133	1106	N23	E44	.792	8740	27.8	35	1-			3.30				1	1	1
ATHN	24	1058	1133	1106	N23	E44	.792	8740	27.8	35	1N	2	1106	3.30	4.90	1.90				
GRP 4397	24	1154	1158	1156	N16	E63	.917	8741	29.2	4	1-			.33				1	1	1
ATHN	24	1154	1158	1156	N16	E63	.917	8741	29.2	4	-N	2	1156	.33	.70	1.80				
GRP 4398	24	1202	1217	1204	N13	E55	.849	8741	28.6	15	1-			.50				1	1	1
ATHN	24	1202	1217	1204	N13	E55	.849	8741	28.6	15	-N	2	1204	.50	1.10	1.90				
GRP 4399	24	1639	1659	1640	N18	W90	1.001	8731	17.9	20	1-			.20				1	1	1
HOUS	24	1639	1659	1640	N18	W90	1.001	8731	17.9	20	-N	C		.20	.80					200
GRP 4400	24	1738	1750	1740	N25	E18	.594	8740	26.1	12	1-			.73				1	1	1
MCMA	24	1738	1750	1740	N25	E18	.594	8740	26.1	12	-N	C	1740	.52	.60					E
GRP 4401	24	1830	1856	1834	N25	E20	.607	8740	26.3	26	1-			.68				4	4	4
LOCK	24	1830	1853	1833	N25	E27	.661	8740	26.8	23	-N	C	1833	.60	.70					
MCMA	24	1830	1857	1832	N25	F18	.594	8740	26.1	27	-B	C	1832	.31	.40					E
SACP	24	1830	1858	1837	N24	E17	.575	8740	26.0	28	-F	C		1.56	1.67					
HUAN	24	1842E	1855D		N24	F17	.575	8740	26.1	13D	-N	1	1843	.31	.33					E
GRP 4402	24	1919	1934	1924	N18	W24	.565	8733	23.0	15	1-			.47				2	2	2
LOCK	24	1919	1932	1925	N17	W25	.565	8733	22.9	13	-F	C	1925	.20	.20					10
SACP	24	1919	1936	1922	N18	W23	.555	8733	23.1	17	-F	C		.83	.87					
GRP 4403	24	1937	1949	1939	N27	E21	.637	8740	26.4	12	1-			.40				4	4	4
LOCK	24	1936	1948	1939	N24	E23	.618	8740	26.5	12	-F	C	1939	.70	.90					
MCMA	24	1937	1947	1939	N28	E20	.642	8740	26.3	10	-N	C	1939	.21	.30					D
SACP	24	1937	1951	1940	N28	E21	.648	8740	26.4	14	-N	C		.36	.40					
HOUS	24	1938E	1945D	1938U	N26	E21	.626	8740	26.4	7D	-N	C		.30	.40					200
GRP 4404	24	2022	2027	2024	N21	E31	.660	8740	27.2	5	1-			.40						

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %	
	1967																	
	MAR																	
GRP 4406	24	2132	2202	2149	N18	W90	1.001	8731	18.1	30	1-							1 1 1
CULG	24	2132	2202	2149	N18	W90	1.001	8731	18.1	30	-N							
GRP 4407	24	2148	2213	2152	N20	E38	.720	8740	27.8	25	1-	C	2149	.28				1 1 1
CULG	24	2148	2213	2152	N20	E38	.720	8740	27.8	25	-F							
GRP 4408	24	2209	2222	2214	N22	W22	.589	8733	23.3	13	1-	C	2152	.41	.56			L
CULG	24	2209	2222	2214	N22	W22	.589	8733	23.3	13	-F							
GRP 4409	25	0036	0052	0039	N25	E41	.778	8740	28.1	16	1-	C	2214	.52	.63			L
CULG	25	0036E	0052D	0039	N25	E41	.778	8740	28.1	16D	-F							
GRP 4410	25	0139	0145	0140	N22	W18	.557	8733	23.7	6	1-	P	0039	.62	.96			1 1 1
MANI	25	0138	0145	0139	N19	W14	.490	8733	24.0	7	-N	2	0139	.65	.96			2 2 2
CRON	25	0139	0145U	0141	N25	W22	.621	8733	23.4	6U	-N							200
GRP 4411	25	0347	0403	0350	N13	E15	.420	8740	26.3	16	1-							1 1 1
MANI	25	0347	0403	0350	N13	E15	.420	8740	26.3	16	-F	2	0350	.37	.70			E
GRP 4412	25	0633	0705	0637	N24	W25	.634	8733	23.4	32	1-							1 1 1
CULG	25	0633	0705	0637	N24	W25	.634	8733	23.4	32	-N							
GRP 4413	25	0639	0657	0642	N20	W58	.891	8733	20.9	18	1-	C	0637	.41	.52			F
CULG	25	0639	0657	0642	N20	W58	.891	8733	20.9	18	-F							
GRP 4414	25	0705	0726	0712	N18	E43	.757	8741	28.5	21	1-	C	0642	.28	.68			1 1 1
CULG	25	0705	0726D	0712	N18	E43	.757	8741	28.5	21D	-N							
GRP 4415	25	0710	0731	0715	N22	E26	.623	8740	27.2	21	1-							1 1 1
CULG	25	0708	0726D	0712	N23	E25	.624	8740	27.2	18D	1B	P	0712	2.06				8 8 7
BUCA	25	0709	0745D	0719	N24	E25	.634	8740	27.2	36D	1B	P	0712	1.86	2.34			
ATHN	25	0710	0730	0711	N23	E26	.632	8740	27.2	20	1B	1	0719	2.21	2.90			E
CRON	25	0711	0724U	0712	N23	E26	.632	8740	27.2	13U	-N	C	0711	2.64	3.30	2.00		
AROS	25	0711	0725	0716	N20	E25	.594	8740	27.2	14	-N	P	0716	.60	.80			200
CAPS	25	0711E	0725		N20	E30	.642	8740	27.5	14D	1F	3	0715	1.24	5.00			152
MANI	25	0713	0736	0717	N22	E27	.632	8740	27.3	23	-N	2	0717	4.00	1.60			CE
WEND	25	0706E	0731		N23	E26	.632	8740	27.2	25D	1N	V		4.13				
GRP 4416	25	0827	0847	0840	N25	E13	.564	8740	26.3	20	1-							4 3 2
MEUD	25	0826	0848	0838	N24	E13	.550	8740	26.3	22	-F	C	0828	.20	.30			
MANI	25	0828	0839	0831	N24	E11	.540	8740	26.2	11	-F	2	0831	.26	.25			
WEND	25	0826	0853		N28	E15	.612	8740	26.5	27	-N							
ARCE	25	0845	0910D	0850	N28	E13	.603	8740	26.3	25D	-N	C	0850	1.07	1.30			H
GRP 4417	25	1007	1026		S19	W87	.996	8727	18.9	19	1-							1 1 1
WEND	25	1007E	1026		S19	W87	.996	8727	18.9	19D	1N	V		1.65				
GRP 4418	25	1028	1041	1031	N25	W26	.652	8733	23.5	13	1-							5 5 5
MEUD	25	1027	1040	1030	N25	W25	.644	8733	23.6	13	-N	C	1030	4.13	1.30			
ATHN	25	1028E	1043		N28	W23	.661	8733	23.7	15D	1B	1	1030	1.20	2.60	2.00		
LOCA	25	1030	1040	1032	N24	W27	.651	8733	23.4	10	-N	V	1029	1.03	1.10			
MONT	25	1031E	1034D		N25	W27	.660	8733	23.4	3D	-B		1032	1.98	2.60			
CAPS	25	1032E	1039		N22	W26	.623	8733	23.5	7D	1F	3	1031	.85	1.10			O
GRP 4419	25	1028	1032		N22	E22	.588	8740	27.1	4	1-		1035	1.03	2.20			152
ATHN	25	1028E	1032		N22	E22	.588	8740	27.1	4D	-N	1	1029	1.70	2.20			1 1 1
GRP 4420	25	1030	1030		S25	E85	.992	8745	31.8		1-							1 1 1
ARCE	25	1030E	1030D		S25	E85	.992	8745	31.8		-F	P	1030	.99	1.50			1.90
GRP 4421	25	1141	1158	1146	N25	E12	.559	8740	26.4	17	1-							4 4 4
ATHN	25	1141	1154	1144	N22	E12	.518	8740	26.4	13	-N	2	1144	1.38	.40	1.70		
MEUD	25	1143	1155	1147	N24	E12	.545	8740	26.4	12	-N		1147	.33				
MONT	25	1145	1210	1148	N28	E13	.603	8740	26.5	25	-B	C	1148	1.13	1.30			E
CAPS	25	1135E	1154D		N25	E12	.559	8740	26.4	19D	1N	3	1149	1.03	3.50			164
GRP 4422	25	1142	1154		S19	W88	.997	8727	18.9	12	1-							1 1 0
WEND	25	1142	1154		S19	W88	.997	8727	18.9	12	-N							
GRP 4423	25	1225	1236	1228	S21	E81	.982	8745	31.6	11	1-							4 4 4
UCCL	25	1222	1235D	1229	S25	E88	.997	8745	1.1	13D	-N	P	1229	.52				AE
MEUD	25	1225	1235	1227	S20	E80	.979	8745	31.5	10	-N		1227	.41				
CAPS	25	1226E	1238		S17	E77	.969	8745	31.3	12D	1N	3	1229	.90				CE
ATHN	25	1227	1237	1229	S22	E79	.975	8745	31.4	10	-N	2	1229	.50		1.80		
GRP 4424	25	1242	1304	1243	N26	E13	.577	8740	26.5	22	1-							4 4 4
ATHN	25	1240	1258	1243	N25	E13	.564	8740	26.5	18	-N	2	1243	.65				
MEUD	25	1243	1252		N25	E12	.559	8740	26.4	9	-F	C	1245	.83	1.00	1.70		D
CAPF	25	1246E	1313		N26	E18	.605	8740	26.9	27D	-F	V	1250	.31	.40			
WEND	25	1246E	1312		N27	E09	.573	8740	26.2	26D	1F	V		.59	.74			
GRP 4425	25	1246	1315		S27	E90	.999	8745	1.3	29	1-			3.09				1 1 1
CAPF	25	1246	1315D		S27	E90	.999	8745	1.3	29D	1N	V	1250	.58				L
GRP 4426	25	1318	1333	1322	N23	W53	.864	8733	21.6	15	1-							4 4 4
MCMA	25	1310E	1334	1320	N21	W55	.872	8733	21.4	24D	-B	C	1320	.51	.60			D
MEUD	25	1317	1330	1323	N20	W52	.846	8733	21.7	13	-F	C	1323	.31	.70			D
ATHN	25	1322	1331	1324	N30	W50	.870	8733	21.8	9	-N	2	1324	.41				
SACP	25	1322E	1336	1322U	N20	W53	.854	8733	21.6	14D	-F	C		.66	1.30	1.80		
GRP 4427	25	1424	1432	1426	N27	E34	.734	8740	28.2	8	1-							1 1 1
SACP	25	1424	1432	1426	N27	E34	.734	8740	28.2	8	-N	C		.91	1.22			



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MGMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
	1967																	
	MAR																	
GRP 4428	25	1539	1549	1542	N23	E19	.576	8740	27.1	10	1-						3 3 3	
MEUD	25	1538	1548	1542	N22	E19	.564	8740	27.1	10	-F		1542	.25	.40		D	
HUAN	25	1539	1548	1542	N23	E16	.555	8740	26.9	9	-F	2	1542	.25	.26		D	
MCMA	25	1539	1551	1541	N23	E22	.599	8740	27.3	12	-N		1541	.21	.30		D	
GRP 4429	25	1743	1801	1751	N23	E23	.607	8740	27.5	18	1-			.61			1 1 1	
LOCK	25	1743	1801	1751	N23	E23	.607	8740	27.5	18	-F		1751	.60	.80		10	
GRP 4430	25	1856	2024	1915	N27	E21	.636	8740	27.4	88	1+			2.30			3 3 3	
LOCK	25	1852	2020	1915	N27	E16	.605	8740	27.0	88	18		1915	2.70	3.50		20	
MCMA	25	1856	2027	1914	N25	E24	.636	8740	27.6	91	1N		1914	1.86	2.50		L	
HUAN	25	1900	1932		N28	E22	.654	8740	27.4	32	-N	1	1910	1.28	1.43		FL	
GRP 4431	25	1932	2012	1934	N26	E16	.593	8740	27.0	40	1			1.66			2 2 2	
SACP	25	1929E	2024D	1929U	N26	E19	.612	8740	27.2	55D	1N			3.28	3.58			
HUAN	25	1934	2000D	1939	N25	E12	.559	8740	26.7	26D	-N	2	1939	.41	.44		D	
GRP 4432	25	2036	2046	2040	N27	F16	.605	8740	27.1	10	1-			.50			1 1 1	
LOCK	25	2036	2046	2040	N27	E16	.605	8740	27.1	10	-F		2040	.50	.70		10	
GRP 4433	25	2132	2149	2135	N26	W38	.759	8733	23.0	17	1-			.37			1 1 1	
CULG	25	2132	2149	2135	N26	W38	.759	8733	23.0	17	-N		2135	.41	.56		L	
GRP 4434	25	2151	2231	2203	N23	E01	.498	8740	26.0	40	1			1.78			1 1 1	
CULG	25	2151	2231D	2203	N23	E01	.498	8740	26.0	40D	1N	P	2203	1.96	2.19		L	
GRP 4435	25	2224	2323	2258	N22	E23	.597	8740	27.7	59	1-			.47			1 1 1	
CULG	25	2224	2323	2258	N22	E23	.597	8740	27.7	59	-N		2258	.52	.60			
GRP 4436	25	2307	2334	2315	N12	E40	.695	8741	29.0	27	1-			.62			2 2 2	
CULG	25	2303	2347	2316	N11	E40	.690	8741	29.0	44	-N		2316	.93	1.26			
LOCK	25	2310	2320	2314	N13	E40	.700	8741	29.0	10	-F		2314	.40	.60		10	
GRP 4437	25	2354	0011	2354	N22	E10	.508	8740	26.7	17	1-			.79			3 3 3	
CULG	25	2351	2351	2352	N22	E09	.503	8740	26.7		-N		2352	.41	.46			
MITK	25	2352	0020	2355	N23	E09	.517	8740	26.7	28	1N		2355	1.96	2.30		F	
IKOM	26	0000	0023D		N22	E12	.517	8740	26.9	23D	-N	V	0004	.93	1.10		80	
GRP 4438	25	0016	0039	0016	N20	E21	.558	8740	27.6	23	1-			1.08			4 4 4	
MANI	25	2355	0035	0016	N21	E16	.530	8740	27.2	40	1N	2	0016	1.96	2.32			
CULG	26	0013	0043	0015	N19	E23	.565	8740	27.7	30	-N		0015	.83	.96		F	
MITK	26	0016	0038	0018	N20	E23	.575	8740	27.7	22	-N		0018	1.55	1.90		E	
IKOM	26	0020	0030D		N19	E22	.555	8740	27.7	10D	-F		0020	1.03	1.20		80	
GRP 4439	26	0145	0210	0148	S31	W55	.835	8736	21.9	25	1-			.19			1 1 1	
CULG	26	0145E	0210	0148	S31	W55	.835	8736	21.9	25D	-N		0148	.21	.36		CL	
GRP 4440	26	0145	0205	0200	S23	W41	.677	8736	23.0	20	1-			.47			1 1 1	
CULG	26	0145E	0205	0200	S23	W41	.677	8736	23.0	20D	-N		0200	.52	.68			
GRP 4441	26	0147	0218	0157	N23	E11	.526	8740	26.9	31	1-			.46			3 2 2	
CRON	26	0147	0212U	0157	N23	E11	.526	8740	26.9	25U	-N			.20	.20		200	
MITK	26	0147	0218	0156	N24	E10	.535	8740	26.8	31	-N		0156	1.03	1.20		E	
MANI	26	0212E	0212D		N23	E12	.531	8740	27.0		1N	1	0212	2.06	2.40			
GRP 4442	26	0253	0331	0302	N21	F47	.808	8740	29.6	38	1			1.21			1 1 1	
CULG	26	0253	0331D	0302	N21	F47	.808	8740	29.6	38D	1N		0302	1.34	2.21			
GRP 4443	26	0258	0542	0306	N17	W41	.732	8733	23.0	164	1-			.37			1 1 1	
CULG	26	0258	0542D	0306	N17	W41	.732	8733	23.0	164D	-N		0306	.41	.60		KL	
GRP 4444	26	0458	0535	0511	N23	W01	.498	8740	26.1	37	1+			4.16			4 3 3	
CULG	26	0458	0542D	0510	N23	W03	.500	8740	26.0	44D	38	P	0510	18.56	20.70		HL	
SIBE	26	0508E	0530		N23	W02	.499	8740	26.1	22D	2F	P	0509	5.31	6.10		60	
ATHN	26	0508E	0540	0508	N23	W03	.500	8740	26.0	32D	2N	3	0508	4.95	5.50		1.85	
KODA	26	0513E	0528	0514	N23	E03	.500	8740	26.4	15D	1N	V	0515	3.22	3.70		2.12	
GRP 4445	26	0508	0545	0523	N24	F05	.518	8740	26.6	37	1-			1.43			3 3 3	
CRON	26	0507U	0541U	0521U	N25	W03	.530	8740	26.0	34U	-N			1.70	2.00		200	
CULG	26	0508	0542D	0525	N25	E14	.568	8740	27.3	34D	-N		0525	.72	.84			
MANI	26	0522E	0545		N22	E04	.486	8740	26.5	23D	1N	1	0524	2.01	2.32		L	
GRP 4446	26	0510	0542	0513	S23	W41	.677	8736	23.1	32	1-			.37			1 1 1	
CULG	26	0510	0542D	0513	S23	W41	.677	8736	23.1	32D	-N		0513	.41	.56			
GRP 4447	26	0630	0651	0634	N24	E13	.550	8740	27.2	21	1-			1.04			4 4 3	
CRON	26	0626	0649	0633	N25	E14	.568	8740	27.3	23	-N			.40	.50		200	
ATHN	26	0633	0646	0635	N25	E11	.553	8740	27.1	13	-N	3	0635	.99	1.20		1.50	
ONDR	26	0634E	0651		N24	E14	.555	8740	27.3	17D	-B	V	0640				2.20	
CAPS	26	0634E	0657		N23	E13	.536	8740	27.2	23D	1N	2	0639	1.70	2.00		182	
GRP 4448	26	0653	0721	0705	S20	E71	.939	8745	31.6	28	1-			1.24			9 9 8	
AROS	26	0650E	0717		S20	E71	.939	8745	31.6	27D	-N		0652	.62				
CULG	26	0652	0728D	0702	S19	E70	.933	8745	31.5	36D	18	P	0702	1.44			H	
CRON	26	0656	0718	0703	S19	E68	.921	8745	31.4	22	-N			.50	1.10		200	
BUCA	26	0700E	0718		S20	E72	.944	8745	31.7	18D	-N		0704	2.76			E	
MANI	26	0700E	0723	0704	S20	E75	.959	8745	31.9	23D	1F	1	0704	2.06	4.62		B	
CAPS	26	0702E	0717		S19	E71	.939	8745	31.6	15D	1N	3	0705	1.60			166	
CATA	26	0705E	0720D	0710	S20	E68	.921	8745	31.4	15D	-B		0710	.57			224	
ONDR	26	0705E	0723D		S21	E77	.968	8745	1.1	18D	-B	V					2.10	
WEND	26	0707E	0723		S19	E67	.914	8745	31.3	16D	1N	V		3.09			CD	

# SOLAR FLARES

REVISED

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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 $\alpha$
1967 MAR																	
GRP 4449	26	0656	0725	0709	N24	W42	.780	8733	23.1	29	1						8 8 7
CULG	26	0649	0728D	0706	N23	W42	.774	8733	23.1	39D	1N	P	0706	2.07	3.20		FLS
CRON	26	0655	0719	0703	N24	W41	.772	8733	23.2	24	-F	C		.30	.50	100	
CAPS	26	0656E	0725		N25	W41	.778	8733	23.2	29D	1F	3	0710	3.00	4.50	149	
BUCA	26	0700E	0740D		N23	W42	.774	8733	23.1	40D	1N	P	0708	2.21	3.50		
CATA	26	0705E	0720D	0710	N26	W40	.775	8733	23.3	15D	1B		0710	2.72	4.20	275	
MANI	26	0713	0732	0716	N25	W48	.834	8733	22.7	19	1F	2	0716	1.96	3.38		F
WEND	26	0658E	0726		N25	W36	.735	8733	23.6	28D	1F	V		5.16			
AROS	26	0650E	0710		N23	W42	.774	8733	23.1	20D	-N	P	0652	1.03			
GRP 4450	26	0732	0740		N26	E02	.543	8740	26.5	8	1-			.39			1 1 1
BUCA	26	0732E	0740D		N26	E02	.543	8740	26.5	8D	-F	C	0740	.55	.70		D
GRP 4451	26	0744	0759	0746	N21	E07	.480	8740	26.8	15	1-			1.13			9 9 6
ATHN	26	0742	0759	0745	N23	E07	.509	8740	26.8	17	-B	2	0745	.96	.90	2.00	
ONDR	26	0743E	0755		N23	E05	.504	8740	26.7	12D	-B	V	0746			2.20	CEH
CAPS	26	0743E	0755		N21	E05	.474	8740	26.7	12D	-B	3	0748	1.60	1.80		204
CATA	26	0743E	0755D	0745	N22	E08	.498	8740	26.9	12D	-B		0745	.94	1.00		313
MANI	26	0743	0758	0747	N21	E07	.480	8740	26.8	15	-B	2	0747	.72	.83		
CRON	26	0745	0758	0747	N16	E03	.391	8740	26.5	13	-N	C		1.30	.30		200
CAPP	26	0745E	0758		N20	E13	.496	8740	27.3	13D	1N	V	0747	1.76	2.05		
BUCA	26	0747E	0805		N22	E07	.495	8740	26.8	18D	1N	C	0750	2.21	2.60		
ISTA	26	0745E	0805		N23	F06	.506	8740	26.8	20D	-N						
GRP 4452	26	0845	0855	0846	N16	W41	.726	8733	23.3	10	1-			.50			3 3 1
ATHN	26	0845	0850	0846	N17	W39	.711	8733	23.4	5	-N	2	0846	.50	.70	1.60	
CAPS	26	0844	0850		N15	W40	.710	8733	23.4	6	-F	3					D
ISTA	26	0845E	0905D		N17	W44	.761	8733	23.1	20D	-N						
GRP 4453	26	0916	0950	0928	N21	W03	.469	8740	26.2	34	1-			1.18			9 9 6
CAPS	26	0915E	0951		N21	W02	.468	8740	26.2	36D	1N	3	0930	2.00	2.20		164
CATA	26	0915E	0955D	0930	N21	E01	.467	8740	26.5	40D	-B		0930	1.55	1.70		327
ATHN	26	0919	0952	0924	N22	W05	.489	8740	26.0	33	-N	2	0924	.99	1.10	1.70	
MANI	26	0922	0948D	0927	N21	W01	.467	8740	26.3	26D	-N	1	0927	.83	.94		
CRON	26	0930E	0953U	0931U	N21	W04	.471	8740	26.1	23U	-N	C		.20	.20		200
ISTA	26	0800	0945D		N22	W03	.485	8740	26.1	105D	-N						
WEND	26	0918	0955		N21	W03	.469	8740	26.2	37	1N	V		3.09			
ONDR	26	0923E	0953		N21	W06	.476	8740	25.9	30D	-N	V				2.00	C
MONT	26	0828E	0930		N23	E00	.498	8740	26.4	62D	-B		0830	.41			0
GRP 4454	26	1017	1031	1020	N27	E01	.557	8740	26.5	14	1-			.82			3 3 2
WEND	26	1017	1033		N28	E01	.571	8740	26.5	16	-N						
CAPS	26	1017	1030		N26	E02	.543	8740	26.6	13	-F	3	1020	.80	1.00		DL
ATHN	26	1018	1029	1020	N26	W01	.543	8740	26.4	11	-N	2	1020	.83	1.00	1.60	
GRP 4455	26	1100	1107	1100	N25	W39	.761	8733	23.5	7	1-			1.32			1 1 1
ATHN	26	1100	1107	1100	N25	W39	.761	8733	23.5	7	-N	2	1100	1.32	1.90	1.50	
GRP 4456	26	1130	1157		N24	E10	.535	8740	27.2	27	1-			1.20			1 1 1
CAPS	26	1130	1157D		N24	E10	.535	8740	27.2	27D	-F	3	1131	1.20	1.40		150
GRP 4457	26	1314	1323	1317	N16	W86	.999	8731	20.1	9	1-			.29			3 3 3
CAPS	26	1312	1324D		N16	W90	1.001	8731	19.8	12D	-F	3	1319	.40			
ATHN	26	1315E	1323	1315	N15	W80	.991	8731	20.6	8D	-N	2	1315	.33			
HUAN	26	1316	1323	1318	N16	W88	1.000	8731	20.0	7	-N	2	C 1318	.21			D
GRP 4458	26	1401	1426	1412	S19	E67	.914	8745	31.6	25	1-			1.43			7 7 6
SACP	26	1400	1428	1412	S19	E66	.907	8745	31.5	28	1F	C		1.91	3.16		
ATHN	26	1402	1428	1408	S18	E67	.914	8745	31.6	26	1N	2	1408	2.06	4.10	1.60	
MCMA	26	1403	1425	1415	S19	E67	.914	8745	31.6	22	-N	C	1415	.62	1.60		
CAPS	26	1405E	1428		S15	E68	.921	8745	31.7	23D	1N	3	1418	1.50			170
ONDR	26	1409E	1423		S20	E70	.933	8745	31.8	14D	-B	V	1415			2.10	EC
CAPP	26	1416E	1426D		S20	E64	.893	8745	31.4	10D	1N	V	1417	1.18	2.51		CJ
WEND	26	1400E	1420D		S19	E65	.900	8745	31.5	20D	1N	V		4.13			
GRP 4459	26	1416	1425	1420	N25	W02	.528	8740	26.4	9	1-			1.42			5 5 5
SACP	26	1413	1429	1422	N25	W02	.528	8740	26.4	16	1F	C		2.38	2.49		
ATHN	26	1414	1420	1415	N25	E00	.528	8740	26.6	6	-N	2	1415	1.32	1.50	1.40	
MCMA	26	1415	1425	1420	N26	W03	.544	8740	26.4	10	-N	C	1420	.52	.60		E
HUAN	26	1416	1426	1421	N26	W03	.544	8740	26.4	10	-N	2	C 1421	.58	.60		E
CAPS	26	1420	1425		N24	W04	.516	8740	26.3	5	1F	3	1421	2.20	2.50		142
GRP 4460	26	1448	1508	1451	N21	W08	.484	8740	26.0	20	1+			3.87			5 5 4
SACP	26	1446	1514	1451	N21	W07	.480	8740	26.1	28	1N	C		4.65	4.78		
ATHN	26	1448	1505	1450	N25	W08	.541	8740	26.0	17	2B	2	C 1450	4.62	5.30	2.00	
HUAN	26	1448	1512	1451	N21	W07	.480	8740	26.1	24	1N	2	C 1451	2.27	2.33		
ONDR	26	1448E	1559D		N20	W10	.478	8740	25.9	71D	2N	V	1451			2.90	H
CAPS	26	1450E	1502		N20	W09	.474	8740	25.9	12D	1B	3	1452	4.00	4.60		220
GRP 4461	26	1536	1559	1544	N24	E02	.514	8740	26.8	23	1-			1.17			3 3 2
CAPS	26	1546	1559		N24	E01	.513	8740	26.7	13	-N	3	1555				170
ATHN	26	1554E	1558		N23	E02	.499	8740	26.8	4D	-N	2	1555	1.32	1.50		E
MCMA	26	1525	1600	1544	N26	E02	.543	8740	26.8	35	-N	C	1544	.72	.80		E

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	
	1967 MAR																	
GRP 4462	26	1603	1619	1605	N24	E02	.514	8740	26.8	16	1							4 4 4
HUAN	26	1542	1623	1606	N24	E02	.514	8740	26.8	41	1N	2	C	1606	2.87			
ATHN	26	1602	1615	1605	N23	E02	.499	8740	26.8	13	1B	2	C	1605	2.51	2.60		E
MCMA	26	1603	1620	1605	N24	E04	.516	8740	27.0	17	-B			1605	3.96	4.40	2.00	
CAPS	26	1604	1619		N24	E01	.513	8740	26.7	15	1B	3	C	1607	1.55	1.80		EL
GRP 4463	26	1630	1759	1659	N26	E05	.548	8740	27.1	89	3-			1607	3.00	3.50		F
SACP	26	1541	1758	1655	N25	E05	.533	8740	27.0	137	3B			1650	12.65			4 3 3
MCMA	26	1630	1743	1650	N28	E07	.581	8740	27.2	73	3N			1650	16.43	17.26		
HUAN	26	1638E	1723D		N25	E03	.530	8740	26.9	45D	2N	1	P	1700	10.31	13.00		FIL
HALF	26	1711E	1815	1711U	N26	E05	.548	8740	27.1	64D	2B	1	P	1711	9.02	9.55		L
GRP 4464	26	1831	1843	1835	N25	W66	.949	8733	21.8	12	1			1711	8.66	10.40		FI
SACP	26	1830	1843	1835	N25	W64	.939	8733	22.0	13	1F			1835	1.38			3 3 3
LOCK	26	1830	1850	1835	N24	W66	.947	8733	21.8	20	1N			1835	2.37	4.45		
HUAN	26	1832	1837		N27	W68	.961	8733	21.7	5	-N	1	C	1834	1.40	3.50	20	L
GRP 4465	26	1945	2007	1951	N19	E34	.673	8741	29.4	22	1-			1834	.93	1.50		E
SACP	26	1944	2012	1952	N19	E35	.683	8741	29.4	28	-F			1950	1.18			2 2 2
MCMA	26	1945	2002	1950	N18	F33	.656	8741	29.3	17	-N			1950	1.65	1.90		
GRP 4466	26	2031	2046	2036	N23	E11	.526	8740	27.7	15	1-				.62	.80		E
HOUS	26	2031	2046	2036	N23	E11	.526	8740	27.7	15	-F				.50	.60	100	1 1 1
GRP 4467	26	2106	2114	2108	N25	E08	.541	8740	27.5	8	1-				.20			
HOUS	26	2106	2114	2108	N25	E08	.541	8740	27.5	8	-N				.20	.20	200	1 1 1
GRP 4468	26	2156	2221	2204	N19	E11	.470	8740	27.7	25	1N				1.88			1 1 1
CULG	26	2156	2221	2204	N19	E11	.470	8740	27.7	25	1N			2204	2.06	3.30		
GRP 4469	26	2156	2225	2204	N21	W11	.498	8740	26.1	29	1-				1.15			2 2 2
HOUS	26	2156	2225	2200	N22	W10	.507	8740	26.2	29	-B				.80	.90	300	E
HALE	26	2205E	2225	2207	N20	W11	.484	8740	26.1	20D	-B	2	P	2207	1.24	1.40		
GRP 4470	26	2349	0004	2355	N25	W50	.849	8733	23.2	15	1-				.47			1 1 1
CULG	26	2349	0004	2355	N25	W50	.849	8733	23.2	15	-N			2355	.92	1.00		L
GRP 4471	26	2353	0014	2355	N24	E09	.531	8740	27.7	21	1-				.50			1 1 1
CRON	26	2353	0014	2355	N24	E09	.531	8740	27.7	21	-N				.70	.80	200	E
GRP 4472	27	0124	0145	0129	N25	W62	.928	8733	22.4	21	1-				.52			3 3 3
CULG	27	0119	0200	0130	N27	W60	.921	8733	22.6	41	1N			0130	1.03			FLU
MANI	27	0126	0139	0128	N21	W62	.920	8733	22.4	13	-B	3	C	0128	.41	.84		F
CRON	27	0128	0136	0130	N28	W65	.949	8733	22.2	8	-N				.30	.80	200	E
GRP 4473	27	0133	0149	0141	N22	W80	.993	8733	21.1	16	1-				.30			1 1 1
CRON	27	0133U	0149	0141	N22	W80	.993	8733	21.1	16U	-F				.30	1.00	100	H
GRP 4474	27	0231	0249	0238	N25	W54	.878	8733	23.1	18	1-				.20			1 1 1
CRON	27	0231	0249	0238	N25	W54	.878	8733	23.1	18	-N				.20	.40	200	
GRP 4475	27	0306	0325	0316	N22	E03	.484	8740	27.4	19	1-				.65			1 1 1
CULG	27	0306E	0325	0316	N22	E03	.484	8740	27.4	19D	-N			0316	.72	.81		
GRP 4476	27	0319	0332	0321	N27	W54	.885	8733	23.1	13	1-				.42			3 3 3
TACH	27	0319	0326	0321	N27	W55	.891	8733	23.0	7	-N			0321	.55	1.10	3.10	63
CULG	27	0319	0343	0321	N27	W53	.878	8733	23.2	24	-N			0321	.52	1.00		EY
CRON	27	0320	0328	0322	N28	W55	.894	8733	23.0	8	-N				.30	.60	200	L
GRP 4477	27	0335	0358	0337	N19	E08	.454	8740	27.7	23	1-				.75			1 1 1
CULG	27	0335	0358	0337	N19	E08	.454	8740	27.7	23	-N			0337	.83	.88		
GRP 4478	27	0414	0428	0417	N26	W10	.562	8740	26.4	14	1-				.79			2 2 2
CULG	27	0413	0426D	0415	N26	W11	.566	8740	26.4	13D	-N			0415	.52	.60		L
CRON	27	0415	0428	0418	N26	W08	.555	8740	26.6	13	-F				1.10	1.30	100	
GRP 4479	27	0442	0455	0443	N24	W13	.549	8740	26.2	13	1-				1.40			3 3 3
CULG	27	0441	0504	0443	N25	W14	.568	8740	26.1	23	-B			0443	1.65	2.00		H
TACH	27	0442	0448	0443	N24	W13	.549	8740	26.2	6	1-			0443	1.73	2.10	2.40	81
CRON	27	0442	0453	0444	N24	W13	.549	8740	26.2	11	-N				1.30	1.60	200	H
GRP 4480	27	0703	0711	0705	N23	W56	.885	8733	23.1	8	1-				.20			1 1 1
CRON	27	0703	0711	0705	N23	W56	.885	8733	23.1	8	-F				.20	.40	100	
GRP 4481	27	0724	0833	0747	S21	E56	.828	8745	31.5	69	1-				.35			3 3 2
CRON	27	0724	0833	0804	S19	E56	.826	8745	31.5	69	-N				.30	.50	200	
CAPS	27	0751E	0758D		S18	E55	.816	8745	31.5	7D	-N							
CATA	27	0730E	0825D	0730	S25	E56	.833	8745	31.5	55D	-B			0730	.39	.70	204	
GRP 4482	27	0727	0745	0731	N24	W14	.555	8740	26.3	18	1-				.31			2 2 2
CRON	27	0727	0745	0732	N23	W16	.554	8740	26.1	18	-N				.20	.20	200	I
CATA	27	0730E	0905D	0730	N25	W11	.553	8740	26.5	95D	-B			0730	.42	.50	235	
GRP 4483	27	0846	0904	0847	N22	W06	.491	8740	26.9	18	1-				.76			3 3 3
CRON	27	0845	0906	0847	N23	W09	.516	8740	26.7	21	-N				.80	.90	200	E
CATA	27	0845E	0905D	0845	N21	W02	.467	8740	27.2	20D	-B			0845	1.07	1.20	251	
MANI	27	0847	0902	0849	N23	W07	.509	8740	26.8	15	-N	2		0849	.46	.55		
GRP 4484	27	1200	1205		S18	E53	.796	8745	31.5	5	1-							1 1 0
CAPS	27	1200E	1205		S18	E53	.796	8745	31.5	5D	-N							
GRP 4485	27	1233	1303		S19	E57	.835	8745	31.8	30	1-				1.21			C
ONDR	27	1233E	1254		S19	E66	.907	8745	31.5	21D	-B			1239			2.40	3 3 2
CAPS	27	1233	1308		S19	E52	.787	8745	31.4	35	1N	3	V	1247	1.50	2.60		CE
CAPP	27	1243E	1308D		S19	E53	.797	8745	31.5	25D	-N			1244	1.76	2.99	170	E

# SOLAR FLARES

REVISED

MARCH 1967

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 Ha	MAX. INT. %	
	1967																	
	MAR																	
GRP 4486	27	1343	1348		N26	W23	.639	8740	25.8	5	1-							1 1 1
HUAN	27	1343	1348D		N26	W23	.639	8740	25.8	5D	-F	1	P	1345	.23	.27		D
GRP 4487	27	1427	1432		N27	W52	.871	8733	23.7	5	1-							1 1 0
WEND	27	1427	1432		N27	W52	.871	8733	23.7	5	-F							
GRP 4488	27	1444	1508	1454	N23	W04	.501	8740	27.3	24	1-				2.64			3 3 3
SACP	27	1443	1508	1455	N24	W05	.518	8740	27.2	25	1N				2.02	2.11		
CAPS	27	1445	1457D		N23	W06	.506	8740	27.2	12D	1N	2		1447	2.00	2.20		F
ATHN	27	1445	1507	1453	N21	W02	.467	8740	27.5	22	1N	2		1453	3.96	4.20	1.70	
GRP 4489	27	1454	1504	1456	N26	W77	.989	8733	21.8	10	1-				.46			2 2 2
ATHN	27	1453	1500	1453	N25	W80	.994	8733	21.6	7	-N	2		1453	.66			
SACP	27	1455	1507	1458	N27	W74	.982	8733	22.1	12	-N				.28			
4492	27	1557	1652	1616	N24	W06	.520	8740	27.2	55	1				3.37			5 5 5
CAPS	27	1551	1635D		N23	W08	.512	8740	27.1	44D	1N	2		1631	3.20	3.80		170
CAPP	27	1558E	1637		N21	W03	.501	8740	27.4	39D	1N			1617	3.53	4.11		FW
HUAN	27	1558	1649D		N25	W06	.535	8740	27.2	51D	1N	1		1613	2.99	3.14		H
SACP	27	1601	1653	1614	N24	W06	.520	8740	27.2	52	2N				8.11	8.46		E
HOUS	27	1618E	1710	1618	N24	W05	.518	8740	27.3	52D	-N				1.30	1.50		200
GRP 4491	27	1705	1727	1710	S18	E52	.786	8745	31.6	22	1-				.20			2 2 2
HOUS	27	1701	1734	1710	S19	E53	.797	8745	31.7	33	-N				.20	.30		200
LOCK	27	1708	1719	1710	S17	E51	.775	8745	31.5	11	-F			1710	.20	.30		10
GRP 4492	27	1717	1806	1729	N25	W23	.628	8740	26.0	49	1-				1.86			4 3 3
HOUS	27	1714	1811	1727	N26	W23	.639	8740	26.0	57	-N				1.00	1.30		200
LOCK	27	1716	1815	1730	N22	W23	.596	8740	26.0	59	1N			1730	2.10	2.70		20
SACP	27	1720	1752	1730	N25	W23	.628	8740	26.0	32	1N				2.38	2.62		
HUAN	27	1740E	1745D		N26	W24	.646	8740	25.9	5D	-N	1		1740	1.00	1.13		EH
GRP 4493	27	1738	1753	1740	N25	W57	.898	8733	23.5	15	1-				.20			1 1 1
HOUS	27	1738	1753	1740	N25	W57	.891	8733	23.5	15	-F				.20	.40		100
GRP 4494	27	1748	1822	1758	S24	W16	.392	8739	26.5	34	1-				.50			1 1 1
HOUS	27	1748	1822	1758	S24	W16	.392	8739	26.5	34	-F				.50	.50		100
GRP 4495	27	1752	1811	1758	N18	W68	.948	8733	22.6	19	1-				.10			1 1 1
HOUS	27	1752	1811	1758	N18	W68	.948	8733	22.6	19	-N				.10	.30		200
GRP 4496	27	1814	1822	1816	N25	W05	.532	8740	27.4	8	1-				.51			2 2 2
HOUS	27	1813	1821	1815	N25	W05	.532	8740	27.4	8	-N				.40	.50		200
LOCK	27	1814	1822	1816	N25	W05	.532	8740	27.4	8	-F			1816	.60	.70		10
GRP 4497	27	1827	1905	1845	N22	W14	.528	8740	26.7	38	1-				.90			1 1 1
HOUS	27	1827	1905	1845U	N22	W14	.528	8740	26.7	38	-N				.90	1.10		200
GRP 4498	27	1834	1859	1843	N20	W03	.453	8740	27.5	25	1-				.34			3 3 3
HOUS	27	1834	1900	1842	N20	W03	.453	8740	27.5	26	-N				.30	.30		200
LOCK	27	1834	1900	1840	N20	W03	.453	8740	27.5	26	-N			1840	.40	.40		20
SACP	27	1835	1856	1846U	N19	W03	.438	8740	27.5	21	-N				.36	.36		
GRP 4499	27	2008	2027	2014	N18	W69	.953	8733	22.7	19	1-				.20			1 1 1
HOUS	27	2008	2027	2014	N18	W69	.953	8733	22.7	19	-F				.20	.50		100
GRP 4500	27	2012	2022	2014	N21	W03	.469	8740	27.6	10	1-				.50			2 2 2
HOUS	27	2011	2023	2014	N21	W03	.469	8740	27.6	12	-N				.70	.80		200
LOCK	27	2012	2020	2014	N20	W03	.453	8740	27.6	8	-F			2014	.30	.30		10
GRP 4501	27	2026	2055	2033	S20	E50	.768	8745	31.6	29	1-				.73			3 3 3
HOUS	27	2024	2058	2032	S21	E50	.770	8745	31.6	34	-N				.50	.80		200
LOCK	27	2025	2057	2034	S19	E49	.756	8745	31.5	32	-N			2034	1.00	1.60		20
HUAN	27	2029	2049	2033	S19	E50	.767	8745	31.6	20	-N	2		2033	.75	.93		LE
GRP 4502	27	2032	2044	2034	N25	W23	.628	8740	26.1	12	1-				.30			1 1 1
HOUS	27	2032	2044	2034	N25	W23	.628	8740	26.1	12	-N				.30	.40		200
GRP 4503	27	2043	2106	2049	N18	E20	.525	8741	29.4	23	1				1.22			3 3 3
HOUS	27	2042	2109	2047	N18	E22	.544	8741	29.5	27	-N				.80	1.00		200
LOCK	27	2042	2112	2052	N18	E19	.516	8741	29.3	30	1F			2052	1.80	2.20		10
HUAN	27	2045	2057	2048	N19	E20	.537	8741	29.4	12	-F	2		2048	.91	.96		LE
GRP 4504	27	2051	2101	2055	N21	W08	.483	8740	27.3	10	1-				.19			1 1 1
LOCK	27	2051	2101	2055	N21	W08	.483	8740	27.3	10	-F				.20	.20		10
GRP 4505	27	2106	2204	2113	N23	W23	.606	8740	26.2	58	1+				2.45			2 2 2
HOUS	27	2104	2202	2113	N23	W22	.598	8740	26.2	58	1B				1.90	2.40		300
LOCK	27	2107	2205	2113	N23	W23	.606	8740	26.2	58	1B				2.50	3.30		30
GRP 4506	27	2114	2202	2129	N24	W24	.625	8740	26.1	48	1				2.04			4 3 4
LOCK	27	2107	2205	2129	N23	W23	.606	8740	26.2	58					2.50	3.30		30
HOUS	27	2120	2158	2125	N26	W22	.631	8740	26.2	38	-B				1.20	1.50		300
HUAN	27	2121E	2127D		N24	W26	.641	8740	25.9	6D	1N	1		2127	1.96	2.18		H
SACP	27	2134E	2136D	2134E	N23	W24	.615	8740	26.1	2D	1N				2.63	2.87		H
GRP 4507	27	2139	2145	2141	N28	W62	.934	8733	23.3	6	1-				.20			1 1 1
HOUS	27	2139	2145	2141	N28	W62	.934	8733	23.3	6	-F				.20	.50		100
GRP 4508	27	2142	2145		N30	W80	.996	8733	21.9	3	1-				.20			1 1 1
HOUS	27	2142	2145		N30	W80	.996	8733	21.9	3	-F				.20	.70		100
GRP 4509	27	2211	2230	2216	N22	W08	.498	8740	27.3	19	1-				.40			1 1 1
LOCK	27	2211	2230	2216	N22	W08	.498	8740	27.3	19	-N				.40	.40		20



# 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.		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.												
1967 MAR																		
GRP 4535	28	1520	1556	1534	N24	W22	.609	8740	27.0	36	1-					2 2 2		
SACP	28	1520	1554	1534	N24	W22	.609	8740	27.0	34	-F							
HOUS	28	1528U	1557	1534	N24	W21	.601	8740	27.1	29U	-N	C						
GRP 4536	28	1537	1608	1550	S23	W26	.497	8739	26.7	31	1-					2 2 2		
CAPS	28	1531E	1550D		S23	W25	.485	8739	26.8	19D	1N	1	1533	4.00	164	F		
HOUS	28	1543	1608	1550	S22	W27	.503	8739	26.6	25	-F	C		.20	100	H		
GRP 4537	28	1620	1634	1626	N23	W25	.623	8740	26.8	14	1-					2 2 2		
SACP	28	1616	1637	1625	N23	W25	.623	8740	26.8	21	-N	C		.64				
HOUS	28	1623	1630	1626	N23	W25	.623	8740	26.8	7	-N	C		.20	200			
GRP 4538	28	1621	1650	1627	S22	W27	.503	8739	26.7	29	1-			1.34		2 2 2		
SACP	28	1619	1650	1629	S22	W26	.490	8739	26.7	31	-N	C		1.74	1.79			
HOUS	28	1622	1649	1625	S22	W27	.503	8739	26.7	27	-N	C		1.10	1.30	200	EI	
GRP 4539	28	1728	1807	1753	S23	W49	.764	8739	25.1	39	1-			.20		1 1 1		
HOUS	28	1728	1807	1753	S23	W49	.764	8739	25.1	39	-F	C		.20	100			
GRP 4540	28	1733	1806	1740	N23	W36	.720	8740	26.0	33	1+			2.05		3 3 3		
SACP	28	1731	1806	1740	N24	W36	.727	8740	26.0	35	1N	C		2.13	2.56			
HOUS	28	1733	1805	1739	N23	W34	.702	8740	26.2	32	-B	C		1.00	1.40	300	HI	
LOCK	28	1734	1752D	1740	N21	W38	.725	8740	25.9	18D	1B	C	1740	2.70	4.10	30	H	
GRP 4541	28	1746	1811	1755	S23	W28	.522	8739	26.6	25	1-			1.30		1 1 1		
HOUS	28	1746U	1811	1755U	S23	W28	.522	8739	26.6	25U	-N	C		1.30	1.50	200	E	
GRP 4542	28	1822	1839	1827	N23	W25	.623	8740	26.9	17	1-			.20		1 1 1		
HOUS	28	1822	1839	1827	N23	W25	.623	8740	26.9	17	-N	C		.20	.30	200		
GRP 4543	28	1824	1832	1829	N25	W75	.983	8733	23.1	8	1-			.20		1 1 1		
HOUS	28	1824	1832	1829	N25	W75	.983	8733	23.1	8	-N	C		.20	.60	200		
GRP 4544	28	1903	1936	1917	N25	W30	.684	8740	26.5	33	1			1.45		2 2 2		
HOUS	28	1856	1937	1917	N25	W27	.659	8740	26.8	41	-B	C		1.00	1.40	300	EI	
SACP	28	1909	1934	1916	N25	W33	.709	8740	26.3	25	1N	C		2.11	2.50			
GRP 4545	28	1933	2032	1957	N26	E80	.995	8751	3.8	59	1-			.30		1 1 1		
HOUS	28	1933	2032	1957	N26	E80	.995	8751	3.8	59	-N	C		.30	1.00	200		
GRP 4546	28	2021	2055	2033	S19	E35	.590	8745	31.5	34	1-			.50		1 1 1		
HOUS	28	2021	2055	2033	S19	E35	.590	8745	31.5	34	-N	C		.50	.60	200	EI	
GRP 4547	28	2111	2136	2114	N24	W21	.601	8740	27.3	25	1-			.35		2 2 2		
HOUS	28	2110	2133	2114	N24	W21	.601	8740	27.3	23	-N	C		.20	.30	200		
SACP	28	2111	2139	2114	N23	W21	.590	8740	27.3	28	-F	C		.55	.59			
GRP 4548	28	2119	2134	2124	N22	W16	.541	8740	27.7	15	1-			.30		1 1 1		
HOUS	28	2119	2134	2124	N22	W16	.541	8740	27.7	15	-N	C		.30	.40	200		
GRP 4549	28	2221	2239	2231	S20	E37	.619	8745	31.7	18	1-			.60		1 1 1		
HOUS	28	2221	2239	2231	S20	E37	.619	8745	31.7	18	-N	C		.60	.80	200	EI	
GRP 4550	28	2240	2256	2241	N18	W84	.998	8733	22.6	16	1-			.28		1 1 1		
CULG	28	2240	2256	2241	N18	W84	.998	8733	22.6	16	-N	C	2241	.31				
GRP 4551	28	2257	2325	2300	N21	W22	.576	8740	27.3	28	1-			.98		3 3 3		
MANI	28	2254	2330	2259	N21	W24	.593	8740	27.2	36	1N	2	2259	2.17	2.71			
HOUS	28	2258	2324	2259	N22	W21	.579	8740	27.4	26	-N	C		.50	.60	200	EI	
CULG	28	2259	2321	2301	N20	W21	.556	8740	27.4	22	-N	C	2301	.41	.48			
GRP 4552	28	2354	2359	2356	N24	W38	.745	8740	26.1	5	1-			.37		1 1 1		
CULG	28	2354	2359	2356	N24	W38	.745	8740	26.1	5	-N	C	2356	.41	.60			
GRP 4553	29	0029	0046		S20	E40	.656	8745	1.0	17	1-			.28		1 1 1		
MANI	29	0029E	0046		S20	E40	.656	8745	1.0	17D	-F	2	0030	.31	.41			
GRP 4554	29	0031	0101	0038	N28	E72	.976	8751	3.4	30	1-			.37		1 1 1		
CULG	29	0031	0101	0038	N28	E72	.976	8751	3.4	30	-N	C	0038	.41				
GRP 4555	29	0101	0145	0103	N23	W27	.639	8740	27.0	44	-N	C	0103	.41	.52			
MITK	29	0103	0137	0103	N22	W28	.639	8740	26.9	34	-N	C	0103	.52	.70			
GRP 4556	29	0119	0320	0127	S28	W28	.559	8739	27.0	121	1-			.47		1 1 1		
CULG	29	0119	0320	0127	S28	W28	.559	8739	27.0	121	-F	C	0127	.52	.60			
GRP 4557	29	0208	0237	0235	N17	E79	.989	8752	4.0	29	1-			.37		1 1 1		
CULG	29	0208	0237	0235	N17	E79	.989	8752	4.0	29	-N	C	0235	.41				
GRP 4558	29	0247	0305	0251	S16	W30	.512	8739	26.9	18	1-			.65		1 1 1		
CULG	29	0247	0305	0251	S16	W30	.512	8739	26.9	18	-N	C	0251	.72	.84			
GRP 4559	29	0335	0350	0341	S24	E41	.681	8745	1.2	15	1-			.41		1 1 1		
MANI	29	0335	0350	0341	S24	E41	.681	8745	1.2	15	-F	2	0341	.46	.64			
GRP 4560	29	0336	0403	0339	S22	W27	.503	8739	27.1	27	1-			.47		3 3 3		
CULG	29	0333	0420	0339	S23	W27	.510	8739	27.1	47	-N	C	0339	.62	.72			
TACH	29	0337E	0340D	0337	S22	W27	.503	8739	27.1	30	-F	V	0337	.64	.70	2.50 48		
MANI	29	0337	0345	0340	S22	W26	.491	8739	27.2	8	-B	2	0340	.36	.41			
GRP 4561	29	0352	0448	0403	N25	W41	.777	8740	26.1	56	1-			.56		1 1 1		
CULG	29	0352	0448	0403	N25	W41	.781	8740	26.1	56	-N	C	0403	.62	.90			
GRP 4562	29	0449	0500	0452	N13	W17	.438	8740	27.9	11	1-			.37		1 1 1		
CULG	29	0449	0500	0452	N13	W17	.438	8740	27.9	11	-N	C	0452	.41	.44			
GRP 4563	29	0450	0501	0451	N23	W29	.657	8740	27.0	11	1-			.37		1 1 1		
CULG	29	0450	0501	0451	N23	W29	.657	8740	27.0	11	-N	C	0451	.41	.52			

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$		MAX. INT. %
					LAT.	MER. DIST.												
GRP 4564	1967 MAR 29	0508	0523	0508	S23	W29	.534	8739	27.0	15	1-						3 3 3	
CULG	29	0505	0540	0508	S26	W31	.578	8739	26.9	35	-N						LS	
ATHN	29	0508E	0511	0508	S20	W28	.504	8739	27.1	30	-N	1	C	0508	.93	1.08	1.80	
MANI	29	0510	0518		S22	W27	.503	8739	27.2	8	-N	2	C	0512	.31	.36		
GRP 4565	29	0526	0532	0526	N22	W22	.586	8740	27.6	6	1-						1 1 1	
ATHN	29	0526E	0532	0526	N22	W22	.586	8740	27.6	60	-N	1	C	0526	.66	.80	1.70	
GRP 4566	29	0546	0612	0556	N24	W43	.788	8740	26.0	26	1-						1 1 1	
CULG	29	0546	0612	0556	N24	W43	.788	8740	26.0	26	-N		C	0556	.41	.64		L
GRP 4567	29	0618	0633		N20	W25	.592	8740	27.4	15	1-						1 1 1	
BUCA	29	0618E	0633D		N20	W25	.592	8740	27.4	15D	-N		C	0618	1.10	1.40		
GRP 4568	29	0620	0653		N16	E75	.977	8752	3.9	33	1-						1 1 1	
BUCA	29	0620E	0653D		N16	E75	.977	8752	3.9	33D	-N		C	0631	.39	.55		
GRP 4569	29	0645	0714		S22	W37	.627	8739	26.5	29	1-						1 1 1	
BUCA	29	0645E	0714D		S22	W37	.627	8739	26.5	29D	1F		C	0654	2.21	3.40		
GRP 4570	29	0648	0710	0652	N24	W40	.762	8740	26.3	22	1-						2 2 1	
BUCA	29	0647E	0716D		N23	W40	.756	8740	26.3	29D	2N		C	0652	4.76	8.30		EF
CRON	29	0649	0703	0652	N25	W39	.760	8740	26.4	14	-N		C		5.54	1.10	200	
GRP 4571	29	0659	0708		N16	E75	.977	8752	3.9	9	1-						1 1 1	
BUCA	29	0659	0708D		N16	E75	.977	8752	3.9	9D	1N		C	0704	.62	.88		
GRP 4572	29	0711	0847		S21	E37	.623	8745	1.1	96	1-						2 2 2	
BUCA	29	0653E	0929D		S21	E35	.598	8745	31.9	156D	2F		P	0716	2.38	5.40		
MANI	29	0728E	0805		S21	E38	.635	8745	1.2	37D	-F	2	P	0730	4.42	1.81		
GRP 4573	29	0748	0755	0753	S23	W29	.534	8739	27.2	7	1-						1 1 1	
CRON	29	0748	0755	0753	S23	W29	.534	8739	27.1	7	-N		C		1.34	.40	200	
GRP 4574	29	0813	0822	0816	S19	E31	.538	8745	31.7	9	1-						3 3 3	
MEUD	29	0812	0818	0815	S20	E30	.530	8745	31.6	6	-F		C	0815	.28	.60		E
CRON	29	0813	0824	0817U	S18	E30	.520	8745	31.6	11	-N		C		.20	.20	200	
MANI	29	0814	0824	0817	S18	E32	.547	8745	31.7	10	-F	2	C	0817	.26	.31		
GRP 4575	29	0833	0843	0838	N24	W38	.745	8740	26.5	10	1-						3 3 3	
CRON	29	0827	0845	0839	N24	W38	.745	8740	26.5	18	-N		C		.39	.50	200	
MEUD	29	0836	0840	0837	N24	W40	.762	8740	26.4	4	-F		C	0837	.52	.70		
BUCA	29	0836E	0843D		N25	W37	.743	8740	26.6	7D	-N		C	0836	.30	1.00		
GRP 4576	29	0833	0850	0839	S14	E32	.534	8745	31.8	17	1-						1 1 1	
CRON	29	0833	0850	0839	S14	E32	.534	8745	31.8	17	-F		C		.40	.50	100	
GRP 4577	29	0836	0914		S22	W38	.639	8739	26.5	38	1-						1 1 1	
BUCA	29	0836E	0914D		S22	W38	.639	8739	26.5	38D	-F		P	0836	.62	1.10		
GRP 4578	29	0908	0947		N20	W27	.611	8740	27.4	39	1-						1 1 1	
BUCA	29	0908E	0947D		N20	W27	.611	8740	27.4	39D	1N		P	0927	2.21	3.40		
GRP 4579	29	0932	0946	0934	N16	E75	.977	8752	4.0	14	1						5 5 4	
ATHN	29	0931	0948	0933	N15	E75	.976	8752	4.0	17	1B	3						
UCCL	29	0931	0949	0935	N15	E85	.999	8752	4.8	18	1N		C	0933	.75	2.00		J
BUCA	29	0933	0947D		N16	E75	.977	8752	4.0	14D	1B		C	0935	1.83			
MEUD	29	0934E	0945D		N15	E72	.964	8752	3.8	11D	-N		C	0936	1.29			C
NERA	29	0935U	0939		N20	E70	.960	8752	3.6	4U	1B	2						
GRP 4580	29	0934	0945	0938	N27	W01	.555	8740	29.3	11	1-						1 1 1	
ATHN	29	0934	0945	0938	N27	W01	.555	8740	29.3	11	-B	3						
GRP 4581	29	0936	0945	0938	N14	W05	.363	8741	29.0	9	1-						3 3 3	
BUCA	29	0935E	0947D	0938	N13	W06	.352	8741	28.9	12D	1N		C	0938	.87	2.40	2.00	
MEUD	29	0936E	0942		N15	W05	.379	8741	29.0	6D	-N		C	0938	1.65	.70		CE
MANI	29	0936E	0945		N13	W05	.347	8741	29.0	9D	-F	2						
GRP 4582	29	0936	0950		N28	E70	.969	8751	3.7	14	1-						1 1 1	
MANI	29	0936E	0950D		N28	E70	.969	8751	3.6	14D	-N	2						
GRP 4583	29	0938	0942		S19	W34	.577	8739	26.9	4	1-						1 1 1	
MEUD	29	0938E	0942		S19	W34	.577	8739	26.9	4D	-F		C	0938	.69	.50		C
GRP 4584	29	1009	1026	1011	S20	W39	.644	8739	26.5	17	1-						2 2 2	
MEUD	29	1009	1025		S20	W37	.619	8739	26.6	16	-N		C	1013	.76	1.40		C
UCCL	29	1009	1027D	1011	S20	W40	.656	8739	26.4	18D	-N		P	1011	1.13	1.50		FJ
GRP 4585	29	1040	1046	1041	S19	W34	.577	8739	26.9	6	1-						1 1 1	
MEUD	29	1040	1046	1041	S19	W34	.577	8739	26.9	6	-N		C	1041	.55	.80		
GRP 4586	29	1051	1057	1053	S19	W32	.551	8739	27.1	6	1-						2 2 2	
MEUD	29	1051	1056	1053	S20	W33	.569	8739	27.0	5	-N		C	1053	.67	.50		D
ATHN	29	1051	1058	1053	S18	W31	.534	8739	27.1	7	-N	2					1.80	
GRP 4587	29	1130	1142	1131	N20	W28	.621	8740	27.4	12	1-						1 1 1	
ATHN	29	1130	1142	1131	N20	W28	.621	8740	27.4	12	-N						1.60	
GRP 4588	29	1132	1153		S22	W38	.639	8739	26.6	21	1-						1 1 1	
HUAN	29	1132E	1153D		S22	W38	.639	8739	26.6	21D	-N	2	P	1141	1.39	1.75		E
GRP 4589	29	1150	1216	1156	N21	W23	.584	8740	27.8	26	1-						3 3 3	
HUAN	29	1149	1225D		N21	W23	.584	8740	27.8	36D	-B	1	P	1153	1.23	1.57		
ATHN	29	1151	1212	1156	N20	W25	.592	8740	27.6	21	-B	2					2.00	
MEUD	29	1202E	1212		N22	W22	.586	8740	27.9	10D	-N		C	1202	1.44	2.00		E



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$		MAX. INT. %
					LAT.	MER. DIST.												
	1967 MAR																	
GRP 4590	29	1156	1215	1200	S28	E36	.645	8745	1.2	19	1							
CATA	29	1156E	1215D	1200	S28	E36	.645	8745	1.2	19D	1N		1200	2.72	3.60		1 1 1	
GRP 4591	29	1221	1225		S24	W36	.624	8739	26.8	4	1-						1 1 1	
HUAN	29	1221	1225D		S24	W36	.624	8739	26.8	4D	-F	1	1222	.25	.27		D	
GRP 4592	29	1235	1239		S19	E29	.511	8745	31.7	4	1-			.54			2 2 2	
MEUD	29	1235E	1238		S19	E29	.498	8745	31.6	3D	-N		1235	.62	.70		CD	
MCMA	29	1235E	1239		S18	E29	.507	8745	31.7	4D	-N		1236	.41	.50		D	
GRP 4593	29	1247	1255	1248	N19	E82	.996	8752	4.7	8	1-			.18			2 2 1	
MCMA	29	1246	1255	1248	N20	E88	1.000	8752	5.1	9	-N		1248				D	
HUAN	29	1247	1254		N17	E75	.977	8752	4.2	7	-F	1	1250	.25			D	
GRP 4594	29	1253	1257	1255	S18	E28	.493	8745	31.6	4	1-			.57			1 1 1	
MCMA	29	1253	1257	1255	S18	E28	.493	8745	31.6	4	-N		1255	.41	.50		D	
GRP 4595	29	1304	1309	1305	S24	W36	.624	8739	26.8	5	1-			.44			2 2 2	
MCMA	29	1303	1308	1304	S23	W37	.631	8739	26.8	5	-F		1304	.31	.40		EH	
HUAN	29	1305	1309	1306	S25	W34	.604	8739	27.0	4	-F	2	1306	.50	.53			
GRP 4596	29	1407	1411		N22	W26	.621	8740	27.6	4	1-			.33			1 1 1	
HUAN	29	1407E	1411		N22	W26	.621	8740	27.6	4D	-F	1	1408	.37	.40		CE	
GRP 4597	29	1408	1417	1409	S23	W31	.559	8739	27.3	9	1-			.47			2 2 2	
HUAN	29	1407E	1411		S24	W33	.589	8739	27.1	4D	-N	1	1407	.31	.33		CD	
ATHN	29	1409E	1422	1409	S22	W29	.528	8739	27.4	13D	-N	2	1409	.66	.60	1.70		
GRP 4598	29	1409	1410		S22	W45	.719	8739	26.2	1	1-			.18			1 1 1	
UCCL	29	1409E	1410D		S22	W45	.719	8739	26.2	1D	-N		1409	.26	.50		J	
GRP 4599	29	1425	1443		S21	W40	.659	8739	26.6	18	1-			.66			1 1 1	
HUAN	29	1425	1443		S21	W40	.659	8739	26.6	18	-F	1	1435	.75	.85		E	
GRP 4600	29	1447	1453	1448	N21	W28	.630	8740	27.5	6	1-			.43			1 1 1	
MCMA	29	1447	1453	1448	N21	W28	.630	8740	27.5	6	-N		1448	.31	.40		D	
GRP 4601	29	1455	1458		S22	W36	.615	8739	26.9	3	1-			.45			1 1 1	
HUAN	29	1455E	1458		S22	W36	.615	8739	26.9	3D	-N	1	1456	.50	.53		D	
GRP 4602	29	1513	1551	1522	S22	W40	.662	8739	26.6	38	1-			.74			4 4 4	
MCMA	29	1510	1557	1517	S23	W40	.666	8739	26.6	47	-N		1517	.41	.50		E	
LOCA	29	1515	1550	1525	S20	W38	.632	8739	26.8	35	-N		1525	.63	.80			
ATHN	29	1523E	1546	1523	S23	W40	.666	8739	26.6	23D	-N	2	1523	.83	.90	1.80		
HUAN	29	1526E	1550		S21	W42	.683	8739	26.5	24D	-N	1	1526	1.11	1.27		E	
GRP 4603	29	1555	1606		N21	W30	.649	8740	27.4	11	1-			.55			1 1 1	
HUAN	29	1555	1606D		N21	W30	.649	8740	27.4	11D	-F	1	1558	.62	.69		E	
GRP 4604	29	1611	1640	1615	N17	E73	.970	8752	4.1	29	1-			.43			4 4 3	
MCMA	29	1610	1635	1611	N20	E75	.979	8752	4.3	25	-N		1611				D	
UCCL	29	1612	1619D	1614	N15	E79	.988	8752	4.6	7D	-N		1614	1.03				
HUAN	29	1612E	1624D		N17	E69	.952	8752	3.8	12D	-N	1	1613	.39			CD	
HOUS	29	1617E	1645	1619	N15	E69	.950	8752	3.9	28D	-N			.30	.80		200	
GRP 4605	29	1621	1624		S24	W37	.636	8739	26.9	3	1-			.23			1 1 1	
HUAN	29	1621	1624D		S24	W37	.636	8739	26.9	3D	-N	1	1623	.25	.27		D	
GRP 4606	29	1627	1642	1629	S23	W48	.754	8739	26.1	15	1-			.20			1 1 1	
HOUS	29	1627	1642	1629	S23	W48	.754	8739	26.1	15	-N			.20	.30		200	
GRP 4607	29	1656	1709	1659	S17	E55	.815	8745	2.8	13	1-			.20			1 1 1	
HOUS	29	1656	1709	1659	S17	E55	.815	8745	2.8	13	-N			.20	.30		200	
GRP 4608	29	1658	1712	1700	N17	E71	.961	8752	4.0	14	1-			.58			3 3 2	
HOUS	29	1657	1719	1700	N15	E69	.950	8752	3.9	22	-N			.40	1.10		200	
MCMA	29	1658	1703	1659	N20	E75	.979	8752	4.3	5	-F		1659				I	
LOCK	29	1659	1714	1702	N17	E68	.947	8752	3.8	15	-N		1702	.80	2.00		10	
GRP 4609	29	1659	1714	1702	N21	W27	.620	8740	27.7	15	1-			.51			2 2 2	
HOUS	29	1658	1718	1700	N21	W27	.620	8740	27.7	20	-N			.30	.40		200	
LOCK	29	1700	1710	1703	N20	W27	.611	8740	27.7	10	-F		1703	.70	.90		10	
GRP 4610	29	1726	1823	1741	N21	W30	.649	8740	27.5	57	1+			2.61			5 4 4	
HOUS	29	1720	1823	1739	N21	W31	.658	8740	27.4	63	-B			1.30	1.80		300	
LOCK	29	1725	1817	1740	N21	W30	.649	8740	27.5	52	1B		1740	3.80	4.90		30	
MCMA	29	1727	1809	1735	N21	W28	.630	8740	27.6	42	1B		1735	1.55	2.10		EH	
HUAN	29	1731	1831	1740	N22	W30	.657	8740	27.5	60	1B	2	1740	3.42	3.90			
HALE	29	1753E	1835	1753U	N21	W30	.649	8740	27.5	42D	1B	2	1753	2.78	3.70		FI	
GRP 4611	29	1800	1810	1804	S24	W38	.647	8739	26.9	10	1-			.34			3 3 3	
HOUS	29	1758	1808	1803	S23	W40	.666	8739	26.7	10	-N			.30	.40		200	
LOCK	29	1800	1811	1804	S26	W38	.656	8739	26.9	11	-N		1804	.50	.70		20	
HUAN	29	1801	1810	1804	S24	W37	.636	8739	27.0	9	-F	2	1804	.25	.27		D	
GRP 4612	29	1813	1836	1819	S22	W42	.686	8739	26.6	23	1-			.30			2 2 2	
HUAN	29	1808	1846D		S20	W43	.691	8739	26.5	38D	-N	1	1818	.25	.27		D	
MCMA	29	1817	1825	1819	S23	W40	.666	8739	26.8	8	-N		1819	.26	.40		D	
GRP 4613	29	1828	1842	1832	N17	E69	.952	8752	3.9	14	1-			.52			2 2 2	
HOUS	29	1826	1843	1831	N15	E69	.950	8752	3.9	17	-N			.30	.80		200	
HALE	29	1830	1840	1832	N18	E68	.948	8752	3.9	10	1N	2	1832	.62			I	
GRP 4614	29	1855	1930	1858	N15	E69	.950	8752	4.0	35	1-			.50			1 1 1	
HOUS	29	1855	1930	1858	N15	E69	.950	8752	4.0	35	-N			.50	1.30		200	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION			CMP DAY	COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
	1967 MAR																
GRP 4615	29	1859	1908	1901	N19	W36	.692	8740	27.1	9	1-						3 3 3
HOUS	29	1857	1909	1900U	N20	W36	.699	8740	27.1	12	-N						IL
HALE	29	1859	1908	1902	N19	W35	.682	8740	27.2	9	-B	2	C	1902	.31	.40	200
HUAN	29	1900	1907		N19	W36	.692	8740	27.1	7	-F	1	P	1901	.39	.46	
GRP 4616	29	1859	1923	1908	S22	W43	.697	8739	26.6	24	1-						D 5 5 5
HOUS	29	1842	1932	1908	S22	W45	.719	8739	26.4	50	-B		C		1.00	1.00	300
HUAN	29	1856	1916		S22	W44	.708	8739	26.5	20	-N	1	P	1908	1.03	1.21	
HALE	29	1857	1922	1907	S21	W44	.705	8739	26.5	25	-N	2	C	1907	1.03	1.40	
LOCK	29	1900	1925	1912	S23	W43	.700	8739	26.6	25	-F		C	1912	1.10	1.50	10
MCMA	29	1902	1918	1905	S24	W41	.681	8739	26.7	16	-N		C	1905	.62	.80	
GRP 4617	29	1900	1907	1903	N17	W31	.626	8740	27.5	7	1-						E 2 2 2
MCMA	29	1859	1904	1901	N18	W26	.582	8740	27.8	5	-N		C	1901	.31	.40	
LOCK	29	1900	1910	1905	N16	W36	.672	8740	27.1	10	-N		C	1905	.50	.70	20
GRP 4618	29	1942	2011	1945	S23	W41	.677	8739	26.7	29	1-						5 5 5
HOUS	29	1940	2041	1944	S22	W45	.719	8739	26.4	61	-N		C		.70	1.00	200
MCMA	29	1941	2007	1942	S23	W40	.666	8739	26.8	26	-N		C	1942	.41	.50	
LOCK	29	1942	1957	1948	S25	W39	.663	8739	26.9	15	-N		C	1948	.70	1.00	20
HALE	29	1942	1957	1944	S22	W38	.639	8739	27.0	15	-N	2	C	1944	.36	.50	
HUAN	29	1943	1953D		S23	W41	.677	8739	26.7	10D	1-	1	P	1949	.45	.51	
GRP 4619	29	2018	2049	2028	N21	W42	.762	8740	26.7	31	1-						E 2 2 2
LOCK	29	2018	2030	2022	N21	W40	.744	8740	26.8	12	-F		C	2022	.60	.90	10
HOUS	29	2028	2108	2034	N21	W44	.780	8740	26.6	40	-N		C		.30	.50	200
GRP 4620	29	2050	2121	2105	N14	W14	.422	8741	28.8	31	1-						2 2 2
HOUS	29	2049	2126	2105	N15	W15	.443	8741	28.7	37	-N		C		.40	.40	200
LOCK	29	2050	2115	2105	N13	W12	.391	8741	29.0	25	-F		C	2105	.60	.70	10
GRP 4621	29	2053	2108	2056	N18	W37	.696	8740	27.1	15	1-						2 2 2
LOCK	29	2053	2102	2056	N18	W38	.706	8740	27.0	9	-F		C	2056	.60	.80	10
HALE	29	2053	2113	2055	N18	W35	.675	8740	27.2	20	-N	2	C	2055	.46	.60	
GRP 4622	29	2100	2109	2102	N23	W90	1.001	8733	23.1	9	1-						3 3 2
HOUS	29	2059	2110	2101	N25	W90	1.001	8733	23.1	11	-B		C		.20	.80	300
MCMA	29	2100	2105	2102	N20	W90	1.001	8733	23.1	5	-N		C	2102			
CULG	29	2100	2113	2102	N23	W90	1.001	8733	23.1	13	-N	1	C	2102	.31		
GRP 4623	29	2101	2117	2104	S24	W40	.670	8739	26.9	16	1-						5 5 5
CULG	29	2100	2116	2104	S24	W40	.670	8739	26.9	16	-N	1	C	2104	1.03	1.35	
HOUS	29	2100	2136	2103	S23	W41	.677	8739	26.8	36	-B		C		.50	.70	300
MCMA	29	2102	2110	2104	S24	W40	.670	8739	26.9	8	-B		C	2104	.72	.90	
LOCK	29	2102	2115	2105	S26	W40	.678	8739	26.9	13	-N		C	2105	.90	1.30	20
HALE	29	2103	2110	2104	S23	W40	.666	8739	26.9	7	-N	1	C	2104	1.03	1.40	
GRP 4624	29	2105	2121	2109	N18	E70	.958	8752	4.1	16	1-						2 2 2
LOCK	29	2100	2120	2104	N15	E66	.933	8752	3.8	20	-F		C	2104	.30	.70	10
MCMA	29	2110	2121	2113	N20	E73	.972	8752	4.4	11	-N		C	2113	.31	1.00	
GRP 4625	29	2105	2120	2106	N18	W28	.603	8740	27.8	15	1-						1 1 1
MCMA	29	2105	2120	2106	N18	W28	.603	8740	27.8	15	-N		C	2106	.57	.50	
GRP 4626	29	2125	2130	2126	N17	E68	.947	8752	4.0	5	1						EH 6 6 6
CULG	29	2058	2130	2126	N17	E67	.942	8752	3.9	32	1B		C	2126	.83		
HUAN	29	2124	2127D		N18	E68	.948	8752	4.0	30	-B	1	P	2127	.55		
MCMA	29	2124	2129	2126	N20	E73	.972	8752	4.4	5	-B		C	2126	.52	1.70	
HALE	29	2125	2129	2127	N17	E67	.942	8752	3.9	4	1B		C	2127	.93		
LOCK	29	2125	2130	2127	N15	E66	.933	8752	3.8	5	1B		C	2127	1.00	2.30	30
HOUS	29	2125	2133	2126	N14	E66	.932	8752	3.8	8	-N		C		.50	1.20	200
GRP 4627	29	2145	2200	2148	S17	W45	.709	8739	26.5	15	1-						1 1 1
HOUS	29	2145	2200	2148	S17	W45	.709	8739	26.5	15	-F		C		.10	.10	100
GRP 4628	29	2200	2245	2211	S24	E29	.541	8745	1.1	45	1-						2 2 2
CULG	29	2159	2229	2211	S26	E33	.600	8745	1.4	30	-N		C	2211	1.24	1.44	
LOCK	29	2200	2300	2210	S21	E25	.471	8745	31.8	60	-F		C	2210	1.10	1.20	10
GRP 4629	29	2207	2224	2211	S24	W41	.681	8739	26.8	17	1-						4 4 4
HOUS	29	2205	2226	2211	S22	W42	.686	8739	26.8	21	-N		C		.69	.60	200
MANI	29	2206	2220		S22	W40	.662	8739	26.9	14	-N	1	C	2209	1.13	1.51	
LOCK	29	2207	2227	2212	S29	W39	.682	8739	27.0	20	-F		C	2212	.90	1.30	10
HUAN	29	2208	2217D	2210	S22	W41	.674	8739	26.8	9D	-N	2	C	2210	.45	.51	
GRP 4630	29	2218	2239	2224	N21	W34	.687	8740	27.4	21	1-						3 3 3
HOUS	29	2217	2243	2222	N21	W34	.687	8740	27.4	26	-N		C		.30	.40	200
LOCK	29	2218	2237	2225	N20	W35	.689	8740	27.3	19	-F		C	2225	.80	1.10	10
HALE	29	2224E	2238D	2224U	N21	W33	.677	8740	27.5	14D	-N	1	P	2224	.83	1.10	
GRP 4631	29	2230	2245	2231	S22	W40	.662	8739	26.9	15	1-						3 3 3
HALE	29	2224	2238D	2224	S21	W39	.647	8739	27.0	14D	-N	2	C	2224	.41	.50	
HOUS	29	2232	2245	2234	S21	W42	.683	8739	26.8	13	-N		C		.20	.30	200
LOCK	29	2234	2235D	2235	S23	W39	.654	8739	27.0	1D	-F		C	2235	.30	.40	10
GRP 4632	29	2245	2315	2257	S22	W48	.751	8739	26.3	30	1-						2 2 2
HOUS	29	2244	2323	2258	S21	W49	.760	8739	26.3	39	-N		C		.51	.30	200
LOCK	29	2245	2307	2255	S22	W46	.730	8739	26.5	22	-F		C	2255	.80	1.20	10

# SOLAR FLARES

REVISED

MARCH 1967

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH FLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %	
					LAT.	MER. DIST.												
	1967 MAR																	
GRP 4633	29	2245	2311	2251	N24	W40	.762	8740	26.9	26	1+				1.93			2 2 2
HOUS	29	2245	2309	2250	N25	W41	.777	8740	26.9	24	-B				1.00	1.60		300 EI
LOCK	29	2245	2312	2251	N23	W39	.747	8740	27.0	27	1B				2.40	3.60		30
GRP 4634	29	2331	0000	2335	S23	W46	.733	8739	26.5	29	1-				.82			2 2 2
HOUS	29	2324	0005D	2330	S22	W45	.719	8739	26.6	41D	-B				.70	1.00		300 EI
LOCK	29	2338	2355	2340	S23	W46	.733	8739	26.5	17	-N				.90	1.40		20
GRP 4635	29	2336	2359	2350	S22	W47	.741	8739	26.5	23	1-				.70			2 2 2
CULG	29	2330	2356	2349	S23	W47	.743	8739	26.5	26	-N				.52	.75		
MANI	29	2342	0002	2350	S21	W47	.739	8739	26.5	20	-N	2			1.03	1.52		
GRP 4636	30	0006	0015	0008	N19	W36	.692	8740	27.3	9	1-				.71			2 2 1
LOCK	30	0004	0014	0006	N19	W36	.692	8740	27.3	10	-F				.70	1.00		10
CRON	30	0007	0015	0009	N18	W36	.685	8740	27.3	8	-N				.10	.10		200
GRP 4637	30	0018	0024	0021	N20	W31	.649	8740	27.7	6	1-				.34			2 2 2
CULG	30	0018	0023	0020	N19	W31	.641	8740	27.7	5	-N				.41	.52		
CRON	30	0018	0025	0022	N21	W30	.648	8740	27.8	7	-F				.30	.40		100
GRP 4638	30	0023	0043	0025	S24	W41	.681	8739	26.9	20	1+				1.47			2 2 2
LOCK	30	0022	0045	0024	S25	W41	.685	8739	26.9	23	1B				2.10	2.90		30
CRON	30	0023	0041	0026	S22	W41	.674	8739	26.9	18	-N				.50	.70		200 E
GRP 4639	30	0025	0054	0028	S22	W48	.752	8739	26.4	29	1-				.87			3 3 3
CULG	30	0022	0039	0024	S23	W45	.722	8739	26.6	17	-N				1.44	1.96		
MANI	30	0023	0056	0026	S21	W49	.760	8739	26.3	33	-B	2			1.13	1.59		FZ
CRON	30	0029	0108	0033	S21	W49	.760	8739	26.3	39	-N				.30	.50		200 IJ
GRP 4640	30	0103	0115	0103	N23	W90	1.001	8733	23.3	12	1				.56			1 1 1
CULG	30	0103E	0115	0103	N23	W90	1.001	8733	23.3	12D	1N				.62			T
GRP 4641	30	0115	0133	0124	S24	E23	.470	8745	31.8	18	1-				.92			2 2 2
CULG	30	0114	0133	0123	S24	E23	.470	8745	31.8	19	-N				.62	.66		L
LOCK	30	0115	0125D	0125U	S24	E23	.470	8745	31.8	10D	-N				1.20	1.30		20 L
GRP 4642	30	0135	0145	0140	S25	W58	.850	8739	25.7	10	1-				.37			1 1 1
CULG	30	0135	0145	0140	S25	W58	.850	8739	25.7	10	-F				.41	.76		C
GRP 4643	30	0225	0300	0225	S21	W48	.749	8739	26.5	35	1-				.43			1 1 1
HALE	30	0225E	0300	0225E	S21	W48	.749	8739	26.5	35D	-F	2			.36	.50		
GRP 4644	30	0320	0332	0325	N28	E60	.923	8751	3.6	12	1-				.18			1 1 1
HALE	30	0320	0332	0325	N28	E60	.923	8751	3.6	12	-N	2			.15			
GRP 4645	30	0326	0343	0333	N27	E82	.998	8754	5.3	17	1-				.28			1 1 1
CULG	30	0326	0343	0333	N27	E82	.998	8754	5.3	17	-N				.31			
GRP 4646	30	0411	0425	0414	N20	W47	.802	8740	26.6	14	1-				.51			3 3 3
CULG	30	0410	0425	0413	N19	W47	.798	8740	26.6	15	-N				.72	1.19		
CRON	30	0411	0423	0414	N20	W46	.793	8740	26.7	12	-N				.40	.70		200 E
HALE	30	0412	0427E	0414	N20	W47	.802	8740	26.6	15D	-B	2			.41	.70		
GRP 4647	30	0414	0419	0416	S22	E22	.441	8745	31.8	5	1-				.18			1 1 1
HALE	30	0414	0419	0416	S22	E22	.441	8745	31.8	5	-F	2			.15	.20		
GRP 4648	30	0425	0445	0437	N31	W37	.784	8740	27.4	20	1-				.37			1 1 1
CULG	30	0425	0445	0437	N31	W37	.784	8740	27.4	20	-N				.41	.64		C
GRP 4649	30	0450	0520	0500	N21	W42	.762	8740	27.1	30	1-				.94			3 3 3
CRON	30	0456	0520	0506	N19	W38	.712	8740	27.4	24	-N				.60	.90		200 E
KODA	30	0500E	0509	0504	N22	W48	.820	8740	26.6	9D	1F				1.29	2.20		D
MANI	30	0444	0530	0451	N21	W39	.734	8740	27.3	46	-F	2			1.13	1.69		1.88
GRP 4650	30	0501	0513	0505	N27	E58	.909	8751	3.6	12	1-				.28			1 1 1
CULG	30	0501	0513	0505	N27	E58	.909	8751	3.6	12	-N				.31	.75		
GRP 4651	30	0512	0520	0514	S19	W50	.767	8739	26.5	8	1-				.27			1 1 1
MANI	30	0512	0520	0514	S19	W50	.767	8739	26.5	8	-N	2			.31	.48		
GRP 4652	30	0513	0531	0513	N22	W36	.713	8740	27.5	18	1-				2.64			1 1 1
ATHN	30	0513E	0531	0513	N22	W36	.713	8740	27.5	18D	1N	2			2.64	3.80		1.90
GRP 4653	30	0530	0637	0558	S21	W49	.760	8739	26.6	67	1+				1.79			3 3 3
MANI	30	0530	0620	0550	S19	W50	.767	8739	26.5	50	1B	2			1.44	2.23		
SIBE	30	0552E	0700D	0559	S21	W49	.760	8739	26.6	68D	2F				3.98	6.20		52 CE
CRON	30	0559	0631	0606	S23	W48	.754	8739	26.6	32	-N				.50	.80		200 E
GRP 4654	30	0545	0615	0549	N21	W40	.743	8740	27.2	30	1-				.82			2 2 2
ABST	30	0518E	0612	0547	N20	W40	.738	8740	27.2	54D	-F				.90	1.40		65 DJ
MANI	30	0545	0618	0551	N21	W40	.743	8740	27.2	33	-N	2			1.03	1.54		
GRP 4655	30	0552	0625	0554	S18	E17	.343	8745	31.5	33	1-				.47			1 1 1
MANI	30	0552	0625	0554	S18	E17	.343	8745	31.5	33	-F	2			.52	.55		
GRP 4656	30	0625	0700		N24	W41	.770	8740	27.2	35	1-							1 1 0
ISTA	30	0625E	0700		N24	W41	.770	8740	27.2	35D	-N							
GRP 4657	30	0655	0749	0731	S22	W50	.772	8739	26.5	54	1-				.51			2 2 1
MANI	30	0725	0749	0731	S20	W50	.769	8739	26.6	24	-F	2			.57	.88		U
ISTA	30	0625E	0725		S24	W49	.766	8739	26.6	60D	-N							
GRP 4658	30	0701	0709	0703	N24	W45	.804	8740	26.9	8	1-				.99			1 1 1
ATHN	30	0701	0709	0703	N24	W45	.804	8740	26.9	8	-N	2			.99	1.60		
GRP 4659	30	0703	0709	0704	S20	E17	.362	8745	31.6	6	1-				.66			1 1 1
ATHN	30	0703	0709	0704	S20	E17	.362	8745	31.6	6	-N	2			.66	.70		1.70

# SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.													
GRP 4660	1967 MAR 30	0708	0715		N26	E54	.881	8751	3.3	7	1-						1 1 0		
ISTA	30	0708	0715		N26	E54	.881	8751	3.3	7	-F								
GRP 4661	30	0740	0756	0742	N24	W46	.812	8740	26.9	16	1-						1 1 1		
ATHN	30	0740	0756	0742	N24	W46	.812	8740	26.9	16	-N	2	0742	.66	1.10	1.60			
GRP 4662	30	0740	0800		N31	W90	1.002	8733	23.6	20	1-						1 1 0		
ISTA	30	0740	0800		N31	W90	1.002	8733	23.6	20	-N								
GRP 4663	30	0756	0825	0801	N21	W36	.706	8740	27.6	29	1			1.46			7 7 5		
ATHN	30	0757	0818	0800	N23	W36	.720	8740	27.6	21	1B	2	0800	2.31	3.70	2.00			
CRON	30	0757	0822	0802	N19	W38	.712	8740	27.5	25	-N	C		.60	.90		E		
MANI	30	0758	0830	0800	N19	W34	.672	8740	27.8	32	-N	2	0800	1.13	1.55				
BUCA	30	0801E	0841		N22	W38	.731	8740	27.5	40D	1B	P	0802	2.21	3.30		B		
WEND	30	0755E	0825		N21	W38	.725	8740	27.5	30D	1N	V		4.13					
ISTA	30	0755	0835		N21	W37	.715	8740	27.6	40	1B								
NERA	30	0756U	0801		N19	W33	.662	8740	27.9	5U	1N	2							
GRP 4664	30	0802	0836	0815	N21	W45	.789	8740	27.0	34	1-			1.43			6 5 2		
ONDR	30	0757	0831		N21	W45	.789	8740	27.0	34	1F	V	0805			2.40	CHJL		
KODA	30	0800E	0805	0801	N19	W40	.732	8740	27.3	5D	-N	V	0804	.32	.50	1.84	D		
ARCE	30	0810E	0840		N21	W40	.743	8740	27.3	30D	1N	C	0810	1.61	2.40		F		
WEND	30	0804	0850D		N22	W48	.820	8740	26.7	46D	1N	V		3.09					
ISTA	30	0805	0840		N22	W48	.820	8740	26.7	35	-N								
MANI	30	0820	0850	0828	N22	W47	.811	8740	26.8	30	2B	2	0828	5.21	8.70				
GRP 4665	30	0842	0935	0902	N23	W47	.816	8740	26.8	53	2-			4.48			11 11 9		
BUCA	30	0809	0923D	0900	N23	W47	.816	8740	26.8	74D	2B	P	0900	6.67	11.50		EF		
ARCE	30	0814E	0907D		N23	W48	.824	8740	26.7	53D	2B	P	0907	4.67	8.10		FZ		
KHAR	30	0838E	1035D	0905	N25	W47	.825	8740	26.8	117D	3N	P	0910	10.31	19.10	3.50	EHKLW		
SIBE	30	0850E	0928D		N23	W46	.808	8740	26.9	38D	2N	C	0901	4.93	7.90		CE		
WEND	30	0851	0940	0901	N24	W46	.812	8740	26.9	49	2N	V		10.31					
ONDR	30	0851	0953D		N21	W48	.815	8740	26.8	62D	2N	V	0902			3.50	CFJ		
MEUD	30	0853	0920D		N23	W50	.840	8740	26.6	27D	1N	C	0907	2.27	3.70		F		
CRON	30	0853	0926	0900	N23	W46	.808	8740	26.9	33	1B	C		1.60	2.70		EI		
HERS	30	0855E	0935	0902	N23	W47	.816	8740	26.8	40D	2B	C	0901	3.30	5.60	3.10	CF		
ATHN	30	0850	0920		N24	W46	.812	8740	26.9	30	1B			3.35	4.50	2.00			
NERA	30	0851U	0910		N21	W50	.832	8740	26.6	19U	2N	2							
GRP 4666	30	0856	0907		N27	W37	.756	8740	27.6	11	1			1.73			1 1 1		
ARCE	30	0856E	0907D		N27	W37	.756	8740	27.6	11D	1N	P	0907	1.73	2.70				
GRP 4667	30	0920	0930	0921	S18	E19	.370	8745	31.8	10	1-			.59			2 2 2		
BUCA	30	0919E	0923D		S18	E19	.370	8745	31.8	4D	-N	P	0919	1.10	1.20				
CRON	30	0920	0930	0921	S17	E18	.349	8745	31.7	10	-N	C		.40	.40		200		
GRP 4668	30	0939	0947	0942	S22	E22	.441	8745	1.1	8	1-			.19			2 2 1		
MANI	30	0940	0950	0942	S21	E20	.408	8745	31.9	10	-N	2	0942	.21	.24				
WEND	30	0937	0943		S23	E23	.462	8745	1.1	6	-N								
GRP 4669	30	0950	1018	1001	S21	W50	.770	8739	26.7	28	1-			1.03			6 6 4		
ONDR	30	0949E	1021		S21	W50	.770	8739	26.7	32D	1F	V	0952			1.90	CR		
MANI	30	0950	0955D	0954	S20	W51	.779	8739	26.6	5D	-N	2	0954	.41	.64		E		
ARCE	30	0950	1020D	1005	S21	W50	.770	8739	26.7	30D	1N	C	1005	1.10	1.80				
NERA	30	0959U	1009		S22	W50	.772	8739	26.7	10U	1N	2							
MEUD	30	1000E	1020		S20	W48	.748	8739	26.8	20D	-N	C	1001	.83	1.20		E		
ATHN	30	1005E	1020D	1005	S22	W47	.741	8739	26.9	15D	1N	2	1005	1.98	2.90	1.90			
GRP 4670	30	0951	1001	0955	S19	E18	.365	8745	31.8	10	1-			.68			2 2 1		
ARCE	30	0953	1005D	0955	S18	E18	.357	8745	31.8	12D	-F	C	0955	.66	.70				
WEND	30	0949	0956		S19	E17	.352	8745	31.7	7	-N								
GRP 4671	30	1024	1035	1028	N13	E37	.665	8752	2.2	11	1-			.54			3 3 2		
MEUD	30	1025	1032	1028	N14	E39	.693	8752	2.4	7	-N	C	1028	.52	.60				
ATHN	30	1028E	1037	1028	N12	E31	.588	8752	1.8	9D	-N	2	1028	.66	.80	1.70			
ONDR	30	1023E	1031D		N14	E40	.704	8752	2.4	8D	-F	V					CDG		
GRP 4672	30	1053	1115	1058	N20	W42	.757	8740	27.3	22	1-			.79			2 2 2		
KHAR	30	1053	1115D		N22	W42	.768	8740	27.3	22D	1F	P	1109	2.27	3.50	2.10	D		
MEUD	30	1055	1110	1058	N18	W42	.746	8740	27.3	15	-N	C	1058	.57	.80		D		
GRP 4673	30	1101	1110	1104	S20	E14	.326	8745	31.5	9	1-			.46			4 4 2		
KHAR	30	1102	1110	1103	S18	E16	.330	8745	31.7	8	-F	P	1103			2.30	EQ		
MEUD	30	1102	1112	1104	S19	E15	.327	8745	31.6	10	-N	C	1104	.72	.70				
UCCL	30	1104E	1112D		S20	E15	.338	8745	31.6	8D	-N	P	1105	.52	.60				
NERA	30	1100U	1106		S22	E10	.311	8745	31.2	6U	1F	2							
GRP 4674	30	1144	1208	1148	N23	W41	.764	8740	27.4	24	1+			1.92			5 5 4		
KHAR	30	1140	1210D	1147	N24	W40	.762	8740	27.5	30D	2N	P	1207	4.54	7.30	2.80	E		
ATHN	30	1141	1218	1148	N22	W34	.694	8740	27.9	37	1B	2	1148	2.64	3.80	2.00			
UCCL	30	1145	1200	1148	N24	W47	.820	8740	27.0	15	1B	C	1148	2.06			IJ		
MEUD	30	1148	1210	1150	N22	W42	.768	8740	27.3	22	1B	C	1150	1.65	2.40		E		
NERA	30	1150U	1200		N22	W42	.768	8740	27.3	10U	2F	2							
GRP 4675	30	1216	1230	1217	S20	W54	.809	8739	26.5	14	1-			.77			2 2 2		
ATHN	30	1215E	1233	1215	S20	W48	.748	8739	26.9	18D	-N	2	1215	.99	1.50	1.70			
UCCL	30	1216	1227	1219	S20	W60	.862	8739	26.0	11	1N	C	1219	.77			E		

# SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION			CMP DAY	COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	
1967 MAR																		
GRP 4676	30	1305	1312		S22	W55	.820	8739	26.4	7	1-			.35				1 1 1
HUAN	30	1305E	1312		S22	W55	.820	8739	26.4	7D	-F	1	P	1306	.41	.55		D
GRP 4677	30	1326	1339		N18	W44	.765	8740	27.3	13	1-			.51				1 1 1
HUAN	30	1326	1339		N18	W44	.765	8740	27.3	13	-F	1	C	1329	.58	.72		E
GRP 4678	30	1412	1426	1415	S22	W56	.830	8739	26.4	14	1-			.64				3 3 2
MCMA	30	1411	1424	1414	S22	W56	.830	8739	26.4	13	-N		C	1414	.31	.50		D
ONDR	30	1412	1421		S20	W57	.836	8739	26.3	9	-F		V	1416			1.90	
ATHN	30	1414	1432	1416	S23	W54	.813	8739	26.5	18	-N	1		1416	.83	1.40	1.80	
GRP 4679	30	1428	1506	1438	S21	W55	.819	8739	26.5	38	1-				.63			2 2 2
HUAN	30	1419E	1513		S22	W55	.820	8739	26.5	54D	-N	1	P	1443	.50	.66		E
ATHN	30	1436	1459	1438	S20	W55	.818	8739	26.5	23	-N	1		1438	.83	1.40	1.70	
GRP 4680	30	1433	1440	1435	N25	W58	.904	8740	26.3	7	1-				.33			2 2 1
ONDR	30	1432	1440		N24	W65	.942	8740	25.7	8	-F		V	1435			1.50	
ATHN	30	1434	1439	1435	N26	W51	.860	8740	26.8	5	-N	1		1435	.33	.60	1.60	
GRP 4681	30	1624	1631	1625	S22	W54	.811	8739	26.6	7	1-				.52			1 1 1
MCMA	30	1624	1631D	1625	S22	W54	.811	8739	26.6	7D	-F		C	1625	.36	.60		E
GRP 4682	30	1723	1736	1727	N21	W43	.771	8740	27.5	13	1-				.38			2 2 2
LOCK	30	1720	1739	1725	N19	W41	.741	8740	27.6	19	-F		C	1725	.50	.70		10
HALE	30	1725	1733	1729	N23	W45	.799	8740	27.4	8	-F	2	C	1729	.21	.30		
GRP 4683	30	1729	1756	1732	N14	W41	.715	8740	27.7	27	1-				.31			1 1 1
HALE	30	1729	1756	1732	N14	W41	.715	8740	27.7	27	-B	2	C	1732	.26	.40		
GRP 4684	30	1739	1745	1740	S22	W56	.830	8739	26.5	6	1-				.45			1 1 1
MCMA	30	1739	1745	1740	S22	W56	.830	8739	26.5	6	-N		C	1740	.31	.50		D
GRP 4685	30	1829	1838	1833	N16	E54	.848	8752	3.8	9	1-				.27			2 2 2
LOCK	30	1828	1837	1832	N16	E53	.840	8752	3.7	9	-F		C	1832	.30	.50		10
HALE	30	1829	1839	1833	N16	E54	.848	8752	3.8	10	-N	2	C	1833	.21	.40		
GRP 4686	30	1839	1908	1845	N20	W54	.861	8740	26.7	29	1-				.31			1 1 1
HALE	30	1839	1908	1845	N20	W54	.861	8740	26.7	29	-N	1	C	1845	.26	.50		
GRP 4687	30	1856	1902	1857	N24	E69	.961	8754	5.0	6	1-				.18			1 1 1
HALE	30	1856	1902	1857	N24	E69	.961	8754	5.0	6	-F	2	C	1857	.15			
GRP 4688	30	1922	1931	1928	N18	W51	.829	8740	27.0	9	1-				.24			2 2 2
HALE	30	1920	1932	1929	N18	W50	.821	8740	27.1	12	-N	2	C	1929	.15	.30		
LOCK	30	1924	1930	1927	N17	W52	.835	8740	26.9	6	-F		C	1927	.30	.50		10
GRP 4689	30	1936	2014	1940	N21	W55	.872	8740	26.7	38	1-				.83			2 2 2
HALE	30	1935	2015	1940	N21	W55	.872	8740	26.7	40	-N	1	C	1940	.31	.60		
LOCK	30	1936	2012	1940	N20	W54	.861	8740	26.8	36	1F		C	1940	1.20	2.20		10
GRP 4690	30	1948	1957	1951	N15	E51	.819	8752	3.7	9	1-				.29			1 1 1
LOCK	30	1948	1957	1951	N15	E51	.819	8752	3.6	9	-F		C	1951	.30	.50		10
GRP 4691	30	2025	2050		S22	W56	.830	8739	26.7	25	1-				.45			1 1 1
MCMA	30	2025	2050D		S22	W56	.830	8739	26.7	25D	-N		C	2035	.31	.50		E
GRP 4692	30	2109	2148	2122	N23	W59	.905	8740	26.5	39	1-				.39			2 2 2
CULG	30	2109	2135	2114	N23	W60	.911	8740	26.4	26	-N	1	C	2114	.52	1.25		H
HALE	30	2112	2201	2130E	N23	W58	.898	8740	26.5	49	-N	2	P	2130	.26	.60		
GRP 4693	30	2250	2315	2255	N23	W60	.911	8740	26.5	25	1-				.65			1 1 1
CULG	30	2250	2315	2255	N23	W60	.911	8740	26.5	25	-N		C	2255	.72	1.75		L
GRP 4694	30	2336	0020	2351	N25	W59	.910	8740	26.6	44	1-				1.67			2 2 2
CULG	30	2336	0030	2347	N23	W60	.911	8740	26.5	54	1N		C	2347	1.86	3.86		
MANI	30	2346E	0010	2355	N26	W58	.906	8740	26.6	24D	1N	2		2355	1.86	3.65		
GRP 4695	31	0029	0050	0037	S25	E12	.369	8745	31.9	21	1-				.75			1 1 1
CULG	31	0029	0050	0037	S25	E12	.369	8745	31.9	21	-N	1	C	0037	.83	.84		
GRP 4696	31	0057	0109	0100	N21	W49	.824	8740	27.4	12	1-				.39			2 2 2
CRON	31	0057	0105	0100	N19	W50	.824	8740	27.3	8	-N		C		.40	.70		200
HALE	31	0101E	0113D		N22	W48	.819	8740	27.4	12D	-B	1	P	0101	.31	.50		
GRP 4697	31	0109	0117	0110	N25	W60	.916	8740	26.5	8	1-				.40			2 2 2
HALE	31	0109	0113D	0110U	N24	W61	.919	8740	26.5	4D	-B	1	P	0110	.31			
MANI	31	0111E	0117		N26	W58	.906	8740	26.7	6D	-F	2		0112	.52	1.02		
GRP 4698	31	0120	0135		N18	E56	.870	8752	4.3	15	1-				.37			1 1 1
HALE	31	0120E	0135		N18	E56	.870	8752	4.3	15D	-N	2	P	0123	.31	.60		E
GRP 4699	31	0206	0217	0207	S18	E06	.222	8745	31.5	11	1-				.18			1 1 1
HALE	31	0206	0217	0207	S18	E06	.222	8745	31.5	11	-N	2	C	0207	.15	.20		
GRP 4700	31	0221	0232	0225	S23	W57	.840	8739	26.8	11	1-				.25			1 1 1
HALE	31	0221	0232	0225	S23	W57	.840	8739	26.8	11	-N	1	C	0225	.21	.40		
GRP 4701	31	0306	0320	0312	N22	W48	.819	8740	27.5	14	1-				.12			1 1 1
HALE	31	0306	0320	0312	N22	W48	.819	8740	27.5	14	-N	1	C	0312	.10	.20		
GRP 4702	31	0318	0334	0320	N25	W64	.938	8740	26.3	16	1-				.31			1 1 1
HALE	31	0318	0334	0320	N25	W64	.938	8740	26.3	16	-N	2	C	0320	.26			
GRP 4703	31	0328	0333	0329	N25	E66	.948	8754	5.1	5	1-				.37			1 1 1
HALE	31	0328	0333	0329	N25	E66	.948	8754	5.1	5	-B	2	C	0329	.31			
GRP 4704	31	0357	0409	0358	S23	W57	.840	8739	26.9	12	1-				.18			1 1 1
HALE	31	0357	0409	0358	S23	W57	.840	8739	26.9	12	-N	2	C	0358	.15	.30		







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OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %	
					LAT.	MER. DIST.													
	1967 MAR																		
GRP 4735	31	2127	2200	2127	N19	W65	.933	8740	27.0	33	1-								
LOCK	31	2117	2200	2120	N19	W65	.933	8740	27.0	43	1N								
HUAN	31	2132E	2149D		N19	W68	.949	8740	26.8	17D	-B	1	P	2120	1.30	2.70	20		
HALE	31	2132	2210	2133	N18	W62	.913	8740	27.2	38	-N	1	C	2145	.55				
GRP 4736	31	2200	2312	2218	N18	W64	.926	8740	27.1	72	1			2133	.15				
LOCK	31	2200	2330	2220	N19	W65	.933	8740	27.0	90	1N				.94		20		
MANI	31	2212E	2254	2216	N17	W62	.911	8740	27.3	42D	1N	1	C	2220	1.00	2.30	20		
GRP 4737	31	2214	2232	2219	S24	W68	.922	8739	26.8	18	1			2216	1.03	2.10			
LOCK	31	2212	2230	2218	S24	W68	.922	8739	26.8	18	1N				.98		20		
HALE	31	2215	2233	2220	S23	W68	.922	8739	26.8	18	-N	2	C	2218	1.40	3.20	20		
GRP 4738	31	2220	2330	2233	N19	W64	.927	8740	27.1	70	1-				.41				
LOCK	31	2212	2235D	2235	N19	W65	.933	8740	27.0	23D					.62		20		
HALE	31	2228	2330	2230	N18	W62	.913	8740	27.3	62	-N	1	C	2220	1.21	2.30	20		
GRP 4739	31	2326	2345	2333	S19	W04	.225	8745	31.7	19	1-				.40				
LOCK	31	2326	2345	2333	S19	W04	.225	8745	31.7	19	-F				.40	.40	10		
GRP 4740	31	2335	0103	2353	S24	W72	.945	8739	26.6	88	1				1.96				
LOCK	31	2335	0103D	2353	S24	W72	.945	8739	26.6	88D	1N				1.90	4.80	20		
GRP 4741	31	2348	0025	0005	N21	W68	.952	8740	26.9	37	1				1.14				
MITK	31	2347	0025	0006	N22	W67	.949	8740	27.0	38	1N				1.13		20		
HALE	31	2348	0004D	0004U	N20	W68	.951	8740	26.9	16D	2B	2	P	0006	1.24				
GRP 4742	31	2359	0050	0017	S23	W69	.928	8739	26.8	51	1				1.33				
LOCK	31	2359	0050	0017	S23	W69	.928	8739	26.8	51	1N				1.30	2.70	20		
GRP 4743	31	2359	0100	0020	S20	W04	.241	8745	31.7	61	1-				1.28				
LOCK	31	2359	0100	0020	S20	W04	.241	8745	31.7	61	-F				1.20	1.20	10		

The March 1967 Flares listed here were inadvertently omitted from the listing in IER-FB-277, September 1967.