



SOLAR FLARES  
JUNE 1967

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS		
	DATE 1967 JUNE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Ha	MAX. INT.
GRP 6232	01	1325	1350	1350	N25	E32	.646	8831	4.0	25	1N						1 1 1	
SALO	01	1325E	1350D		N25	E32	.646	8831	4.0	25D	1N	S	1350	.50	.60	1.60		
GRP 6233	01	1333	1358	1342	N22	W31	.613	8824	30.2	25	-N			.46			1 1 1	
CAPE	01	1333	1358D	1342	N22	W31	.613	8824	30.2	25D	-N	C	1342	.46	.60			
GRP 6234	01	1406	1411	1408	N28	E34	.687	8831	4.1	5	-N			.46			2 2 2	
CANA	01	1405	1410	1407	N27	E35	.689	8831	4.2	5	-N	C		.52	.70		200	
SACP	01	1406	1411	1408	N29	E32	.677	8831	4.0	5	-N	C		.40	.46			
GRP 6235	01	1451	1506	1457	N21	W26	.551	8824	30.7	15	-N			1.34			1 1 1	
CANA	01	1451	1506D	1457	N21	W26	.551	8824	30.7	15D	-N	C		1.34	1.60		200	
GRP 6236	01	1451	1512	1458	N23	E26	.569	8831	3.6	21	1N			2.27			5 5 5	
MCMA	01	1450	1523	1457	N25	E28	.607	8831	3.7	33	1N	C	1457	1.65	2.10		F	
MCMA	01	1450	1523	1503	N25	E28	.607	8831	3.7	33	1N							
MEUD	01	1452	1505	1456	N24	E28	.598	8831	3.7	13	1N	C	1456	2.06	2.40			
SACP	01	1452	1507	1457	N23	E26	.569	8831	3.6	15	1N	C		2.11	2.25			
HUAN	01	1457E	1458D		N23	E26	.569	8831	3.6	1D	-N	1	P	1457	1.51	1.60		E
CAPS	01	1501E	1512		N22	E24	.539	8831	3.4	11D	1F	2		1504	4.00	4.80		157
GRP 6237	01	1552	1631	1554	N21	W33	.628	8824	30.2	39	1B			2.79			6 5 5	
MCMA	01	1551	1629	1554	N22	W32	.624	8824	30.3	38	1B	C	1554	1.65	2.10		E	
CAPS	01	1552	1611D		N23	W30	.610	8824	30.4	19D	2N	3		1555	4.50	5.60		227
SACP	01	1552	1630E	1554	N20	W34	.632	8824	30.1	38D	1N	C		2.73	3.04			
MONT	01	1552	1630	1556	N20	W34	.632	8824	30.1	38	2B	C	1556	3.61			V	
HUAN	01	1553E	1554D		N20	W35	.643	8824	30.0	1D	-B	1	P	1553	1.44	1.62		
CATA	01	1612	1636	1615	N23	W33	.641	8824	30.2	24	1N			1615	2.74	3.60		174
GRP 6238	01	1613	1643	1617	N25	E26	.587	8831	3.6	30	-N			.77			3 3 3	
CATA	01	1612	1636	1615	N25	E25	.578	8831	3.5	24	-B			1615	.98	1.20		218
MCMA	01	1614	1652	1616	N25	E26	.587	8831	3.6	38	-N	C	1616	1.03	1.30		E	
HUAN	01	1620E	1642		N26	E28	.615	8831	3.8	22D	-F	1	P	1621	.31	.34		E
GRP 6239	01	1919	1933	1923	N24	E23	.549	8831	3.5	14	-N			1.32			3 3 2	
MCMA	01	1913	1934	1922	N24	E26	.578	8831	3.8	21	-N	C	1922	.83	1.00		E	
SACP	01	1920	1936	1924	N24	E22	.539	8831	3.5	16	-F	C		1.80	1.90			
HALE	01	1923	1930	1923	N23	E22	.529	8831	3.5	7	-N	2	C	1923	.31	.40		
GRP 6240	01	2009	2027	2013	N24	E24	.558	8831	3.6	18	-N			.93			4 4 4	
SACP	01	2008	2023	2013	N25	E22	.550	8831	3.5	15	-N	C		1.31	1.38			
HUAN	01	2009	2023D		N24	E23	.549	8831	3.6	14D	-N	1	C	2013	.77	.82		E
MCMA	01	2010	2030D	2012	N24	E26	.578	8831	3.8	20D	-B	C		.72	.90		E	
LOCK	01	2010	2030	2015	N24	E23	.549	8831	3.6	20	-F	C	2015	.90	1.10		10	
GRP 6241	01	2128	2136	2130	N09	W72	.953	8821	27.5	8	-F			.20			1 1 1	
HOUS	01	2128	2136	2130	N09	W72	.953	8821	27.5	8	-F	C		.20	.50		100	
GRP 6242	01	2221	2255	2228	N09	W72	.953	8821	27.5	34	-N			.61			2 2 2	
MCMA	01	2220	2243D	2224	N10	W72	.953	8821	27.5	23D	-N	C	2224	.41	1.50		E	
SACP	01	2221	2255	2232	N08	W72	.953	8821	27.5	34	-N	C		.80	1.61			
GRP 6243	01	2324	2344	2332	N07	W71	.947	8821	27.7	20	-N			.74			3 3 3	
CULG	01	2321	2336	2332	N06	W72	.952	8821	27.6	15	-N	C		.41				
LOCK	01	2323	2350	2331	N08	W70	.942	8821	27.7	27	1F	C	2331	1.20	3.00		10	
SACP	01	2329	2345U	2332	N06	W71	.947	8821	27.7	16U	-N	C		.61	1.19			
GRP 6244	01	0022	0045	0030	N25	E23	.559	8831	3.7	23	-F			1.39				
CULG	01	2353	0150D	0029	N26	E25	.587	8831	3.9	117D	-N	P		1.65	1.90		FK	
LOCK	02	0020	0050	0030	N24	E21	.529	8831	3.6	30	-F	C	0030	.80	1.00		10	
SACP	02	0024	0040	0030	N25	E22	.549	8831	3.7	16	-F	C		1.71	1.81			
GRP 6245	02	0057	0132	0105	N22	W39	.697	8824	30.1	35	1N			1.73			6 6 6	
CULG	02	0028	0150D	0103	N22	W38	.687	8824	30.2	82D	-N	P		1.13	1.48		F	
LOCK	02	0055	0200D	0110	N24	W38	.698	8824	30.2	65D	1N	C	0110	1.60	2.20		20	
MITK	02	0057	0117D	0101	N20	W40	.698	8824	30.0	20D	1N	C	0101	2.58	3.60		E	
SACP	02	0100	0142	0106	N20	W38	.676	8824	30.2	42	1N	C		2.42	2.78			
IKOM	02	0102E	0106		N20	W40	.698	8824	30.0	4D	1N	V	0102	1.55	2.20		120	
CRON	02	0104U	0115D	0107U	N23	W37	.682	8824	30.3	11D	-N	C		1.10	1.10		200	
GRP 6246	02	0346	0347	0347	N27	E24	.587	8831	4.0	1	-N			.62			1 1 1	
MANI	02	0346E	0347D		N27	E24	.587	8831	4.0	1D	-N	1		.62	.77			
GRP 6247	02	0716	0726	0720	N22	E20	.497	8831	3.8	10	-F			.41			1 1 1	
CANA	02	0716	0726	0720	N22	E20	.497	8831	3.8	10	-F	C		.41	.50		100	
GRP 6248	02	0747	0833	0800	N22	W43	.738	8824	30.1	46	1N			1.24			3 3 3	
CATA	02	0743	0835	0800	N21	W43	.734	8824	30.1	52	-N			0800	1.35	2.00		174
MONT	02	0750	0820		N20	W43	.730	8824	30.1	30	1N	C	0800	1.55				
SALO	02	0810E	0845D		N24	W42	.738	8824	30.2	35D	1F	V	0835	.83	1.20	1.40		
GRP 6249	02	0815	0825	0825	N23	E16	.473	8831	3.5	10	-F			.33			1 1 1	
SALO	02	0815E	0825D		N23	E16	.473	8831	3.5	10D	-F	V	0825	.33	.30	1.30		
GRP 6250	02	0828	0850	0833	N11	W78	.979	8821	27.5	22	1N			1.31				
SALO	02	0815E	0842D	0820	N10	W74	.963	8821	27.8	27D	1B	V	0842	.83	2.80	1.50		
MONT	02	0825	0900		N14	W77	.976	8821	27.6	35	1N	C	0835	1.55				
CANA	02	0826	0839	0830	N12	W79	.983	8821	27.4	13	1N	C		.72	2.10		200	
CAPE	02	0829	0856	0833	N11	W79	.983	8821	27.4	27	2N	C	0833	2.03			F	
CATA	02	0830	0855	0830	N09	W77	.975	8821	27.6	25	1N			0830	1.57			162
CAPS	02	0830	0856D		N09	W74	.963	8821	27.8	26D	1N	3		0832	2.00			185
ARCE	02	0836E	0845		N10	W85	.996	8821	27.0	9D	-N	C	0836	.45	1.90		E	



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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 H $\alpha$	MAX. INT. %	
					LAT.	MER. DIST.												
GRP 6268	02	1556	1620	1601	N21	W47	.774	8824	30.1	24	-N							3 3 3
LOCK	02	1554	1642	1600	N22	W46	.768	8824	30.2	48	-N	C	1600	.67	1.10	1.80		20
LOCK	02	1554	1642	1623	N22	W46	.768	8824	30.2	48	-N	C						
MCMA	02	1556	1608	1601	N20	W47	.771	8824	30.1	12	-N	C	1601	.41	.70			E
HUAN	02	1557	1609		N22	W48	.787	8824	30.1	12	-F	1 C	1602	.50	.62			E
GRP 6269	02	1629	1742	1641	N24	E22	.538	8831	4.3	73	-N			.53				3 3 1
LOCA	02	1624	1650	1637	N23	E23	.537	8831	4.4	26	-B	V	1637	.53	.60			
MCMA	02	1631	1758D	1647	N25	E23	.558	8831	4.4	87D	-B	C						
LOCK	02	1633	1725	1638	N23	E19	.499	8831	4.1	52	-F	C						
GRP 6270	02	1633	1740	1710	N23	E17	.482	8831	4.0	67	1N			2.00				5 5 4
MCMA	02	1631	1758D	1713	N25	E23	.558	8831	4.4	87D	1B		1713	2.06	2.40			FK
LOCK	02	1633	1725	1710	N23	E19	.499	8831	4.1	52	-F	C	1710	1.50	1.80			10
HUAN	02	1634	1745	1709	N24	E18	.502	8831	4.0	71	1N	2 C	1709	2.99	3.10			E
HALE	02	1635	1732	1709	N23	E18	.490	8831	4.0	57	-N	3 C	1709	1.19	1.40			F
SACP	02	1710E	1710D	1710U	N19	E06	.349	8831	3.2		2N	V						
HALE	02	1713	1721	1714	N23	E05	.408	8831	3.1	8	-N	3 C	1714	.26	.30			
GRP 6271	02	1810	1823	1813	N25	W47	.789	8824	30.2	13	-N			.45				2 2 2
HOUS	02	1809	1819	1812	N24	W46	.776	8824	30.3	10	-N	C		.30	.50			200
LOCK	02	1810	1827	1814	N25	W47	.789	8824	30.2	17	-F	C	1814	.60	1.00			10
GRP 6272	02	1847	1902	1851	S18	W19	.431	8829	1.4	15	-F			.81				2 2 2
LOCK	02	1845	1905	1852	S17	W20	.433	8829	1.3	20	-F	C	1852	.90	1.00			10
MCMA	02	1848	1859	1850	S18	W18	.420	8829	1.4	11	-F	C	1850	.72	.80			E
GRP 6273	02	1938	1946	1940	N26	E17	.518	8831	4.1	8	-N			.39				2 2 2
HALE	02	1936	1947	1937	N26	E13	.491	8831	3.8	11	-N	1 C	1937	.26	.30			
MCMA	02	1940	1945	1942	N25	E20	.531	8831	4.3	5	-F	C	1942	.52	.60			E
GRP 6274	02	2021	2037	2024	S18	W20	.443	8829	1.3	16	-F			.76				2 2 2
LOCK	02	2020	2040	2024	S17	W20	.433	8829	1.3	20	-F	C	2024	.90	1.00			10
MCMA	02	2021	2034	2024	S18	W20	.443	8829	1.3	13	-F	C	2024	.62	.70			E
GRP 6275	02	2057	2112	2101	N22	W50	.806	8824	30.1	15	-N			.89				4 4 4
HOUS	02	2057	2111	2101	N23	W49	.800	8824	30.2	14	1N	C		1.70	2.80			200
LOCK	02	2057	2118	2103	N21	W50	.803	8824	30.1	21	-N	C	2103	1.00	1.70			20
HUAN	02	2058	2108	2101	N22	W50	.806	8824	30.1	10	-N	2 C	2101	.55	.72			E
MCMA	02	2059E	2059D		N20	W50	.800	8824	30.1		-N	P	2059	.31	.60			E
GRP 6276	02	2123	2132	2126	N23	E14	.457	8831	3.9	9	-N			.50				1 1 1
LOCK	02	2123	2132	2126	N23	E14	.457	8831	3.9	9	-N	C	2126	.50	.60			10
GRP 6277	02	2143	2152	2146	N23	E14	.457	8831	4.0	9	-F			.50				1 1 1
LOCK	02	2143	2152	2146	N23	E14	.457	8831	4.0	9	-F	C	2146	.50	.60			10
GRP 6278	02	2250	2258	2253	N25	W01	.432	8831	2.9	8	-F			.20				1 1 1
LOCK	02	2250	2258	2253	N25	W01	.432	8831	2.9	8	-F	C	2253	.20	.20			10
GRP 6279	02	2302	2345	2309	N20	W53	.827	8824	30.0	43	1B			1.22				3 2 2
HOUS	02	2302	2338	2311U	N20	W53	.827	8824	30.0	36	1N	C		1.20	2.10			200
CULG	02	2302	2358	2306	N20	W53	.827	8824	30.0	56	1B	C		1.24	2.10			
LOCK	02	2326E	2340	2326U	N20	W54	.836	8824	29.9	14D	1N	C	2326	1.70	2.90			20
GRP 6280	02	2324	2336	2327	N25	E02	.433	8831	3.1	12	-F			.46				2 2 2
CULG	02	2324	2339	2328	N25	E02	.433	8831	3.1	15	-F	C		.52	.55			
LOCK	02	2326E	2332	2326U	N24	E02	.417	8831	3.1	60	-F	C	2326	.40	.40			10
GRP 6281	03	0002	0030	0007	N25	E13	.475	8831	4.0	28	-F			.41				1 1 1
CULG	03	0002	0030D	0007	N25	E13	.475	8831	4.0	28D	-F	P		.41	.44			
GRP 6282	03	0037	0048	0040	N23	E03	.401	8831	3.3	11	-F			.40				1 1 1
LOCK	03	0037	0048	0040	N23	E03	.401	8831	3.3	11	-F	C	0040	.40	.40			10
GRP 6283	03	0118	0151	0123	S17	W22	.458	8829	1.4	33	-N			.82				3 3 3
LOCK	03	0117	0140	0121	S15	W23	.454	8829	1.3	23	-F	C	0121	.80	.90			10
CULG	03	0119	0152	0124	S18	W22	.467	8829	1.4	33	-N	C		1.03	1.15			
MITK	03	0120E	0200D	0124	S18	W22	.467	8829	1.4	40D	-N	C	0124	.62	.70			E
GRP 6284	03	0243	0342	0302	N24	E14	.469	8831	4.2	59	1N			4.80				5 5 5
CULG	03	0226	0343D	0300	N23	E13	.448	8831	4.1	77D	1B	P		2.68	3.00			F
IKOM	03	0243E	0350	0305	N25	E15	.489	8831	4.2	67D	1N	V	0305	2.89	3.30	1.56	120	E
KODA	03	0252E	0317	0304	N23	E13	.448	8831	4.1	25D	1N	V	0302	2.90	3.30	2.00		IK
CRON	03	0252	0347	0257	N24	E15	.476	8831	4.2	55	-N	C		1.60	1.80			200
TACH	03	0300E	0351D		N24	E12	.455	8831	4.0	51D	3F	V	0304	13.92	15.40	2.50	69	BE
KODA	03	0346E	0352	0351	N23	E11	.435	8831	4.0	6D	1N	V	0347	2.58	2.90	1.72		I
GRP 6285	03	0316	0350	0316	S19	E85	.996	8838	9.5	34	1N			.93				1 1 1
TACH	03	0316E	0350D		S19	E85	.996	8838	9.5	34D	1N	V	0316	.93		3.60	60	DG
GRP 6286	03	0321	0336	0319	N23	E11	.435	8831	4.0	15	1N			2.44				3 3 3
MANI	03	0243E	0336		N23	E10	.429	8831	3.9	53D	1N	1	0317	3.09	3.36			
HALE	03	0316E	0425		N24	E11	.449	8831	4.0	69D	-N	2 P	0316	1.65	1.80			F
KODA	03	0325	0336	0325	N23	E11	.435	8831	4.0	11	1N	V	0325	2.58	2.90	1.68		I
GRP 6287	03	0516	0540	0525	N25	E06	.440	8831	3.7	24	-N			.98				2 2 2
CULG	03	0508E	0526D	0524	N24	E09	.438	8831	3.9	18D	-N	P		1.34	1.43			F
MANI	03	0523	0540		N25	E03	.432	8831	3.4	17	-F	1	0525	.62	.68			
GRP 6288	03	0600	0620		S18	E85	.996	8838	9.6	20	-N							1 1 0
CAPS	03	0600E	0620D		S18	E85	.996	8838	9.6	20D	-N	2						

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	DATE 1967 JUNE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
GRP 6289	03	0642	0711	0641	N22	W55	.849	8824	30.2	29	-N			.93				3 3 2
CRON	03	0639	0652	0641	N27	W54	.854	8824	30.2	13	-N			.30	.60		200	D
CAPS	03	0641	0645D		N20	W58	.869	8824	29.9	4D	-N	1	C					
MONT	03	0645	0730		N20	W54	.835	8824	30.2	45	1N		C	0700	1.55			
GRP 6290	03	0751	0801	0754	N25	E01	.430	8831	3.4	10	-N			.61				2 2 2
CAPE	03	0751	0755	0752	N24	W01	.414	8831	3.3	4	-N		C	0752	.78	.90		T
BUCA	03	0755E	0807D		N25	E02	.431	8831	3.5	12D	-F		P	0756	.44	.50		
GRP 6291	03	0753	0805	0754	N22	W60	.888	8824	29.8	12	-N		C	0754	.32	.70		1 1 1
CAPE	03	0753	0805	0754	N22	W60	.888	8824	29.8	12	-N		C	0754	.32	.70		V
GRP 6292	03	0758	0833	0806	S17	W26	.507	8829	1.4	35	1N			3.33				13 13 11
BUCA	03	0755E	0844D		S17	W25	.495	8829	1.5	49D	2N		P	0804	5.54	6.30		F
CAPE	03	0755	0855	0810	S16	W25	.487	8829	1.5	60	2N		C	0810	5.63	6.50		
MONT	03	0757	0822D	0810	S20	W23	.497	8829	1.6	25D	2N		C	0810	3.61			
ZURI	03	0758	0828	0807	S18	W29	.551	8829	1.2	30	-8		P	0807	1.68	2.00		
CRON	03	0758	0833	0806	S17	W26	.507	8829	1.4	35	-N		C		1.40	1.60	200	E
ONDR	03	0758	0837		S16	W29	.538	8829	1.2	39	1B		V	0801			2.60	C
CAPS	03	0759	0823		S16	W26	.500	8829	1.4	24	1B	3		0802	3.50	4.00		U
CATA	03	0800	0818	0800	S18	W27	.527	8829	1.3	18	1B			0800	3.60	4.20	228	
MEUD	03	0800	0823		S17	W26	.507	8829	1.4	23	1N		C	0805	2.27	2.50	204	
ARCE	03	0800E	0830		S16	W25	.487	8829	1.5	30D	-N		C	0815	1.53	1.70		F
KIEV	03	0800E	0840D	0804	S17	W26	.507	8829	1.4	40D	2N		C	0804	6.19	7.00	70	E
LOCA	03	0805E	0835		S18	W25	.503	8829	1.5	30D	-B		S	0805	1.68	2.00		
KHAR	03	0810E	0835D		S18	W25	.503	8829	1.5	25D	2F		V					
GRP 6293	03	0839	0850	0843	N24	W02	.415	8831	3.2	11	-N			.52				4 4 4
BUCA	03	0834E	0903D		N24	W02	.415	8831	3.2	29D	-N		C	0842	.56	.60		
CAPE	03	0838	0846	0842	N25	W02	.431	8831	3.2	8	-N		C	0842	1.01	1.10		T
CRON	03	0842	0847	0844	N23	W02	.399	8831	3.2	5	-N		C		.20	.21	200	L
MEUD	03	0843	0845	0843	N23	W03	.401	8831	3.1	2	-F		C	0843	.31	.31		D
CAPE	03	0848	0856	0851	N24	W02	.415	8831	3.2	8	-N		C	0851	.46	.50		T
GRP 6294	03	0847	0920	0857	N26	W56	.867	8824	30.2	33	1F			2.39				1 1 1
CAPE	03	0847	0920	0857	N26	W56	.867	8824	30.2	33	1F		C	0857	2.39	4.60		
GRP 6295	03	0853	0917	0903	N27	W55	.862	8824	30.2	24	-N			.09				1 1 1
CAPE	03	0853	0917	0903	N27	W55	.862	8824	30.2	24	-N		C	0903	.09	.20		T
GRP 6296	03	0920	0932	0927	N24	W03	.417	8831	3.2	12	-N			.51				3 3 3
CAPE	03	0852	0932	0902	N27	E01	.461	8831	3.4	40	-N		C	0902	.78	.90		T
CAPE	03	0908	0932	0910	N24	W02	.415	8831	3.2	24	-N		C	0910	.78	.90		KT
CAPE	03	0908	0932	0927	N24	W03	.417	8831	3.2	24	-N			0927	.55	.60		
BUCA	03	0926	0932	0927	N24	W02	.415	8831	3.2	6	-N		C	0927	.56	.60		
MEUD	03	0927	0931	0928	N23	W04	.403	8831	3.1	4	-N		C	0928	.41	.42		D
GRP 6297	03	0926	0941	0931	N26	W55	.859	8824	30.3	15	-N			.22				3 3 3
CAPE	03	0924	0947	0930	N27	W56	.869	8824	30.2	23	-N		C	0930	.14	.30		T
ARCE	03	0925	0940D		N26	W56	.867	8824	30.2	15D	-N		C	0930	.26	.50		D
MEUD	03	0930	0936	0932	N26	W52	.835	8824	30.5	6	-F		C	0932	.26	.50		D
GRP 6298	03	0955	1001	0957	N24	E01	.414	8831	3.5	6	-N			1.24				1 1 1
CAPE	03	0955	1001	0957	N24	E01	.414	8831	3.5	6	-N		C	0957	1.24	1.40		T
GRP 6299	03	1038	1041	1039	N23	W04	.403	8831	3.1	3	-F			.26				1 1 1
MEUD	03	1038	1041	1039	N23	W04	.403	8831	3.1	3	-F		C	1039	.26	.30		D
GRP 6300	03	1054	1110	1103	N26	W55	.859	8824	30.3	16	1N		V	1105	1.06		1.40	4 4 3
SALO	03	1050E	1110D		N25	W56	.864	8824	30.3	20D	1N		V	1105	.67	1.30	1.40	
MEUD	03	1056	1110		N26	W53	.843	8824	30.5	14	-N		C	1102	.46	.90		D
CAPS	03	1056	1107		N24	W54	.846	8824	30.4	11	-F	3						DL
KIEV	03	1100E	1113D	1102	N27	W57	.876	8824	30.2	13D	1N		C	1102	2.06			65
GRP 6301	03	1056	1058	1056	N23	W04	.403	8831	3.2	2	-F			.26				1 1 1
MEUD	03	1056	1058	1056	N23	W04	.403	8831	3.2	2	-F		C	1056	.26	.30		D
GRP 6302	03	1114	1127	1118	N24	W04	.419	8831	3.2	13	1B			1.24				4 4 4
SALO	03	1110E	1140D		N23	W03	.401	8831	3.2	30D	-B		V	1135	.72	.90	1.40	
CAPS	03	1113	1121		N22	W03	.385	8831	3.2	8	1B	3		1117	2.10	2.20	256	A
KIEV	03	1117E	1122D	1118	N25	W03	.432	8831	3.2	5D	1N		C	1118	1.55	2.00	70	DI
MEUD	03	1117	1123	1118	N24	W05	.421	8831	3.1	6	-N		C	1118	.57	.60		E
GRP 6303	03	1149	1210	1207	N24	W06	.425	8831	3.0	21	-N			.41				2 2 2
SALO	03	1135E	1205D		N24	W06	.425	8831	3.0	30D	-F		V	1210	.50	.70	1.40	
CAPE	03	1158	1200	1158	N24	W03	.417	8831	3.3	2	-N		C	1158	.28	.30		T
CAPE	03	1202	1210	1203	N24	W05	.421	8831	3.1	8	-N		C	1203	.32	.40		T
GRP 6304	03	1258	1312	1303	N24	W06	.425	8831	3.1	14	-N			.60				2 2 2
CAPE	03	1254	1315	1303	N24	W05	.421	8831	3.2	21	-N		C	1303	.78	.90		T
HUAN	03	1302	1308	1303	N24	W06	.425	8831	3.1	6	-F	2	C	1303	.41	.42		D
GRP 6305	03	1324	1332	1326	N25	W06	.440	8831	3.1	8	-N			.28				1 1 1
CAPE	03	1324	1332	1326	N25	W06	.440	8831	3.1	8	-N		C	1326	.28	.30		T
GRP 6306	03	1338	1400	1350	N24	W06	.425	8831	3.1	22	-N			.69				1 1 1
CAPE	03	1338	1400D	1350	N24	W06	.425	8831	3.1	22D	-F		C	1350	.69	.80		T
GRP 6307	03	1515	1527	1518	N24	E08	.433	8831	4.2	12	-N			.56				2 2 2
LOCK	03	1514	1527	1517	N22	E06	.394	8831	4.1	13	-F		C	1517	.80	.90	10	
HUAN	03	1515	1527	1518	N25	E09	.452	8831	4.3	12	-F	2	C	1518	.31	.31		D

# SOLAR FLARES

JUNE 1967

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 <sub>c</sub>	MAX. INT. %		
					LAT.	MER. DIST.													
	1967 JUNE																		
GRP 6308	03	1527	1536	1529	N22	W02	.383	8831	3.5	9	-N			.93				6 6 6	
LOCA	03	1526	1535	1528	N21	E00	.366	8831	3.6	9	-N	V	1528	.85	.90				
HOUS	03	1527	1534	1529	N22	W02	.383	8831	3.5	7	-N	C		.70	.80		200	EI	
LOCK	03	1527	1540	1530	N22	W01	.382	8831	3.6	13	-F	C	1530	.80	.90		10		
HUAN	03	1528	1538	1530	N23	W03	.401	8831	3.4	10	-N	2	C	1530	1.01	1.00			E
MCMA	03	1528	1532	1529	N23	W03	.401	8831	3.4	4	-N	C	1529	.62	.70			J	
CAPS	03	1528	1535		N22	W05	.390	8831	3.3	7	-N	3		1.60	1.70		176		
GRP 6309	03	1529	1540	1533	N28	W59	.892	8824	30.2	11	-N			.35				2 2 2	
HOUS	03	1529	1539	1533	N27	W60	.897	8824	30.1	10	-N	C		.30	.60		200		
LOCK	03	1529	1540	1532	N28	W58	.886	8824	30.3	11	-F	C	1532	.40	.80		10		
GRP 6310	03	1538	1547	1539	N25	W06	.440	8831	3.2	9	-N			.40				4 4 3	
HOUS	03	1537	1545	1539	N24	W06	.425	8831	3.2	8	-N	C		.50	.60		200	EI	
LOCK	03	1537	1547	1540	N26	W06	.455	8831	3.2	10	-F	C	1540	.50	.60		10		
HUAN	03	1538	1555	1538	N25	W05	.437	8831	3.3	17	-N	2	C	1538	.21	.21			D
CAPS	03	1538	1542		N23	W05	.406	8831	3.3	4	-N	3						D	
GRP 6311	03	1633	1639	1634	N26	E03	.448	8831	3.9	6	-F			.25				1 1 1	
HUAN	03	1633	1639	1634	N26	E03	.448	8831	3.9	6	-F	2	C	1634	.25	.25			D
GRP 6312	03	1705	1711	1707	N23	W04	.403	8831	3.4	6	-F			.21				1 1 1	
HUAN	03	1705	1711	1707	N23	W04	.403	8831	3.4	6	-F	2	C	1707	.21	.21			D
GRP 6313	03	1737	1749	1742	N27	W59	.897	8824	30.3	12	-F			.45				3 3 3	
HOUS	03	1734	1749	1740	N27	W60	.897	8824	30.2	15	-N	C		.30	.60		200		
HUAN	03	1738	1747	1743	N26	W60	.895	8824	30.2	9	-F	2	C	1743	.25	.39			D
LOCK	03	1739	1752	1742	N28	W58	.886	8824	30.4	13	-F	C	1742	.80	1.60		10		
GRP 6314	03	1741	1744	1742	N26	E02	.447	8831	3.9	3	-F			.50				1 1 1	
HUAN	03	1741	1744	1742	N26	E02	.447	8831	3.9	3	-F	2	C	1742	.50	.50			D
GRP 6315	03	1809	1828	1812	N22	E07	.398	8831	4.3	19	-F			.39				2 2 2	
HUAN	03	1809	1816	1812	N26	E02	.447	8831	3.9	7	-F	2	C	1812	.37	.38			
LOCK	03	1810	1840	1823	N18	E11	.365	8831	4.6	30	-F	C	1823	.40	.40		10		
GRP 6316	03	1839	1904	1843	N23	W03	.401	8831	3.6	25	-B			1.30				2 2 2	
LOCK	03	1838	1900	1844	N23	W02	.399	8831	3.6	22	-N	C	1844	1.20	1.30		20		
HUAN	03	1839	1907	1842	N23	W04	.403	8831	3.5	28	-B	2	C	1842	1.39	1.39			
GRP 6317	03	1912	1943	1918	N26	W06	.455	8831	3.4	31	-N			.24				4 4 4	
LOCK	03	1910	1940	1919	N26	W05	.452	8831	3.4	30	-F	C	1919	.30	.30		10		
HALE	03	1910	2000	1913	N25	W05	.437	8831	3.4	50	-N	2	C	1913	.15	.20			
HUAN	03	1913	1942	1920	N26	W06	.455	8831	3.4	29	-F	2	C	1920	.25	.25			D
MCMA	03	1915	1929	1918	N26	W06	.455	8831	3.4	14	-N	C	1918	.26	.30			D	
HALE	03	1954	2000	1955	N23	W09	.423	8831	3.2	6	-F	2	C	1955	.26	.30			
GRP 6318	03	1929	1939	1931	N23	W04	.403	8831	3.5	10	-N			.43				4 4 4	
LOCK	03	1928	1942	1932	N23	W02	.399	8831	3.7	14	-F	C	1932	.60	.70		10		
HUAN	03	1929	1936	1930	N23	W04	.403	8831	3.5	7	-N	2	C	1930	.45	.45			E
MCMA	03	1929	1937	1930	N23	W05	.406	8831	3.4	8	-N	C	1930	.41	.42			E	
HALE	03	1929	1940	1930	N23	W04	.403	8831	3.5	11	-N	2	C	1930	.26	.30			
GRP 6319	03	2057	2108	2100	N25	W70	.952	8824	29.6	11	-F			.30				1 1 1	
LOCK	03	2057	2108	2100	N25	W70	.952	8824	29.6	11	-F	C	2100	.30	.80		10		
GRP 6320	03	2101	2116	2106	N15	E56	.843	8837	8.1	15	-F			.41				1 1 1	
MCMA	03	2101	2116	2106	N15	E56	.843	8837	8.1	15	-F	C	2106	.41	.70			E	
GRP 6321	03	2126	2134	2127	N24	W10	.443	8831	3.1	8	-F			.44				3 3 3	
HALE	03	2125	2133	2126	N23	W11	.435	8831	3.1	8	-F	1	C	2126	.31	.32			
HUAN	03	2126	2134	2127	N24	W10	.443	8831	3.1	8	-F	2	C	2127	.50	.50			
MCMA	03	2127	2131	2128	N25	W10	.458	8831	3.1	40	-N	C	2128	.52	.52			E	
GRP 6322	03	2127	2139	2130	N23	W68	.940	8824	29.8	12	-F			.48				2 2 2	
LOCK	03	2125	2140	2130	N25	W70	.952	8824	29.6	15	-F	C	2130	.60	1.50		10		
MCMA	03	2129	2137	2130	N21	W66	.926	8824	29.9	8	-F	C	2130	.36	.80			E	
GRP 6323	03	2138	2209	2148	N26	W06	.455	8831	3.5	31	-N			.69				4 4 4	
LOCK	03	2136	2215	2150	N26	W06	.455	8831	3.5	39	-F	C	2150	.80	.90		10		
HUAN	03	2139	2219	2150	N26	W05	.452	8831	3.5	40	-N	2	C	2150	.62	.63			
HOUS	03	2139U	2152	2144	N27	W05	.467	8831	3.5	13U	-N	C		.50	.60		200	IJ	
MCMA	03	2139	2208	2149	N26	W07	.459	8831	3.4	29	-B	C	2149	.83	.90			E	
HUAN	03	2139	2145	2140	N24	W09	.438	8831	3.2	6	-F	2	C	2140	.45	.46			
GRP 6324	03	2200	2212	2203	N24	W09	.438	8831	3.2	12	-F			1.06				3 3 3	
HOUS	03	2159	2203	2201	N25	W08	.448	8831	3.3	4	-N	C		.80	.90		200	EI	
HUAN	03	2201	2210	2202	N24	W09	.438	8831	3.2	9	-F	2	C	2202	.55	.55			
SACP	03	2205E	2223	2206	N23	W10	.429	8831	3.2	18D	-F	C		1.82	1.83				
GRP 6325	03	2232	2247	2238	N25	W70	.952	8824	29.7	15	-N			.50				1 1 1	
LOCK	03	2232	2247	2238	N25	W70	.952	8824	29.7	15	-N	C	2238	.50	1.30		20		
GRP 6326	03	2305	2325	2310	N25	W70	.952	8824	29.7	20	-F			.40				1 1 1	
LOCK	03	2305	2325	2310	N25	W70	.952	8824	29.7	20	-F	C	2310	.40	1.00		10		
GRP 6327	03	2323	2334	2328	N25	W11	.463	8831	3.1	11	-N			.91				2 2 2	
LOCK	03	2322	2333	2327	N26	W10	.472	8831	3.2	11	-F	C	2327	.70	.80		10		
SACP	03	2324	2334	2328	N23	W12	.441	8831	3.1	10	-N	C		1.11	1.12				
GRP 6328	03	2325	2350	2335	S12	W30	.529	8829	1.7	25	-F			.90				1 1 1	
LOCK	03	2325	2350	2335	S12	W30	.529	8829	1.7	25	-F	C	2335	.90	1.10		10		







SOLAR FLARES  
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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION	OMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %	
GRP 6365	1967 JUNE 05	1140	1225	1204	S17	W57	.853	8829	1.2	45	-N							2 2 2
HUAN	05	1140E	1225		S16	W56	.843	8829	1.3	45D	-N	1	C	1203	.39	.35		D
MCMA	05	1204E	1224		S17	W58	.861	8829	1.2	20D	-N		C	1204	.52	1.00		BE
GRP 6366	05	1343	1427	1403	S17	W56	.844	8829	1.4	44	1N		C		2.00			7 7 7
SACP	05	1341	1428	1405	S19	W55	.839	8829	1.4	47	-N		C		1.42	2.00		
HUAN	05	1342	1422		S17	W57	.853	8829	1.3	40	-N	2	C	1402	.77	1.08		E
MCMA	05	1342	1425	1406	S17	W58	.861	8829	1.2	43	-N		C	1406	.83	1.60		E
LOCA	05	1342E	1430	1344	S18	W50	.791	8829	1.8	48D	1N		V	1344	1.89	3.20		E
CAPS	05	1345E	1420D		S15	W60	.875	8829	1.1	35D	1F	2	V	1403	3.00		157	C
WEND	05	1346E	1426		S18	W59	.871	8829	1.1	40D	1N		V		4.13			
CATA	05	1400	1430	1400	S18	W56	.846	8829	1.4	30	1N		V	1400	1.94	3.60	182	
GRP 6367	05	1355	1424	1402	S17	E57	.853	8838	9.9	29	1N		C		1.34			1 1 1
CANA	05	1355U	1424	1402	S17	E57	.853	8838	9.9	29U	1N		C		1.34	2.30	200	E
GRP 6368	05	1803	1813	1806	S18	W60	.879	8829	1.3	10	-N		C		.29			2 2 2
SACP	05	1800	1814	1805	S18	W60	.879	8829	1.3	14	-N		C		.31	.47		
MCMA	05	1805	1811	1806	S17	W59	.870	8829	1.3	6	-F		C	1806	.26	.50		D
GRP 6369	05	1839	1853	1843	S18	W59	.871	8829	1.4	14	1N		C		.58			4 4 3
SACP	05	1838	1853	1844	S18	W57	.855	8829	1.5	15	-N		C		.71	1.04		
LOCK	05	1839	2030	1844	S16	W58	.860	8829	1.4	111	2N		C	1938	6.50	12.40	20	K
MCMA	05	1840	2036D	1843	S20	W60	.882	8829	1.3	116D	2B		C	1843	.52	1.10		E
HUAN	05	1842E	1855		S17	W59	.870	8829	1.4	13D	-N	2	C	1842	.50	.68		E
GRP 6370	05	1846	2030	1937	S18	W58	.863	8829	1.4	104	2N		C		4.84			5 5 5
LOCK	05	1839	2030	1938	S16	W58	.860	8829	1.4	111	2N		C	1938	6.50	12.40	20	K
MCMA	05	1840	2036D	1937	S20	W60	.882	8829	1.3	116D	2B		C	1937	3.61	7.20		F
SACP	05	1858	2032	1939U	S20	W58	.866	8829	1.4	94	2B		C		5.68	8.51		
HUAN	05	1900	2035		S18	W58	.863	8829	1.4	95	2N	1	C	1940	3.63	5.50		
HOUS	05	1931E	2016	1933	S17	W58	.861	8829	1.5	45D	2N		C		4.80	9.10	200	E
GRP 6371	05	2129	2142	2133	N22	W34	.641	8831	3.3	13	-F		C		.25			1 1 1
HUAN	05	2129	2142		N22	W34	.641	8831	3.3	13	-F	1	C	2133	.25	.29		D
GRP 6372	06	1010	1020	1013	N24	W40	.715	8831	3.4	10	-N		C		.31			1 1 1
MONTE	06	1010	1020		N24	W40	.715	8831	3.4	10	-N		C	1013	.31			
GRP 6373	06	1050	1117	1059	N26	W40	.726	8831	3.5	27	1N		C		1.66			3 3 3
MONTE	06	1045	1120	1055	N24	W38	.695	8831	3.6	35	1N		C	1055	1.86			
CANA	06	1055	1115	1101	N27	W40	.732	8831	3.5	20	-N		C		.93	1.30	200	EI
CAPS	06	1057E	1117		N26	W41	.735	8831	3.4	20D	1N	3	C	1100	2.20	3.10	173	E
CANA	06	1057	1111	1100	N28	W42	.755	8831	3.3	14	-F		C		.41	.60	100	
GRP 6374	06	1212	1246	1218	N23	W41	.720	8831	3.4	34	1N		V	1217	2.61		2.90	10 9 8
ONDR	06	1204E	1245		N20	W43	.727	8831	3.3	41D	2N		V	1218	3.01	3.60		CJL
HUAN	06	1206	1336	1218	N24	W42	.735	8831	3.4	90	1N	2	C	1218	3.01	3.60		
CANA	06	1211	1227	1214	N23	W40	.710	8831	3.5	16	1N		C		1.55	2.10	200	IJ
KIEV	06	1211E	1300D		N25	W43	.749	8831	3.3	49D	1F		C	1211	2.06		80	BDI
CAPS	06	1213	1255		N23	W38	.689	8831	3.7	42	1B	3	C	1220	3.00	4.20	208	
ZURI	06	1214	1240	1221	N25	W38	.701	8831	3.7	26	1F		P	1221	3.16	4.20		
CATA	06	1215	1235	1218	N22	W43	.736	8831	3.3	20	1B		C	1218	1.92	2.70	302	
MONTE	06	1215	1350	1225	N24	W39	.705	8831	3.6	95	1F		C	1225	1.55			
WEND	06	1215E	1301		N23	W39	.699	8831	3.6	46D	2F		V		6.19			
MEUD	06	1233	1245		N22	W43	.736	8831	3.3	12	-F		C	1233	1.34	1.90		
GRP 6375	06	1244	1324	1247	N23	W38	.689	8831	3.7	40	1N		C		1.93			3 2 2
HOUS	06	1242U	1302	1246	N23	W37	.679	8831	3.8	20U	1N		C		1.50	2.00	200	E
CAPF	06	1245E	1345		N22	W36	.662	8831	3.8	60D	1F		P	1248	2.35	3.19		
MCMA	06	1305E	1322D	1306	N23	W41	.720	8831	3.5	17D	-N		P	1306	.62	.90		E
GRP 6376	06	1535	1541	1538	N26	W40	.726	8831	3.6	6	1N		C		1.65			2 2 1
CANA	06	1533	1541	1537	N28	W42	.755	8831	3.5	8	1N		C		1.65	2.20	200	E
HUAN	06	1537	1541	1538	N24	W38	.695	8831	3.8	4	-F	1	C	1538	.25	.29		D
GRP 6377	06	1617	1626	1620	N25	W41	.730	8831	3.6	9	1F		P		.62			2 2 2
SALO	06	1540E	1630D		N25	W37	.691	8831	3.9	50D	1F		P	1620	.99	1.30	1.30	
HUAN	06	1617	1622	1619	N24	W45	.764	8831	3.3	5	-F	2	C	1619	.25	.31		D
GRP 6378	06	1704	1720	1709	N22	W33	.629	8831	4.2	16	-F		C		.36			2 2 2
HALE	06	1702	1722	1709	N20	W32	.605	8831	4.3	20	-F	2	C	1709	.31	.40		
LOCK	06	1705	1717	1708	N23	W33	.636	8831	4.2	12	-F		C	1708	.40	.50	10	
GRP 6379	06	1726	1739	1731	N25	W46	.777	8831	3.3	13	-N		C		.89			4 4 4
HOUS	06	1724	1736	1729	N25	W46	.777	8831	3.3	12	-N		C		.80	1.30	200	
LOCK	06	1726	1736	1731	N25	W46	.777	8831	3.3	10	-F		C	1731	1.00	1.60	10	
HALE	06	1726	1739	1731	N24	W46	.773	8831	3.3	13	-B	2	C	1731	.52	.80		
HUAN	06	1726	1746	1731	N24	W46	.773	8831	3.3	20	-B	2	C	1731	1.24	1.56		
GRP 6380	06	1827	1832	1829	N25	W41	.730	8831	3.7	5	-N		C		.18			2 2 2
HALE	06	1827	1831	1828	N24	W40	.715	8831	3.8	4	-N	2	C	1828	.15	.20		
LOCK	06	1827	1832	1829	N26	W41	.735	8831	3.7	5	-F		C	1829	.20	.30	10	
GRP 6381	06	1909	1918	1913	N24	W46	.773	8831	3.3	9	-F		C		.31			1 1 1
HUAN	06	1909	1918	1913	N24	W46	.773	8831	3.3	9	-F	2	C	1913	.31	.39		D
GRP 6382	06	1959	2009	2004	N24	W47	.783	8831	3.3	10	-N		C		.39			4 4 4
LOCK	06	1957	2010	2003	N25	W47	.787	8831	3.3	13	-F		C	2003	.40	.60	10	
HALE	06	2000	2008	2004	N23	W47	.779	8831	3.3	8	-N	2	C	2004	.31	.50		
HUAN	06	2001	2008	2004	N24	W48	.792	8831	3.2	7	-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 Ha	MAX. INT. %		
GRP 6410	09	1408	1428	1412	N20	E90	1.000	8843	16.3	20	-F							1 1 1	
SACP	09	1408	1428	1412	N20	E90	1.000	8843	16.3	20	-F	C				.61			
GRP 6411	09	1633	1649	1637	N19	E82	.991	8843	15.8	16	-N					.26		1 1 1	
HALE	09	1633	1649	1637	N19	E82	.991	8843	15.8	16	-N	3	C	1637		.26			
GRP 6412	09	1644	1657	1649	N14	W21	.421	8837	8.1	13	-N					.21		1 1 1	
HALE	09	1644	1657	1649	N14	W21	.421	8837	8.1	13	-N	3	C	1649		.21	.22		
GRP 6413	10	0545	0610	0550	N27	E77	.979	8844	16.0	25	-N					.51		1 1 1	
CATA	10	0545	0610	0550	N27	E77	.979	8844	16.0	25	-N			0550		.51		186	
GRP 6414	10	1554	1607	1557	N19	E73	.960	8843	16.1	13	-F					.30		1 1 1	
HOUS	10	1554	1607	1557	N19	E73	.960	8843	16.1	13	-F	C				.30	.80	100	
GRP 6415	10	2144	2155	2148	N18	E68	.934	8843	16.0	11	-F					.44		4 4 4	
HOUS	10	2143	2153	2146	N18	E70	.945	8843	16.2	10	-N	C				.30	.70	200	
SACP	10	2144	2157	2148	N20	E67	.929	8843	15.9	13	-F	C				.61	1.09		
LOCK	10	2144	2157	2148	N15	E66	.919	8843	15.9	13	-F	C	2148			.60	1.30	10	
HUAN	10	2146	2153		N20	E68	.935	8843	16.0	7	-F	1	C	2149		.25		D	
GRP 6416	10	2209	2215	2211	S16	W18	.410	8836	9.6	6	-F					.21		1 1 1	
HUAN	10	2209	2215	2211	S16	W18	.410	8836	9.6	6	-F	2	C	2211		.21	.21	D	
GRP 6417	10	2305	2340	2325	N15	E66	.919	8843	15.9	35	-F					.80		1 1 1	
LOCK	10	2305	2340	2325	N15	E66	.919	8843	15.9	35	-F	C	2325			.80	1.80	10	
GRP 6418	11	0423	0444	0426	N19	E61	.887	8843	15.8	21	-N					.26		2 2 2	
HALE	11	0419	0455D	0424	N20	E60	.881	8843	15.7	36D	-N	1	P	0424		.21	.40	GJKH	
CRON	11	0426	0433	0428	N18	E61	.886	8843	15.8	7	-F	C				.30	.60	100	
GRP 6419	11	1109	1148	1116	N19	E58	.864	8843	15.8	39	1N					2.81		6 5 5	
KIEV	11	1107E	1140D	1114	N16	E60	.876	8843	16.0	33D	1N	C	1114			5.16		70	
CAPS	11	1108E	1142		N19	E56	.847	8843	15.7	34D	2N	3		1115		3.00	5.40	196	
CAPE	11	1108	1159	1116	N19	E59	.872	8843	15.9	51	1N	C	1116			2.35	4.80		
CATA	11	1113	1130	1115	N22	E58	.869	8843	15.8	17	1B			1115		2.38		209	
CAPP	11	1115E	1206		N19	E59	.872	8843	15.9	51D	1N	P		1119		1.18	2.28		
HUAN	11	1139E	1153		N19	E57	.855	8843	15.8	14D	-F	1	P	1139		.25	.35	GH D	
GRP 6420	11	1333	1355	1338	N19	E59	.872	8843	16.0	22	1N					1.06		2 2 2	
CAPE	11	1333	1355	1337	N20	E58	.865	8843	15.9	22	1F	C	1337			1.70	3.40	C	
MCMA	11	1337E	1355D		N17	E60	.877	8843	16.1	18D	-N	C	1338			.41	.80	E	
GRP 6421	11	1610	1615	1612	S17	W30	.564	8836	9.4	5	-F					.31		1 1 1	
MCMA	11	1610	1615	1612	S17	W30	.564	8836	9.4	5	-F	C	1612			.31	.40	EV	
GRP 6422	11	1900	1905	1901	N19	E56	.847	8843	16.0	5	-F					.21		1 1 1	
HUAN	11	1900	1905	1901	N19	E56	.847	8843	16.0	5	-F	2	C	1901		.21	.29	D	
GRP 6423	11	2012	2041	2021	N16	W51	.794	8837	8.0	29	-F					.55		4 4 4	
HOUS	11	2008	2044	2018	N16	W52	.804	8837	7.9	36	-F	C				.70	1.20	100	
MCMA	11	2011	2044D	2018	N15	W51	.792	8837	8.0	33D	-N	C	2018			.41	.70	E	
HALE	11	2013	2042	2022	N15	W50	.782	8837	8.1	29	-F	1	C	2022			.57	.90	EH
HUAN	11	2014	2035		N16	W51	.794	8837	8.0	21	-F	2	C	2025			.52	.68	GJ
GRP 6424	11	2202	2210	2204	S17	W33	.601	8836	9.4	8	-N					.45		1 1 1	
HUAN	11	2202	2210	2204	S17	W33	.601	8836	9.4	8	-N	2	C	2204			.45	.50	E
GRP 6425	12	0139	0147	0142	N16	W53	.814	8837	8.1	8	-F					.26		2 2 2	
CRON	12	0139	0149	0142	N16	W54	.823	8837	8.0	10	-F	C				.30	.50	100	
MANI	12	0140E	0145	0141	N15	W51	.792	8837	8.2	5D	-F	3		0141		.21	.33		
GRP 6426	12	0415	0428	0420	N19	E50	.791	8843	15.9	13	-N					.36		2 2 2	
MANI	12	0414	0428	0420	N18	E48	.769	8843	15.8	14	-F	3		0420		.41	.63		
HALE	12	0416	0428	0420	N20	E51	.804	8843	16.0	12	-N	1	C	0420		.31	.50	GV	
GRP 6427	12	1049	1100	1052	N17	E46	.745	8843	15.9	11	-F					.40		1 1 1	
CAPS	12	1049E	1100D		N17	E46	.745	8843	15.9	11D	-F	2		1052		.40	.60	147	
GRP 6428	12	1137	1151	1142	S16	W38	.656	8836	9.6	14	-F					.31		3 3 2	
SALO	12	1135	1150		S17	W38	.661	8836	9.6	15	-F	V		1145		.21	.30	1.20	
CANA	12	1138	1151	1138	S16	W39	.668	8836	9.6	13	-F	C				.41	.50	100	
CAPS	12	1146E	1146D		S14	W38	.648	8836	9.6		-N	2						CDH	
GRP 6429	12	1449	1502	1453	S15	W40	.676	8836	9.6	13	-F					.17		3 3 3	
CANA	12	1447	1500	1452	S15	W41	.688	8836	9.5	13	-F	C				.10	.11	100	
CAPS	12	1450	1455D		S14	W39	.660	8836	9.7	5D	-F	2	C	1452		.20	.30	140	
HUAN	12	1451	1504	1454	S16	W41	.692	8836	9.5	13	-F	2	C	1454		.21	.24	H D	
GRP 6430	12	1610	1618	1612	S17	W42	.707	8836	9.5	8	-N					.48		4 4 4	
HUAN	12	1609	1616	1612	S16	W43	.714	8836	9.4	7	-N	2	C	1612		.50	.58	D	
HALE	12	1610	1625U	1612U	S18	W40	.689	8836	9.7	15U	-N	2	P	1612		.41	.60		
SACP	12	1611	1615	1612	S17	W42	.707	8836	9.5	4	-N	C				.40	.47		
MCMA	12	1611	1616	1613	S17	W43	.718	8836	9.4	5	-B	C	1613			.62	.90	DH	
GRP 6431	12	1709	1728	1720	N19	E40	.686	8843	15.7	19	-N					.15		1 1 1	
HALE	12	1709	1728	1720	N19	E40	.686	8843	15.7	19	-N	2	C	1720		.15	.20	CG	
GRP 6432	12	1811	1820	1813	S18	W43	.722	8836	9.5	9	-F					.40		3 3 3	
SACP	12	1811	1818E	1813D	S18	W43	.722	8836	9.5	7D	-F	C				.31	.36		
HUAN	12	1811	1819	1812	S18	W43	.722	8836	9.5	8	-F	2	C	1812		.62	.75	E	
HALE	12	1812	1820	1814	S17	W42	.707	8836	9.6	8	-F	2	C	1814		.26	.40	L	
GRP 6433	12	2143	2213	2146	S23	E71	.955	8852	18.2	30	-N					.20		1 1 1	
HOUS	12	2143	2213	2146	S23	E71	.955	8852	18.2	30	-N	C				.20	.50	200	
GRP 6434	12	2220	2234	2224	N16	W67	.926	8837	7.9	14	-N					.35		2 2 2	
SACP	12	2220	2229	2225	N15	W66	.918	8837	8.0	9	-F	C				.40	.70		
HOUS	12	2222E	2239U	2222	N17														





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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1967 JUNE	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCMMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$		MAX. INT. %
GRP 6486	17	0245	0327	0301	N33 E74	.970	8854	22.7	42	1N							3 3 3
CULG	17	0235	0319	0256	N35 E75	.975	8854	22.7	44	-N	C						
TACH	17	0255	0342		N30 E70	.952	8854	22.4	47	1N	V	0303	1.75		2.10	.63	D
CRON	17	0305U	0319	0305U	N34 E78	.983	8854	23.0	14U	1F	C		.70	2.10		100	
GRP 6487	17	0513	0527	0523	N25 E62	.901	8854	21.9	14	-N	-N		.41				1 1 1
CULG	17	0513	0527	0523	N25 E62	.901	8854	21.9	14	-N	C		.41	.90			L
GRP 6488	17	0626	0649	0633	N26 E71	.953	8854	22.6	23	-B	-B		.18				2 2 2
MANI	17	0625	0649	0631	N26 E72	.958	8854	22.7	24	-N	3	0631	.21	.48			
CULG	17	0626	0647D	0634	N25 E70	.948	8854	22.5	21D	-B	P		.15				
GRP 6489	17	0704	0710	0706	N28 E64	.918	8854	22.1	6	1F	C		1.00				1 1 1
CRON	17	0704	0710	0706	N28 E64	.918	8854	22.1	6	1F	C		1.00	2.20		100	
GRP 6490	17	0903	0910	0905	N24 E53	.830	8854	21.4	7	-F	-F		.10				2 2 1
CRON	17	0903	0909	0904	N26 E62	.902	8854	22.0	6	-F	C		.10	.20		100	
ONDR	17	0903E	0910		N22 E44	.738	8854	20.7	7D	-F	V	0905			1.90		CDH
GRP 6491	17	1049	1107	1059	N23 E52	.818	8854	21.4	18	1N	1N		1.84				4 4 2
SALO	17	1040E	1110D		N24 E55	.846	8854	21.6	30D	1N	V	1100	.58	1.10	1.50		
WEND	17	1046E	1106		N21 E53	.822	8854	21.4	20D	1N	V		3.09				
ONDR	17	1049E	1100		N21 E49	.785	8854	21.1	11D	-B	V	1051			2.50		CE
CAPS	17	1059E	1111		N26 E52	.827	8854	21.4	12D	-N	2	1105	.30	.50			D
GRP 6492	17	1107	1130	1122	N24 E70	.947	8854	22.7	23	1N	1N		1.40				3 3 3
SALO	17	1105E	1130D		N22 E67	.929	8854	22.5	25D	1N	V	1125	.50	1.50	1.40		
WEND	17	1108E	1130		N24 E70	.947	8854	22.7	22D	1N	V		3.09				
CAPS	17	1109	1130		N25 E72	.957	8854	22.9	21	-N	2	1118	.60			171	
GRP 6493	17	1111	1128	1122	N18 E46	.745	8854	20.9	17	-N	-N		.32				2 2 2
SALO	17	1110E	1130D		N17 E47	.753	8854	21.0	20D	-N	V	1125	.33	.50	1.40		
CAPS	17	1111	1125		N18 E44	.723	8854	20.8	14	-F	2	1118	.30	.40			D
GRP 6494	17	1412	1435	1418	N19 E43	.716	8854	20.8	23	-F	-F		.52				5 5 5
SACP	17	1410	1438	1415	N19 E43	.716	8854	20.8	28	-N	C		.61	.72			
CAPS	17	1411	1434		N18 E43	.712	8854	20.8	23	-F	3	1422	.30	.40		142	D
CAPE	17	1411	1435	1418	N19 E43	.716	8854	20.8	24	-F	C	1418	.64	.90			C
HOUS	17	1415	1434	1420	N17 E43	.709	8854	20.8	19	-N	C		.40	.60		200	
CATA	17	1415	1435	1416	N20 E43	.720	8854	20.8	20	-F	-F	1416	.66	.90		129	
GRP 6495	17	1446	1454	1448	N15 E75	.967	8854	23.2	8	-F	-F		.26				2 2 2
HOUS	17	1445	1452	1446	N14 E75	.967	8854	23.2	7	-F	C		.20	.60		100	
SACP	17	1446	1455	1449	N15 E75	.967	8854	23.2	9	-F	C		.31	.68			
GRP 6496	17	1454	1504	1459	N35 E71	.960	8854	22.9	10	-N	-N		.71				2 2 2
SACP	17	1453	1507	1500	N35 E70	.956	8854	22.9	14	-N	C		.92	1.89			
HOUS	17	1454	1501	1458	N34 E71	.959	8854	22.9	7	-N	C		.50	1.40		200	EI
GRP 6497	17	1514	1529	1518	N31 E59	.892	8854	22.1	15	-F	-F		.31				2 2 2
HOUS	17	1511	1519	1513	N38 E69	.955	8854	22.8	8	-F	C		.30	.80		100	
SACP	17	1516	1538	1523	N23 E49	.791	8854	21.3	22	-F	C		.31	.39			
GRP 6498	17	1653	1708	1657	N29 E51	.828	8854	21.5	15	-B	-B		.59				2 2 2
HALE	17	1652	1713	1657	N28 E50	.816	8854	21.5	21	-B	1	C	1657	.46	.80		
SACP	17	1653	1703	1657	N29 E51	.828	8854	21.5	10	-N	C		.71	.97			
GRP 6499	17	1944	2125	2007	N28 E72	.959	8854	23.2	101	1N	1N		.57				2 2 2
HALE	17	1944	2125	2015	N27 E72	.959	8854	23.2	101	1B	1	C	2015	.62			
SACP	17	1958E	2032	1958	N28 E71	.955	8854	23.2	34D	-F	C		.30				
SACP	17	2051D	2054D	2052U	N28 E71	.955	8854	23.2	3D	-F	P		.51	1.04			
GRP 6500	17	2121	2224	2126	N28 E62	.905	8854	22.5	63	1B	1B		.75				2 2 2
CULG	17	2120E	2225	2126	N27 E61	.897	8854	22.5	65D	-N	P		.62	1.55			L
HALE	17	2122	2223	2125	N28 E63	.912	8854	22.6	61	1B	1	C	2125	.88			
GRP 6501	17	2141	2221	2142	N29 E64	.919	8854	22.7	40	1N	1N		2.15				2 2 2
MANI	17	2140E	2215		N28 E64	.918	8854	22.7	35D	1N	1	C	2141	1.86	3.90		
SACP	17	2142E	2226U	2142E	N29 E64	.919	8854	22.7	44U	1N	1N		2.44	4.21			
GRP 6502	17	2223	2239	2227	N26 E45	.764	8854	21.3	16	-N	-N		.48				5 5 5
SACP	17	2220	2241	2228	N28 E46	.782	8854	21.4	21	-N	C		.61	.78			
CULG	17	2221	2243	2228	N28 E46	.782	8854	21.4	22	-N	C		.52	.80			L
HOUS	17	2224	2236D	2226	N26 E47	.783	8854	21.5	12D	-N	C		.40	.60		200	
HALE	17	2224	2239	2227	N27 E46	.778	8854	21.4	15	-B	2	C	2227	.57	.90		
MANI	17	2226	2235	2228	N20 E41	.698	8854	21.0	9	-B	2	C	2228	.31	.40		
GRP 6503	17	2311	2334	2318	N18 E38	.655	8854	20.8	23	-N	-N		.87				4 4 4
MANI	17	2307	2321	2312	N17 E38	.650	8854	20.8	14	-N	3	2312	.72	1.00			
CULG	17	2310	2336	2320	N18 E38	.655	8854	20.8	26	-N	-N		.62	.78			L
HALE	17	2312	2336	2320	N19 E38	.659	8854	20.8	24	-B	2	C	2320	1.03	1.40		
SACP	17	2313	2341	2320	N19 E38	.659	8854	20.8	28	-N	C		1.11	1.26			
GRP 6504	18	0101	0153	0114	N26 E62	.902	8854	22.7	52	1N	1N		.90				2 2 2
MANI	18	0056	0118	0100	N24 E64	.912	8854	22.8	22	-F	3	0100	.36	.74			
CULG	18	0106	0227	0128	N28 E60	.892	8854	22.5	81	1B	P		1.44	3.15			L
GRP 6505	18	0120	0154	0123	N26 E63	.908	8854	22.8	34	2B	2B		2.31				2 2 2
MANI	18	0119	0209	0124	N25 E62	.900	8854	22.7	50	2B	2	C	0124	3.71	7.70		
CRON	18	0120	0138	0121	N27 E64	.916	8854	22.9	18	1N	C		.90	2.00		200	E
GRP 6506	18	0620	0654	0631	N27 E65	.922	8854	23.1	34	-F	-F		.33				1 1 1
BUCA	18	0620E	0654D		N27 E65	.922	8854	23.1	34D	-F	C	0631	.33	.90			
GRP 6507	18	0720	0736	0727	N26 W83	.993	8846	12.1	16	1F	1F		1.11				1 1 1
BUCA	18	0720E	0736D		N26 W83	.993	8846	12.1	16D	1F	C	0727	1.11				



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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
GRP 6524	18	2210	2233	2215	N24	E48	.784	8854	22.5	23	-F			1.16				2 2 2
LOCK	18	2157	2208	2202	N24	E33	.631	8854	21.4	11	-F	C	2202	.50			10	
LOCK	18	2208	2240	2215	N21	E48	.774	8854	22.5	32	-F	C	2215	1.00	1.60		10	
SACP	18	2211	2226	2215	N26	E47	.782	8854	22.4	15	-F	C		.81	1.04			
GRP 6525	18	2308	0015	2345	N12	E90	1.000	8860	25.7	67	1N			.80				1 1 1
LOCK	18	2308	0015	2345	N12	E90	1.000	8860	25.7	67	1N	C	2345	.80	3.20		20	
GRP 6526	19	0010	0032	0016	S23	E53	.839	8858	23.0	22	-N			.74				3 3 3
LOCK	19	0010	0027	0015	S26	E52	.840	8858	22.9	17	-F	C	0015	.90	1.60		10	
SACP	19	0010	0037	0018	S21	E52	.825	8858	22.9	27	-N	C		.91	1.23			
HALE	19	0011	0031	0016	S21	E54	.842	8858	23.1	20	-N	1 C	0016	.41	.80			
GRP 6527	19	0015	0120	0035	N13	E90	1.000	8863	25.8	65	1N			1.00				1 1 1
LOCK	19	0015	0120	0035	N13	E90	1.000	8863	25.8	65	1N	C	0035	1.00	4.00		20	
GRP 6528	19	0128	0143	0134	N24	E45	.755	8854	22.4	15	-N			.81				1 1 1
SACP	19	0128	0143	0134	N24	E45	.755	8854	22.4	15	-N	C		.81	1.00			
GRP 6529	19	0247	0325	0259	N41	W05	.640	8850	18.7	38	-N			.21				1 1 1
HALE	19	0247	0325	0259	N41	W05	.640	8850	18.7	38	-N	2 C	0259	.21	.30			CG
GRP 6530	19	0256	0402	0400	N16	E90	1.000	8863	25.9	66	-N			.41				1 1 1
CULG	19	0256E	0402D	0400	N16	E90	1.000	8863	25.9	66	-N	P		.41				K
GRP 6531	19	0409	0421	0412	S22	E51	.819	8858	23.0	12	-N			.21				1 1 1
HALE	19	0409	0421	0412	S22	E51	.819	8858	23.0	12	-N	2 C	0412	.21	.40			
GRP 6532	19	1107	1124	1109	N17	E88	.999	8863	26.1	17	-N			.21				3 3 1
CANA	19	1106	1125	1108	N15	E90	1.000	8863	26.2	19	-N	C		.21	.80		200	I
MCMA	19	1107	1123	1108	N17	E90	1.000	8863	26.2	16	-B	C	1108					A
ONDR	19	1110E	1125		N18	E85	.996	8863	25.8	15	-N	V	1111			2.30		ACD
GRP 6533	19	1202	1209	1206	N18	E79	.982	8863	25.4	7	-F			.21				1 1 1
CANA	19	1202	1209	1206	N18	E79	.982	8863	25.4	7	-F	C		.21	.60		100	
GRP 6534	19	1236	1310	1240	N23	E23	.515	8854	21.3	34	-F			.64				4 3 2
ONDR	19	1235	1315	1240	N22	E22	.495	8854	21.2	40	-F	V	1240			1.80		CH
SACP	19	1236	1306	1239	N24	E23	.525	8854	21.3	30	-F	C		.81	.84			
MCMA	19	1236	1310	1240	N24	E24	.535	8854	21.3	34	-N	C	1240	.46	.60			E
CATA	19	1257	1308	1300	N23	E24	.526	8854	21.3	11	-N	C	1300	.59	.70		166	
GRP 6535	19	1427	1440	1430	N27	E37	.691	8854	22.4	13	-F			.31				1 1 1
MCMA	19	1427	1440	1430	N27	E37	.691	8854	22.4	13	-F	C	1430	.31	.40			EH
GRP 6536	19	1441	1447	1443	N19	E87	.998	8863	26.1	6	-N			.60				2 2 1
SACP	19	1441	1446	1443	N19	E84	.994	8863	25.9	5	-N	C		.60				
MCMA	19	1441	1447	1443	N19	E90	1.000	8863	26.4	6	-N	C	1443					D
GRP 6537	19	1501	1514	1504	N28	E39	.716	8854	22.6	13	-F			.41				1 1 1
MCMA	19	1501	1514	1504	N28	E39	.716	8854	22.6	13	-F	C	1504	.41	.50			E
GRP 6538	19	1651	1703	1653	N29	E42	.749	8854	22.9	12	-F			.32				3 3 3
LOCK	19	1650	1705	1655	N29	E44	.767	8854	23.0	15	-F	C	1655	.40	.60		10	
HALE	19	1651	1703	1652	N30	E43	.763	8854	22.9	12	-N	2 C	1652	.21	.30			
MCMA	19	1652	1702	1653	N28	E39	.716	8854	22.6	10	-F	C	1653	.36	.40			E
GRP 6539	19	1700	1735	1707	S23	E36	.679	8858	22.4	35	-N			.34				3 3 3
HOUS	19	1700	1722	1705	S23	E37	.689	8858	22.5	22	-N	C		.30	.40		200	
HALE	19	1700	1747	1708	S21	E35	.655	8858	22.3	47	-B	2 C	1708	.21	.30			CG
LOCK	19	1701	1707	1707	S24	E36	.685	8858	22.4	60	-F	C	1707	.50	.70		10	
GRP 6540	19	1714	1745	1725	N27	E36	.681	8854	22.4	31	-N			.41				2 2 2
HALE	19	1708	1745	1724	N27	E34	.661	8854	22.3	37	-N	2 C	1724	.31	.40			
LOCK	19	1720	1745	1726	N26	E37	.685	8854	22.5	25	-F	C	1726	.50	.70		10	
GRP 6541	19	1817	1902	1827	N17	E83	.992	8863	26.0	45	-N			.61				3 3 2
HUAN	19	1756	1903		N18	E84	.994	8863	26.0	67	-N	1 C	1822	.62				
MCMA	19	1813	1848D	1829	N18	E85	.996	8863	26.1	35D	1N	C	1829					
LOCK	19	1820	1900	1830	N14	E79	.982	8863	25.7	40	-F	C	1830	.60	1.90		10	J
GRP 6542	19	2009	2028	2013	N16	E04	.260	8854	20.1	19	-N			.42				4 4 4
LOCK	19	2007	2022	2013	N15	E04	.244	8854	20.1	15	-F	C	2013	.50	.60		10	
HUAN	19	2009	2017D	2012	N15	E04	.244	8854	20.1	80	-N	2 C	2012	.45	.45			E
HALE	19	2009	2036	2012	N16	E03	.256	8854	20.1	27	-B	1 C	2012	.31	.31			CG
MCMA	19	2012	2025	2014	N16	E04	.260	8854	20.1	13	-F	C	2014	.41	.41			EH
GRP 6543	19	2040	2046	2042	N25	E43	.739	8854	23.1	6	-N			.61				2 2 2
LOCK	19	2039	2047	2042	N24	E44	.745	8854	23.2	8	-F	C	2042	.90	1.40		10	
HALE	19	2041	2044	2041	N26	E41	.724	8854	22.9	3	-B	1 C	2041	.31	.40			
GRP 6544	19	2139	2145	2141	N26	E41	.724	8854	23.0	6	-N			.31				1 1 1
HALE	19	2139	2145	2141	N26	E41	.724	8854	23.0	6	-N	1 C	2141	.31	.40			
GRP 6545	20	0056	0103	0057	N16	E82	.990	8863	26.2	7	-N			.21				1 1 1
HALE	20	0056	0103	0057	N16	E82	.990	8863	26.2	7	-N	1 C	0057	.21				
GRP 6546	20	0100	0111	0105	N30	E47	.797	8854	23.6	11	-F			.41				2 2 2
LOCK	20	0100	0110	0104	N29	E43	.757	8854	23.3	10	-F	C	0104	.60	.90		10	
MANI	20	0100	0112	0105	N30	E50	.821	8854	23.8	12	-F	2 C	0105	.21	.34			
GRP 6547	20	0114	0123	0117	N26	E37	.684	8854	22.8	9	-F			.41				1 1 1
HALE	20	0114	0123	0117	N26	E37	.684	8854	22.8	9	-F	1 C	0117	.41	.60			
GRP 6548	20	0238	0243	0240	N16	W02	.251	8854	20.0	5	-N			.36				2 2 2
HALE	20	0238	0242	0239	N15	W02	.234	8854	20.0	4	-N	2 C	0239	.41	.42			
MANI	20	0238	0243	0240	N16	W01	.249	8854	20.0	5	-F	3 C	0240	.31	.32			
GRP 6549	20	0250	0257	0251	N15	W02	.234	8854	20.0	7	-N			.21				1 1 1
HALE	20	0250	0257	025														





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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H $\alpha$	MAX. INT. %			
GRP 6575	21	1327	1337	1331	S19	E12	.404	8858	22.5	10	-F			.31				2 2 2	
HUAN	21	1327	1335	1330	S18	E12	.390	8858	22.5	8	-F	2	C	1330	.21	.21			D
CAPE	21	1327	1338	1331	S19	E11	.397	8858	22.4	11	-F			.41	.40			H	
GRP 6576	21	1347	1359	1351	N16	E59	.864	8863	26.0	12	-F			.32				1 1 1	
CAPE	21	1347	1359	1351	N16	E59	.864	8863	26.0	12	-F		C	1351	.32	.60			
GRP 6577	21	1532	1545	1535	N17	W22	.446	8854	20.0	13	-F			.55				1 1 1	
HUAN	21	1532	1545	1535	N17	W22	.446	8854	20.0	13	-F	2	C	1535	.55	.55			E
GRP 6578	21	1630	1645	1635	S21	E56	.860	8867	25.9	15	-N			.15				1 1 1	
HALE	21	1630	1645	1635	S21	E56	.860	8867	25.9	15	-N	2	C	1635	.15	.30			
GRP 6579	21	1722	1755	1735	S26	E69	.951	8867	26.9	33	-F			.30				1 1 1	
LOCK	21	1722	1755	1735	S26	E69	.951	8867	26.9	33	-F		C	1735	.30	.80			10
GRP 6580	21	1810	1840	1820	S21	E56	.860	8867	26.0	30	-N			.15				1 1 1	
HALE	21	1810	1840	1820	S21	E56	.860	8867	26.0	30	-N	2	C	1820	.15	.30			
GRP 6581	21	1832	1849	1836	S22	E15	.467	8858	22.9	17	-F			.45				3 3 3	
LOCK	21	1831	1846	1836	S22	E13	.452	8858	22.7	15	-F		C	1836	.70	.80			10
HALE	21	1832	1857	1835	S23	E15	.480	8858	22.9	25	-N	2	C	1835	.41	.50			F
HUAN	21	1834	1843	1836	S21	E16	.463	8858	23.0	9	-F	2	C	1836	.25	.25			E
GRP 6582	21	1921	1927	1923	N18	E50	.784	8863	25.6	6	-F			.29				3 3 3	
HALE	21	1921	1926	1923	N18	E50	.784	8863	25.6	5	-N	2	C	1923	.26	.40			
HUAN	21	1921	1926	1923	N18	E50	.784	8863	25.6	5	-F	2	C	1923	.21	.22			D
SACP	21	1921	1928	1923	N19	E51	.797	8863	25.6	7	-N		C		.41	.53			
GRP 6583	21	2023	2036	2023	N16	E50	.780	8863	25.6	13	-N			.26				2 2 2	
HOUS	21	2020	2033U	2022	N16	E51	.790	8863	25.7	13U	-F		C		.20	.30			100
HUAN	21	2023	2028	2024	N18	E50	.784	8863	25.6	5	-F	2	C	2024	.21	.22			J
HOUS	21	2033E	2043U	2034	N14	E50	.776	8863	25.6	10U	-N		C		.30	.50			200
GRP 6584	21	2109	2120	2112	S24	E70	.954	8867	27.1	11	-F			.25				1 1 1	
HUAN	21	2109	2120	2112	S24	E70	.954	8867	27.1	11	-F	1	C	2112	.25				D
GRP 6585	21	2203	2212	2205	N18	E49	.774	8863	25.6	9	-B			.84				4 4 4	
HOUS	21	2202	2209D	2204	N17	E48	.761	8863	25.5	7D	-B		C		.90	1.40			300
SACP	21	2202	2214	2205	N19	E49	.777	8863	25.6	12	-N		C		1.12	1.43			
HUAN	21	2203	2209D	2206	N18	E49	.774	8863	25.6	6D	-N	2	C	2206	.72	.91			D
HALE	21	2204	2210	2205	N18	E49	.774	8863	25.6	6	-B	2	C	2205	.62	1.00			
GRP 6586	21	2235	2245	2235	S23	E13	.466	8858	22.9	10	-F			.31				1 1 1	
HALE	21	2235	2245	2235	S23	E13	.466	8858	22.9	10	-F	1	C	2235	.31	.40			
GRP 6587	21	2240	2301	2243	S27	E68	.947	8867	27.0	21	1N			.90				1 1 1	
HOUS	21	2240	2301	2243	S27	E68	.947	8867	27.0	21	1N		C		.90	2.40			200
GRP 6588	21	2332	0100	2344	S24	E59	.889	8867	26.4	88	-N			.63				2 2 2	
LOCK	21	2330	0100	2347	S27	E64	.926	8867	26.8	90	-F		C	2347	.80	1.80			10
LOCK	21	2330	0100	0035	S27	E64	.926	8867	26.8	90	-F		C					J	
HALE	21	2333	2356D	2340	S21	E54	.843	8867	26.0	23D	-B	2	P	2340	.46	.90			
GRP 6589	22	0235	0251	0239	N19	E49	.776	8863	25.8	16	-N			.34				2 2 2	
MANI	22	0233	0252	0238	N19	E50	.786	8863	25.9	19	-N	2		.46	.75				
HALE	22	0236	0250	0240	N18	E47	.753	8863	25.6	14	-N	2	C	0240	.21	.30			
GRP 6590	22	0243	0304	0247	S25	E65	.929	8867	27.0	21	-N			.26				1 1 1	
MANI	22	0243	0304	0247	S25	E65	.929	8867	27.0	21	-N	2		.26	.55				
GRP 6591	22	0307	0321	0311	S25	E65	.929	8867	27.0	14	-N			.36				1 1 1	
MANI	22	0307	0321	0311	S25	E65	.929	8867	27.0	14	-N	2		.36	.77				
GRP 6592	22	0350	0411	0355	N15	E47	.745	8863	25.7	21	-B			.31				1 1 1	
HALE	22	0350	0411	0355	N15	E47	.745	8863	25.7	21	-B	2	C	0355	.31	.50			
GRP 6593	22	0444	0500	0444	S17	W49	.786	8852	18.5	16	-B			.31				1 1 1	
HALE	22	0444E	0500D	0444	S17	W49	.786	8852	18.5	16D	-B	2	P	0444	.31	.50			
GRP 6594	22	0444	0500	0448	N14	E50	.776	8863	25.9	16	-B			.41				1 1 1	
HALE	22	0444E	0500D	0448	N14	E50	.776	8863	25.9	16D	-B	2	P	0448	.41	.70			
GRP 6595	22	0453	0456	0454	N17	E46	.739	8863	25.7	3	-B			.31				1 1 1	
HALE	22	0453	0456	0454	N17	E46	.739	8863	25.7	3	-B	2	C	0454	.31	.50			
GRP 6596	22	0610	0700	0612	S21	E67	.936	8867	27.3	50	1N			1.18				1 1 1	
CATA	22	0610	0700	0612	S21	E67	.936	8867	27.3	50	1N			1.18				192	
GRP 6597	22	0655	0715	0700	N16	E45	.726	8863	25.7	20	-N			.46				1 1 1	
CATA	22	0655	0715	0700	N16	E45	.726	8863	25.7	20	-N			.46	.70			186	
GRP 6598	22	0725	0737	0727	N18	E44	.720	8863	25.6	12	-F			.40				5 5 5	
CANA	22	0723	0735	0724	N16	E44	.714	8863	25.6	12	-F		C		.31	.40			100
MEUD	22	0724	0735		N20	E45	.738	8863	25.7	11	-F		C	0728	.41	.60			EH
CAPE	22	0725	0732D		N19	E44	.724	8863	25.6	7D	-F		C	0726	.37	.50			
CARS	22	0727	0742D		N17	E45	.728	8863	25.7	15D	-F	3		0729	.70	1.00			150
MANI	22	0728	0737	0730	N18	E42	.698	8863	25.5	9	-N	2		0730	.21	.28			E
GRP 6599	22	0758	0853	0813	N18	E54	.823	8863	26.4	55	1N			1.42				2 2 2	
MEUD	22	0756	0806	0756	N17	E44	.717	8863	25.6	10	-F		C	0756	.26	.40			
MEUD	22	0756	0806	0803	N17	E44	.717	8863	25.6	10	-F		C						
MONT	22	0800	0940		N18	E64	.904	8863	27.1	100	1N		C	0830	2.58				H
GRP 6600	22	0841	0854	0846	N16	E43	.703	8863	25.6	13	-F			.55				2 2 2	
CANA	22	0836	0855	0846	N15	E43	.700	8863	25.6	19	-F		C		.83	1.10			100
MEUD	22	0845	0852	0845	N17	E43	.706	8863	25.6	7	-F		C	0845	.26	.40			EHI



# SOLAR FLARES

JUNE 1967

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE 1967 JUNE	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 $\alpha$		MAX. INT. %	
GRP 6615	22	1539	1556	1541	N16	E40	.667	8863	25.7	17	-F						4 4 4		
LOCK	22	1538	1553	1540	N14	E40	.661	8863	25.7	15	-F								
HUAN	22	1538	1554		N16	E39	.655	8863	25.6	16	-F	1	C	1540	.63	.80		10	
MEUD	22	1539	1542	1540	N17	E39	.659	8863	25.6	3	-F		C	1540	.62	.80			
CATA	22	1541	1615	1541	N16	E40	.667	8863	25.7	34	-N		C	1541	.96	1.30		155	
GRP 6616	22	1558	1607	1601	N14	E42	.685	8863	25.8	9	-N							4 4 4	
LOCK	22	1556	1615	1559	N13	E42	.683	8863	25.8	19	-F		C	1559	.70	1.00		10	
MEUD	22	1557	1604	1601	N16	E41	.679	8863	25.7	7	-F		C	1601	.31	.40			
HALE	22	1559E	1604	1601	N13	E42	.683	8863	25.8	5D	-N	1	P	1601	.21	.30			
HUAN	22	1559	1605	1601	N15	E42	.688	8863	25.8	6	-N		C	1601	.25	.29			
GRP 6617	22	1559	1616	1603	S24	E61	.903	8867	27.2	17	-N				1.24				5 5 4
WEND	22	1558	1626		S23	E58	.880	8867	27.0	28	1N		V		3.09				
HUAN	22	1600	1609	1603	S23	E59	.887	8867	27.1	9	-F	1	C	1603	.25	.38			D
LOCK	22	1600	1615	1604	S25	E57	.877	8867	26.9	15	-F		C	1604	.60	1.10		10	
SALO	22	1600E	1620D		S27	E67	.943	8867	27.7	20D	1B		P	1615	.66	1.70		1.50	
MCMA	22	1601E	1610D	1603	S24	E62	.909	8867	27.3	9D	-N		C	1603	.62	1.50			E
GRP 6618	22	1623	1630	1626	N16	E39	.655	8863	25.6	7	-F								1 1 1
HUAN	22	1623	1630	1626	N16	E39	.655	8863	25.6	7	-F	2	C	1626	.31	.35			D
GRP 6619	22	1637	1658	1642	N16	E38	.643	8863	25.5	21	-N				.48				5 5 5
LOCK	22	1635	1658	1644	N15	E38	.639	8863	25.5	23	-F		C	1644	.80	1.00		10	
HUAN	22	1636	1659	1641	N16	E38	.643	8863	25.5	23	-N	2	C	1641	.50	.55			
HALE	22	1637	1657	1642	N15	E38	.639	8863	25.5	20	-B	1	C	1642	.31	.40			
MCMA	22	1637	1715D	1643	N16	E38	.643	8863	25.5	38D	-N		C	1643	.52	.70			EK
MEUD	22	1640	1643	1641	N17	E39	.659	8863	25.6	3	-F		C	1641	.26	.30			D
GRP 6620	22	1701	1716	1707	N16	E38	.643	8863	25.6	15	-N				1.93				5 5 3
MCMA	22	1637	1715D	1709	N16	E38	.643	8863	25.5	38D	-N								
SACP	22	1659	1718	1708	N17	E37	.635	8863	25.5	19	1N		C	1709	4.20	4.67			
LOCK	22	1701	1714	1706	N15	E38	.639	8863	25.6	13	-F		C	1706	.80	1.00		10	
HALE	22	1702	1715	1706	N17	E37	.635	8863	25.5	13	-B	1	C	1706	.41	.50			H
HUAN	22	1703	1718	1708	N17	E38	.647	8863	25.6	15	-N	2	C	1708	.80	.90			E
GRP 6621	22	1746	1806	1752	N16	E38	.643	8863	25.6	20	-F				.84				5 5 4
LOCK	22	1742	1807	1750	N15	E38	.639	8863	25.6	25	-F		C	1750	.80	1.00		10	JK
HALE	22	1743	1756	1749	N15	E38	.639	8863	25.6	13	-N		C	1749	.31	.40			
MCMA	22	1745	1858D	1754	N16	E40	.667	8863	25.7	73D	-N								
HUAN	22	1749	1812	1753	N17	E38	.647	8863	25.6	23	-F	2	C	1753	1.00	1.10			E
SACP	22	1749	1810	1803	N17	E37	.635	8863	25.5	21	-F		C		1.24	1.36			
GRP 6622	22	1754	1806	1757	S23	E61	.420	8858	22.8	12	-N				.76				3 3 3
SACP	22	1754	1804	1757	S23	E61	.420	8858	22.8	10	-F		C		.93				
HALE	22	1754	1810	1756	S23	E60	.420	8858	22.7	16	-B	1	C	1756	.31	.31			
HUAN	22	1755	1804	1757	S22	E61	.404	8858	22.8	9	-N	2	C	1757	1.05	1.05			E
GRP 6623	22	1810	1847	1826	N16	E38	.643	8863	25.6	37	-N				1.80				6 6 6
MCMA	22	1745	1858D	1825	N16	E40	.667	8863	25.7	73D	-N				1.65	2.20			E
SACP	22	1811	1842	1828	N16	E37	.631	8863	25.5	31	1N		C		2.45	2.71			
HALE	22	1812	1850	1833	N15	E38	.639	8863	25.6	38	-N	1	C	1833	.31	.40			
LOCK	22	1812	1850	1826	N15	E38	.639	8863	25.6	38	-N		C	1826	1.40	1.80		20	JK
LOCK	22	1812	1850	1840	N15	E38	.639	8863	25.6	38	-N		C						JK
WEND	22	1814	1847		N17	E37	.635	8863	25.5	33	1N		V		4.13				
HUAN	22	1819	1845	1827	N15	E38	.639	8863	25.6	26	-B	2	C	1827	.88	.97			E
HALE	22	1820	1842	1825	N14	E37	.623	8863	25.5	22	-N	1	C	1842	.31	.40			H
GRP 6624	22	1845	1915	1854	S24	E57	.875	8867	27.1	30	-B				1.60				6 6 5
MCMA	22	1836E	1940D	1858	S24	E61	.903	8867	27.4	64D	-B		C	1858	.83	1.90			
LOCK	22	1837	1925	1853	S25	E55	.862	8867	26.9	48	-N		C	1853	.90	1.70		20	
HUAN	22	1848	1912	1854	S22	E56	.862	8867	27.0	24	-B	2	C	1854	.83	1.26			
WEND	22	1848	1908D		S23	E56	.865	8867	27.0	20D	1N		V		4.13				
HOUS	22	1849	1905	1853	S25	E56	.870	8867	27.0	16	1N		C		1.30	2.50		200	I
HALE	22	1850	1900	1854	S24	E55	.860	8867	26.9	10	-B	1	C	1854	.31	.60			
GRP 6625	22	1941	2000	1947	N16	E40	.667	8863	25.8	19	-F				.51				2 2 2
LOCK	22	1939	1957	1945	N15	E38	.639	8863	25.7	18	-F		C	1945	.60	.80		10	
HUAN	22	1943	2003	1948	N16	E37	.631	8863	25.6	20	-F	2	C	1948	.21	.23			D
HUAN	22	1951	2030D		N18	E45	.731	8863	26.2	39D	-F	1	C	1956	.21	.25			D
GRP 6626	22	2001	2020	2008	S24	E57	.875	8867	27.1	19	-N				.45				4 4 4
HUAN	22	1954	2017	2007	S24	E56	.867	8867	27.0	23	-N	1	C	2007	.37	.54			E
HALE	22	1958	2019	2008	S24	E55	.860	8867	27.0	21	-B	1	C	2008	.31	.60			
LOCK	22	2005	2014	2007	S25	E55	.862	8867	27.0	9	-F		C	2007	.60	1.10		10	
MCMA	22	2006	2028	2008	S24	E60	.896	8867	27.3	22	-N		C	2008	.52	1.20			
GRP 6627	22	2040	2144	2112	N17	E42	.694	8863	26.0	64	-N				1.29				4 4 4
MCMA	22	2015E	2158D	2112	N18	E43	.709	8863	26.1	103D	-N				1.03	1.50			EK
LOCK	22	2040	2144	2111	N15	E43	.700	8863	26.1	64	-N		C	2111	1.30	1.80		20	
SACP	22	2047E	2130	2108	N18	E41	.686	8863	25.9	43D	1F		C		2.27	2.61			
HUAN	22	2111E	2125D		N15	E40	.664	8863	25.9	14D	-N	1	P	2115	.56	.66			E
GRP 6628	22	2041	2151	2049	N16	E41	.679	8863	25.9	70	-N				.31				3 3 1
MCMA	22	2015E	2158D	2047	N18	E43	.709	8863	26.1	103D	-N								
LOCK	22	2040	2144	2050	N15	E43	.700	8863	26.1	64	-N		C						
HALE	22	2042	2105D																

SOLAR FLARES

JUNE 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 Hg	MAX. INT. %	
GRP 6629	22	2200	2230	2206	N15	E36	.614	8863	25.6	30	-F							2 2 2
LOCK	22	2200	2230	2206	N15	E35	.601	8863	25.5	30	-F	C	2206	.43	.60	.80		10
HUAN	22	2204E	2221D		N15	E36	.614	8863	25.6	17D	-F	1 P	2221	.25	.27			D
GRP 6630	22	2218	2250	2230	S25	E55	.862	8867	27.1	32	-F			.50				1 1 1
LOCK	22	2218	2250	2230	S25	E55	.862	8867	27.1	32	-F	C	2230	.50	1.00			10
GRP 6631	22	2248	2310	2256	N15	E35	.601	8863	25.6	22	-F			.60				1 1 1
LOCK	22	2248	2310	2256	N15	E35	.601	8863	25.6	22	-F	C	2256	.60	.80			10
GRP 6632	22	2359	0018	0008	N15	E35	.601	8863	25.6	19	-F			.80				1 1 1
LOCK	22	2359	0018	0008	N15	E35	.601	8863	25.6	19	-F	C	0008	.80	1.00			10
GRP 6633	23	0037	0100	0040	N15	E35	.601	8863	25.7	23	-N			1.45				3 3 2
LOCK	23	0036	0110	0039	N15	E35	.601	8863	25.6	34	-B	C						K
HOU5	23	0036	0047D	0039	N15	E27	.495	8863	25.0	11D	-N	C		1.00	1.10			200
CRON	23	0038	0050	0040	N18	E35	.614	8863	25.7	12	-N	C		.50	.60			200
HOU5	23	0038	0047D	0042	N13	E34	.580	8863	25.6	9D	-N	C		1.40	1.70			200
GRP 6634	23	0039	0108	0050	N15	E34	.588	8863	25.6	29	1N			2.39				5 5 4
LOCK	23	0036	0110	0052	N15	E35	.601	8863	25.6	34	-B	C	0052	1.60	1.90			30
SACP	23	0037	0112	0047	N16	E33	.579	8863	25.5	35	1N	C		3.57	3.84			
SIBE	23	0038	0105	0052	N14	E33	.570	8863	25.5	27	1N	C	0052	2.31	2.90			130
MANI	23	0040	0108D	0051	N15	E33	.575	8863	25.5	28D	1B	1	0051	2.06	2.52			
CRON	23	0046	0107	0055	N14	E34	.583	8863	25.6	21	-N	C		.70	.90			200
CRON	23	0046	0107	0049	N14	E34	.583	8863	25.6	21	-N							
GRP 6635	23	0127	0148	0131	N16	E33	.579	8863	25.5	21	-B			.61				2 2 2
LOCK	23	0126	0145	0131	N15	E33	.575	8863	25.5	19	-N	C	0131	.80	1.00			20
HALE	23	0128	0150	0130	N17	E33	.584	8863	25.5	22	-B	1 C	0130	.41	.50			
GRP 6636	23	0132	0139	0133	N18	W34	.602	8854	20.5	7	-N			.26				1 1 1
MANI	23	0132E	0139D		N18	W34	.602	8854	20.5	7D	-N	1	0133	.26	.32			
GRP 6637	23	0305	0320	0310	N16	E32	.567	8863	25.5	15	1B			1.07				2 2 2
HALE	23	0304	0320	0311	N18	E31	.565	8863	25.5	16	-B	2 C	0311	.31	.40			
SIBE	23	0306	0320	0310	N16	E32	.567	8863	25.5	14	1N	P	0310	1.82	2.30			94
HALE	23	0310	0326	0310	N15	E33	.575	8863	25.6	16	-B	2 C	0310	.31	.40			
GRP 6638	23	0452	0506	0453	N15	E31	.548	8863	25.5	14	1N			2.81				2 2 1
HALE	23	0450	0501D	0452	N16	E31	.554	8863	25.5	11D	-B	2 P	0452	.31	.40			
SIBE	23	0453	0506	0454	N14	E31	.543	8863	25.5	13	1F	C	0454	2.81	3.40			60
GRP 6639	23	0549	0620	0551	N15	E32	.562	8863	25.6	31	-F			1.38				2 2 2
MANI	23	0548E	0622	0551	N16	E31	.554	8863	25.6	34D	-F	1	0551	1.93	1.11			
SIBE	23	0550E	0617		N14	E32	.557	8863	25.6	27D	-F	C	0550	1.82	1.20			60
GRP 6640	23	0601	0629	0607	N15	E30	.535	8863	25.5	28	-N			.76				CET
ONDR	23	0533E	0621	0603	N15	E28	.508	8863	25.3	48D	-N	V	0603					4 3 2
BUCA	23	0559E	0629D		N15	E31	.548	8863	25.6	30D	-F	C	0610	1.11	1.30		2.10	
CRON	23	0603	0619	0608	N14	E31	.543	8863	25.6	16	-N	C		.40	.50			200
WEND	23	0623E	0647D		N17	E30	.546	8863	25.5	24D	1N	V		3.09				
GRP 6641	23	0725	0747	0731	S25	E52	.840	8867	27.2	22	1N			2.00				2 2 1
CAPS	23	0724	0748		S22	E53	.838	8867	27.3	24	1N	2	0732	2.00	3.40			197
CATA	23	0725	0745	0730	S27	E50	.830	8867	27.1	20	-N	C	0730	.33	.60			191
GRP 6642	23	1015	1045	1030	S24	E49	.811	8867	27.1	30	-N			.75				1 1 1
LOCA	23	1015	1045	1030	S24	E49	.811	8867	27.1	30	-N	V	1030	.75	1.40			
GRP 6643	23	1034	1205	1124	N29	E48	.799	8863	27.0	91	1N			4.18				3 3 3
CAPE	23	1032	1149		N30	E48	.803	8863	27.0	77	3N	P	1122	7.70	12.50			
CAPE	23	1032	1149		N30	E48	.803	8863	27.0	77	2N	P	1130	7.33	11.90			
CAPE	23	1032	1149		N30	E48	.803	8863	27.0	77	2N	P	1125	6.59	10.70			
CANA	23	1035	1205U	1119	N27	E45	.764	8863	26.8	90U	1F	C		2.27	3.40			100
CAPE	23	1115	1133	1121	N16	E30	.541	8863	25.7	18	-N	C	1121	1.53	1.80			
MCMA	23	1130E	1220D		N30	E50	.819	8863	27.2	50D	-N	C	1132	1.03	1.80			
GRP 6644	23	1138	1153	1140	S27	E51	.838	8867	27.3	15	-N			.35				2 2 2
MCMA	23	1138	1150	1140	S25	E50	.823	8867	27.2	12	-N	C	1140	.36	.60			
SALO	23	1140E	1155		S28	E51	.842	8867	27.3	15D	-N	P	1155	.33	.60		1.40	
GRP 6645	23	1219	1249	1223	S25	E49	.815	8867	27.2	30	-N			.44				2 2 2
MCMA	23	1218E	1311	1245	S25	E50	.823	8867	27.3	53D	-N	C	1245	.62	1.10			
MCMA	23	1218E	1311	1225	S25	E50	.823	8867	27.3	53D	-N	C						
HUAN	23	1220	1226	1221	S24	E48	.802	8867	27.1	6	-F	2 C	1221	.25	.32			D
GRP 6646	23	1315	1327	1317	S24	E49	.811	8867	27.2	12	-N			.36				2 2 2
HUAN	23	1314	1321	1316	S23	E48	.798	8867	27.2	7	-F	2 C	1316	.31	.40			D
MCMA	23	1315	1333	1318	S25	E50	.823	8867	27.3	18	-N	C	1318	.41	.70			E
GRP 6647	23	1420	1434	1424	N26	E01	.408	8860	23.7	14	-N			.50				1 1 1
CAPS	23	1420	1434		N26	E01	.408	8860	23.7	14	-N	3	1424	.50	.60			EGJ
GRP 6648	23	1605	1620	1614	N14	E25	.462	8863	25.5	15	-N			1.18				2 2 2
CATA	23	1559	1621	1615	N12	E25	.450	8863	25.5	22	-N			.92	1.00			186
SACP	23	1611	1618	1613	N15	E24	.455	8863	25.5	7	-F	C		1.43	1.45			
GRP 6649	23	1606	1625	1617	S25	E45	.780	8867	27.0	19	-N			.55				2 2 2
CATA	23	1559	1621	1615	S27	E44	.780	8867	27.0	22	-N			.29	.50			182
SACP	23	1613	1628	1618	S23	E45	.771	8867	27.1	15	-F	C		.81	1.03			

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1967 JUNE	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 <sub>g</sub>		MAX. INT. %
GRP 6650	23	1613	1651	1619	N29	W10	.480	8854	22.9	38	-N						5 5 5
SACP	23	1611	1657	1616	N28	W12	.477	8854	22.8	46	-N	C		1.19	1.53		
HUAN	23	1612	1650		N28	W12	.477	8854	22.8	38	-F	2 P	1619	1.13	1.15		E
CATA	23	1615	1630	1621	N30	W08	.486	8854	23.1	15	-N		1621	1.25	1.40		190
MCMA	23	1615	1650	1600	N28	W09	.461	8854	23.0	35	-N	C	1620	.93	1.10		E
LOCK	23	1620E	1710	1620E	N30	W10	.494	8854	22.9	50D	-F	C	1620	1.10	1.30		10
GRP 6651	23	1847	1928	1901	N18	E23	.465	8863	25.5	41	1B			1.94			6 6 5
LOCK	23	1840	1932	1905	N18	E21	.440	8863	25.4	52	1B	C	1905	2.10	2.30		30
HUAN	23	1842	1928	1906	N18	E24	.477	8863	25.6	46	-B	2 C	1906	1.24	1.27		E
HALE	23	1848	1934	1858	N18	E24	.477	8863	25.6	46	-B	3 C	1858	1.08	1.20		EK
MCMA	23	1852	1928	1909	N18	E23	.465	8863	25.5	36	-B		1909	1.13	1.20		EK
MCMA	23	1852	1928	1859	N18	E23	.465	8863	25.5	36	-B	C					
SACP	23	1854	1932	1858	N19	E23	.473	8863	25.5	38	1N	C		3.16	3.24		
HOUS	23	1856E	1913	1859	N18	E24	.477	8863	25.6	17D	1N	C		2.10	2.40		200
HALE	23	1908	1919	1908	N18	E20	.428	8863	25.3	11	-B	3 C	1908	.21	.21		E
GRP 6652	23	1934	1949	1937	N15	E22	.428	8863	25.5	15	-B			.87			6 6 6
SACP	23	1933	1948	1937	N15	E22	.428	8863	25.5	15	-N	C		1.12	1.13		
HOUS	23	1933	1951	1936	N14	E22	.420	8863	25.5	18	-N	C		.80	.90		200
LOCK	23	1933	1952	1936	N14	E23	.434	8863	25.5	19	-B	C	1936	1.00	1.10		E
HALE	23	1934	1950	1937	N14	E23	.434	8863	25.5	16	-B	3 C	1937	.72	.80		30
HUAN	23	1935	1943D	1937	N14	E22	.420	8863	25.5	8D	-N	1 P	1937	.95	.95		E
MCMA	23	1935	1945	1937	N16	E20	.410	8863	25.3	10	-B	C	1937	.62	.70		E
GRP 6653	23	2012	2022	2018	N21	E91	1.000	8871	30.7	10	1N			.92			1 1 1
SACP	23	2012	2022D	2018	N21	E91	1.000	8871	30.7	10D	1N	C		.92			
GRP 6654	23	2035	2049	2040	N19	E21	.450	8863	25.4	14	-F			.49			3 3 3
LOCK	23	2033	2051	2038	N18	E21	.440	8863	25.4	18	-F	C	2038	.90	1.00		10
HALE	23	2035	2048	2042	N19	E22	.461	8863	25.5	13	-N	3 C	2042	.21	.21		
MCMA	23	2037	2048	2040	N19	E20	.438	8863	25.4	11	-F	C	2040	.36	.40		E
GRP 6655	23	2142	2148	2145	N14	E24	.448	8863	25.7	6	-F			.40			1 1 1
LOCK	23	2142	2148	2145	N14	E24	.448	8863	25.7	6	-F	C	2145	.40	.40		10
GRP 6656	23	2217	2227	2219	N16	E28	.514	8863	26.0	10	-N			.31			3 3 3
LOCK	23	2216	2233	2219	N17	E27	.508	8863	26.0	17	-F		2219	.50	.60		10
HALE	23	2218	2224	2218	N17	E25	.482	8863	25.8	6	-B	3 C	2218	.21	.21		
MANI	23	2218	2225	2220	N14	E31	.543	8863	26.3	7	-N	2	2220	.21	.25		
GRP 6657	23	2243	2254	2246	N14	E24	.448	8863	25.7	11	-N			.56			2 2 2
LOCK	23	2241	2255	2245	N14	E24	.448	8863	25.7	14	-F	C	2245	.70	.80		10
HALE	23	2244	2253	2246	N14	E23	.434	8863	25.7	9	-B	3 C	2246	.41	.50		
GRP 6658	23	2346	0026	0016	S22	E36	.676	8867	26.7	40	-F			.30			2 2 2
LOCK	23	2257	2340	2310	S25	E42	.752	8867	27.1	43	-F	C	2310	.50	.80		10
LOCK	23	2340	0030	0015	S25	E42	.752	8867	27.1	50	-F	C	0015	.50	.80		10
HOUS	23	2353	0022	2355	S20	E31	.609	8867	26.3	29	-F	C		.30	.40		100
HOUS	23	2353	0022	0018	S20	E31	.609	8867	26.3	29	-F						
GRP 6659	23	2348	0006	2354	N15	E21	.415	8863	25.6	18	-N			.56			4 4 4
HALE	23	2346	2356D	2353	N14	E20	.393	8863	25.5	10D	-B	3 C	2353	.31	.32		
LOCK	23	2348	0006	2354	N14	E21	.407	8863	25.6	18	-F	C	2354	.60	.70		10
HOUS	23	2349	0006	2352	N14	E21	.407	8863	25.6	17	-N	C		.50	.52		200
MITK	23	2350E	0006D	2358	N16	E20	.410	8863	25.5	16D	-F	C	2358	.83	.90		E
GRP 6660	24	0023	0029	0025	N17	E19	.405	8863	25.4	6	-F			.15			1 1 1
HALE	24	0023	0029	0025	N17	E19	.405	8863	25.4	6	-F	2 C	0025	.15	.20		
GRP 6661	24	0140	0155	0143	N15	E19	.387	8863	25.5	15	-N			.44			3 3 3
LOCK	24	0140	0151	0143	N14	E19	.379	8863	25.5	11	-N	C	0143	.40	.40		20
HALE	24	0140	0205	0142	N15	E18	.374	8863	25.4	25	-N	2 C	0142	.21	.22		
SACP	24	0141	0148	0144	N15	E19	.387	8863	25.5	7	-F	C		.71	.71		
GRP 6662	24	0208	0220	0210	N14	E18	.365	8863	25.4	12	-N			.36			2 2 2
HALE	24	0207	0225	0209	N14	E17	.352	8863	25.4	18	-N	2 C	0209	.41	.42		H
CRON	24	0209	0214	0210	N14	E18	.365	8863	25.4	5	-N	C		.30	.32		200
GRP 6663	24	0302	0335	0322	N18	E20	.427	8863	25.6	33	-N			.47			2 2 2
HALE	24	0247	0339	0322	N19	E19	.425	8863	25.5	52	-B	2 C	0322	.41	.50		H
HALE	24	0315	0337	0317	N16	E22	.435	8863	25.8	22	-B	2 C	0317	.15	.20		
MANI	24	0316	0330	0321	N17	E20	.418	8863	25.6	14	-N	1	0321	.52	.57		
GRP 6664	24	0408	0416	0412	N14	E19	.379	8863	25.6	8	-F			.15			1 1 1
HALE	24	0408	0416	0412	N14	E19	.379	8863	25.6	8	-N	2 C	0412	.15	.20		H
GRP 6665	24	0627	0854	0703	N24	W13	.427	8854	23.3	147	1N			3.21			2 2 2
BUCA	24	0627E	0730D	0702	N22	W11	.385	8854	23.4	63D	-F	P	0702	1.11	1.20		
CAPE	24	0659	0854		N25	W14	.448	8854	23.2	115	2N	P	0703	5.30	5.90		BFI
GRP 6666	24	0712	0732	0719	N19	E17	.403	8863	25.6	20	-F			.56			1 1 1
BUCA	24	0712E	0732D		N19	E17	.403	8863	25.6	20D	-F	C	0719	.56	.60		
GRP 6667	24	0938	0951	0942	N18	E15	.370	8863	25.5	13	-N			.48			5 5 4
CAPE	24	0933	1003	0941	N19	E15	.381	8863	25.5	30	1N	C	0941	3.68	4.00		V
CANA	24	0936	0946	0938	N18	E15	.370	8863	25.5	10	-F	C		.31	.32		100
MEUD	24	0939	0945	0942	N18	E14	.359	8863	25.5	6	-F	C	0942	.31	.32		D
ARCE	24	0940	0950D		N19	E16	.392	8863	25.6	10D	-N	C	0944	.48	.50		D
CAPS	24	0941	0950		N18	E15	.370	8863	25.5	9	-N	3	0943	.80	.90		182







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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. 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 6715	25	1946	2007	1952	N17	E00	.256	8863	25.8	21	-N						5 5 5	
LOCK	25	1945	2010	1951	N17	E01	.257	8863	25.9	25	-F	C	1951	.55	.80		10	
HALE	25	1946	2010	1949	N17	E00	.256	8863	25.8	24	-B	1	C	1949	.41	.42		F
HUAN	25	1947	1957D	1953	N17	E00	.256	8863	25.8	10D	-N	2	C	1953	.45	.45		E
HOUS	25	1947	2002	1953U	N17	W02	.258	8863	25.7	15	-N	C		.70	.72		200	
MCMA	25	1947	2005	1954	N17	E02	.258	8863	26.0	18	-B	C	1954	.41	.42		EL	
GRP 6716	25	2142	2149	2143	N18	W03	.277	8863	25.7	7	-F			.35			3 3 3	
LOCK	25	2141	2150	2143	N18	W03	.277	8863	25.7	9	-F	C	2143	.50	.60		10	
HUAN	25	2142	2146	2143	N18	W03	.277	8863	25.7	4	-F	2	C	2143	.25	.25		D
HALE	25	2142	2152	2143	N17	W04	.265	8863	25.6	10	-N	1	C	2143	.31	.31		
GRP 6717	25	2154	2204	2157	N18	W04	.281	8863	25.6	10	-N			.39			3 3 3	
HUAN	25	2153	2200D		N18	W04	.281	8863	25.6	7D	-F	2	C	2157	.35	.35		E
HOUS	25	2154	2203	2156	N19	W03	.294	8863	25.7	9	-N	C		.40	.42		200	
HALE	25	2155	2204D	2157	N18	W04	.281	8863	25.6	9D	-N	1	P	2157	.41	.42		E
GRP 6718	25	2205	2250	2221	N23	E64	.908	8871	30.7	45	-N			.51			2 2 2	
CULG	25	2200E	2250	2222	N23	E61	.888	8871	30.5	50D	-N	1	P		.62	1.50		H
LOCK	25	2210	2220D	2220	N23	E66	.921	8871	30.9	10D	-F	C	2220	.40	.90		10	
GRP 6719	25	2239	2251	2241	S28	E18	.570	8867	27.3	12	-N			.66			2 2 2	
LOCK	25	2238	2251	2241	S26	E18	.546	8867	27.3	13	-F	C	2241	.70	.80		10	
CULG	25	2240	2250	2240	S30	E18	.594	8867	27.3	10	-N	1	C		.62	.72		V
GRP 6720	25	2317	2336	2324	S28	E18	.570	8867	27.3	19	-N			.66			2 2 2	
CULG	25	2312	2336	2323	S30	E18	.594	8867	27.3	24	-N	1	C		.62	.72		
LOCK	25	2321	2335	2324	S26	E18	.546	8867	27.3	14	-F	C	2324	.70	.80		10	
GRP 6721	25	2339	0002	2344	N19	W02	.291	8863	25.8	23	-N			.66			2 2 2	
LOCK	25	2338	2358	2341	N21	W02	.324	8863	25.8	20	-F	C	2341	.60	.70		10	
CULG	25	2339	0006	2347	N17	W01	.257	8863	25.9	27	-N	C		.72	.70		F	
GRP 6722	26	0048	0054	0051	N15	W04	.230	8863	25.7	6	-F			.30			1 1 1	
LOCK	26	0048	0054	0051	N15	W04	.230	8863	25.7	6	-F	C	0051	.30	.30		10	
GRP 6723	26	0645	0655	0653	N17	W09	.295	8863	25.6	10	-N			.82			2 2 2	
MANI	26	0645	0654	0647	N16	W08	.273	8863	25.7	9	-N	2		.52	.54			
BUCA	26	0645E	0656	0654	N18	W09	.310	8863	25.6	11D	-F	C	0654	1.11	1.20			
MANI	26	0645	0654	0652	N16	W08	.273	8863	25.7	9	-N							
GRP 6724	26	0650	0716	0657	N26	W64	.912	8854	21.5	26	1F			2.22			1 1 1	
BUCA	26	0650E	0716D		N26	W64	.912	8854	21.5	26D	1F	C	0657	2.22	5.10			
GRP 6725	26	1108	1118	1110	N14	W08	.244	8863	25.9	10	-B			.41			1 1 1	
SALO	26	1108E	1118		N14	W08	.244	8863	25.9	10D	-B	V	1110	.41	.42	1.40		
GRP 6726	26	1345	1359	1350	S23	E04	.432	8867	26.9	14	-F			.21			1 1 1	
HUAN	26	1345	1359		S23	E04	.432	8867	26.9	14	-F	2	C	1350	.21	.21		D
GRP 6727	26	1538	1550	1541	N19	W15	.379	8863	25.5	12	-F			.30			1 1 1	
LOCK	26	1538	1550	1541	N19	W15	.379	8863	25.5	12	-F	C	1541	.30	.30		10	
GRP 6728	26	1543	1555	1546	S22	E03	.414	8867	26.9	12	-F			.21			1 1 1	
HUAN	26	1543	1555	1546	S22	E03	.414	8867	26.9	12	-F	2	C	1546	.21	.21		D
GRP 6729	26	1728	1752	1738	S26	W02	.475	8867	26.6	24	-F			.20			1 1 1	
LOCK	26	1728	1752	1738	S26	W02	.475	8867	26.6	24	-F	C	1738	.20	.20		10	
GRP 6730	26	1921	1924	1922	N18	W16	.378	8863	25.6	3	-N			.21			1 1 1	
HALE	26	1921	1924D	1922	N18	W16	.378	8863	25.6	3D	-N	1	P	1922	.21	.21		
GRP 6731	26	1924	1939	1935	N12	W39	.641	8860	23.9	15	-N			.20			1 1 1	
HOUS	26	1924	1939	1935	N12	W39	.641	8860	23.9	15	-N	C		.20	.30		200	
GRP 6732	26	2015	2030	2019	N11	W40	.651	8860	23.8	15	-N			.40			2 2 2	
HOUS	26	2014	2031	2018	N11	W40	.651	8860	23.8	17	-N	C		.30	.40		200	
LOCK	26	2015	2029	2019	N11	W39	.638	8860	23.9	14	-F	C	2019	.50	.70		10	
GRP 6733	26	2038	2045	2040	S25	W01	.459	8867	26.8	7	-N			.38			2 2 2	
LOCK	26	2037	2045	2040	S25	W01	.459	8867	26.8	8	-F	C	2040	.50	.60		10	
MCMA	26	2039	2044	2040	S25	E00	.458	8867	26.9	5	-N	C	2040	.26	.30		D	
GRP 6734	26	2055	2112	2102	S25	E00	.458	8867	26.9	17	-F			.38			2 2 2	
LOCK	26	2053	2112	2102	S25	W01	.459	8867	26.8	19	-F	C	2102	.50	.60		10	
HUAN	26	2057	2111	2101	S25	E01	.459	8867	26.9	14	-F	2	C	2101	.25	.25		D
GRP 6735	26	2111	2119	2114	N23	W24	.517	8863	25.1	8	-N			.44			2 2 2	
HUAN	26	2111	2118	2114	N18	W17	.389	8863	25.6	7	-N	2	C	2114	.37	.37		D
HOUS	26	2111	2120	2113	N28	W30	.622	8863	24.6	9	-N	C		.50	.60		200	
GRP 6736	26	2127	2142	2132	S25	E03	.461	8867	27.1	15	-N			.71			3 3 3	
LOCK	26	2126	2140	2131	S24	E02	.444	8867	27.0	14	-N	C	2131	.80	.90		20	
HUAN	26	2127	2148	2132	S23	E03	.430	8867	27.1	21	-N	2	C	2132	.80	.81		E
CULG	26	2129	2139	2132	S28	E04	.508	8867	27.2	10	-N	1	C		.52	.55		
GRP 6737	26	2206	2217	2209	N19	W18	.411	8863	25.6	11	-F			.30			1 1 1	
LOCK	26	2206	2217	2209	N19	W18	.411	8863	25.6	11	-F	C	2209	.30	.30		10	
GRP 6738	26	2235	2314	2253	N32	W70	.950	8854	21.7	39	-F			.20			1 1 1	
HOUS	26	2235	2314	2253	N32	W70	.950	8854	21.7	39	-F	C		.20	.50		100	
GRP 6739	27	0141	0204	0148	N18	W20	.424	8863	25.6	23	-N			.47			2 2 2	
SACP	27	0140	0155	0149	N18	W20	.424	8863	25.6	15	-N	C		.73	.73			
HALE	27	0142	0213	0147	N18	W20	.424	8863	25.6	31	-N	2	C	0147	.21	.21		H
GRP 6740	27	0153	0215	0201	S26	W04	.480	8867	26.8	22	-N			.27			2 2 2	
SACP	27	0151	0202D	0200	S26	W04	.480	8867	26.8	11D	-F	C		.32	.32			
HALE	27	0155	0215	0201	S26	W04	.480	8867	26.8	20	-N	2	C	0201	.21	.21		



SOLAR FLARES

JUNE 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	MCARTH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg		MAX. INT. %	
GRP 6767	28	0510	0517	0511	N11	W31	.528	8863	25.9	7	-N							1 1 1	
CULO	28	0510	0517	0511	N11	W31	.528	8863	25.9	7	-N	C		.83					
GRP 6768	28	0718	0825	0740	N19	W36	.628	8863	25.6	67	-N			.43				2 2 2	
CAPE	28	0718	0825	0722	N19	W35	.616	8863	25.7	67	-N	C	0722	.41	.50			K	
CAPE	28	0718	0825	0740	N20	W35	.621	8863	25.7	67	-F	C	0740	1.29	1.70			F	
BUCA	28	0728E	0755D		N19	W36	.628	8863	25.6	27D	-N	C	0739	.44	.50			D	
GRP 6769	28	0719	0742	0723	S24	W15	.504	8867	27.2	23	1F			1.37				4 4 4	
CAPE	28	0718	0749	0722	S24	W16	.511	8867	27.1	31	1F	C	0722	1.93	2.20			F	
CANA	28	0720	0736	0722	S24	W15	.504	8867	27.2	16	-N	C		.62	.70			EH	
BUCA	28	0720E	0740D		S24	W15	.504	8867	27.2	20D	1F	C	0725	2.22	2.50			C	
CAPS	28	0721E	0730D		S23	W15	.491	8867	27.2	9D	-F	3	0723	.70	.80			158	
GRP 6770	28	0942	0950	0945	N16	W34	.589	8863	25.9	8	1N			1.13				3 3 3	
SALO	28	0940E	0950D		N13	W33	.563	8863	25.9	10D	1N	V	0945	.66	.80	1.40			
CAPE	28	0943	0946D		N19	W34	.603	8863	25.9	3D	1F	P	0946	2.30	2.80			F	
ARCE	28	0945E	0953D		N17	W36	.619	8863	25.7	8D	-N	C	0945	.42	.50				
CAPE	28	0951	1001		N19	W31	.567	8863	26.1	10	-F	P	0953	1.47	1.80				
GRP 6771	28	0950	1013	0955	N23	E30	.582	8871	30.7	23	1F			1.87				2 2 2	
SALO	28	0950E	1005D		N19	E29	.542	8871	30.6	15D	-F	V	0955	.33	.40	1.20			
KHAR	28	1000E	1020		N26	E31	.615	8871	30.7	20D	1F	V	1010	3.40	4.31	2.10		D	
GRP 6772	28	1002	1048	1009	N17	W36	.619	8863	25.7	46	-N			1.67				5 5 5	
CAPE	28	0953	1058	1006	N18	W36	.623	8863	25.7	65	-B	C	1006	1.33	1.70				
CAPE	28	1001	1022	1003	N17	W39	.655	8863	25.5	21	-N	C	1003	.28	.40				
CAPS	28	1002	1039		N18	W33	.586	8863	25.9	37	-F	3		1.20	1.60			159	
SALO	28	1005E	1024D		N12	W39	.640	8863	25.5	19D	-B	V	1010	.41	.60	1.40			
CATA	28	1007	1045	1015	N20	W35	.621	8863	25.8	38	-B			1.33	1.70			234	
KHAR	28	1008E	1050		N16	W39	.652	8863	25.5	42D	1N	V	1010	4.08	5.20	1.80		EHO	
GRP 6773	28	1052	1117	1056	S19	W62	.903	8858	23.8	25	1F			.92				1 1 1	
CAPE	28	1052	1117	1056	S19	W62	.903	8858	23.8	25	1F	C	1056	.92	2.30				
GRP 6774	28	1102	1144	1113	N21	W34	.614	8863	25.9	42	1N			1.29				2 2 2	
MONT	28	1101	1200	1115	N22	W28	.551	8863	26.4	59	1B	C	1115	2.06					
CAPE	28	1103	1127	1111	N20	W40	.679	8863	25.5	24	-F	C	1111	.52	.70			L	
GRP 6775	28	1259	1319	1302	S23	W19	.523	8867	27.1	20	1F			1.71				2 2 2	
CAPE	28	1258	1327	1302	S23	W20	.532	8867	27.0	29	1F	C	1302	2.62	3.10			F	
HUAN	28	1300	1310	1302	S22	W18	.503	8867	27.2	10	-F	2	C	1302	.80	.84			E
GRP 6776	28	1336	1348	1337	S24	W19	.535	8867	27.1	12	-F			.21				1 1 1	
HUAN	28	1336	1348	1337	S24	W19	.535	8867	27.1	12	-F	2	C	1337	.21	.21			D
GRP 6777	28	1338	1353	1347	S22	W74	.971	8858	23.0	15	-F			.36				1 1 1	
HUAN	28	1338	1353		S22	W74	.971	8858	23.0	15	-F	1	C	1347	.36				D
GRP 6778	28	1428	1438	1429	S22	W75	.975	8858	23.0	10	-F			.25				1 1 1	
HUAN	28	1428	1438	1429	S22	W75	.975	8858	23.0	10	-F	2	C	1429	.25				D
GRP 6779	28	1433	1449	1438	N22	W29	.563	8863	26.4	16	1N			2.06				1 1 1	
MONT	28	1433E	1449D	1438	N22	W29	.563	8863	26.4	16D	1N	C	1438	2.06					
GRP 6780	28	1540	1553	1544	S22	W64	.921	8858	23.9	13	-N			.55				2 2 2	
LOCK	28	1537	1553	1542	S19	W66	.929	8858	23.7	16	-F	C	1542	.50	1.20			10	
CATA	28	1543	1552	1545	S25	W61	.907	8858	24.1	9	-B			.59				204	
GRP 6781	28	1747	1756	1749	N16	W41	.676	8863	25.7	9	-F			.25				1 1 1	
HUAN	28	1747	1756	1749	N16	W41	.676	8863	25.7	9	-F	2	C	1749	.25	.28			DT
GRP 6782	28	1827	1858	1836	N17	W40	.667	8863	25.8	31	-N			.31				1 1 1	
HUAN	28	1827	1858	1836	N17	W40	.667	8863	25.8	31	-N	2	C	1836	.31	.35			D
GRP 6783	28	1840	1915	1858	S24	W30	.635	8867	26.5	35	-F			.50				1 1 1	
LOCK	28	1840	1915	1858	S24	W30	.635	8867	26.5	35	-F	C	1858	.50	.70			10	
GRP 6784	28	2037	2042	2038	N18	W46	.739	8863	25.4	5	-N			.38				2 2 2	
SACP	28	2036	2044	2038	N17	W46	.736	8863	25.4	8	-N	C		.51	.61				
HUAN	28	2037	2040	2038	N18	W46	.739	8863	25.4	3	-F	2	C	2038	.25	.30			D
GRP 6785	28	2047	2057	2051	N16	W48	.756	8863	25.3	10	-F			.40				1 1 1	
LOCK	28	2047	2057	2051	N16	W48	.756	8863	25.3	10	-F	C	2051	.40	.60			10	
GRP 6786	28	2112	2123	2116	N16	W47	.745	8863	25.4	11	-F			.34				3 3 3	
LOCK	28	2107	2122	2114	N16	W48	.756	8863	25.3	15	-F	C	2114	.50	.80			10	
HUAN	28	2112	2120	2115	N16	W47	.745	8863	25.4	8	-F	2	C	2115	.21	.25			D
SACP	28	2116	2128	2118	N16	W46	.734	8863	25.4	12	-F	C		.31	.37				
GRP 6787	28	2133	2142	2135	N18	E85	.995	8876	5.3	9	-F			.40				1 1 1	
SACP	28	2133	2142	2135	N18	E85	.995	8876	5.3	9	-F	C		.40					
GRP 6788	28	2143	2158	2149	S22	W25	.568	8867	27.0	15	-F			.49				3 3 3	
LOCK	28	2122	2140	2125	S24	W27	.606	8867	26.9	18	-F	C	2125	.40	.50			10	
LOCK	28	2132	2155	2145	S21	W27	.579	8867	26.9	23	-F	C	2145	.30	.40			10	
SACP	28	2148	2202U	2152	S23	W24	.568	8867	27.1	14U	-F	C		.92	.98				
HUAN	28	2149	2156	2151	S22	W25	.568	8867	27.0	7	-F	2	C	2151	.25	.27			D
GRP 6789	28	2329	2339	2333	N28	E21	.536	8871	30.6	10	-N			.76				2 2 2	
LOCK	28	2328	2338	2333	N28	E21	.536	8871	30.6	10	-F	C	2333	.70	.80			10	
SACP	28	2329	2340	2332	N27	E20	.516	8871	30.5	11	-N	C		.81	.84				
GRP 6790	28	2356	0013	0003	S20	W82	.993	8858	22.8	17	-F			.50				1 1 1	
LOCK	28	2356	0013	0003	S20	W82	.993	8858	22.8	17	-F	C	0003	.50	1.70			10	



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 H $\alpha$	MAX. INT. %	
					LAT.	MER. DIST.												
GRP 6817	30	0622	0817	0715	N31	W43	.759	8863	27.0	115	-F		1.11				2 1 1	
BUCA	30	0622E	0817D		N32	W47	.798	8863	26.7	115D	-F	C	0715	1.11	1.80			
MANI	30	0750	0800	0753	N30	W38	.709	8863	27.5	10	-F	1	0753	.31	.46			
GRP 6818	30	0733	0758	0738	N21	E66	.918	8876	5.3	25	1N			1.89			2 2 2	
CAPS	30	0733	0750		N21	E65	.912	8876	5.2	17	1F	3	0737	1.00			E	
BUCA	30	0735E	0805D		N21	E66	.918	8876	5.3	30D	1N	C	0738	2.77				
GRP 6819	30	0900	0930	0900	N32	W47	.798	8863	26.9	30	-N			.65			1 1 1	
ARCE	30	0900	0930D	0900	N32	W47	.798	8863	26.9	30D	-N	C	0900	.65	1.10			
GRP 6820	30	0940	0950	0943	N30	W34	.671	8863	27.9	10	-N			1.03			1 1 1	
MONT	30	0940	0950		N30	W34	.671	8863	27.9	10	-N	C	0943	1.03			1 1 1	
GRP 6821	30	1010	1020	1012	N30	W34	.671	8863	27.9	10	-N			1.03			1 1 1	
MONT	30	1010	1020		N30	W34	.671	8863	27.9	10	-N	C	1012	1.03				
GRP 6822	30	1045	1113	1053	S24	W41	.743	8867	27.4	28	-N			1.06			3 3 3	
ZURI	30	1045	1130	1050	S23	W45	.775	8867	27.1	45	-F	P	1050	1.47	2.30			
CAPS	30	1047E	1103		S22	W42	.742	8867	27.3	16D	-N	3	1049	1.20	1.70		170 CJ	
SALO	30	1048E	1105D		S26	W36	.709	8867	27.7	17D	1N	V	1100	.50	.70	1.30		
GRP 6823	30	1144	1200	1149	N33	W47	.802	8863	27.0	16	-N			1.03			5 5 5	
CAPE	30	1142	1203	1147	N32	W50	.822	8863	26.7	21	-B	C	1147	1.01	1.80			
SALO	30	1145E	1153D		N28	W46	.772	8863	27.0	8D	-N	V	1150	.33	.60	1.10		
HUAN	30	1145E	1156		N32	W48	.806	8863	26.9	11D	-N	2	1149	1.00	1.33			
CANA	30	1145	1206	1147	N39	W44	.809	8863	27.2	21	-N	C		.83	1.40		200 TH	
CAPS	30	1149E	1156D		N32	W46	.789	8863	27.0	7D	1N	3	1152	1.50	2.30		171 CJ	
CAPE	30	1154	1222	1157	N15	W65	.907	8863	25.6	28	-N	C	1157	.46	1.10		200 F	
GRP 6824	30	1215	1245	1219	N34	W48	.814	8863	26.9	30	-N			.75			4 4 4	
CAPE	30	1213	1242	1219	N32	W50	.822	8863	26.8	29	-B	C	1219	.60	1.00		V	
CANA	30	1215	1236	1218	N39	W44	.809	8863	27.2	21	-N	C		.83	1.40		200 H	
SACP	30	1216E	1242U	1218	N31	W47	.794	8863	27.0	26U	-N	C		.96	1.24			
HUAN	30	1217	1300	1220	N32	W49	.814	8863	26.8	43	-N	2	C	1220	.62	.82		D
GRP 6825	30	1225	1312	1240	N34	W51	.837	8863	26.7	47	-N			.53			3 2 2	
CATA	30	1216	1254	1245	N35	W49	.826	8863	26.8	38	-N			.44	.80		155 E	
MCMA	30	1234E	1330		N32	W52	.837	8863	26.6	56D	-N	C	1234	.62	1.20			
CAPE	30	1242	1300	1252	N19	W69	.935	8863	25.4	18	-F	C	1252	.46	1.20			
CAPE	30	1301	1304	1302	N18	W70	.941	8863	25.3	3	-N	C	1302	.28	.80			
GRP 6826	30	1234	1345	1240	S23	W47	.794	8867	27.0	71	-N			.93			2 1 1	
MCMA	30	1234E	1345		S24	W47	.798	8867	27.0	71D	-N	C	1240	.93	1.60		E	
HUAN	30	1329	1344		S22	W47	.790	8867	27.0	15	-F	2	C	1334	.36	.47		ET
GRP 6827	30	1408	1429	1413	N19	W71	.946	8863	25.3	21	-N			.71			3 3 3	
CAPE	30	1406	1414D	1411	N20	W70	.941	8863	25.3	8D	1N	P	1411	1.43	4.20			
SACP	30	1407	1434	1414	N18	W70	.941	8863	25.3	27	-N	C		.41	.77			
HOUS	30	1411	1424	1414	N19	W73	.957	8863	25.1	13	-N	C		.30	.80		200 I	
GRP 6828	30	1414	1450	1418	S24	W48	.807	8867	27.0	36	-N			.52			1 1 1	
MCMA	30	1414	1450	1418	S24	W48	.807	8867	27.0	36	-N	C	1418	.52	.90		E	
GRP 6829	30	1500	1525	1510	N17	W73	.956	8863	25.2	25	-N			.32			2 2 2	
SALO	30	1500E	1520D		N16	W63	.893	8863	25.9	20D	-N	V	1510	.33	.70	1.30		
SACP	30	1516	1530	1523	N18	W83	.991	8863	24.4	14	-N	C		.31				
GRP 6830	30	1612	1630	1615	S25	E52	.843	8875	4.6	18	-F			.40			1 1 1	
LOCK	30	1612	1630	1615	S25	E52	.843	8875	4.6	18	-F	C	1615	.40	.70		10	
GRP 6831	30	1744	1803	1748	N21	E57	.851	8876	5.0	19	-N			.20			1 1 1	
HOUS	30	1744	1803	1748	N21	E57	.851	8876	5.0	19	-N	C		.20	.40		200	
GRP 6832	30	2011	2019	2014	S22	W51	.825	8867	27.0	8	-F			.25			1 1 1	
HUAN	30	2011	2019	2014	S22	W51	.825	8867	27.0	8	-F	2	C	2014	.25	.34		D
GRP 6833	30	2105	2128	2115	N33	E37	.719	8876	3.7	23	-F			.50			1 1 1	
LOCK	30	2105	2128	2115	N33	E37	.719	8876	3.7	23	-F	C	2115	.50	.70		10 J	
GRP 6834	30	2109	2120	2114	S15	W40	.687	8867	27.9	11	-N			.31			1 1 1	
HUAN	30	2109	2120	2114	S15	W40	.687	8867	27.9	11	-N	2	C	2114	.31	.36		D
GRP 6835	30	2148	2201	2152	S21	W52	.831	8867	27.0	13	-F			.25			1 1 1	
HUAN	30	2148	2201	2152	S21	W52	.831	8867	27.0	13	-F	2	C	2152	.25	.35		D
GRP 6836	30	2306	2314	2309	N17	W71	.946	8863	25.6	8	-N			.20			1 1 1	
HOUS	30	2306	2314	2309	N17	W71	.946	8863	25.6	8	-N	C		.20	.50		200	
GRP 6837	30	2325	2331	2327	N21	E57	.851	8876	5.3	6	-N			.20			1 1 1	
HOUS	30	2325	2331	2327	N21	E57	.851	8876	5.3	6	-N	C		.20	.40		200	

Remarks

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

- N = Continuous spectrum shows effects of polarization.
- O = Observations have been made in the calcium II lines H or K.
- P = Flare shows helium D<sub>3</sub> in emission.
- Q = Flare shows the Balmer continuum in emission.
- R = Marked asymmetry in H $\alpha$  line.
- S = Brightening follows disappearance of filament.
- T = Region active all day.
- U = Close and somewhat parallel bright filaments.
- V = Occurrence of an explosive phase.
- W = Great increase in area after time of maximum intensity.
- X = Unusually wide H $\alpha$  emission.
- Y = Onset of a system of loop-type prominences.
- Z = Major sunspot umbra covered by flare.