

SOLAR FLARES

SEPTEMBER 1965

OBSERVATORY	OBSERVED UT				LOCATION				DURATION --- MIN.	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.	CENTRAL	GMT	CMP DAY				TIME --- UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc		MAX. INT. %
					LAT.	MER. DIST.	PLAGE REGION										
	1965 SEPT																
MITK	01	0123	0132	0126	N25	W90	7958			1-	C					G	
MITK	01	0255	0307	0258	N25	W90	7958			1-	C					G	
KAND	01	0912	0922		N27	E90	7971			1-							
KAND	01	1053	1112		N30	E90	7971			1-							
KAND	01	1054	1107		N03	W24	7968			1-							
CLMX	01	1315E	1400	1323	N28	E90	7971			1-	C	1323	.20	1.00			
HALE	01	2202E	2232D	2206	N32	W90	7958			1-	2 P	2206	.20				
CLMX	02	0005	0015	0008	N28	E80	7971			1-	C	0008	.20	.54			
OTTA	02	1239	1254D		N04	W42	7968			1-	1 C	1245	.35	.40		H	
OTTA	02	1343E	1355D		N05	W42	7968			1-	1 C	1347	.70	.80		H	
OTTA	02	1511	1523	1513	N23	W44	7961			1-	2 C	1513	.35	.41			
CLMX	02	1512	1515	1513	N26	W43	7961			1-	C	1513	.30	.36			
MCMA	02	1628E	1653	1630	N02	W48	7968			1-	2 P	1630	.30	.40		D	
HUAN	02	1715E	1725		N01	W46	7968			1-	S					D	
CULG	03	0005	0012	0008	N04	W50	7968			1-	C	0008	.40	.60		C	
	03	0630	0645		NO FLARE PATROL												
LOCK	03	1647	1706	1652	N26	E56	7971			1-	C	1652	.30	.50		20	
OTTA	03	1649E	1654D		N27	E62	7971			1-	2 C	1653	.47	.72		F	
MCMA	03	1651	1710	1653	N27	E63	7971			1-	2 C	1656	.50	1.10		E	
MCMA	03	2100	2112D		N27	E61	7971			1-	1 P	2100	.30	.60		D	
CULG	04	0548E	0700	0602	N29	W65	7961			1-	P	0602	.40	.90		EG	
WEND	04	0552E	0723D		N29	W63	7961	91D		1+							
BUCA	04	0609E	0650		N27	W65	7961	41D		1	2			2.50		1.18	
IKOMA	04	0604	0643D	0614	N03	W70	7968			1-	V	0614	.60			D	
MCMA	04	1759E	1814		N27	E49	7971			1-	2 C	1800	.30	.50		E	
MANI	05	0030E	0055	0048	N26	E40	7971			1-	2	0048	.40	.50			
MANI	05	0210	0312	0225	N26	E39	7971			1-	2	0225	.80	.96			
MANI	05	0403E	0425	0407	N26	E39	7971			1-	2	0407	.40	.50			
MANI	05	0433	0443	0436	N26	E38	7971			1-	2	0436	.30	.36			
MANI	05	0455E	0515		N35	E03	7975			1-	2	0456	.25	.26			
MANI	05	0509	0528	0515	N26	E38	7971			1-	2	0515	.50	.60			
CAPS	05	0609E	0616		N26	E06	7975			1-	3	0609	.60	.60		190	
BUCA	05	0630E	0648		N04	W85	7968			1-	2					CGH	
ABST	05	0631	0703	0638	N04	W90	7968			1-						58	
WEND	05	0742E	0756D		N26	E39	7971	32		1	2 C	0638	2.80			D	
KANZ	05	0745E			N26	E38	7971			1-						D	
ABST	05	0810	0829	0814	N26	W41	7971			1-	C	0814	3.10			55	
CATA	05	0810	0830	0820	N27	E40	7971			1-	2 C	0820	.39			132	
CAPS	05	0812	0825		N28	E43	7971			1-	3	0815	.90	1.30		190	
WEND	05	0812	0834		N26	E42	7971		22	1							
KANZ	05	0815E	0850		N26	E40	7971	35D		1+						D	
WEND	05	0836	0851D		N26	E38	7971	15D		1							
KANZ	05	0856E	0918D		N03	W87	7968	22D		1						A	
CATA	05	0940E	1000D	0945	N27	E37	7971			1-	2 C	0945	.19	.26		135	
WEND	05	0941	1013D		N26	E39	7971	32D		1							
KANZ	05	0946E	1010		N26	E37	7971	24D		1						D	
CAPF	05	1014E	1031D	1015	N26	E34	7971			1-	3	1014	1.00	1.22			
CAPF	05	1037E	1038D	1037	N26	E34	7971			1-	3	1037	1.00	1.22			
WEND	05	1202	1242D		N26	E38	7971		40D	1+							
CAPE	05	1209	1228	1213	N27	E37	7971			1-		1213	1.10	1.40			
OTTA	05	1210	1246		N27	E36	7971			1-	1 C	1213	1.06	1.18		F	
CAPS	05	1211E	1222		N26	E37	7971			1-	3	1214	.90	1.20		180	
CAPF	05	1227E	1228D	1227	N26	E35	7971			1-	3	1027	1.50	1.83		CE	
CAPE	05	1334	1347	1340	N27	E37	7971			1-		1340	1.00	1.30			
OTTA	05	1345	1359	1350	N23	W80	7961			1-	1 C	1350	.46	1.12			
MCMA	05	1755	1850	1758	N27	E32	7971			1-	2 C	1758	.20	.30		DH	
MCMA	05	2033	2043	2034	N27	E31	7971			1-	2 C	2034	.30	.40		D	
	06	0140	0220		NO FLARE PATROL												
	06	0235	0245		NO FLARE PATROL												
OTTA	06	1338	1401	1345	N22	E03	7975			1-	2 C	1345	.16	.16			
OTTA	06	1350	1406	1354	N22	E01	7975			1-	2 C	1354	.12	.12			
KANZ	06	1341E			N28	E21	7971			1-							
MCMA	06	1343	1354	1344	N27	E22	7971			1-	3 C	1344	.10	.10		E	
MCMA	06	1358	1405	1359	N27	E18	7971			1-	3 C	1359	.10	.10		D	
MCMA	06	1605	1620	1610	N27	E16	7971			1-	2 C	1610	.40	.40		D	
HALE	06	2107	2119	2112	N25	E12	7971			1-	3 C	2112	.10	.10		E	
HALE	06	2155	2200	2156	N25	E12	7971			1-	3 C	2156	.10	.10		H	
HALE	06	2318	2323	2321	N25	E10	7971			1-	3 C	2321	.10	.10			
HALE	06	2326	2341	2331	N26	E10	7971			1-	3 C	2331	.10	.10		H	
HALE	07	0107	0116	0109	N26	E09	7971			1-	3 C	0109	.10	.10		L	
AROS	07	0728	0731		N26	E08	7971		3	1							
KANZ	07	0955E			N26	E08	7971			1-	V						
CAPE	07	1003	1010	1005	N27	E07	7971			1-						DH	
CAPF	07	1010E	1019D	1011	N26	E08	7971			1-		1005	1.10	1.20			
CAPE	07	1044	1051	1046	N27	E07	7971			1-	2	1010	1.00	1.06			
										1-		1046	1.00	1.10			

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION				CHP DAY	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc		MAX. INT. %
	1965 SEPT																	
KIEV	10	1104	1130		N27	W31		7971		1-	P	1104	5.30	6.60		50	B	
SACP	10	1342	1409	1353	N26	W38		7971		1-	C		1.21	1.37		19		
MCHA	10	1352	1354D		N25	W40		7971		1-	P	1353	.50	.70			S	
CULG	10	2238	2256	2241	N31	W33		7971		1-	C	2241	.20	.26			DT	
LOCK	10	2349	2355	2351	N29	W33		7971		1-	C	2351	.40	.40		10		
CULG	10	2349	2355	2351	N29	W33		7971		1-	C	2355	.40	.50			CT	
HALE	11	0028E	0039D	0034	N23	W38		7971		1-	P	0034	.60	.70				
SACP	11	0031	0040D	0034	N25	W39		7971	9D	1-	C		2.17	2.47		17		
CLNX	11	0033E	0040		N24	W37		7971		1-	C	0033	.30	.33				
CULG	11	0034E	0043D		N25	W38		7971		1-	P	0034	.40	.54			T	
LOCK	11	0045	0103	0055	N40	E75		7983		1-	C	0055	.20	.40		10		
CULG	11	0547	0619	0558	N35	W30		7976		1-	C	0558	1.20	1.50			EFGS	
CULG	11	0634	0714	0641	N24	W43		7971		1-	C	0641	.40	.54			FKT	
MCHA	11	1451E	1505D	1453	N26	W50		7971		1-	C	1453	.20	.30			D	
	12	0615	0620		NO FLARE PATROL													
SACP	12	1937	1948	1941	N21	E06		7981		1-	C		.43	.42		19		
CLNX	12	1938E	1947		N21	E08		7981		1-	C	1940	.40	.40				
CULG	13	2216	2243D	2221	N27	W82		7971		1-	P	2221	.20	.20				
HALE	13	2220	2245		N25	W80		7971		1-	P	2225	.20	.20				
SACP	14	0020	0031	0022	N28	W81		7971		1-	C		.34	.20		17		
HALE	14	0201	0208	0202	N28	W85		7971		1-	C	0202	.20	.20			H	
KANZ	14	0955E	1002D		N29	W88		7971	7D	1-	C						A	
SACP	14	1408	1432	1415	S22	E73				1-	C		.25	.61		17		
SACP	15	1939	1948	1943	N28	E80		7989		1-	C		.19	.46		16		
SACP	15	2002	2011	2006	N31	E77		7989		1-	C		.18	.40		17		
HALE	15	2003	2012	2008	N31	E80		7989		1-	C	2008	.20	.50				
SACP	15	2257	2310D	2305	N28	E78		7989		1-	C		.19	.45		16		
HALE	16	0153	0201	0155	N25	E23		7983		1-	C	0155	.10	.10			H	
HALE	16	0347	0351	0349	N25	E23		7983		1-	C	0349	.10	.10				
CULG	16	0639	0645	0641	N26	E23		7983		1-	C	0641	.40	.46			H	
SACP	16	2056E	2127	2108	N24	E16		7983		1-	P		.08	.08		19		
	16	2250	2255		NO FLARE PATROL													
	17	0000	0015		NO FLARE PATROL													
CULG	17	0707	0720	0714	N25	W33		7990		1-	C	0714	.40	.48			CG	
CULG	17	2110	2129	2115	S22	W26				1-	C	2115	.20	.26			CG	
MCHA	19	1340	1400D	1345	N25	W62		7990		1-	C	1345	.50	1.00			S	
SACP	19	2141	2148	2143	N26	W24		7983		1-	C		.94	.97		17		
HALE	19	2141	2156	2143	N25	W24		7983		1-	C	2143	.40	.40			F	
MCHA	19	2144E	2150D		N26	W25		7983		1-	P	2145	.60	.70			S	
	20	0355	0430		NO FLARE PATROL													
	20	0555	0600		NO FLARE PATROL													
KANZ	20	1347E			N06	E75		7992		1-	C							
MCHA	20	2117	2140	2120	N04	E72		7992		1-	P	2120	.20	.60			D	
HALE	20	2119	2143	2121	N05	E70		7992		1-	C	2121	.20	.40				
SACP	21	0026	0040	0033	N35	E56		7991		1-	C		.35	.50		16		
	21	0430	0435		NO FLARE PATROL													
CAPS	21	1207E	1215		N27	W42		7983	8D	1	1	1209	2.00	2.80		160	BFG	
MCHA	21	1207E	1248D		N26	W43		7983	41D	1+	2	1208	2.00	2.80			BS	
KANZ	21	1325E	1410		N26	W44		7983	45D	1	1						EGH	
MCHA	21	1419	1453	1421	N26	W43		7983		1-	P	1421	.80	1.10			S	
SACP	21	1436	1451	1442	N26	W44		7983		1-	C		1.20	1.44		21		
KANZ	21	1442E	1502D		N26	W44		7983	20D	1							EGH	
	22	0105	0110		NO FLARE PATROL													
	22	1245	1305		NO FLARE PATROL													
LOCK	22	1937	2007	1947	S30	W35				1-	C	1947	.20	.30		10	L	
MANI	23	0335	0351	0339	N28	W15		7995		1-	2	0339	.40	.40				
MANI	23	0355	0405	0356	N28	W15		7995		1-	2	0356	.10	.10				
WEND	23	0540E	0637		N27	W21		7995	57D	1								
ISTA	23	0610E	0635		N28	W22		7995	25D	1+								
MCHA	23	1302E	1335		N26	W28		7995		1-	2	P	1306	.80	1.00			SL
MCHA	23	1540	1620		N26	W28		7995		1-	2	C	1550	.30	.40			DT
HUAN	23	1550E	1602D		N25	W21		7995		1-		S					D	
KANZ	23	1553E	1602		N25	W28		7995	9D	1							EH	
MCHA	23	1830	1910		N26	W28		7995		1-	2	C	1845	.50	.70			L
LOCK	23	2345	0012	2354	N25	W29		7995		1-	C	2354	.30	.30		10		
CULG	23	2351	2400D		N27	W30		7995		1-	P	2400	.40	.48				
	24	0055	0105		NO FLARE PATROL													
MANI	24	0344E	0358D	0347	N29	W28		7995		1-	2	0347	.20	.22				

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _α	MAX. INT. %	
1965 SEPT																		
CULG	24	0355	0426	0410	N26	W32		7995		26	1-	C	0410	+60	+75		LS	
CATA	24	0745	0800	0752	N24	W40		7995			1-	2 C	0752	+19	+25	135		
BUCA	24	0840E	0911D		N26	W37		7995			1-	2			+70			
WEND	24	0858E	0909D		N27	W36		7995			1-							
WROC	24	0900E	0915D		N25	W38		7995			1-	2				2.80	HJ	
KAND	24	0900	0926		N24	W39		7995			1-							
CATA	24	0904	0920	0905	N24	W39		7995			1-	2 C	0905	+35	+45	166		
WEND	24	0924E	0942D		N27	W32		7995		18D	1-							
KAND	24	0926	0936		N25	W36		7995		10	1+					3.10	J	
WROC	24	0927	0937		N25	W32		7995			1-	2						
BUCA	24	0927E	0939		N27	W35		7995			1-	2			+70			
CAPE	24	0927	0940		N27	W35		7995			1-		0928	1.20	1.50			
CATA	24	0934	0945	0932	N25	W34		7995			1-	2 C	0932	+09	+11	135		
KAND	24	0937	1002		N24	W40		7995		25	1+							
KANZ	24	0937E	1003D		N24	W37		7995		26D	1-							
KANZ	24	1040E	1110D		N24	W38		7995		30D	1-							
WROC	24	1040E	1110		N25	W38		7995		30D	1	2				4.00	EH EH HJ D	
HUAN	24	1443E	1451		N28	W39		7995			1-					1.60		
CULG	25	0014E	0025		N38	W52		7995			1-	P	0014	+40	+68		G	
CULG	25	0530	0540	NO FLARE PATROL							1-							
CULG	25	2016E	2034	2024	N28	W61		7995			1-	P	2024	+20	+34			
IKOM	26	0515	0523D		N20	E90		8005			1-	V						
SACP	26	1409	1421	1414	N21	E85		8005			1-	C		1.03		25	D	
LVOV	26	1415E	1435D	1415	N20	E90		8005		20D	2	C						
SACP	26	1457	1511	1504	N21	E84		8005			1-	C		+47		22		
CLMX	26	1457	1516	1503	N19	E89		8005			1-	C	1503	+60	1.62			
CLMX	26	1635E	1654	1640	N19	E90		8005		19D	1-	C	1640	+50	2.50			
HUAN	26	1637E	1649		N19	E85		8005			1-	S				1.40		
HUAN	26	1654	1658		N19	E85		8005			1-	V						
CLMX	26	1654	1701	1656	N19	E82		8005			1-	C	1656	+40	+96		D	
SACP	26	1655	1701	1656	N21	E82		8005			1-	C		+09		18		
HALE	26	1713	1725	1716	N19	E87		8005			1-	2 C	1716	+20				
SACP	26	1714	1719D	1718	N20	E82		8005			1-	C		+28		19		
CLMX	26	1714	1728	1716	N23	E88		8005			1-	C	1716	+30	+81			
HALE	26	1841	1847D	1842	N19	E87		8005			1-	1 P	1842	+10				
CULG	26	1905	1910	NO FLARE PATROL							1-							
CULG	26	2000	2010	NO FLARE PATROL							1-							
LOCK	26	2106	2115	2110	N20	E85		8005			1-	C	2110	+20	+60	20	F	
HALE	26	2143	2151D	2147	N33	W53		7989			1-	2	C	2147	+70	1.00		
CULG	26	2144	2240	2148	N35	W56		7989			1-	C	2148	+80	1.36		DG	
LOCK	27	0005	0021	0012	N17	E85		8005			1-	C	0012	+20	+60	20		
HALE	27	0009	0018	0012	N20	E87		8005			1-	1 C	0012	+30				
MITK	27	0010	0023	0011	N14	E80		8005			1-	C					H	
HALE	27	0053	0059	0055	N20	E87		8005			1-	1 C	0055	+30				
CULG	28	0147	0152	0148	N41	E04		8003			1-	C	0148	+20	+23	17	CG	
SACP	28	1358	1414	1404	N23	E58		8005			1-	C		+25	+36			
MCMA	28	1858E	1906D		N21	E57		8005			1-	1 P	1906	+40	+80		E	
MCMA	28	2016E	2030D		N21	E57		8005			1-	1 P	2019	+40	+80		EH	
MCMA	28	2058	2114D		N21	E58		8005			1-	1 P	2105	+30	+60		D	
IKOM	28	2320	2340D		N20	E50		8005			1-	V						
HALE	29	0210	0236	0213	N21	E53		8005			1-	1 C	0213	+70	+90			
HALE	29	0331	0403D	0334	N21	E53		8005			1-	1 P	0334	+80	1.00			
MANI	29	0344	0354	0347	N19	E49		8005			1-	2		0347	+30	+33		
CAPE	29	1229	1240	1231	N20	E48		8005			1-		1231	1.00	1.50			
WEND	29	1250E	1256D		S29	E46		8004			1-							
WEND	29	1325E	1331D		N17	E50		8005			1-							
MCMA	29	1500	1545	1517	N22	E47		8005			1-	2 C	1517	1.20	1.80		E	
SACP	29	1507	1541	1516	N20	E46		8005			1-	C		1.53	1.83			
SACP	29	1922	1929	1923	N20	E43		8005			1-	C		1.11	1.30	17		
HALE	29	1923	1935	1924	N20	E43		8005			1-	3 C	1924	1.20	1.40	18		
MANI	29	2309E	2343	2318	N18	E36		8005			1-	2		2318	+20	+22		
LOCK	29	2316	2344	2327	N20	E39		8005			1-	C		2327	+50	+50		
HALE	29	2316	2347	2325	N21	E39		8005			1-	2 C		2325	1.60	1.80	20	EJ
SACP	29	2317	2340	2324	N22	E39		8005			1-	C		2325	1.20	1.35	17	F
IKOM	29	2318	2338D		N20	E40		8005		20D	1-	V	2318	2.40	3.10		E	
SACP	29	2346	2351D	2350	N20	E39		8005			1-	P		+52	+58	17		
HALE	29	2350	0016D		N19	E39		8005			1-	1 P	2356	+60	+70			
IKOM	29	2350E	0018D		N20	E40		8005			1-	V	2355	1.20	1.50	1.58	D	
MANI	29	2350	0013	2357	N18	E35		8005			1-	2		+20	+22			
SACP	30	0000	0040D	0010	N21	E40		8005			1-	P		1.03	1.16	17		
MANI	30	0025	0102	0031	N18	E35		8005			1-	2		0031	+40	+44		
HALE	30	0033E	0048D	0038	N21	E40		8005			1-	1 P	0038	1.20	1.30		F	
IKOM	30	0035E	0040D		N20	E42		8005			1-	V					D	
IKOM	30	0100E	0103D		N20	E40		8005			1-	V					D	
IKOM	30	0107E	0115D		N20	E40		8005			1-	V					D	

SOLAR FLARES

SEPTEMBER 1965

OBSERVATORY	DATE SEPT 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	APPROX.		MC-MATH PLACE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hz	MAX. INT. %	
					LAT.	MER. DIST.										
KAND	01	0912	0922		N27	E90	7971		1-							
KAND	01	1053	1112		N30	E90	7971		1-							
KAND	01	1054	1107		N03	W24	7968		1-							
HALE	01	2202 E	2232 D	2206	N32	W90	7958		1-	2 P	2206	.20				
OTTA	02	1239	1254 D		N04	W42	7968		1-	1 C	1245	.35	.40			H
OTTA	02	1343 E	1355 D		N05	W42	7968		1-	1 C	1347	.70	.80			H
OTTA	02	1511	1523	1513	N23	W44	7961		1-	2 C	1513	.35	.41			
MCMA	02	1628 E	1653	1630	N02	W48	7968		1-	2 P	1630	.30	.40			D
HUAN	02	1715 E	1725		N01	W46	7968		1-	S						D
LOCK	03	1647	1706	1652	N26	E56	7971		1-	C	1652	.30	.50			20
OTTA	03	1649 E	1654 D		N27	E62	7971		1-	2 C	1653	.47	.72			F
MCMA	03	1651	1710	1653	N27	E63	7971		1-	2 C	1656	.50	1.10			E
MCMA	03	2100	2112 D		N27	E61	7971		1-	1 P	2100	.30	.60			D
WEND	04	0552 E	0723 D		N29	W63	7961	91 D	1+							
MCMA	04	1759 E	1814		N27	E49	7971		1-	2 C	1800	.30	.50			E
MANI	05	0030 E	0055	0048	N26	E40	7971		1-	2	0048	.40	.50			
MANI	05	0210	0312	0225	N26	E39	7971		1-	2	0225	.80	.96			
MANI	05	0403 E	0425	0407	N26	E39	7971		1-	2	0407	.40	.50			
MANI	05	0433	0443	0436	N26	E38	7971		1-	2	0436	.30	.36			
MANI	05	0455 E	0515	0515	N35	E03	7975		1-	2	0456	.25	.26			
MANI	05	0509	0528	0515	N26	E38	7971		1-	2	0515	.50	.60			
CAPS	05	0609 E	0616		N26	E06	7975		1-	3	0609	.60	.60			190
WEND	05	0742 E	0756 D		N26	E39	7971		1-							CGH
KANZ	05	0745 E			N26	E38	7971		1-							D
CAPS	05	0812	0825		N28	E43	7971		1-	3	0815	.90	1.30			190
WEND	05	0812	0834		N26	E42	7971	22	1							
KANZ	05	0815 E	0850		N26	E40	7971	35 D	1+							D
WEND	05	0836	0851 D		N26	E38	7971	15 D	1							D
KANZ	05	0856 E	0918 D		N03	W87	7968	22 D	1							A
WEND	05	0941	1013 D		N26	E39	7971	32 D	1							
KANZ	05	0946 E	1010		N26	E37	7971	24	1							D
WEND	05	1202	1242 D		N26	E38	7971	40 D	1+							
OTTA	05	1210	1246		N27	E36	7971		1-	1 C	1213	1.06	1.18			F
CAPS	05	1211 E	1222		N26	E37	7971		1-	3	1214	.90	1.20			CE
OTTA	05	1345	1359	1350	N23	W80	7961		1-	1 C	1350	.46	1.12			180
MCMA	05	1755	1850	1758	N27	E32	7971		1-	2 C	1758	.20	.30			DH
MCMA	05	2033	2043	2034	N27	E31	7971		1-	2 C	2034	.30	.40			D
OTTA	06	1338	1401	1345	N22	E03	7975		1-	2 C	1345	.16	.16			
OTTA	06	1350	1406	1354	N22	E01	7975		1-	2 C	1354	.12	.12			
KANZ	06	1341 E			N28	E21	7971		1-							E
MCMA	06	1343	1354	1344	N27	E22	7971		1-	3 C	1344	.10	.10			D
MCMA	06	1358	1405	1359	N27	E18	7971		1-	3 C	1359	.10	.10			D
MCMA	06	1605	1620	1610	N27	E16	7971		1-	2 C	1610	.40	.40			D
HALE	06	2107	2119	2112	N25	E12	7971		1-	3 C	2112	.10	.10			H
HALE	06	2155	2200	2156	N25	E12	7971		1-	3 C	2156	.10	.10			
HALE	06	2318	2323	2321	N25	E10	7971		1-	3 C	2321	.10	.10			

SOLAR FLARES

SEPTEMBER 1965

1111

OBSERVATORY	DATE SEPT 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
HALE	06	2326	2341	2331	N26	E10	7971		1-	3 C	2331	.10	.10			H
HALE	07	0107	0116	0109	N26	E09	7971		1-	3 C	0109	.10	.10			L
KANZ	07	0955	E		N26	E08	7971		1-							DH
OTTA	07	1255		1314	N25	E05	7971		1-	1 C	1312	.59	.59			H
OTTA	07	1611	E	1617	N25	E03	7971		1-	1 C	1614	.53	.53			
SACP	07	1611		1621	N26	E03	7971		1-	C		.47	.47		18	
OTTA	07	1640		1644	N24	E03	7971		1-	1 C	1643	.47	.47			F
SACP	07	1705		1713	N26	E03	7971		1-	C		.30	.30		17	
LOCK	07	1940		2003	N24	W03	7971		1-	C	1950	.20	.20		20	
SACP	07	1942		1957	N26	W03	7971		1-	C		.17	.17		20	
WEND	08	1525	E	1533	N25	W09	7971		1-							
SACP	08	1528		1532	N26	W12	7971		1-	C		.51	.51		20	
SACP	08	1611		1621	N29	W04	7971		1-	C		.78	.78		19	
SACP	08	1942		1957	N26	W10	7971		1-	C		.52	.51		20	
SACP	08	2034		2137	N25	W09	7971	63	1	C		2.68	2.66		21	
LOCK	08	2035		2129	N25	W10	7971		1-	C	2101	1.60	1.60		20	L
HALE	08	2036	E	2133	N24	W09	7971		1-	1 P	2057	.80	.80			F
HALE	08	2055		2145	N22	W08	7971		1-	1 C	2109	.60	.60			F
LOCK	08	2324		2344	N22	W19	7971		1-	C	2328	.20	.20		20	
SACP	08	2325		2351	N23	W20	7971		1-	P		.43	.43		20	
HALE	08	2326		2355	N22	W19	7971		1-	2 C	2329	.20	.20			
HALE	09	0034		0046	N24	W15	7971		1-	1 C	0035	.40	.40			F
HALE	09	0308		0317	N25	W18	7971		1-	1 C	0312	.20	.20			
HALE	09	0407		0411	N25	W18	7971		1-	1 C	0409	.20	.20			
HALE	09	0411		0415	N23	W22	7971		1-	1 P	0414	.20	.20			
MANI	09	0556		0615	N27	W14	7971		1-	2	0603	.40	.40			
WEND	09	0808		0822	N26	W16	7971	14	1							
KANZ	09	0815	E	0845	N26	W17	7971	30 D	1							EH
KANZ	09	0912	E	0923	N26	W18	7971	11 D	1							EH
KANZ	09	0930		0935	N24	W18	7971		1-							DH
OTTA	09	1333		1443	N25	W22	7971		1-	2 C	1406	.58	.59			FH
OTTA	09			1406												
SACP	09	1404	E	1418	N26	W22	7971		1-	C		.69	.70		18	
KANZ	09	1409	E	1416	N24	W22	7971	7 D	1+							DH
SACP	09	1418		1439	N25	W20	7971		1-	C		.60	.61		16	
OTTA	09	1626		1644	N27	W27	7971		1-	1 C	1629	.23	.24			E
SACP	09	1626		1645	N25	W28	7971		1-	C		.43	.45		19	
LOCK	09	1627		1642	N24	W27	7971		1-	C	1632	.40	.40			HL
OTTA	09	1628		1655	N25	W28	7971		1-	1 C	1631	.29	.31		30	
HALE	09	1817	E	1830	N25	W23	7971		1-	2 P	1817	.40	.40			
HALE	09	1838		1921	N25	W24	7971		1-	2 C	1847	.80	.80			L
SACP	09	1837		1857	N26	W25	7971		1-	C		1.38	1.43		18	
SACP	09	1934		1945	N27	W22	7971		1-	C		.25	.26		18	
LOCK	09	2021		2032	N17	W05			1-	C	2026	.10	.10		10	
LOCK	09	2109		2121	N36	E78			1-	C	2115	.20	.50		20	
SACP	09	2112		2148	N26	W26	7971		1-	C		.86	.90		17	
MCMA	09	2132		2146	N25	W22	7971		1-	2 P	2137	.20	.20			D

SOLAR FLARES

SEPTEMBER 1965

OBSERVATORY	DATE SEP 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS	
		START	END	MAX. PHASE	APPROX.		M-CMATH FLARE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH He	MAX. INT. %		
					LAT.	MER. DIST.											
SACP	09	2219	2233	2224	N27	W27	7971		1-	C		.17	.18		18		
SACP	09	2322	2346	2334	N25	W29	7971		1-	C		1.21	1.28		18		
LOCK	09	2324	2341	2330	N25	W30	7971		1-	C	2330	.40	.40		20	H	
SACP	10	0000	E 0111	D 0014	N26	W27	7971	71	D	1	C		2.62	2.75		17	
MANI	10	0215	0231	0220	N25	W26	7971		1-	2	0220	.20	.22				
ISTA	10	0810	E 0820		N27	W30	7971		1-								
KAND	10	0825	0850	0837	N26	W25	7971		1-								
CAPS	10	1058	1114		N25	W30	7971	16	1+	3	1100	2.80	3.30		320	F	
SACP	10	1342	1409	1353	N26	W38	7971		1-	C		1.21	1.37		19		
MCMA	10	1352	1354	D	N25	W40	7971		1-	1 P	1353	.50	.70			S	
LOCK	10	2349	2355	2351	N29	W33	7971		1-	C	2351	.40	.40		10		
HALE	11	0028	E 0039	D 0034	N23	W38	7971		1-	1 P	0034	.60	.70				
SACP	11	0031	0040	D 0034	N25	W39	7971	9	D	1	C		2.17	2.47		17	
LOCK	11	0045	0103	0055	N40	E75	7983		1-	C	0055	.20	.40		10		
MCMA	11	1451	E 1505	D 1453	N26	W50	7971		1-	1 C	1453	.20	.30			D	
SACP	12	1937	1948	1941	N21	E06	7981		1-	C		.43	.42		19		
HALE	13	2220	2245		N25	W80	7971		1-	1 P	2225	.20					
SACP	14	0020	0031	0022	N28	W81	7971		1-	C		.34			17		
HALE	14	0201	0208	0202	N28	W85	7971		1-	1 C	0202	.20				H	
KANZ	14	0955	E 1002	D	N29	W88	7971	7	D	1						A	
SACP	14	1408	1432	1415	S22	E73			1-	C		.25	.61		17		
SACP	15	1939	1948	1943	N28	E80	7989		1-	C		.19	.46		16		
SACP	15	2002	2011	2006	N31	E77	7989		1-	C		.18	.40		17		
HALE	15	2003	2012	2008	N31	E80	7989		1-	2 C	2008	.20	.50				
SACP	15	2257	2310	D 2305	N28	E78	7989		1-	C		.19	.45		16		
HALE	16	0153	0201	0155	N25	E23	7983		1-	2 C	0155	.10	.10			H	
HALE	16	0347	0351	0349	N25	E23	7983		1-	1 C	0349	.10	.10				
SACP	16	2056	E 2127	2108	N24	E16	7983		1-	P		.08	.08		19		
MCMA	19	1340	1400	D 1345	N25	W62	7990		1-	1 C	1345	.50	1.00			S	
SACP	19	2141	2148	2143	N26	W24	7983		1-	C		.94	.97		17		
HALE	19	2141	2156	2143	N25	W24	7983		1-	2 C	2143	.40	.40			F	
MCMA	19	2144	E 2150	D	N26	W25	7983		1-	2 P	2145	.60	.70			S	
KANZ	20	1347	E		N06	E75	7992		1-								
MCMA	20	2117	2140	2120	N04	E72	7992		1-	2 P	2120	.20	.60			D	
HALE	20	2119	2143	2121	N05	E70	7992		1-	2 C	2121	.20	.40				
SACP	21	0026	0040	0033	N35	E56	7991		1-	C		.35	.50		16		
CAPS	21	1207	E 1215		N27	W42	7983	8	D	1	1	1209	2.00	2.80		160	BFG
MCMA	21	1207	E 1248	D	N26	W43	7983	41	D	1+	2 P	1208	2.00	2.80			BS
KANZ	21	1325	E 1410		N26	W44	7983	45	D	1						EGH	
MCMA	21	1419	1453	1421	N26	W43	7983		1-	1 P	1421	.80	1.10			S	
SACP	21	1436	1451	1442	N26	W44	7983		1-	C		1.20	1.44		21		

SOLAR FLARES

P111

SEPTEMBER 1965

OBSERVATORY	DATE SEPT 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME - UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.										
KANZ	21	1442 E	1502 D		N26	W44	7983	20 D	1							EGH
LOCK	22	1937	2007	1947	S30	W35			1-	C	1947	.20	.30			L
MANI	23	0335	0351	0339	N28	W15	7995		1-	2	0339	.40	.40			
MANI	23	0355	0405	0356	N28	W15	7995		1-	2	0356	.10	.10			
WEND	23	0540 E	0637		N27	W21	7995	57 D	1							
ISTA	23	0610 E	0635		N28	W22	7995	25	1+							
MCMA	23	1302 E	1335		N26	W28	7995		1-	2 P	1306	.80	1.00			SL
MCMA	23	1540	1620		N26	W28	7995		1-	2 C	1550	.30	.40			DT
HUAN	23	1550 E	1602 D		N25	W21	7995		1-	S						D
KANZ	23	1553 E	1602		N25	W28	7995	9 D	1							DH
MCMA	23	1830	1910		N26	W28	7995		1-	2 C	1845	.50	.70			EH
LOCK	23	2345	2412	2354	N25	W29	7995		1-	C	2354	.30	.30			L
MANI	24	0344 E	0358 D	0347	N29	W28	7995		1-	2	0347	.20	.22			
WEND	24	0858 E	0909 D		N27	W36	7995		1-							
WROC	24	0900 E	0915 D		N25	W38	7995		1-	2				2.80		HJ
KAND	24	0900	0926		N24	W39	7995	26	1							
WEND	24	0924 E	0942 D		N27	W32	7995	18 D	1							
KAND	24	0926	0936		N25	W36	7995	10	1+							
WROC	24	0927	0937		N25	W32	7995		1-	2				3.10		J
KAND	24	0937	1002		N24	W40	7995	25	1+							
KANZ	24	0937 E	1003 D		N24	W37	7995	26 D	1							EH
KANZ	24	1040 E	1110 D		N24	W38	7995	30 D	1							EH
WROC	24	1040 E	1110		N25	W38	7995	30 D	1	2				4.00		HJ
HUAN	24	1443 E	1451		N28	W39	7995		1-	S				1.60		D
SACP	26	1409	1421	1414	N21	E85	8005		1-	C		1.03				25
SACP	26	1457	1511	1504	N21	E84	8005		1-	C		.47				22
HUAN	26	1637 E	1649		N19	E85	8005		1-	S				1.40		
HUAN	26	1654	1658		N19	E85	8005		1-	V						D
SACP	26	1655	1701	1656	N21	E82	8005		1-	C		.09				18
HALE	26	1713	1725	1716	N19	E87	8005		1-	2 C	1716	.20				
SACP	26	1714	1719 D	1718	N20	E82	8005		1-	C		.28				19
HALE	26	1841	1847 D	1842	N19	E87	8005		1-	1 P	1842	.10				
LOCK	26	2106	2115	2110	N20	E85	8005		1-	C	2110	.20	.60			20
HALE	26	2143	2151 D	2147	N33	W53	7989		1-	2 P	2147	.70	1.00			F
LOCK	27	0005	0021	0012	N17	E85	8005		1-	C	0012	.20	.60			20
HALE	27	0009	0018	0012	N20	E87	8005		1-	1 C	0012	.30				
HALE	27	0053	0059	0055	N20	E87	8005		1-	1 C	0055	.30				
SACP	28	1358	1414	1404	N23	E58	8005		1-	C		.25	.36			17
MCMA	28	1858 E	1906 D		N21	E57	8005		1-	1 P	1906	.40	.80			E
MCMA	28	2016 E	2030 D		N21	E57	8005		1-	1 P	2019	.40	.80			EH
MCMA	28	2058	2114 D		N21	E58	8005		1-	1 P	2105	.30	.60			E
HALE	29	0210	0236	0213	N21	E53	8005		1-	1 C	0213	.70	.90			
HALE	29	0331	0403 D	0334	N21	E53	8005		1-	1 P	0334	.80	1.00			
MANI	29	0344	0354	0347	N19	E49	8005		1-	2	0347	.30	.33			

SOLAR FLARES

SEPTEMBER 1965

OBSERVATORY	DATE 1965	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					REMARKS
		START	END	MAX. PHASE	APPROX.		McMATH FLAGE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH He	MAX. INT. %	
					LAT.	MER. DIST.										
WEND	29	1250 E	1256 D		S29	E46	8004		1-							
WEND	29	1325 E	1331 D		N17	E50	8005		1-							
MCMA	29	1500	1545	1517	N22	E47	8005		1-	2 C	1517	1.20	1.80			E
SACP	29	1507	1541	1516	N20	E46	8005		1-	C		1.53	1.83		17	
SACP	29	1922	1929	1923	N20	E43	8005		1-	C		1.11	1.30		18	
HALE	29	1923	1935	1924	N20	E43	8005		1-	3 C	1924	1.20	1.40			
MANI	29	2309 E	2343	2318	N18	E36	8005		1-	2	2318	.20	.22			
LOCK	29	2316	2344	2327	N20	E39	8005		1-	C	2327	.50	.50		20	EJ
HALE	29	2316	2347	2325	N21	E39	8005		1-	2 C	2325	1.60	1.80			F
SACP	29	2317	2340	2324	N22	E39	8005		1-	C		1.20	1.35		17	
SACP	29	2346	2351 D	2350	N20	E39	8005		1-	P		.52	.58		17	
HALE	29	2350	0016 D		N19	E39	8005		1-	1 P	2356	.60	.70			
MANI	29	2350	0013	2357	N18	E35	8005		1-	2	2357	.20	.22			
SACP	30	0000	0040 D	0010	N21	E40	8005		1-	P		1.03	1.16		17	
MANI	30	0025	0102	0031	N18	E35	8005		1-	2	0031	.40	.44			
HALE	30	0033 E	0048 D	0038	N21	E40	8005		1-	1 P	0038	1.20	1.30			F
HALE	30	0341	0402 D	0353	N20	E33	8005		1-	1 P	0353	.50	.50			
MANI	30	0342	0349 D	0348	N20	E37	8005		1-	2	0348	.50	.56			
MANI	30	0525	0613 D	0540	N19	E36	8005		1-	2	0540	1.10	1.20			
WROC	30	1010	1100 D		N20	E38	8005		1-	1						J
WROC	30	1020	1050		N20	E32	8005		1-	1						J
CAPS	30	1240	1252		N21	E38	8005		1-	3	1243	.20	.30		175	D
SACP	30	1313 E	1504	1351	N21	E32	8005	111 D	2	P		5.26	5.60		25	
OTTA	30	1319	1359		N21	E33	8005	40	1	1 C	1344	2.33	2.52			F
KANZ	30	1320 E	1420		N20	E32	8005	60 D	2							F
CAPS	30	1330	1353		N22	E38	8005	23	1	3	1340	2.60	3.40		180	F
MCMA	30	1353 E	1403 D		N22	E36	8005	10 D	1	1 P	1359	2.20	2.60			BF
KANZ	30	1425 E	1440 D		N21	E34	8005	15 D	1							
OTTA	30	1446	1452	1447	N22	E36	8005		1-	2 C	1447	.70	.75			F
CAPS	30	1446	1504		N22	E38	8005		1-	3	1448	1.00	1.30		182	F
SACP	30	1513	1653	1547	N20	E30	8005	100	2	C		5.11	5.38		25	
KANZ	30	1520 E	1545 D		N20	E29	8005	25 D	1							E
CAPS	30	1525	1610		N19	E34	8005	45	1	3	1555	2.50	3.10		180	FK
LOCK	30	1525 U	1705	1553	N19	E27	8005		1-	C	1553	1.00	1.00		20	I
KANZ	30	1545 E	1615 D		N21	E29	8005	30 D	2							
LOCK	30	1920	2018	1937	N19	E29	8005	58	1	C	1937	2.10	2.10		30	
SACP	30	1921	2203	1939	N21	E30	8005	162	2	C		5.80	6.09		25	
HUAN	30	1924	2007	1936	N21	E31	8005	43	1+	C	1936	3.20	3.47			EFI
HALE	30	1927 E	2023	1940	N20	E29	8005	56 D	1+	2 P	1936	3.20	3.20			
SACP	30	2256	2330	2304	N20	E28	8005		1-	C		1.19	1.24		21	
MANI	30	2257	2311	2307	N18	E26	8005		1-	2	2307	.50	.50			
LOCK	30	2257	2328	2305	N19	E27	8005		1-	C	2305	.70	.70		20	
HALE	30	2301 E	2327		N20	E28	8005		1-	1 P	2304	.80	.80			F