

SOLAR FLARES

FEBRUARY 1957

Observatory	Date Feb. 1957	Time Observed		Dura- tion Min.	Total Area Mill.	McMath Flage Region Number	Approx. Position Lat. Mer. Dist.		Time Max. Phase UT	Max. Int. Arb.	Rel. Area of Max. Tenths	Importance	Provis. Iono- spheric Effect
		Start UT	End UT										
Mitaka	01	0111	0126	15	89	830	N23 W19					1	
Capri-S	01	0955	1053	58	215		S04 E60					1+	
Capri-S	01	1412	1437	25	105	836	N28 E17					1	
{ S.Peak	01	1525	1740	135	480	830	N21 W34	1600	20	3	2	2+ }	
{ Capri-S	01	1532	1555	23	380	830	N20 W32				2+		
Capri-S	03	1533	1602	29	105	838	S19 E18					1	
{ Wendel.	04	1332	1341	09		843	S18 E44					1+	
{ Schaus.	04	b1335		>09		843	S16 E45					1	
Capri-S	06	1152	1220	28	105	838	S18 W14					1	
Capri-S	06	1232	1330	58	135	843	S18 E15					1	
{ S.Peak	06	1600	1830	150	192	843	S20 E16	1742	25	3	2-	2- }	Slow S-SWF
{ McMath	06	1755	1813	18		843	S20 E15				2		
{ Capri-S	07	1146	1216	30	105	844	S24 E52				1	1 }	S-SWF
{ Schaus.	07	1146		20		844	S28 E52				1+	1+ }	
{ Capri-S	07	1515	1534	19	125	838	S20 W36				1	1 }	
{ S.Peak	07	1515	a1530	>15	125	838	S20 W38				1	1 }	
Mitaka	08	0640	0652	12	367	847	S27 E44	0646				1+	
Capri-S	08	0844	0931	47	300	848	N14 E73					1	
Capri-S	08	1051	1115	24	100	844	S26 E39					1	
{ S.Peak	08	1550	1610	20	285	844	S29 E38	1555	25	8	2	2 }	S-SWF
{ McMath	08	1555	1615	20		844	S28 E37				1+	1+ }	
Kanzel	10	b0819		>10		838	S25 W65					2	S-SWF
Mitaka	12	0324	0342	18	135	843	S14 W59	0326				1	
Mitaka	12	0408	0428	20	135	843	S14 W59	0412				1	
Mitaka	13	0044	0110	26		849	S24 E26	0046				2	G-SWF
Mitaka	13	0228	0237	09		849	S24 E26					1	
Mitaka	14	0422	0435	13	123	848	N13 E01	0428				1	
Capri-S	17	1000	1434	274	165	860	S11 W53					1+	
Capri-S	17	1014	1210	116	105	855	S23 E28					1	
Mitaka	20	0306	0311	5		855	S19 W04					1	
S.Peak	21	1605	a2205	>360	1840	856	N20 W33	1930	18	1	*	*	
S.Peak	23	1512	a1530	>18	120	854	N12 W70	1520	15	3	1	1	
Capri-S	25	1327	1331	4	245	859	S23 W79					1+	
Capri-S	25	1412	1452	40	100	863	N19 E06					1	
Mitaka	26	0117	a0150	>33	649	866	N36 E27	0120				2	
Capri-S	26	0921	0934	13	100	859	S34 W67					1	
Capri-S	26	1355	1420	25	205	859	S35 W71					1+	S-SWF
Mitaka	28	0005	0057	52	1020	863	N18 W35	0014				3	Slow S-SWF
{ Capri-S	28	1137	1148	71	135	873	S10 E66					1	
{ Schaus.	28	b1141				873	S10 E70					1	
{ Capri-S	28	1339	1351	12	85	876	S20 E90					1	
Neder.	28	1345		10		876	S22 E85					1	

Subflares noted as follows (Date, time (UT), coordinates):

S. Peak: unmarked Wendel: +++

Capri-S: + Mitaka: *

McMath: ++ Schaus: **

February 01,	0021 (N15,W14)*	February 05,	1219 (S20,W05)+	February 08,	0837 (S11,E06)+
	1945 (N20,W88)		1655 (S22,W10)		1202 (S22,W41)+
	2215 (N19,W88)		1725 (S25,E75)		1500 (S27,E25)
02,	0440 (N13,W25)*		1920 (N17,W05)		1555 (S12,E01)
	0520 (S18,E41)*	06,	1417 (S25,E50)+		1730 (S16,W14)
	1006 (S16,W19)+		b1437 (N16,W16)	09,	1710 (N15,W11)
	1240 (N15,W90)+		1510 (S21,E16)		1830 (N17,W12)
	1900 (S20,E34)		1850 (S28,E47)	10,	b1607 (N12,E38)
	2150 (S13,E68)		2155 (S29,E46)		1640 (S28,E13)
03,	1530 (N08,W21)	07,	0932 (S23,E54)+	11,	0955 (S24,W18)+
	b1833 (N13,W53)		1005 (S24,E53)+		0957 (S16,W47)+
05,	0740 (S21,W06)+++		1500 (N14,E90)		1242 (N15,E22)+
	1029 (S19,E29)+		1500 (S22,E04)		1550 (S14,W53)
	1052 (S20,W03)+		1920 (S22,W40)		1735 (S14,W54)
	1059 (S25,W03)**		2200 (S14,E09)		1905 (N18,E90)

*Area and brightness suggest importance 3+, but slow rise and low integrated brightness makes flare identification uncertain.

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Subflares noted as follows (Date, time (UT), coordinates):

S. Peak: unmarked Wendel: +++
 Capri-S: + Mitaka: *
 McMath: ++ Schaus: **

February 11,	1920 (S25,E12)	February 14,	1715 (N14,E60)	February 25,	1825 (S23,W85)
	2005 (S15,W54)		1850 (S22,E64)		1940 (S23,W85)
12,	0119 (S26,W07)*	15,	0002 (S27,W42)*		2110 (N33,E32)
	0421 (S28,W05)*	17,	1109 (N20,E14)+	26,	0108 (N30,E29)*
	1205 (S14,W61)+	19,	1353 (S23,E01)+		1033 (N32,E25)+
	1345 (S23,W63)+		b1650 (S10,W90)		b1439 (N13,W75)
	b1530 (S14,W66)	20,	b1535 (S21,W16)		1500 (S08,E90)
	b1542 (N19,E80)		b1815 (S22,W14)		1530 (S16,E67)
	1745 (S22,E01)	21,	1455 (N15,W29)		1625 (S23,W90)
	1830 (N18,E68)		1520 (S22,W31)		1920 (S35,W74)
	2015 (S14,W69)		b1540 (S22,W31)		1935 (S08,E90)
	2130 (S15,W72)		1800 (S23,W27)		2015 (S36,W76)
13,	0426 (S28,W17)*	22,	1220 (N18,E61)+		2025 (S18,E64)
	1136 (S13,W71)*	23,	0343 (N14,E30)*	27,	1700 (N16,W32)
	b1537 (N19,E63)		1511 (N15,E25)	28,	0811 (N17,W88)+
	b1537 (S13,W80)		b1615 (N14,W72)		0918 (S10,E69)+
	1540 (N17,E57)+		1625 (N18,E48)		1215 (N32,E01)+
	1700 (S12,W80)	24,	1600 (N31,E46)		b1429 (N22,E27)
	1955 (S30,W30)		1720 (N31,E47)		1500 (N32,E70)
14,	1445 (S21,W26)		1745 (N17,E25)		1510 (S22,E90)
	1515 (S13,W90)		2005 (N31,E42)		1515 (N19,W90)
	1523 (S22,W27)		2205 (S36,W50)		1540 (N22,E24)
	1525 (N14,E13)	25,	1500 (S23,W85)		1600 (N22,E24)
	1600 (S14,W90)		1525 (N31,E35)		1720 (N23,E26)
	1640 (S14,W90)		1620 (S23,W85)		1815 (S21,E90)
	1655 (S21,W27)		1735 (S23,W85)		2300 (S18,E31)*

SOLAR FLARES

JANUARY 1957

Observatory	Date Jan. 1957	Time Observed		Duration	Total Area	McMath Plage Region Number	Approx. Position		Time Max. Phase	Max. Int.	Rel. Area of Max.	Importance	Provis. Ionospheric Effect
		Start UT	End UT				Lat. Mer.	Dist.					
Mitaka	03	0150	0200	10		3813	S21 E81					1	Slow S-SWF
Mitaka	03	0230	0255	25		3808	N18 E03					1	
Mitaka	05	0116	0200	44	592	3808	N17 W31		0116			2	Slow S-SWF
Mitaka	05	0157	0240	43	820	3813	S24 E61		0157			2+	
Mitaka	08	0120	0151	31	367	3808	N15 W69					1	S-SWF
Mitaka	08	0317	0341	24	184	3808	N17 W69		03C9			1+	
Mitaka	19	0226	0239	13	132	3820	S28 W04					1	
Mitaka	21	0012	0023	11	135	3824	S13 E44					1	
Mitaka	22	0247	0302	15	178	3820	S23 W42		0247			1	
Mitaka	22	0315	0332	17	221	3822	S11 W09		0320			1	
Mitaka	22	0412	0440	28	543	3828	N22 E62					1	G-SWF
Mitaka	22	0454	0619	85	552	3823	N15 E05		0459			2	
Mitaka	23	0001	0020	19	420	3823	N16 W09					1	
Mitaka	23	0148	0157	9	184	3823	N18 W16					1+	
Mitaka	23	0156	0219	23	135	3820	S23 W53					1	
Mitaka	23	0156	0219	23	135	3820	S24 W47					1	
Mitaka	23	0207	0219	12	135	3820	S28 W45					1	
Mitaka	23	0235	0252	17	184	3820	S33 W45					1	
Mitaka	24	0156	0228	32	90	3820	S20 W75		(0217)			1	
Mitaka	24	0248	0342	54	920	3823	N14 W25		0250			2+	S-SWF
Mitaka	24	0559	0606	7	275	3823	N20 W27					1	S-SWF
Mitaka	26	0436	0510	34	367	3823	N13 W53					1	G-SWF
Mitaka	26	0537	0552	15	135	3823	N16 W49					1	
Mitaka	26	0537	0557	20	184	3823	N16 W53					1	
Mitaka	27	0446	0502	16	135	3832	N25 E10					1	
Mitaka	27	0530	0542	12	89	3823	N18 W61					1	
Mitaka	28	0010	0025	15	89	3835	N17 E48					1	
Mitaka	28	0411	0432	21		3826	S22 W37		0414			1+	S-SWF