SOLAR FLARES

DECEMBER 1956

Observatory	Date Dec. 1956	Time Observed Start UT	Time Observed End UT	Duration Min.	Total Area Mill.	McMath Plage Region Number	Approx. Position Lat.	Approx. Position Mer. Dist.	Time Max. Phase UT	Max. Int. Arb.	Rel. Area of Max. Tenths	Importance	Provis. Ionospheric Effect
S. Peak	02	1945	2035	50	115	3775	S29	W42	2010	14	2	1	
Capri-S	03	1011	1055	44	146	3776	S16	W28				1+	
Tokyo	04	0524	0544	20		3785	S25	E55				1	
Kanzel.	04	b1028	1033	>5		3785	S25	E45				2	Slow S-SWF
Capri-S	04	1117	1124	7	136	3785	S18	E67				1	
Capri-S	04	1159	1230	31	180	3785	S17	E72				1	
McMath	04	b1435				3785	S20	E65				1	
S. Peak	04	1620	1840	140	475	3780	S11	W12	1625	20	3	2	G-SWF
Tokyo	04	b2319		~20		3779	N25	W15				1	
Tokyo	05	0221	0256	35		3785	S15	E55				1	G-SWF
Tokyo	06	0230	0250	20		3785	S25	E35				1	
Arcetri	06	1402				3785	S22	E42				2	
S. Peak	06	1600	1635	35	295	3785	S16	E35	1607	30	1	2	S-SWF
Tokyo	06	b2311		~10		3785	S15	E55				1	
Capri-S	07	0830	0853	23	180	3779	N24	W62				1+	
Capri-S	07	0902	0924	22	126	3785	S12	E48				1	
Arcetri	07	b1315				3784	N25	E05				1	
Tokyo	08	0214	0224	10			S25	E75				1	
Tokyo	08	b0242		~10		3785	S15	E15				1	S-SWF
S. Peak	08	1730	1755	25	140	3785	S23	E12	1735	20	2	1	S-SWF
Capri-S	09	0839	0845	6	102	3785	S16	E07				1	
Schaus.	09	b1110	1122	>12		3784	N28	W24				1	
Capri-S	09	1452	1513	21	156	3788	S24	E47				1	
Tokyo	09	2336	2346	10		3785	S15	W15				1	
Tokyo	10	0003	0023	20		3788	S25	E45				1	
Tokyo	10	0405	0425	20		3785	S15	W05				1	G-SWF
Tokyo	10	b0648		~10		3785	S25	W25				1	Slow S-SWF
Capri-S	10	0934	1024	50	253	3785	S18	W14				2	S-SWF
Capri-S	10	1207	1304	57	136	3785	S17	W06				1+	
Capri-S	10	1413	1446	33	117	3788	S25	E37				1	
Tokyo	11	b0013		~20		3785	S15	W25				1	
Tokyo	11	b0109		~20		3788	S25	E35				1	
Capri-S	11	1015	1036	21	112	3785	S23	W33				1	
Wendel.	11	1257	1316	19		3785	S21	W10	1302			1+	
Wendel.	11	1316	1351	35		3785	S22	W12	1329			1+	
Capri-S	11	1317	1345	28		3785	S21	W09				1+	
Tokyo	12	b0103		~10		3785	S25	W15				1	
Tokyo	12	0113	0133	20		3784	N35	W55				1	
Wendel.	13	b0845	0920	>35		3788	S23	W02				2-	
S. Peak	13	1925	2015	50	210	3785	S15	W62	1950	16	5	1+	
Capri-S	15	1411	1435	24	102	3788	S22	W39				1	
Capri-S	16	1023	1047	24	102	3788	S24	W46				1	
Kanzel.	16	b1020	1035	>15		3788	S25	W45				2	
Capri-S	16	1310	1318	8	233	3785	S13	W75				1	
Tokyo	17	b0123		~20		3788	S25	W55				1	G-SWF
Tokyo	17	0221	0231	10		3787	N25	W45				1	
Tokyo	17	0453	0553	60		3795	N15	E55				2	
Capri-S	17	0838	1231	233	301	3788	S21	W61				2	
Kanzel.	17	b1015	1030	>15		3788	S25	W55				1	
Capri-S	17	1227	1304	37		3785	S12	W90				2	Slow S-SWF
Capri-S	17	1248	1318	30	209	3788	S21	W63				1+	

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S. Peak	17	1535	1705	90	970	3788	S24	W52	1551	30	6	3	Slow S-SWF
Tokyo	18	b0010		~90		3788	S25	W55				1	
Tokyo	18	b0010		~80		3788	S25	W66				1	
Tokyo	18	0037	0107	30		3795	N15	E45				1	
Tokyo	18	0404	0424	20		3788	S25	W65				1	S-SWF
Capri-S	18	0834	1017	103	437	3788	S23	W69				2+	
Kanzel.	18	0835	0955	80		3788	S25	W65				3	
Wendel.	18	b0836	0900	>24		3788	S24	W67				2	S-SWF
Schaus.	18	b0839				3788	S24	W69				2	
Meudon	18	b0853	0943	>50		3788	S25	W65				2	
Wendel.	18	b0907	1026	>79		3788	S26	W68	0917			2	
Kanzel.	18	0915		≥100		3795	N15	E35				2*	
Schaus.	18	b0916	0926	>10		3787	N28	W58				1	
Capri-S	18	1031	1100	29		3800	S11	E90				1	
Kanzel.	18	1031	1041	10		3800	S15	E85				2	
Capri-S	18	1038	1115	37	102	3795	N16	E36				1	
Wendel.	18	b1041	1108	>27		3795	N17	E42	1051			1	
Kanzel.	18	1043		≥100		3795	N15	E35				2	
Schaus.	18	b1052	1108	>16		3795	N14	E40				1	
Neder.	18	b1100	1130	>30		3800	S35	E90				1	
Capri-S	18	1130	1249	79	262	3788	S26	W72				1+	
Capri-S	18	2045	2127	42		3788	S20	W80				2	G-SWF
Climax	18	2205				3788	S15	W90				2	
Wendel.	19	0745	0833	48		3795	N15	E23	0757			1+	
Kanzel.	19	b0805	0815	>10		3795	N15	E25				2	
Capri-S	19	0840	1143	183	92	3795	N12	E35				1+	S-SWF
Wendel.	19	0856	0930	34		3800	S15	E85				2	
Kanzel.	19	0900	1000	60		3800	S15	E75				2	
Capri-S	19	1452	1517	25	160	3795	N15	E22				1+	Slow S-SWF
McMath	19	1500	1540	40		3795	N15	E20				2+	
Tokyo	20	0001	0101	60		3795	N15	E15				1	G-SWF
Tokyo	20	0232	0402	90		3795	N15	E15				2	
Tokyo	20	0447	0457	10		3795	N15	E15				1	S-SWF
Tokyo	20	b0456		~30		3788	S25	W85				1	
Tokyo	20	b0523		~60		3795	N15	E15				1	
Capri-S	21	1037	1109	32	136	3795	N13	W05				1	
Mt.Wilson	21	b1613		~10		3801	N16	E60				1	Slow S-SWF
Mt.Wilson	21	b1646		~10		3795	N13	W10				1	
S. Peak	23	2015	2120	65	100	3800	S17	E25	2046	18	8	1	G-SWF
S. Peak	24	1555	1645	50	145	3801	N21	E36	1605	16	2	1	
Mitaka	25	0028				3801	N15	E15				1	
Mitaka	25	0053				3795	N15	W55				1	
Mitaka	25	0223				3795	N15	W55				1	
S. Peak	25	2150	a2215	>25	280	3800	S16	W02	a2215	20	4	2	
Mitaka	25	b2320				3800	S15	W05				1	
Mitaka	26	b0507				3800	S15	W05				2	S-SWF
Capri-S	26	1252	1344	52	126	3800	S17	W10				1	S-SWF
Wendel.	26	1252	1351	59		3800	S19	W09	1300			2	
Capri-S	26	1401	1508	67	262	3800	S17	W13				2	S-SWF
Wendel.	26	1404	1442	38		3800	S18	W10	1412			2	

* Capri lists as importance 1-.

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S. Peak	26	b1518	1615	>57	265	3800	S17	W10	b1518	20	1	2	
Mitaka	27	0104				3800	S15	W15				1	
Mitaka	27	b0226				3794	S25	W65				1	Slow S-SWF
Mitaka	27	b0455				3794	S25	W55				1	
Mitaka	27	0524				3794	S25	W55				1	
Capri-S	27	0950	1157	127	136	3807	S18	E69				1	
Wendel.	27	1227	1234	7		3794	S26	W69				1	
S. Peak	27	b1504	1540	>36	130	3801	N13	W24	1510	17	7	1*	
S. Peak	27	1600	1635	35	112	3801	N19	W17	1610	14	5	1	
S. Peak	27	1647	1805	78	270	3800	S16	W29	1710	16	1	2	
Arcetri	28	b0947				3807	S20	E59				1	
Arcetri	28	0948				3808	N18	E66				1	
Capri-S	28	0950	1028	38	151	3808	N17	E65				1	
Mitaka	29	0040	0230	90		3808	N25	E55				1	S-SWF
Mitaka	29	0315	0345	30		3800	S15	W45				1	S-SWF
Mitaka	29	0405	0455	50		3801	N15	W45				1	
Capri-S	29	1458	1510	12	233	3800	S16	W51				1+	Slow S-SWF
S. Peak	29	b1505	1615	70	185	3800	S18	W56	b1505	≥23	2	1	
S. Peak	29	1855	1945	50	110	3808	N20	E55	1901	21	3	1	Slow S-SWF
Mitaka	30	0102	0132	30			N35	E25				1	
Mitaka	30	0240	0310	30			N35	E25				1	
S. Peak	30	1730	1835	65	170	3800	S18	W70	1740	18	8	1	Slow S-SWF

*Capri lists as importance 1-.

Note: November flare list gave Tokyo flares of the 17th out of chronological order. After December 25 Tokyo is designated as Mitaka.

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

S. Peak: unmarked McMath: ++
Capri-S: + Wendel.: +++

December 01, 1855 (S27,E92)
2220 (S15,E73)
02, 1535 (N25,E16)
1645 (S24,E90)
b1450 (S17,E90)
b1915 (S20,E90)
03, 1128 (N23,W18)+
1525 (S18,E90)
1555 (S21,E90)
1625 (N15,W80)
1750 (N36,E86)
2055 (S28,E57)
2140 (S26,E53)
04, 1435 (N17,W60)++
b1458 (N34,E48)
1520 (S10,E67)
1605 (S28,E46)
1750 (S18,E57)
1825 (S15,W53)
1924 (S27,E45)
1940 (S35,E60)
2115 (S26,W67)
05, 0840 (S32,W72)+
1101 (S14,E49)+
1117 (N20,W48)+
1245 (N20,W49)+

December 06, 1800 (S19,W90)
1803 (S18,E51)
2021 (N20,W74)
08, 1250 (S17,E04)+
10, 0840 (S27,E43)+
0930 (S18,E05)+
0934 (N20,W34)+
1123 (S26,E38)+
1154 (S27,E41)+
1154 (S18,E04)+
1228 (N21,W35)+
1346 (S24,W25)+,+++
1353 (S17,W07)+
1505 (S25,E37)+
11, 1004 (S25,E25)+
1334 (S16,W18)+,+++
1555 (S17,W36)
1815 (S23,W15)
1855 (N28,W51)
1915 (S22,W15)
12, 1024 (N18,W61)+
1805 (S26,E14)
2110 (S10,W28)
2125 (N28,W67)
13, 1308 (S24,W02)+
1520 (S15,W60)

December 13, 1630 (S27,W03)
1845 (S15,W45)
2115 (S26,W05)
2150 (S15,W62)
14, 1540 (S22,W72)
1710 (S17,W67)
1743 (S26,W13)
a1820 (S30,W22)
2058 (N25,W30)
15, 1148 (S24,W29)+
1710 (S22,E78)
1740 (S23,W40)
1930 (S23,W40)
16, 1310 (S24,W40)+
1318 (N15,E64)+
1545 (S12,W36)
1700 (S12,W48)
1905 (N23,W03)
17, 0825 (S25,W57)+++
0850 (S25,W57)+++
1140 (N28,W49)+++
1147 (N13,E39)+
1240 (S25,W57)+++
1240 (N15,E53)+
1253 (S11,W90)+
1323 (N33,E63)+

SOLAR FLARES

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

S. Peak:	unmarked	McMath:	++
Capri-S:	+	Wendel.:	+++

December 17,	a1517	(S23,W61)
18,	1100	(S19,E36)+
	1133	(N12,E35)+
	1200	(S26,W69)+++
19,	1236	(N15,E23)+
	2205	(S21,W90)
21,	0824	(N11,W11)+
	1555	(N17,E66)
	1638	(N13,W17)
	1735	(S27,W09)
	1740	(N15,W10)
	1810	(N15,W10)
	1845	(N14,W10)
	2045	(N14,W11)
	2120	(N15,W10)
	2155	(N10,W17)
23,	1520	(N16,W43)
	2105	(N16,E17)
	2120	(N17,W46)
	1630	(N22,E45)
24,	1655	(S27,W39)
	1745	(N13,W56)
	1840	(N13,E17)
	1520	(N16,E25)
	2000	(N14,W54)
25,	1610	(S25,W50)

December 25,	1620	(S42,W35)
	1755	(S28,W48)
	1815	(S16,W01)
	2050	(S23,W35)
	2155	(N16,E10)
26,	b1518	(S29,W62)
	1545	(N19,E90)
	1754	(N18,W04)
	2005	(S23,W53)
	2155	(N14,W17)
	2205	(S23,W54)
27,	1040	(S23,W58)+
	1120	(S20,E72)+++
	1335	(S20,E71)+++
	1620	(S20,E69)
	1700	(S23,W63)
	1705	(S17,E07)
	1820	(S20,E66)
	1855	(S20,E66)
	1900	(S28,W80)
	2130	(S16,W22)
28,	1610	(S19,W43)
	1645	(N18,W42)
	1705	(N18,W37)
	1710	(S22,W38)
	1810	(S21,W40)

December 28,	1940	(S20,E56)
	1950	(N22,E68)
	2005	(N15,E37)
	2050	(N18,W35)
	2110	(N19,W44)
	2115	(N19,E60)
	2150	(S20,E54)
29,	b1505	(N28,E28)
	1635	(N18,W54)
	1705	(N17,W51)
	1740	(N20,E57)
	2125	(N18,W58)
	2150	(N20,E55)
30,	b1507	(N31,E17)
	b1507	(S37,E47)
	1525	(S18,W70)
	1625	(N22,E45)
	1630	(N35,W07)
	1630	(N21,E46)
	1650	(N32,E19)
	1720	(N20,E39)
	1945	(N31,E16)
31,	1555	(N35,W16)
	1605	(N20,E30)
	1820	(N31,E00)
	1920	(N31,E00)
	1940	(N18,E20)