

SOLAR FLARES

OCTOBER 1957

Observatory	Date Oct. 1957	Time Observed		Time Max. Phase UT	Approx. Position Lat. Mer.	McMath Flage Region Dist. Number	Duration Min.	Im- por- tance	Obs. Cond.	Time of Meas. UT	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width Eq.	Max. Int. %	Provis. Iono- spheric Effect
		Start UT	End UT												
MITAKA	01	0404	E 0428	D		N16 W05 4162	24	D	1	1 0413	1.34	1.37	1.92	107	
ATHENS	01	0700	E 0729			S15 W41 4161	29	D	1	4	1.70	2.40			
UCCLE	01	0834	0840			N28 E11 4165	6	1	3	0835		3.80			
UCCLE	01	0844	0922			N17 W08 4162	38	1	3	0854		3.50			
ATHENS	01	0847	0909			N27 E07 4165	22	1	4		2.70	2.80			
UCCLE	01	0850	0903			S16 E20 4166	13	1	3	0900		3.80			
UCCLE	01	0900	0907			N16 W56 4159	7	1	3	0903	2.00	3.00			
UCCLE	01	0910	0916			N26 W87 4158	6	1	3						
UCCLE	01	0911	0917			N27 W58 4159	6	1	3	0913	2.00	3.00			
UCCLE	01	0922	0932			S41 E90 4173	10	1	3						
UCCLE	01	0932	1003			N27 E17 4165	31	16	3	0934	4.00	4.40			
ONDREJOV	01	1340	E 1346			S18 W44 4161	6	D	1	3 1340			2.20		
SAC PEAK	01	1615	1650			N15 W60 4159	35	1	2		2.20			16	
SAC PEAK	01	2105	2122			N27 E12 4165	17	1	2		2.60			15	
MT WILSON	01	2126	2138			S23 E31 4167	12	1							
HAWAII	01	2342	2354			S21 E59 4167	12	1	1	2346	1.10	2.60			
NIZAMIAH	02	0343	E 0405			N11 W49 4159	22	D	1	2 0348	2.43	3.68	1.60		
NIZAMIAH	02	0430	E 0451			S16 E44 4167	21	D	2	0433	2.43	3.69	1.70		
WENDEL	02	0658	E 0725	D		S17 E44 4167	27	D	1			4.00			
WENDEL	02	0704	0715			S29 E55 4167	11	1				3.00			
UCCLE	02	0849	0903			N29 E05 4165	14	2	4	0855		7.60			
ONDREJOV	02	0851	0900			N29 E07 4165	9	1	3	0854			3.30		
ZURICH	02	0851	E 0910			N28 E05 4165	19	D	1	3 0851		3.00			
WENDEL	02	0855	0903			N27 E06 4165	8	1				4.00			
UCCLE	02	1032	1038			S28 E31 4167	6	1	4	1033		3.40			
UCCLE	02	1056	1059			S25 E30 4167	3	1	3	1057		3.20			
UCCLE	02	1059	1110	D		N18 W22 4162	11	D	1	3 1106		3.10			
UCCLE	02	1107	1121			S18 E50 4159	14	2	4	1114		5.80			
WENDEL	02	1143	1159	D		S44 E90 4173		D	1			4.00			
USNRL	02	1220	1242			N14 W72 4159	22	1	1	1230	1.01	3.08		67	
ZURICH	02	1438	E 1447	D		S22 E25 4167	9	D	1	2 1438		3.00			
CAPRI S	02	1439	E 1455	D		S22 E27 4167	16	D	1	2 1440	1.80	2.20			
CAPRI S	02	1520	E 1528	D		N04 W90 4159	8	D	1	1 1526	2.00				
USNRL	02	1746	1822			S37 E66 4173	36	1	2	1756	.90	2.90		63	
MT WILSON	02	1758	1808			N27 W00 4165	10	1							
MITAKA	03	0040	E 0046	D		N16 W75 4159	6	D	1	2 0040	.89	2.85	2.45	120	Slow S-SWF
MITAKA	03	0543	E 0556			S14 E39 4175	13	D	1	2 0543	.89	1.26	3.13	134	
ONDREJOV	03	0625	E 0634			S21 E20 4167	9	D	1	3 0627		4.50			
MITAKA	03	0626	0631			S25 E16 4167	5	1	2	0626	2.78	3.48	1.81	110	G-SWF
MITAKA	03	0626	0635	D		S20 E16 4167	9	D	1	2 0626	3.71	4.45	4.29	125	
ONDREJOV	03	0739	E 0752			S11 E39 4175	13	D	1	3 0743		3.00			S-SWF
AROSA	03	0840	E 0845			S27 E17 4167	5	D	1						
ATHENS	03	0841	0858			S26 E19 4167	17	1			1.90	2.40			
ZURICH	03	1403	1420			S26 E23 4167	17	1	3	1403		2.00			
ZURICH	03	1428	1434			N31 W02 4165	6	1	3	1428		1.00			
MC MATH	03	1536	E 1615	D		S24 E16 4167	39	D	1						
CLIMAX	03	1726	1758			N14 E21 4169	32	1		1731	3.50				
CLIMAX	03	1815	1858			N28 W13 4165	43	1		1826	3.40				
USNRL	03	1816	1912			N27 W14 4165		1	2	1824	1.92	2.08		89	Slow S-SWF
SAC PEAK	03	1830	E 1832	D	1830 E	N27 W13 4165	2	D	1	2	2.20			15	
AROSA	04	0728	E 0736			N29 W13 4165	8	D	1						
ONDREJOV	04	0731	E 0740			N30 W19 4165	9	D	1	3 0733			2.30		
AROSA	04	0802	E 0814			N29 W19 4165	12	D	1						
AROSA	04	0824	0830	D		S13 E18 4175	6	D	1						
ZURICH	04	1033	E 1111	D		N20 E85 4179	38	D	1	2 1033		3.00			
ONDREJOV	04	1340	E 1350	D		S36 W75 4161	10	D	1	2 1345			3.10		
CAPRI S	04	1341	E 1347	D		S32 W78 4161	6	D	1	1 1342	.60	2.80			
ONDREJOV	04	1349	E 1350	D		S26 E01 4167	1	D	1	1 1349			2.10		
UCCLE	04	1415	1433			S14 E21 4175	18	16	2	1418	3.40	3.90			
UCCLE	04	1457	1556	D		N18 E88 4159	59	D	2	2 1509	4.50	9.10			G-SWF
UCCLE	04	1508	1556	D		S43 E45 4173	48	D	1	2 1533	2.80	4.50			
ONDREJOV	04	1512	E 1524			N09 E82 4179	12	D	1	2 1519			2.00		
HUANCAYO	04	1601	E 1635	D		S41 E47 4173	34	D	1	1					
MC MATH	04	1648	E 1655	D		N28 W22 4165	7	D	1						
ONDREJOV	05	0803	0816			S27 W02 4167	13	1	3	0805			2.40		
UCCLE	05	0823	E 0824			S29 W05 4167	1	D	2	2 0823	5.20	5.30			
UCCLE	05	0832	0837			S20 W13 4167	5	1	3	0834		2.10			
ONDREJOV	05	0847	0906			S16 E12 4175	19	1	3	0850			2.60		
WENDEL	05	0901	0916			N19 E84 4179	15	1				4.00			S-SWF

Capri S. = Anacapri (Swedish).
 Krasnya = Krasnaya Pakhra.
 RO Edin = Royal Observatory, Edinburgh.
 RO Herst = Greenwich Royal Observatory, Herstmonceux.
 Sac Peak = Sacramento Peak.
 Schauins = Schauinsland.
 USNRL = United States Naval Research Laboratory.
 Wendel = Wendelstein.

* Rated as importance 1- by other observatory (ies).

Sac Peak: All values in Max. Int. column are arbitrary units (0-40), not percent of continuous spectrum.

E = less than.
 D = greater than.
 U = uncertain.
 F = approximate.
 + = plus.

SOLAR FLARES

IIIb

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Observatory	Date Oct. 1957	Time Observed		Time Max. Phase	Approx. Position Lat. Mer. Dist.	McMath Flage Region Number	Duration Min.	Importance	Obs. Cond.	Time of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width H _g	Max. Int. %	Provis. Iono- spheric Effect
		Start UT	End UT												
SCHAUINS	05	0904	0910		N23 E77	4179	6	2							
ARCETRI	05	0907 E			N22 E79	4179		16	2	0907	1.09	4.50			S-SWF
ONDREJOV	05	1012 E	1018	1013	N19 E76	4179	6 D	1	3	1013			3.30		
ONDREJOV	05	1136 E	1153	1139	N24 W35	4165	17 D	1	3	1139			2.10		
ONDREJOV	05	1215 E	1220		S31 E46	4173	5 D	1	3	1217			2.10		
ONDREJOV	05	1242	1254	1243	S27 W06	4167	12	1	3	1243			2.40		
MT WILSON	05	1759	1802		S16 E02	4175	3	16							
CLIMAX	05	1801	1821	1812	S14 E04	4175	20	1		1812	2.70				
HAWAII	05	2050	2100	2052	S22 W18	4167	10	2	2	2052	6.20	7.50			
HAWAII	05	2140	2214	2142	S14 W03	4175	34	1	2	2142	2.90	3.10			S-SWF
MT WILSON	05	2209 E	2242		S26 W19	4167	33 D	1							
ONDREJOV	06	0753 E	0810		N40 E03	4171	17 D	1	2	0802			2.90		
AROSA	06	1040	1047 D		N13 E17	4172	7 D	1							
AROSA	06	1154	1157		N26 W46	4165	3	1							
AROSA	06	1217	1230		N13 E16	4172	13	1							
AROSA	06	1228	1249		S26 W21	4167	21	1							
CAPRI S	06	1229 E	1240		S25 W26	4167	11 D	1	1	1230	2.60	3.20			S-SWF
WENDEL	06	1231	1251		S26 W24	4167	20 D	16				5.00			
HUANCAYO	06	1615	1651 D	1623	N19 E58	4179	36 D	1	3						
ZURICH	06	1618	1630		N19 E59	4179	12	1	3	1618		3.00			
HUANCAYO	06	1625	1651 D	1645	S23 W24	4167	26 D	1	3						G-SWF
MT WILSON	06	1730 E	1752 D		N24 W56	4165	22 D	1							Slow S-SWF
HUANCAYO	06	2037	2049	2038	S23 W27	4167	12	1	3						
MT WILSON	06	2037	2049		S22 E31	4177	12	1							
UCCLE	07	0843	1050	0848	S39 E04	4173	127	1	2	0848		1.50			
UCCLE	07	0947	0950		N38 W57	4165	3	1	3						
UCCLE	07	0950	1012	0951	N15 E05	4172	22	1	2						
UCCLE	07	1043	1105	1046	N09 E05	4172	22	16	3	1046		5.10			
UCCLE	07	1116	1125	1118	N38 W57	4165	9	16	2	1118	1.60	3.00			
AROSA	07	1338	1353		N09 E71	4180	15	1							
ONDREJOV	07	1341	1345		N09 E70	4180	4	1	2	1342			2.60		Slow S-SWF
ONDREJOV	07	1422 E	1429		N14 E07	4172	7 D	1	3	1424			2.10		
USNRL	07	1454	1507	1455	N11 E80	4180	13	1	2	1455	.45	2.26		62	
MT WILSON	07	2144	2151		S16 W71	4166	7	1							
MITAKA	08	0240 E	0245 D	0242	N14 W02	4172	5 D	2	1	0242	5.67	5.78	2.16	165	Slow S-SWF
ONDREJOV	08	0718	0721		N43 W22	4171	3	1	3	0718			2.10		
ONDREJOV	08	0728	0733	0731	S40 W01	4173	5	1	3	0731			2.70		
UCCLE	08	0909	0925	0910	N19 W14	4172	16	1	3	0910	2.80	2.90			
ONDREJOV	08	0912 E	0916	0913	S17 W12	4176	4 D	1	3	0913			2.30		
AROSA	08	1036	1044		S40 E00	4173	8	1							
UCCLE	08	1037	1043	1039	S38 W05	4173	6	1	2	1039	3.40	4.20			
CAPRI S	08	1049 E	1053 D		N10 E10	4172	4 D	1	1	1049	2.00	2.00			
UCCLE	08	1050 E	1051	1050	N15 E07	4172	1 D	1	2	1050	3.40		3.50		
WENDEL	08	1049	1124		N45 W17	4171	35	16				5.00			
AROSA	08	1054	1124		N41 W24	4171	30	2							
UCCLE	08	1055	1135	1059	N44 W23	4171	40	2	2	1059	5.60	8.40			S-SWF
CAPRI S	08	1056 E	1125 D		N41 W27	4171	29 D	1	1	1105	1.50	2.30			
ONDREJOV	08	1057 E	1112	1059	N41 W23	4171	15 D	2	3	1059			3.00		G-SWF
MT WILSON	08	1619			N07 E57	4180	1	1							
CLIMAX	08	1644	1654	1647	N20 W18	4172	10	1		1647	2.20				
MT WILSON	08	1711	1717		N18 W17	4172	6	1							
MT WILSON	08	1902			N14 W13	4172		1							Slow S-SWF
NIZAMIAH	09	0340	0438	0353	S37 W16	4173	58	16	2	0353	3.65	5.24	2.10		
SYDNEY	09	0345	0450		S42 W10	4173	65	2							
MITAKA	09	0348 E	0500 D	0357	S38 W11	4173	72 D	3	1	0351	16.10	22.20	2.71	227	Slow S-SWF
ONDREJOV	09	0747 E	0755		N13 W20	4172	8 D	1	3	0747			2.60		
ARCETRI	09	0811 E	0830 D		N22 E26	4182	19 D	1	4	0811	3.30	3.70			
1R35TRI	09	0856 E	0859 D		N23 E90	4183	3 D	1	2						
AROSA	09	0943 E	0948		N15 W18	4172	5 D	1							
ONDREJOV	09	0944 E	0948		N12 W16	4172	4 D	1	3	0945			2.70		
ONDREJOV	09	1138	1149	1140	N13 W20	4172	11	16	3	1140			3.70		
ZURICH	09	1141 E	1144 D		N13 W23	4172	3 D	1	3	1141		3.00			
ONDREJOV	09	1315	1322	1319	N26 E36	4182	7	1	3	1319			2.50		
USNRL	09	1359	1425 D	1403	N25 E35	4182	26 D	1	1	1403	1.70	2.25			
USNRL	09	1623	1631	1625	S18 E77	4185	8	1	3	1625	.57	2.49		63	
USNRL	09	1653	1705	1655	N26 E34	4182	12	1	2	1655	2.37	3.01		90	
USNRL	09	1839	1847	1841	S17 E75	4185	8	1	2	1841	.34	1.50		102	
HUANCAYO	09	1925 E	2021 D	1925	N25 E33	4182	56 D	16	3						
HUANCAYO	09	1925 E	2050 D	1945	S16 E74	4185	85 D	16	3						

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		Start UT	End UT												
MT WILSON	09	2008	2017		N14 W29	4172	9	1							
MT WILSON	09	2122			S14 E17	4181		1							
MITAKA	10	0021	0040	0030	N15 W26	4172	19	1	2	0031	2.31	2.54	1.79	110	
MITAKA	10	0437	E 0442		S29 W75	4167	5 D	16	1	0437	3.80	1.22	2.33	120	
WENDEL	10	0855	0914	0859	S23 E60	4185	19	1				4.00			
CAPRI S	10	0857	E 0910 D		S18 E64	4185	13 D	1	3	0859	2.00	4.90			
ARCETRI	10	0859	0904		S19 E65	4185	5 D	1	3	0904	2.10	5.10			S-SWF
ARCETRI	10	0900	E 0918 D		S19 E65	4185	18 D	1	4						
ONDREJOV	10	0901	E 0923		S18 E65	4185	22 D	1	3	0902			3.30		
UCCLE	10	1017	1034	1018	N14 W38	4172	17	1	4	1018	2.30	2.80			
UCCLE	10	1020	E 1025	1021	N25 E22	4182	5 D	1	3	1021	2.40	2.60			
UCCLE	10	1047	1059 D		N25 E22	4182	12 D	1	2						
WENDEL	10	1059	E 1112 D		N22 E25	4182	13	1				3.00			
AROSA	10	1102	1117		N24 E23	4182	15	1							
ONDREJOV	10	1103	1110		N24 E21	4182	7	1	3	1105			2.10		
AROSA	10	1253	1300		N42 W51	4171	7	1							
AROSA	10	1343	1357 D		N42 W51	4171	14 D	1							
USNRL	10	1659	E 1731		N26 E42	4183	32 D	16	1	1702	3.62	4.90			
CLIMAX	10	2254	2310	2257	N23 E17	4182	16	1		2257	4.10				
MITAKA	11	0244	E 0255 D		N11 W47	4172	11 D	1	1	0246	.89	1.05	2.27	96	
AROSA	11	0812	E 0822		S32 E90	4189	10 D	1							
ONDREJOV	11	0814	E 0832		N13 W48	4172	18 D	1	3	0814			2.60		S-SWF
ATHENS	11	0814	0852		N13 W46	4172	38	1	4		1.70	2.30			
AROSA	11	0815	0835		N15 W46	4172	20	1							
WENDEL	11	0815	E 0836		N14 W47	4172	21 D	16				5.00			
AROSA	11	0913	E 0918		S14 W34	4177	5 D	1							
USNRL	11	1420	1510	1428	N43 W62	4171	50	1	2	1428	1.24	3.09		69	
OTTAWA	11	1421			N42 W64	4171		16	1	1428	1.57	4.14			
ONDREJOV	11	1425	E 1432	1427	N42 W60	4171	7 D	1	3	1427			2.40		G-SWF
CAPRI S	11	1426	E 1458 D		N43 W57	4171	32 D	16	3	1426	3.00	7.80			
WENDEL	11	1507	1521		S26 E70	4189	14	1				4.00			
CAPRI S	11	1508	E 1517 D		S20 E69	4189	9 D	16	3	1514	2.00	6.80			
USNRL	11	1508	1522	1510	S25 E68	4189	14	1	3	1510	1.02	3.25		91	
ONDREJOV	11	1515	E 1519	1517	N24 E70	4188	4 D	1	3	1517			2.30		S-SWF
USNRL	11	1630	1652	1632	S16 E52	4185	22	1	2	1632	1.02	1.79		105	Slow S-SWF
USNRL	11	1950	2001 D	1956	S30 E83	4189	11 D	1	2	1956	1.70			59	
ARCETRI	12	0859	E		N12 E63	4172		1	3	0859	2.50	5.50			
NIZAMIAH	12	0903	E 0919	0906	N15 W66	4172	16 D	16	2	0906	2.74	6.64	1.90		S-SWF
CAPRI S	12	0905	E 0925 D		S14 W70	4176	20 D	1	3	0910	2.00	6.80			
UCCLE	12	0927	E 0937	0931	S13 W75	4176	10 D	1	4	0931	2.20	4.40			
UCCLE	12	0927	E 0950	0931	N13 W65	4172	23 D	16	4	0931	3.40	6.00			
ARCETRI	12	1004	E		N12 W63	4172		1	3	1004	1.60	4.20			
UCCLE	12	1013	1100	1015	N07 E47	4186	47	16	2	1015	4.50	5.60			S-SWF
UCCLE	12	1013	1023	1015	S30 E75	4189	10	1	2	1015	2.20	4.00			
UCCLE	12	1030	1047	1034	S30 E75	4189	17	1	4	1034	2.10	4.00			
UCCLE	12	1100	1158	1118	N15 W65	4172	58	1	4	1118	2.20	4.00			
UCCLE	12	1101	1148	1105	N43 W80	4171	47	1	4	1105	2.20	4.50			
UCCLE	12	1115	E 1133 D	1119	S40 W55	4173	17 D	16	4	1119	3.40	6.00			
WENDEL	12	1257	E 1330		S13 W73	4176	33 D	16				6.00			
USNRL	12	1353	1409	1355	S25 E66	4189	16	1	2	1355	.79	2.25	1.50	74	S-SWF
MITAKA	13	0444	E 0449		N24 E22	4183	5 D	1	2	0444	2.53	2.86	1.98	118	
NIZAMIAH	13	0500	E 0521		S25 E59	4189	21 D	16	2		3.34	7.75	2.20		
NIZAMIAH	13	0534	E 0556	0539	N13 E41	4186	22 D	26	2	0539	4.25	5.62	2.50		S-SWF
MITAKA	13	0536	0641	0540	N11 E41	4186	5	26	2	0540	17.00	23.10	2.53	169	
MITAKA	13	0559	E 0631		S25 E57	4189	32 D	16	2	0559	3.80	8.30	2.68		
MITAKA	13	0647	E 0659 D		S25 E57	4189	12 D	16	1	0647	2.78	6.06	2.32		
ATHENS	13	0732	0825		N11 W74	4172	53	2	4		1.60	5.30			
UCCLE	13	0829	E 1202 D	1150	S31 E58	4189	213 D	2		1150	3.00	5.30			
UCCLE	13	0901	0910	0904	S07 E42	4189	9	1	3	0904	2.20	2.70			
UCCLE	13	0926	0931	0927	S18 E25	4185	5	1	3	0927		2.70			
WENDEL	13	0929	1003		S23 E56	4189	34	1				4.00			
UCCLE	13	0949	0953	0950	S17 E22	4185	4	1	3	0950		3.60			
UCCLE	13	1016	1018		N45 W90	4171	2	1	3						
UCCLE	13	1018	1025	1021	S24 E65	4189	7	16	3	1021	2.50	4.80			
UCCLE	13	1034	1039	1035	S24 E65	4189	5	1	3						
UCCLE	13	1121	1151 D	1135	S16 E24	4185	30	16	2						
WENDEL	13	1244	1327		N21 E30	4188	43	2				11.00			
USNRL	13	1244	1338	1248	N20 E31	4188	54	16	1	1248	3.62	4.35		79	
ONDREJOV	13	1246	E 1314	1248	N20 E31	4188	28 D	16	3	1248			2.70		

SOLAR FLARES

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III d

Observatory	Date Oct. 1957	Time Observed Start End UT UT	Time Max. Phase UT	Approx. Position Lat. Mer. Dist.	McMath Plage Region Number	Duration Min.	Importance	Obs. Cond.	Time of Meas. UT	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width H _g	Max. Int. %	Prova. Iono- spheric Effect
CAPRI S	13	1247 E 1320 D			N20 E31 4188	33 D	16	3	1257	4.50	5.40			
OTTAWA	13	1300 E 1335			N20 E30 4188	35 D	16	1	1301	3.36	3.97			
WENDEL	13	1323 E 1354 D			S23 E52 4189	31 D	16				6.00			
USNRL	13	1411 1420	1413		N11 W82 4172	9	1	1	1413	.68	3.42		56	
WENDEL	13	1444 1501			N27 E59 4188	17	1				4.00			
OTTAWA	13	1444 1459	1447		N30 E55 4188	15	1	2	1447	1.62	3.04			
USNRL	13	1445 1503	1447		N28 E57 4188	18	1	1	1448	1.13	2.14		84	
ONDREJOV	13	1447 E 1457	1448		N27 E54 4188	10 D	16	3	1448			3.70		
CLIMAX	13	1446 E 1511			S25 E54 4189	25 D	1		1446	2.50				
WENDEL	13	1523 1547 D			S27 E51 4189	24 D	16				5.00			
USNRL	13	1524 1600 D	1532		S26 E50 4189	36 D	16	1	1532	2.37	4.51		111	S-SWF
SYDNEY	13	2240 E 0045	2245		N10 E35 4186	125 D	2							
MITAKA	14	0602 E 0627			N26 E17 4183	25 D	1	1	0602	2.53	2.83	1.97	107	
UCCLE	14	0904 1130	1040		S24 E58 4189	146	1							
UCCLE	14	0921 0926 D	0922		S25 E50 4189	5 D	1	3	0922	1.60	3.40			
ARCETRI	14	0946 E 1018 D			N41 W90 4171	32 D	2	3						
USNRL	14	1158 1317	1212		N41 W90 4171	79	2	2	1212	2.15		2.00	35	S-SWF
USNRL	14	1158 E 1239	1200		S24 E42 4189	41 D	1	2	1200	1.24	2.00		80	
USNRL	14	1218 1237	1225		S18 W85 4177	15	16	1	1225	2.15		1.00	48	
WENDEL	14	1219 E 1242 D			S17 W85 4177	23 D	1				4.00			
WENDEL	14	1303 1321 D			S26 E38 4189	18 D	16				6.00			
USNRL	14	1305 1329	1309		S28 E39 4189	24	1	2	1309	1.92	2.95		74	S-SWF
CAPRI S	14	1319 1335			N38 W90 4171	16	16	3	1328	2.50				Slow S-SWF
NEDERHORST	14	1320 E 1355			N50 W90 4171	35 D	2							
WENDEL	14	1451 1514			S19 E13 4185	23	1				3.00			
WENDEL	14	1521 E 1548 D			S26 E37 4189	27 D	1				3.00			
HUANCAYO	14	1532 1548	1534		S19 E13 4185	16	1	2						
HUANCAYO	14	1606 E 1613	1606		S28 E41 4189	7 D	1	2						
USNRL	14	1850 1940	1852		N20 E13 4188	50	16	2	1852	3.74	3.94		100	
MITAKA	15	0241 E 0306	0254		S23 E39 4189	25 D	16	1	0254	8.13	1.27	2.26	128	Slow S-SWF
NIZAMIAH	15	0252 E 0319			S24 E37 4189	27 D	1	2	0252	2.13	3.10	1.50		
MITAKA	15	0501 0529	0508		N08 E15 4186	28	1	1	0503	4.70	4.98	1.77	110	
WENDEL	15	0748 E 0808 D			S26 E31 4189	20 D	1				3.00			
WENDEL	15	1013 1028			N10 E15 4186	15	1				4.00			
WENDEL	15	1328 1406 D			N09 E04 4186	38 D	16				6.00			
OTTAWA	15	1331 1355	1332		S20 E31 4189	24	1	3	1332	1.86	2.43			
WENDEL	15	1331 1355			S21 E29 4189	24	1				4.00			
OTTAWA	15	1335			N09 E18 4186		16	3	1340	2.78	2.95			
USNRL	15	1336 1442	1343		N09 E18 4186	66	16	1	1343	3.28	3.44		99	
WENDEL	15	1512 1540			S26 W40 4187	28	1				3.00			
USNRL	15	1513 1549	1517		S26 W41 4187	36	1	2	1517	1.81	2.87		71	
USNRL	15	1529 1741	1537		N09 E15 4186	12	1	1	1537	3.28	3.42	1.00	78	
USNRL	15	1819 1843	1821		S26 E33 4189	24	1	1	1821	1.58	2.22		72	
MITAKA	16	0045 0057 D			N23 E04 4188	12 D	1	1	0045	3.28	3.41	2.35	122	Slow S-SWF
MITAKA	16	0051 E 0058 D	0051		S25 E21 4189	7 D	1	1	0051	1.84	2.36	5.38	128	
MITAKA	16	0144 0155			N22 W56 4179	11	1	2	0144	2.78	4.73	2.04	91	S-SWF
MITAKA	16	0152 0202	0152		S25 E21 4189	10	3	2	0153	11.40	14.60	9.43	315	S-SWF
TASHKENT	16	0415 E 0500	0424		S27 E22 4189	45 D	2							
MITAKA	16	0416 0445			S25 E19 4189	29	3	1	0424	24.90	31.90	6.32	183	
NIZAMIAH	16	0423 E			S26 E22 4189		1	1	0423	2.13	2.70	1.50		
NIZAMIAH	16	0529 E 0530 D			S26 E22 4189	1 D	1	1	0529	1.82	2.32	1.60		Slow S-SWF
MITAKA	16	0529 E 0537 D			S25 E19 4189	8 D	2	1	0529	11.40	14.60		128	S-SWF
MITAKA	16	0655 E 0702 D			S22 E13 4189	7 D	1	1	0700	.89	1.06	2.23	107	
UCCLE	16	1050 1124	1108		S26 E14 4189	34	1	4	1108	2.20	2.50			
UCCLE	16	1059 1109	1059		N29 W39 4182	10	16	4	1059	3.40	4.70			
UCCLE	16	1120 1138	1126		S22 E25 4189	18	1	4	1126	3.50	4.20			
UCCLE	16	1145 1202 D	1150		S14 W22 4185	17 D	16	4	1150	3.50	4.30			
ZURICH	16	1147 1210			S15 W20 4185	23	1	2	1147		2.00			
MT WILSON	16	1458			S17 E23 4189		1							
HUANCAYO	16	1544 1658 D	1600		S27 E25 4189	14 D	1	2						
USNRL	16	1637 1741 D	1649		S26 E22 4189	64 D	1	2	1649	1.59	2.04	1.00	74	
ZURICH	17	1323 1329	1324		N24 W75 4182	6	1	3	1324		2.00			
CAPRI S	17	1352 1405			S23 E05 4189	13	1	3	1354	1.80	2.00			
ZURICH	17	1353 1411	1355		S24 E08 4189	18	1	2	1355		3.00			
SAC PEAK	17	1415 1432 D	1432 U		S24 E06 4189	17 D	1	2		2.50				
CAPRI S	17	1416 E 1523 D			S22 E05 4189	67 D	16	3	1448	4.00	4.50		18	Slow S-SWF
ARCETRI	17	1430 E 1513			S24 E08 4189	43 D	16	3	1439	3.30	3.90			
ZURICH	17	1435 E 1454 D			S24 E08 4189	19 D	1	1	1435		6.00			
CAPRI S	18	0816 E 0910 D			S25 W07 4189	54	1	3	0821	2.00	2.20			S-SWF

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Observatory	Date Oct. 1957	Time Observed Start UT End UT	Time Max. Phase UT	Approx. Position Lat. Mer. Dist.	MMath Region Number	Duration Min.	Importance	Obs. Cond.	Time of Meas. UT	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width H α	Max. Int. %	Provis. Iono-spheric Effect
CAPRI S	18	1520 E 1557 D		S26 W09	4189	37 D	1	3	1535	1.80	2.00			G-SWF
SAC PEAK	18	1857 1922	1905	S26 W16	4189	25	1	2		2.60			17	G-SWF
MITAKA	18	2245 2305		S31 W10	4189	20	1	2	2245	.89	1.12	1.52	125	
MITAKA	18	2245 2313		S23 W23	4189	28	1	2	2245	2.78	3.42	1.65	128	
MITAKA	18	2302 2308		N23 W69	4183	6	16	1	2302	5.67	15.30	2.23	96	
MITAKA	18	2336 E 2342	2336	N23 W70	4183	6 D	16	1	2336	1.34	3.62	2.27	196	
MITAKA	19	0007 0016 D		N23 W70	4183	9 D	1	1	0009	3.80	1.02	2.40	102	
MITAKA	19	0012 E 0017	0012	S23 W24	4189	5 D	16	1	0014	7.57	9.16	3.27	149	
MITAKA	19	0118 0205	0130	S25 W23	4189	47	16	1	0157	3.80	4.67	2.52	165	Slow S-SWF
MITAKA	19	0118 0148	0130	S28 W19	4189	30	16	1	0131	3.80	4.78	2.75	165	
MITAKA	19	0406 E 0415	0410	S28 W20	4189	9 D	1	1	0406	2.31	2.91	3.27	146	S-SWF
ONDREJOV	19	0613 E 0654		S27 W21	4189	41 D	2	3	0616			2.70		Slow S-SWF
CAPRI S	19	0641 E 0807 D		S26 W27	4189	86 D	2	3	0653	10.00	13.00			
TASHKENT	19	0648 E 0754		S23 W26	4189	66 D	2							
WENDEL	19	0700 E 0754		S23 W23	4189	54 D	3							
ONDREJOV	19	0721 E 0726		S26 W24	4189	5 D	1	3	0723			2.30		
ONDREJOV	19	0725 0729	0727	S23 W24	4189	4	1	3	0727			3.10		
CAPRI S	19	0757 E 0916 D		N22 E88	4197	79 D	1	3	0806	.50	3.00			S-SWF
ONDREJOV	19	0830 E 0839		S26 W19	4189	9 D	1	1	0831			2.30		S-SWF
CAPRI S	19	1019 E 1027 D		S24 W28	4189	8 D	1	3	1023	1.80	2.30			
CAPRI S	19	1035 E 1155 D		S23 W18	4189	80 D	1	3	1055	2.50	2.90			Slow S-SWF
ONDREJOV	19	1126 E 1141		N12 W83	4180	15 D	16	3	1127			3.60		G-SWF
USNRL	19	1258 1400	1302	S24 W28	4189	62	16	2	1302	3.50	4.56		100	Slow S-SWF
HUANCAYO	19	1633 E 1652 D	1633	N22 W81	4183	19 D	1	2						G-SWF
MT WILSON	19	1916 2006		S25 W20	4189	50	2							S-SWF
MC MATH	19	1918 E 1945		S25 W21	4189	27 D	26							
UCCLE	20	0905 E 0913		N24 W87	4183	8 D	1	4						
UCCLE	20	0911 0917	0913	S22 W51	4189	6	1	4	0913	1.60	2.40			
UCCLE	20	0921 0934 D	0929	N21 E80	4197	13 D	1	3						S-SWF
UCCLE	20	0920 0928	0925	S22 W31	4189	8	16	4	0925	3.30	4.10			
CAPRI S	20	0926 E 0930 D		S23 W32	4189	4 D	1	3	0928	2.00	2.60			
UCCLE	20	0939 1120 D	0941	S27 W32	4189	101 D	2	4	0941	7.40	9.20			S-SWF
CAPRI S	20	0940 E 1032 D		S28 W30	4189	52 D	1	2	1006	3.30	4.30			
CAPRI S	20	0940 E 1032 D		S28 W30	4189	52 D	1	2	1006	3.30	4.30			
KRASNAYA	20	0942 E 1002		S27 W35	4189	20 D	2							
UCCLE	20	1004 1016	1006	S26 W40	4189	12	1	4	1006	1.70	2.20			
UCCLE	20	1024 1135 D	1045	N21 E80	4197	11	1	3						
UCCLE	20	1144 1149	1146	N20 E75	4197	5	16	4	1146	2.00	4.00			
USNRL	20	1425 1453	1429	N12 W63	4186	28	2	2	1429	3.62	7.50		85	
MC MATH	20	1637 1715	1642	S25 W45	4189	38	36							
MC MATH	20	1644 1804 D	1651	S26 W35	4189	80 D	36							S-SWF
SAC PEAK	20	1700 E 1712 D	1700 E	S29 W36	4189	12 D	3	2		21.30			30	
MITAKA	21	0447 0459 D	0452	S23 W38	4189	12 D	1	1	0447	1.34	1.98	1.52	115	
USNRL	21	1212 1300	1218	S26 W54	4189	48	16	3	1218	2.14	4.20	2.00	113	S-SWF
OTTAWA	21	1233 E		S26 W52	4189		16	1	1241	2.44	4.87			
USNRL	21	1301 1314	1302	S28 W50	4189	13	1	2	1302	1.13	2.22		123	
USNRL	21	1610 1622	1615	S13 E85	4203	12	1	2	1615	.45	5.20		70	Slow S-SWF
USNRL	21	1850 1900 D	1853	N21 E57	4197	10 D	1	2	1853	.56	1.04		117	
MITAKA	22	0406 E 0429	0417	S26 W66	4189	23 D	16	1	0406	2.53	6.32	2.52	152	Slow S-SWF
MITAKA	22	0412 E 0416		S19 W52	4189	4 D	1	1	0412	1.86	3.07	2.10	100	
MITAKA	22	0503 E 0522		S23 W60	4189	19 D	16	1	0503	3.80	7.60	2.58	120	Slow S-SWF
ONDREJOV	22	0752 E 0805		N25 W05	4194	13 D	1	2	0755			2.60		
ONDREJOV	22	0752 E 0807		N26 W55	4188	15 D	16	2	0754			4.50		
UCCLE	22	1022 E	1222	N16 E38	4197		1	2	1222	3.40	4.10			
ARCETRI	22	1015 E		N26 W60	4188		1	3	1015	1.00	2.10			
UCCLE	22	1022 E		N30 W64	4188		1	2						
R O EDIN	22	1134 1145	1137	N25 W06	4194	11	1	2	1137	3.50	3.70	2.05		
ONDREJOV	22	1135 E 1157		N25 W07	4194	22' D	16	3	1137			2.60		
ONDREJOV	22	1253 E 1301		S15 E73	4203	8 D	1	3	1255			2.70		
OTTAWA	22	1512		N16 W06	4195		1	1	1527	2.26	2.33			
USNRL	22	1522 1610	1525	N16 W05	4195	48	1	2	1525	2.26	3.01		79	
USNRL	22	1757 1823	1805	S28 W61	4189	26	1	2	1805	1.13	3.01		78	
USNRL	22	1854 1913	1859	N35 E90	4205	19	1	2	1859	1.35		2.00	51	
HUANCAYO	22	1933 2020 D	1934	S30 W68	4189	47 D	1	2						
USNRL	22	1955 2022	2005	S28 W62	4189	27	1	2	2005	.90	2.41		76	
MITAKA	23	0002 0010		N28 W64	4188	8	1	1	0003	1.84	4.60	3.03	120	
MITAKA	23	0112 0126 D	0117	S29 W65	4189	14 D	16	1	0117	3.80	1.10	2.16	134	
MITAKA	23	0240 E 0252		S23 W72	4189	12 D	1	1	0242	.89	2.85	3.97	134	S-SWF

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Observatory	Date Oct. 1957	Time Observed		Time Max. Phase	Approx. Position Lat. Mer.	McMath Plage Region Dist. Number	Dura- tion Min.	Im- por- tance	Obs. Time Cond. of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width H _g	Max. Int. %	Provis. Iono- spheric Effect
		Start UT	End UT											
MITAKA	23	0623	E 0645		S26 W73	4189	22 D	3	1 0623	3.80	1.33	1.06		S-SWF
UCCLE	23	1041	E 1057		N21 E41	4197	16 D	16	1					
ONDREJOV	23	1048	E 1052		N21 E40	4197	4 D	1	1 1050			3.30		G-SWF
USNRL	23	1303	1337	1308	N21 W80	4188	34	1	3 1308	.79	3.49	1.00	57	
USNRL	23	1410	1422	1412	S30 W75	4189	12	1	2 1412	.90	4.00		60.	S-SWF
MT WILSON	23	1535	1538		N14 E15	4197	3	1						
ZURICH	23	1536	1542		N13 E17	4197	6	1	2 1536		2.00			S-SWF
MT WILSON	23	1704	E 1709		N22 E30	4197	5 D	1						
USNRL	23	1706	1718	1710	S28 W90	4189	12	1	2 1710	1.36			54	S-SWF
MT WILSON	23	1800	1812		N26 W78	4188	12	1						
SAC PEAK	23	1850	1915	1900	S33 W68	4189	25	1	2	2.10			17	S-SWF
USNRL	23	1851	1912 D		S35 W70	4189	21 D	1	1 1906	.79	3.01		53	
CAPRI S	24	0703	E 0827 D		S22 W76	4191	84 D	1	2 0708	.40	2.00			S-SWF
UCCLE	24	1323	E 1345	1325	N15 W31	4195	22 D	2	3 1325	6.30	6.90			
ZURICH	24	1323	E 1346	1342	N14 E02	4197	23 D	2	3 1342	5.10	5.10			S-SWF
ZURICH	24	1336	E 1353		N16 E04	4197	17 D	1	3 1341		2.00			
ZURICH	24	1336	E 1356		N16 W30	4195	20 D	1	3 1343		2.00			S-SWF
ZURICH	24	1553	E 1601 D		N12 E15	4197	8 D	1	3 1553		2.00			
SAC PEAK	24	1617	1640 U	1627	S28 W90	4189	23 D	1	2	3.60			20	S-SWF
MT WILSON	24	1626	E 1632		S29 W88	4189	6 D	1						
SAC PEAK	24	1732	1830	1735	N11 E15	4197	58	1	2	2.40			18	S-SWF
MT WILSON	24	2115	2155		N12 E12	4197	40	1						
SAC PEAK	24	2205	2230 D	2210	N15 E14	4197	25 D	1	2	3.60			22	S-SWF
MT WILSON	24	2205	2234		N12 E11	4197	29	1						
WENDEL	25	0832	0916		N14 E08	4197	44	1						S-SWF
WENDEL	25	0836	0938		S25 E10	4201	62	26						
CAPRI S	25	0844	E 0926 D		S23 E06	4201	42 D	16	2 0905	3.00	3.30			S-SWF
ARCETRI	25	0855	E 0933		S27 E11	4201	38 D	16	2 0917	4.50	5.20			
ARCETRI	25	0858	E		S27 E11	4201		1	2 0858	4.30	5.10			S-SWF
WENDEL	25	0924	1012		N23 E02	4197	48	1						
WENDEL	25	0943	1132		N24 W44	4194	109	16						S-SWF
ARCETRI	25	0951	E		N26 W44	4194		1	2 0951	1.70	2.40			
ARCETRI	25	0952	1021 D		N26 W44	4194	29 D	1	2 1011	1.50	2.20			S-SWF
ARCETRI	25	1043	E 1107 D		N26 W44	4194	24 D	2						
NEDERHORST	25	1047	E 1050		N27 W45	4194	3 D	2						S-SWF
CAPRI S	25	1044	E 1115 D		N27 W46	4194	31 D	1	2 1048	1.50	2.40			
ZURICH	25	1050	E 1135		N26 W45	4194	45 D	1	3 1050		7.00			S-SWF
WENDEL	25	1105	1131		N17 W51	4195	26	1						
WENDEL	25	1204	1224		N13 W43	4195	20	1						S-SWF
ZURICH	25	1210	1227		N16 W42	4195	17	1	3 1210		2.00			
WENDEL	25	1220	1253		S13 E32	4203	33	1						S-SWF
WENDEL	25	1230	1250		N13 E08	4197	20	1						
ZURICH	25	1343	E 1354		S14 E29	4203	11 D	1	3 1343		3.00			S-SWF
USNRL	25	1500	1612	1505	N14 E03	4197	72	1	2 1505	2.37	2.39	1.00	102	
SAC PEAK	25	1500	1530	1505	N13 E03	4197	30	1	1	2.50			18	S-SWF
WENDEL	25	1503	1536		N13 E08	4197	33	2						
MC MATH	25	1516	E		N12 E00	4197		1						S-SWF
ZURICH	25	1519	E 1546 D		N12 E00	4197	27 D	1	3 1519		4.00			
SAC PEAK	25	1525	1600	1532	S18 W67	4191	35	16	1	5.20			14	S-SWF
USNRL	25	1530	1604	1535	S19 W69	4191	34	2	2 1535	1.92	5.47		60	
ZURICH	25	1533	1549 D		S13 W70	4191	16 D	1	3 1538		7.00			S-SWF
MC MATH	25	1540	E 1600 D		S17 W70	4191	20 D	1						
USNRL	25	1614	1636	1618	N21 W05	4197	22	1	2 1618	1.92	2.00		88	Slow S-SWF
USNRL	25	1649	1740	1659	N26 W50	4194	51	1	2 1659	2.60	4.33		80	
MC MATH	25	1855	E		N24 W50	4194		1						S-SWF
SAC PEAK	25	1855	1900 D	1900 D	N27 W50	4194	5 D	1	1	3.00			20	
USNRL	25	1855	1928	1859	N26 W50	4194	33	1	2 1859	2.71	4.53	1.00	82	S-SWF
USNRL	25	1908	1932	1914	S21 W90	4191	24	1	2 1914	1.24			41	
ONDREJOV	26	0618	E 0637	0623	N25 E53	4205	19 D	16	3 0623			3.70		S-SWF
ONDREJOV	26	0735	E 0740		S21 E72	4207	5 D	1	2 0736			3.50		
ARCETRI	26	0755	E 0833		N12 W12	4197	38 D	16	3 0802	3.40	3.60			S-SWF
ONDREJOV	26	0800	E 0829		N11 W08	4197	29 D	2	3 0804			3.60		
ONDREJOV	26	0813	E 0818		N22 E77	4208	5 D	1	3 0814			3.00		S-SWF
UCCLE	26	0846	E 0847 D		N14 W12	4197	1 D	16	1 0847	3.20	3.20			
UCCLE	26	0901	E 0903 D		S24 W15	4201	2 D	16	1 0903	3.00	3.10			S-SWF
UCCLE	26	1102	E		S20 E87	4207		16	2					
UCCLE	26	1104	1111		N27 W63	4194	7	1	2					S-SWF
ZURICH	26	1237	1248	1239	N13 W23	4197	11	1	3 1239		2.00			
ZURICH	26	1248	1304		S06 W34	4204	16	1	3 1248		3.00			S-SWF
ZURICH	26	1250	1253		N26 E53	4205	3	1	3 1250		3.00			

SOLAR FLARES
OCTOBER 1957

Observatory	Date Oct. 1957	Time Observed		Time Max. Phase	Approx. Position Lat. Mer.	McMath Flage Region Dist. Number	Duration Min.	Im- por- tance	Obs. Cond.	Time of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width H _g	Max. Int. %	Provis. Iono- spheric Effect
		Start UT	End UT												
HUANCAYO	26	1409 E	1532 D	1409	N24 E50	4205	83 D	1	2						
HUANCAYO	26	1412 E	1509 D	1413	S24 E72	4207	57 D	1	2						
USNRL	26	1412 E	1429	1414	S25 E72	4207	17	1	2	1414	1.13	3.60		71	
HUANCAYO	26	1519 E	1523	1520	S26 E80	4207	4 D	1	2						
HUANCAYO	26	1639 E	1644	1639	S20 E75	4207	5 D	1	1						
CLIMAX	26	2055 E	2109	2057	N12 W17	4197	14 D	1		2057	2.20				
CAPRI S	27	0853	0928 D		N22 E03	4202	35 D	1	2	0902	2.00	2.20			
CAPRI S	27	1121 E	1145 D		N12 W47	4196	24 D	1	2	1127	2.00	3.00			
CAPRI S	27	1207 E	1225 D		S26 W27	4201	18 D	1	2	1207	1.50	2.20			
USNRL	27	1207 E	1225		S25 W29	4201	18 D	16	2	1209	2.14	2.90		107	S-SWF
USNRL	27	1219	1303 D		N23 E02	4202	44 D	1	1	1239	1.81	1.93		76	
USNRL	27	1227	1351 D		N11 W27	4197	74 D	2	1	1240	5.78	6.70		89	S-SWF
CAPRI S	27	1234 E	1319 D		N13 W28	4197	45 D	1	2	1240	2.50	2.90			
USNRL	27	1239 E	1243 D		S23 E61	4207	4 D	16	1	1239	2.04	4.74		71	
CAPRI S	27	1241 E	1255 D		S23 E56	4207	14 D	16	2	1242	2.50	5.00			
ZURICH	27	1300 E	1310		N23 E01	4202	10 D	1	3	1300	2.00				
ZURICH	27	1300 E	1337		N13 W27	4197	37 D	1	3	1313	3.00				
ZURICH	27	1318	1325		S24 E57	4207	7	1	3	1318	3.00				
ZURICH	27	1449 E	1455		N12 W28	4197	6 D	1	3	1449	1.00				
MITAKA	28	0537 E	0559	0543	S21 E54	4207	22 D	16	1	0537	3.80	6.76	3.23	149	
NIZAMIAH	28	0540 E			S E			1	1	0540	3.03		1.50		
CAPRI S	28	0800 E	0831 D		S25 E47	4207	31 D	1	2	0802	1.50	2.40			
ARCETRI	28	0925	0955		N14 W26	4197	30	1	3						
ZURICH	28	1121	1130		N21 W14	4202	9	1	2	1121		2.00			
ZURICH	28	1146	1152		N27 E47	4208	6	1	2	1146		2.00			
ZURICH	28	1154	1158 D		S21 W35	4201	4 D	1	2	1154		2.00			
USNRL	28	1343 E	1358		N22 W13	4202	15 D	1	2	1343	2.04	2.14		67	
ZURICH	28	1352	1406		S15 E13	4207	14	1	3	1352		2.00			
USNRL	28	1352	1430	1356	S25 W40	4201	38	1	2	1356	1.81	2.76		64	Slow S-SWF
ZURICH	28	1353	1407		S23 W41	4201	14	1	3	1401		3.00			
MC MATH	28	1725 E	1739 D		S19 E46	4207	14 D	1							
SAC PEAK	28	2007	2012 D	2012 D	S23 W40	4201	5 D	1	2		2.20			15	G-SWF
HUANCAYO	28	2057	2126	2101	N21 W06	4202	29	1	2						
CAPRI S	29	0819 E	0916 D		N22 W22	4202	57 D	1	2	0844	2.50	3.00			
ONDREJOV	29	0829	0852	0837	N21 W24	4202	23	1	3	0837			2.40		
ARCETRI	29	0830	0900		N20 W23	4202	30	1	3	0836	2.00	2.30			S-SWF
ONDREJOV	29	0857 E	0900		S06 W78	4204	3 D	1	3	0857			2.70		
CAPRI S	29	1050 E	1208 D		N22 W23	4202	78 D	1	2	1101	3.00	3.60			
ONDREJOV	29	1052 E			N21 W25	4202		16	1						S-SWF
ZURICH	29	1107 E	1201		N22 W24	4202	54 D	1	3	1107		6.00			
CAPRI S	29	1117	1208 D		N23 W66	4196	51 D	1	2	1134	1.50	3.90			
ZURICH	29	1127 E	1202		N24 W72	4196	35 D	1	3	1127		3.00			
ZURICH	29	1134	1140		S20 E28	4207	6	1	3	1134		2.00			
ZURICH	29	1134	1154		N27 E13	4205	20	1	3	1134		3.00			
USNRL	29	1215	1225	1320	N21 W48	4197	10	1	3	1215		3.00			
CAPRI S	29	1307	1341		N26 E12	4205	34	1	2	1320	2.26	2.46		77	
USNRL	29	1515 E	1530 D		N23 W66	4196	15 D	1	2	1518	1.70	4.90			Slow S-SWF
USNRL	29	1515	1525	1519	N12 E71	4211	10	2	2	1519	3.05	9.80		85	
ZURICH	29	1518 E	1530		N14 W72	4196	12 D	1	2	1518		3.00			
CLIMAX	29	1531	1553	1540	N22 W28	4202	22	1		1540	2.40				
ZURICH	29	1537 E	1550 D		N22 W27	4202	13 D	1	2	1537		5.00			S-SWF
MC MATH	29	1540 E	1555 D		N21 W27	4202	15 D	1							
CAPRI S	29	1542 E	1555 D		N22 W26	4202	13 D	1	1	1543	4.00	4.70			
CLIMAX	29	1534	1551	1541	S20 E32	4207	17	1		1541	4.10				
ZURICH	29	1537 E	1550 D		S17 E29	4207	13 D	1	2	1537		8.00			
MC MATH	29	1540 E	1555 D		S18 E33	4207	15 D	1							
CAPRI S	29	1542 E	1553 D		S18 E28	4207	11 D	1	1	1543	4.00	4.80			
CLIMAX	29	1915	1935	1927	S13 W05	4214	20	2		1927	6.00				
CLIMAX	29	1919	2003	1937	N15 W54	4197	44	1		1937	2.80				
USNRL	29	1921	2003	1929	N15 W57	4197	32	1	2	1929	2.82	5.06		83	
HAWAII	29	2008	2016	2008	N27 W28	4202	8	1	3	2008	2.50	3.00			
HAWAII	29	2012 E	2022	2012	S27 E15	4207	10 D	1	3	2012	1.90	2.20			
HAWAII	29	2140	2144	2142	N04 E72	4211	4	16	3	2142	1.90	6.20			
CLIMAX	29	2159	2219 D	2205	N22 W30	4202	20	1		2205	3.80				
HAWAII	29	2200	2208 D	2202	N28 W28	4202	8 D	16	3	2202	3.90	4.90			
HAWAII	29	2246	2258	2248	N17 E04	4205	12	1	3	2248	3.10	3.20			
ONDREJOV	30	0825 E	0829		S13 W34	4203	4 D	1	3	0826			2.80		
ARCETRI	30	0855 E	1000		S12 W36	4203	65 D	1	4	0902	1.60	2.10			
ONDREJOV	30	0857 E	0917		S13 W34	4203	20 D	16	3	0857			3.30		

SOLAR FLARES

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OCTOBER 1957

Observatory	Date Oct. 1957	Time Observed		Time Max. Phase	Approx. Position Lat. Mer.	McMath Plage Dist. Number	Duration Min.	Importance	Obs. Time Cond. of Meas.	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width H _g	Max. Int. %	Provis. Iono- spheric Effect
		Start UT	End UT											
ONDREJOV	30	0948	1023		S10 W39	4203	35	1	3 1000					
ONDREJOV	30	1013	E 1023	1016	S22 W64	4201	10 D	16	3 1016			2.40		
UCCLE	30	1035	1058	D 1038	N22 W37	4202	23 D	1	3 1038	2.10	2.60	5.90		
UCCLE	30	1119	E 1130		S18 E20	4207	21 D	1	3 1125	2.10	2.40			
UCCLE	30	1139	E 1200		N21 W39	4202	21 D	16	3 1139	4.20	5.00			
UCCLE	30	1202	E 1215	D 1206	N15 W87	4196	13 D	1	3					
ZURICH	30	1357	E 1407		N25 W04	4205	10 D	1	3 1357		4.00			
{ CAPRI S	30	1427	E 1511	D	S17 E09	4207	44 D	1	3 1435	2.00	2.10			
ZURICH	30	1438	E 1515		S18 E13	4207	37 D	1	3 1438		7.00			Slow S-SWF
CLIMAX	30	1439	E 1512		S19 E12	4207	33 D	1	3 1439	2.50				
ZURICH	30	1456	E 1545	D	S10 W40	4203	49 D	1	3 1456		4.00			Slow S-SWF
CLIMAX	30	2101	E 2109	2104	N07 E31	4217	8	1	3 2104	2.10				
MITAKA	31	0522	E 0545	0532	S17 E57	4210	23 D	1	1 0527	1.34	2.52	2.38	120	
ZURICH	31	1403	E 1408		S21 E72	4218	5 D	1	3 1403		3.00			
ZURICH	31	1446	E 1533		S21 E02	4207	47	1	3 1505		4.00			
{ MC MATH	31	1735	E		N20 W55	4202		16						
{ USNRL	31	1737	E 1755	D	N21 W55	4202	18 D	1	1 1741	2.50	4.34			S-SWF
MITAKA	31	2342	E 2349	D	S19 W04	4207	7 D	1	2 2342	3.71	3.86	1.63	100	

Subflares for October 1957 will be published in next month's report.

SOLAR FLARES

OCTOBER 1957

OBSERVATORY	DATE OCT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		McMATH FLARE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
ARASTUMANI	01	0712	0723	0713 U	N13	#61	4159	11	1			4.80		2.70	66	G-SWF
ARASTUMANI	01	0734	0745	0736 U	N11	#47	4159	11	1			4.80		2.30	72	
CAPRI G	01	0935 F	0955 D		M28	F19	4165	20 D	16	1			5.00			
SYDNEY	01	2338	2358	2350	S15	F52	4167	20	1	1	2350	1.00	2.00			
SYDNEY	02	0246	0253	0248	S15	F49	4167	7	1	2	0248	1.50	3.00			
SYDNEY	02	0342	0424	0348	N10	#47	4159	42	1	1	0348	2.00	3.00			
TASHKENT	02	0343	0417	0350	M12	#47	4159	34	16			7.30		2.40	90	
TASHKENT	02	0417	0422	0418	S15	F53	4175	12	1			3.30		2.70	100	
SYDNEY	02	0418	0424 D	0419	S15	F50	4167	6	1	1	0419	1.00	2.00			
KYOTO	02	0418 F	0425 D	0419	S15	F53	4167	7 D	1		0419			1.00	1	
TASHKENT	02	0429	0459	0430	S17	F48	4167	30	1			2.20		2.60	80	
SYDNEY	02	0435	0439	0435	S07	F50	4167	4	1	1	0436	1.00	2.00			
KYOTO	02	0615	0621 D		S16	F50	4177	6 D	1		0617				1	
KYOTO	02	0623 F	0631 D	0624	S19	F54	4167	8 D	1		0624				1	
ARASTUMANI	02	0640	0822	0655 U	S13	F44	4167	102 D	16			7.20		2.40	68	
CAPRI G	02	0748	0813		M12	F67	4172	25 D	1	1			3.00			
CAPRI G	02	0833	0843		S16	F58	4166	10 D	1				4.00			
CRINEA	02	0850	0909 D	0854	M28	F06	4165	19 D	16			8.20		2.90	70	
ARASTUMANI	02	0855	0910	0858	M28	F04	4165	15	16			7.20		2.50	75	
CAPRI G	02	0853 F	0905		S27	F10	4167	12 D	2	1			6.00			
CRINEA	02	0933	0956 D	0936	M28	F18	4165	23 D	1			4.10		1.60	70	
CAPRI G	02	1350 F	1400 D		S14	F30	4167	10 D	1	1			4.00			
CAPRI G	02	1443 F			S22	F28	4167		16	1			5.00			
SYDNEY	02	2258	2332	2316	M23	#70	4159	34	1	2	2316	1.00	3.00			
SYDNEY	02	2317	2336	2327	S22	F21	4167	19	1	3	2327	3.00	4.00			
SYDNEY	03	0102	0131	0111	M23	#72	4159	29	2	2	0111	1.50	6.00			
SYDNEY	03	0523	0534	0527	M23	#72	4159	11	1	2	0527	1.00	5.00			
TASHKENT	03	0527	0540	0529	M16	#74	4159	13	16			2.20		4.60	80	
KYOTO	03	0527 F	0538 D	0529	M13	#69	4159	11 D	1		0529	1.40		1.32	1	
TASHKENT	03	0541 F	0553		S14	F38	4175	12 D	1			2.60		4.00	80	
KYOTO	03	0625 F	0637 D	0632	S23	F20	4167	12 D	1		0632				1	
ARASTUMANI	03	0625 F	0638	0623 U	S21	F19	4167	13	1			5.00			65	
TASHKENT	03	0629 F	0638		S23	F13	4167	9 D	1			2.20		3.50	60	
ARASTUMANI	03	0722	0739	0727	S17	F37	4175	17	1			2.40			58	
ARASTUMANI	03	0739	0748	0741	S08	F33	4175	9	1			2.50			52	
ARASTUMANI	03	0739	0852	0741 U	S12	F41	4175	13	1			2.80			78	
KYOTO	03	0740 F	0755 D	0742	S15	F43	4175	15 D	1		0741	1.90		1.00	1	
TASHKENT	03	0742 F	0754	0745	S14	F37	4175	12 D	1			1.50		4.30	80	
MOSCOW	03	0903 F	1200 D	0904 U	S20	F38	4175	177	16			7.50		2.35	120	
KIEV#	03	1235 F	1244 D	1238	S13	F38	4175	9 D	1			9.50				
SYDNEY	03	2256	2314	2301	S41	F50	4173	18	1	2	2301	1.50	3.00			
SYDNEY	03	2346	2350 D	2359	N20	F04	4179	4 D	1	3	2349	.50				
SYDNEY	04	0017	0035	0027	N20	F04	4179	18	1	3	0027	.50				
SYDNEY	04	0050	0107	0102	M20	F04	4179	8	1	3	0103	.50				
SYDNEY	04	0113	0121	0115	M20	F04	4179	8	1	3	0115	.50				
SYDNEY	04	0149	0200 D	0152	M20	F04	4179	11 D	1	3	0152	.50				
ARASTUMANI	04	0703	0838 D	0729	M28	#21	4165	25 D	16			7.00		2.20	67	
ARASTUMANI	04	0825 F	0910 D	0849 U	S14	F16	4175	45 D	16			9.50		2.60	67	

COMMERCE - STANDARDS - DOUGHER

SOLAR FLARES

OCTOBER 1957

OBSERVATORY	DATE OCT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		MAGNETH FLARE REGION				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
CAPRI G	04	1100 F	1120 D		N20	E95	4179	20 D	1	1			5.00			
UTRECHT	04	1345	1347 D		□	□		2 D	1							
KIEV	05	1142	1225	1214	S43	E40	4173	43	1			1.80			120	
KIEV*	06	1022 F	1025		S24	W24	4167	3 D	1			4.90				
KIEV*	06	1050 F	1125 D		N38	W90	4159	35 D	□						100	
KIEV	06	1220 F	1244 D	1236	S28	W24	4167	24 D	16			6.30				
MEUDON	06	1229	1252		S28	W21	4167	23	1							G-SWF
CAPRI G	06	1245 F	1300 D		S24	W22	4167	15 D	2	1			7.00			
CAPRI G	06	1515 F	1523		N41	E00	4171	8 D	1	1			3.00			
TASHKENT	07	0518	0615		N17	E11	4172	57	1			3.60		2.50	70	
MEUDON	07	1337	1358		N10	E80	4180	21	1							
SYDNEY	08	0231	0258	0239	N20	W08	4172	27	2	2	0239	10.00	11.00			Slow S-SWF
SYDNEY	08	0522	0541	0526	N13	E32	4172	19	1	2	0526	4.00	5.00			
KIEV	08	1003 F	1115	1105	N43	W25	4171	72 D	2			5.43			220	
MEUDON	08	1036	1043		S37	W05	4173	7	1							
CAPRI G	08	1048 F	1053		N12	E06	4172	5 D	16	1			5.00			
MEUDON	08	1053	1125		N40	W25	4171	32	16							
CAPRI G	08	1055	1118		N42	W24	4171	23	2	1			7.00			S-SWF
WEDEHORST	08	1055 E	1125 D		N41	W26	4171	30 D	16	3						
KIEV*	08	1057 F	1121 D	1103	N40	W23	4171	24 D	16			8.65				
UTRECHT	08	1106	1110		□	□		4	16							
DUNSTINK	08	1110 F	1130	1107	N50	W10	4171	29 D	1		1127	2.00	2.00	3.00		
DUNSTINK	08	1437 F	1448	1437	N18	W17	4172	11 D	1					2.20		
SYDNEY	09	0212	0237	0220	N10	E90	4192	25	□	2	0220	.75				
SYDNEY	09	0320	0330	0327	N10	E90	4192	10	□	2	0327	.75				
SYDNEY	09	0336	0353 D	0341	N10	E90	4192	17 D	□	2	0341	1.00				
KYOTO	09	0355 F	0537 D	0400	S42	W08	4173	102 D	1		0400	2.70			1	Slow S-SWF
CAPRI G	09	0654	0706		N07	F46	4180	12	1	2			2.00			
CAPRI G	09	0700	0715 D		N14	W04	4172	15 D	1	2			5.00			
CAPRI G	09	0740 F	0745 D		N18	W26	4172	5 D	1	2			4.00			
CAPRI G	09	0940 F	0945 D		N14	W19	4172	5 D	1	2			5.00			
MEUDON	09	0943 E	0948 D		N12	W20	4172	5 D	1							
CAPRI G	09	1020 E	1030 D		N24	E37	4182	10 D	1	2			3.00			
MEUDON	09	1140 F	1153 D		N12	W25	4172	13 D	1							
KIEV	09	1141	1147	1143	N14	W21	4172	6	1			1.40			110	
CAPRI G	09	1404 F	1415		N24	E37	4182	11 D	1	2			5.00			
SYDNEY	09	2221	2230	2224	N15	E82	4192	9	□	2	2224	.75				
SYDNEY	10	0237	0255 D	0246	N25	W77	4172	18 D	1	1	0246	.75	3.00			S-SWF
CAPRI G	10	0900 F	0925		S19	E62	4185	25 D	1	2			5.00			
CAPRI G	10	1105 F	1110 D		N24	E26	4182	5 D	1	2			4.00			
SYDNEY	11	0250	0316	0256	S40	W36	4173	26	1	1	0256	1.00	2.00			
SYDNEY	11	0415	0445	0419	N18	E01	4179	30	1	3	0419	4.00	5.00			
CRIMEA	11	0807 F	0825 D	0813 U	S29	F90	4189	18 D	1			2.70			70	
ABASTUMANI	11	0809	0819	0816 U	S29	F89	4189	10	1			2.40				
CRIMEA	11	0814 F	0846 D		N14	W47	4172	32 D	1			1.40				G-SWF
MEUDON	11	1422	1503		N42	W50	4171	41	1							

CONTINUED - OBSERVATIONS - 1957

SOLAR FLARES OCTOBER 1957

OBSERVATORY	DATE OCT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.						TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hz	MAX. INT. %	
					LAT.	MER. DIST.	MCNATH FLAGE REGION									
↑CAPRI G	11	1432 E	1440 D		N42	W59	4171	8 D	1	2		4.00			G-SWF	
CAPRI G	11	1432 F	1517 D		S38	W36	4173	45 D	1	2		3.00				
CAPRI G	11	1450 F	1517 D		S13	E50	4185	27 D	1	2		2.00				
↑HEUDON	11	1505	1525 D		S28	E75	4189	20 D	1						S-SWF	
CAPRI G	11	1510 F	1517 D		S23	E71	4189	7 D	1	2		3.00				
ABASTUMANI	12	0558 F	0913 D	0409 U	N14	W60	4172	195 D	1		6.00		2.40	64		
CAPRI G	12	0710 F	0714		S15	W46	4177	4 D	1	2		2.00				
ABASTUMANI	12	0735 F	0850 D	0742 U	S16	F44	4185	75 D	1		7.20		2.20	51		
ABASTUMANI	12	0821 E	0913 D	0913 U	N07	E45	4186	52 D	16		8.40			52		
CAPRI G	12	0900 F	0910 D		S25	F67	4189	10 D	2	2		8.00			S-SWF	
↑KHARKOV	12	0900 F	0915 D		N16	W57	4172	15 D	1		1.00					
CAPRI G	12	0955 F	1010 D		N22	E55	4188	15 D	1	2		3.00				
CAPRI G	12	0955 F	1024		N10	E56	4186	29 D	1	2		5.00				
↑KHARKOV	12	1000 F			N05	F46	4186		1		3.00					
CAPRI G	12	1010 F	1030 D		S24	F66	4189	20 D	16	2		6.00			S-SWF	
CAPRI G	12	1201	1210		N15	W64	4172	9	1	2		3.00				
CAPRI G	12	1304 E	1330		S12	W71	4176	26 D	1	2		5.00				
CAPRI G	12	1352 F	1430 D		S26	E65	4189	38 D	1	2		4.00			S-SWF	
CAPRI G	12	1525 F	1534		N22	E37	4188	9 D	1	2		3.00				
↑KYOTO	13	0440 E	0522 D	0457	S23	E60	4189	42 D	16		0457 0544		2.68	1		
KYOTO	13	0530 E	0624 D		N11	E45	4186	54 D	26			13.10	2.34	1	S-SWF	
↑TASHKENT	13	0550 F	0620 D		N10	F38	4186	30 D	16			6.90	3.50	70		
CAPRI G	13	0718 E	0745 D		S24	E54	4189	27 D	1	1		5.00				
CAPRI G	13	0723 E	0745 D		N15	W68	4172	22 D	1	1		3.00				
ABASTUMANI	13	0757 F	0855 D	0612	N06	F34	4186	58 D	1		7.20			49		
CAPRI G	13	0810 F	0835		N07	F34	4186	25 D	1	2		5.00				
CAPRI G	13	1020 F	1026		S22	E59	4189	6 D	1	2		4.00				
↑MOSCOW	13	1056 F	1332 D	1156 U	S22	F57	4189	156	16		11.80		2.82	160		
CAPRI G	13	1115 E	1123 D		S23	E52	4189	8 D	1	2		3.00				
↑MOSCOW	13	1133 E	1146 D	1133 U	S24	E65	4189	13	1		4.20		3.20	200		
CAPRI G	13	1135 E	1147 D		S28	F64	4189	12 D	1	2		4.00				
CAPRI G	13	1135 F	1147 D		S14	E26	4185	12 D	1	2		3.00				
↑MOSCOW	13	1136 E	1145 D	1136 U	S13	E25	4185	9	1				2.19	150		
↑MOSCOW	13	1248 E	1359 D	1253 U	N23	E31	4188	71	26		20.70		2.45	220		
CAPRI G	13	1250 F	1322		N19	E35	4188	32 D	2	2		9.00				
↑HEUDON	13	1307 E			N20	E30	4188		1							
CAPRI G	13	1338 F	1350 D		N24	E54	4188	12 D	2	2		6.00				
CAPRI G	13	1450 F	1500 D		N40	F39	4190	10 D	1	2		4.00				
CAPRI G	13	1528 F	1540 D		N26	E53	4188	12 D	2	2		6.00			S-SWF	
CAPRI G	13	1538 E	1540 D		N44	W85	4171	2 D	1	2		4.00				
↑KYOTO	13	2236	2317 D		N22	E42	4188	41 D	1		2236	11.20	1.34	1		
↑SYDNEY	13	2245	2325	2254	N24	F44	4188	40	2	3	2254	5.00	7.00			
KYOTO	14	0120 F	0256 D		N22	W90	4172	96 D	1		0120 0556		1.32	1	S-SWF	
KYOTO	14	0556 E	0625 D		N24	E16	4188	29 D	16					1		
CAPRI G	14	0653 F	0705		S17	F12	4185	12 D	1	2		5.00				
CAPRI G	14	0823	0835 D		S22	E48	4189	12 D	1	3		5.00				
CAPRI G	14	0830 F	0855		N12	W85	4172	25 D	1	2		4.00				
CAPRI G	14	0842	0852		S22	E53	4189	10	1	3		4.00				
↑KHARKOV	14	0955 F	1022 D		N40	W87	4171	27 D	1		2.00					
KIEV*	14	1035 F	1110 D		S45	W90	4173	35 D	1							

COMMERCE - STANDARDS - BOUTIER

SOLAR FLARES

OCTOBER 1957

OBSERVATORY	DATE OCT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		MAGNITUDE FLARE REGION				TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _e	MAX. INT. %	
					LAT.	MER. DIST.										
KIEV	14	1107	1126 D	1107	S16	E05	4185	19 D	1			2.00			70	Slow S-SWF
CAPRI G	14	1150 F	1200 D		S26	E50	4189	10 D	1	2			3.00			
UTRECHT	14	1305	1307 D		□	□		2 D	1							
CAPRI G	14	1318	1325 D		S21	E47	4189	7 D	1	2			4.00			
NEUERHORST	14	1320	1335 D		N15	W00	4172	15 D	1	3						Slow S-SWF
UTRECHT	14	1322	1328 D		□	□		6 D	2							
CAPRI G	14	1435 F	1445 D		S14	E07	4185	10 D	1	2			3.00			
CAPRI G	14	1534 F	1540 D		S20	E16	4185	6 D	1	2			2.00			
CAPRI G	14	1534 F	1542 D		S24	E32	4189	8 D	1	2			3.00			
SYDNEY	14	2303	2327	2318	S16	E74	4191	24	1	1	2318	1.00	3.00			
SYDNEY	15	0117	0131	0122	N24	W02	4183	14	1	3	0122	2.00	2.00			S-SWF
SYDNEY	15	0239 F	0324	0247	S26	E30	4189	45 D	1	2	0247	3.00	4.00			
TASHKENT	15	0509 F	0550 D		N06	E08	4186	41 D	1			5.80		2.00	70	
KYOTO	15	0650	0655		S23	E27	4189	5	1		0650			1.24	1	
CAPRI G	15	0759	0834		S28	E29	4189	35	2	3			7.00			
CAPRI G	15	1015	1036		N11	E17	4186	21	16	3			6.00			
KIEV	15	1217 F	1220	1217	N10	E43	4186	3	1			1.40			93	
CAPRI G	15	1250 F	1335		N26	W10	4183	45 D	1	3			4.00			
NEUERHORST	15	1325 F	1345 D		N19	E90	4195	20 D	1	3						
NEUERHORST	15	1329 F	1335 D		S21	E30	4189	6 D	1	3						
CAPRI G	15	1332 F	1357		S18	E29	4189	25 D	1	3			5.00			
KIEV	15	1334 F	1345 D	1334	S23	E32	4189	11 D	1			1.80			130	
KIEV	15	1335	1345 D	1341	N06	E14	4186	10 D	16			5.40			120	
CAPRI G	15	1335	1430		N11	F17	4186	55	2	3			9.00			
CAPRI G	15	1352 F	1400		N08	E34	4186	8 D	1	3			4.00			
SYDNEY	16	0413	0442	0427	S27	F17	4189	29	2	3	0427	4.00	5.00			Slow S-SWF S-SWF
TASHKENT	16	0528	0539	0531	S27	F19	4189	11	1			4.40		4.20	70	
ARASTUMANI	16	0624 F	0938 D	0659 U	S25	F18	4189	164 D	1			6.00				
CAPRI G	16	0700 F	0717		S24	E15	4189	17 D	16	3			5.00			
CRIMEA	16	0705 F	0705 D		S28	F19	4189		1			6.40			80	
CAPRI G	16	0708 F	0711		N21	W69	4182	3 D	1	3			3.00			
CRIMEA	16	0749 F	0749 D		S28	F18	4189		1			6.40			90	
MOSCOW	16	0750 F	0813 D		S30	E20	4189	23	2			5.63		4.62	220	
CAPRI G	16	0804	0814 D		S24	F18	4189	10 D	1	2			4.00			
CAPRI G	16	0804	0814 D		N07	F22	4186	10 D	1	2			3.00			
CAPRI G	16	0900 F	0906 D		S24	E09	4189	6 D	1	3			2.00			
KHARKOV	16	0938	1025 D		S14	W22	4185	47 D	1			3.00				
KHARKOV	16	0950	0959 D		S21	E16	4189	9 D	1			2.00				
KHARKOV	16	1032 F	1036 D		N30	E17	4190	4 D	1							
MOSCOW	16	1059 E	1116 D		N19	W62	4179	17	1			2.38		2.37	160	
KHARKOV	16	1144 E	1206 D		S14	W23	4185	22 D	1			3.00				
CAPRI G	16	1154 E	1210 D		S13	W19	4185	16 D	1	2			3.00			
CAPRI G	16	1230	1237		S23	E12	4189	7 D	1	2			2.00			
CAPRI G	16	1330	1340 D		S13	W19	4185	10 D	1	2			2.00			
CAPRI G	16	1351	1402		S24	E15	4189	11	1	2			5.00			
CAPRI G	16	1408 F	1415		N09	E02	4186	7 D	1	2			2.00			
CAPRI G	16	1513 F	1520 D		S12	W19	4185	7 D	1	2			4.00			
SYDNEY	17	0420	0500	0432	S23	F06	4189	40	1	2	0432	3.00	3.00			
ALMA-ATA	17	0625 F	0740 D	0625 U	N07	W28	4192	95 D	1			5.00			50	
ALMA-ATA	17	0608 F	0750 D	0625 U	N12	W23	4192	102 D	1			8.00			50	

CONTINUED - STANDARD - SOLAR

SOLAR FLARES

OCTOBER 1957

OBSERVATORY	DATE OCT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT	
		START	END	MAX. PHASE	APPROX.		McMATH FLARE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hu	MAX. INT. %		
					LAT.	MER. DIST.											
ALMA-ATA	17	0619 E	0653 D	0632 U	S31	W05	4189	34 D	1			2.00			50	Slow S-SWF	
CAPRI G	17	1140 F	1210 D		S23	F04	4189	30 D	2	2			7.00				
CAPRI G	17	1150 F	1205		N11	F15	4186	15 D	1	2			3.00				
CAPRI G	17	1410 F	1540 D		S24	F08	4189	90 D	26	2			10.00				
SYDNEY	17	2359 F	0133 D	0023	S29	F06	4189	94 D	1	2	0023	4.00	5.00				
CRIMEA	18	0652 E	0718	0652 U	S18	W41	4299	26 D	1			4.60			70	S-SWF	
ARASTUMANI	18	0821 F	0911 D	0828 U	S23	W02	4189	50 D	1			4.80					
CAPRI G	18	0823 F	0905		S22	W04	4189	42 D	2	2			8.00				
CAPRI G	18	1007 F	1015 D		S25	W02	4189	8 D	16	2			6.00				
DUNSTON	18	1010 E	1202	1012	S22	W22	4189	118 D	1						100		
CAPRI G	18	1243 F	1301 D		N24	F50	4196	18 D	1	3			3.00				
CAPRI G	18	1445 E			N28	E90	4197		1	2							
CAPRI G	18	1515 F	1541 D		S24	W08	4189	26 D	16	2			7.00				
CAPRI G	18	1522 F	1539		N22	W64	4183	17 D	1	1			3.00				
ARASTUMANI	19	0603	0900	0630	S26	W24	4189	177	2			13.00		2.70	204	Slow S-SWF	
ARASTUMANI	19	0622	0655	0636	N13	W42	4186	33	16			9.60			263		
CRIMEA	19	0654 F	0759		S24	W25	4189	65 D	2			20.10		1.80	110		
CAPRI G	19	0708	0815		S23	W24	4189	67 D	26	3			11.00				
TASHKENT	19	0740 E	0754		S23	W26	4189	14 D	2			15.70		2.30	90	S-SWF	
ARASTUMANI	19	0747 F	0857	0831	S28	W17	4189	70	1			8.40		2.50	144		
CAPRI G	19	0830 F	0900		S26	W17	4189	30 D	2	3			7.00				
KIEV*	19	1018	1028	1021	S27	W28	4189	10	1			4.20					
CAPRI G	19	1040 E	1155		S22	W17	4189	75 D	2	2			9.00			Slow S-SWF	
KHARKOV	19	1131 E	1153 D		N10	W20	4180	22 D	1								
CAPRI G	19	1255 F	1306		S24	W24	4189	11 D	16	2			5.00				
CAPRI G	19	1317 F	1400		S24	W20	4189	43 D	2	2			8.00				
CAPRI G	19	1308 F	1316		S20	E00	4201	8 D	1	2							
CAPRI G	19	1512 E	1528		N24	W72	4183	16 D	1	2			3.00				
CAPRI G	19	1512 F	1535 D		N13	W81	4180	23 D	1	2			3.00				
ARASTUMANI	20	0555 E	0902 D		N17	W31	4188	167 D	16			9.60					
MEUDON	20	0801	0830		N12	W12	4197	29	16								
KHARKOV	20	0913 E	1010 D		S26	W30	4189	57 D	16			9.00					
KHARKOV	20	0921 E	0931 D		S21	W28	4189	10 D	1			3.00					
MOSCOW	20	0922 E	0932 D		S21	W31	4189	10	1			1.36		3.86	120		
CAPRI G	20	0925 F	0929		S21	W35	4189	4 D	16	1			6.00			S-SWF	
KIEV	20	0925	1200 D	0945	S26	W32	4183	155 D	26			11.80			270		
MEUDON	20	0938	1017		S28	W33	4189	39	2								
NIZHNY	20	0942 F	1036 D		S23	W33	4189	54 D	16			4.95		6.82	100		
CAPRI G	20	0943 F	1050		S26	W30	4189	67 D	2	1			8.00				
KIEV*	20	0945	1001	0951	S30	W28	4189	16	2								
MOSCOW	20	0948 F	1053 D	1013 U	S26	W30	4189	65	16			8.55		2.53	180		
MOSCOW	20	1034 F	1116 D		N23	F70	4197	42	1			2.84		3.39	110		
CAPRI G	20	1150 F	1155 D		S27	W35	4189	5 D	16	2			6.00				
SYDNEY	20	2219 F	2247	2224	S21	W41	4189	28 D	1	3	2224	2.00		3.00			
SYDNEY	20	2221	2248	2232	S25	W41	4189	27	1	3	2232	2.00		3.00			
SYDNEY	20	2221	2247	2229	N25	E58	4197	26	1	3	2229	1.50		3.00			
SYDNEY	20	2259	2320	2304	S27	W45	4189	21	1	3	2304	1.50		3.00			
SYDNEY	20	2340	0006	2345	N23	W54	4188	26	1	3	2345	3.00		4.00			
SYDNEY	21	0150	0205	0156	N26	E60	4197	15	1	2	0156	2.00	4.00				

CONVERSION - STANDARD - SOLAR

OCTOBER 1957

OBSERVATORY	DATE OCT 1957	OBSERVED UNIVERSAL TIME			LOCATION APPROX.			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT		
		START	END	MAX. PHASE	LAT.	MER. DIST.	McMATH PLAGE REGION				TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH He	MAX. INT. %			
{ SYDNEY KYOTO SYDNEY ARASTUMANI TASHKENT ARASTUMANI	21	0150	0239	0156	N24	W54	4188	49	2	3	0156	5.00	8.00					
	21	0153 E	0212 D	0158	N25	W48	4188	19	1		0158			1.82	1			
	21	0245	0255	0247	N23	F56	4197	10	1	3	0247	1.50	3.00					
	21	0607 F	0714 D	0635 U	N20	F61	4197	67 D	16			8.40						
	21	0653 F	0707		N22	F64	4197	14 D	1			3.30		2.50	70			
	21	0627 F	0910 D	0632 U	S26	W47	4189	163 D	1			4.30						
{ SYDNEY TASHKENT MOSCOW NIZMIR MOSCOW NIZMIR MOSCOW NIZMIR NIZMIR NIZMIR NIZMIR NIZMIR NEDERHORST	22	0128	0137 D		N26	W55	4188	9 D	1	2	0134	1.50	3.00					
	22	0502 F	0540		S25	W40	4189	38 D	1			2.90		2.70	50	Slow S-SWF		
	22	0709 E	1217 D	0940 U	N31	W59	4188	308	1			10.90		1.86	150			
	22	0755 F	0806 D		N28	W65	4188	11 D	1									
	22	0803 F	1215 D	1006 U	N16	F00	4193	252	16			10.69		1.94	150			
	22	0755 F	0806 D		N25	W07	4194	11 D	1									
	22	0803 E	1215 D	1147 U	N28	W03	4194	252	2			17.05		1.92	150			
	22	0923 F	1013	0951 U	N28	W65	4188	50 D	16			2.42	6.22		100			
	22	0928 F	0946 D		N25	W07	4194	16 D	16			2.47	2.65		120			
	22	0940	0943	0941	N25	E19	4196	3	1			2.65	2.98		80			
	22	0958	1013	1001	N13	W02	4193	15	1			2.07	2.09		110			
	22	1143 E	1148 D		N27	W05	4194	5 D	16			6.82	7.38		70			
	22	1253 F	1300 D		S13	E58	4203	7 D	2	1								
	{ SYDNEY SYDNEY ALMA-ATA CAPRI G CAPRI G CAPRI G CAPRI G CAPRI G CAPRI G CAPRI G CAPRI G CAPRI G CAPRI G CAPRI G SYDNEY SYDNEY	23	0007	0019	0013	S18	W66	4189	12	1	2	0013	.75	3.00				S-SWF S-SWF
23		0224	0237	0233	S20	W44	4189	13	1	3	0233	1.00	5.00					
23		0621 F			S28	W40	4189		16					100				
23		0900 F	0908		N07	W58	4186	8 D	1	2		2.00						
23		0923 E	0925		N27	W74	4188	2 D	1	2		4.00						
23		0925	0946		S27	W75	4189	21	1	2		4.00						
23		0937	1016		N27	W74	4188	39	2	2		8.00						
23		0950 E	1006		N20	F40	4197	16 D	1	2		2.00						
23		0953 E	1023 D		N07	W59	4186	30 D	1	2		2.00						
23		1115 E	1122 D		S23	E33	4201	7 D	1	2		3.00						
23		1258 F	1302 D		S25	W65	4189	4 D	1	2		3.00						
23		1322 E	1327 D		N14	E21	4197	5 D	1	2		4.00						
23		1324 E	1330 D		N16	W12	4195	6 D	1	2		3.00						
23		1414 F	1421		S26	W75	4189	7 D	1	1		5.00						
23		1420 F	1428 D		N27	W74	4188	8 D	1	1		4.00						
23		2222 E	2236		S18	W79	4189	14	1	2	2222	.50	3.00					
23		2348	0001	2351	N26	W82	4188	13	1	3	2351	.50	2.00					
{ SYDNEY TASHKENT ARASTUMANI TASHKENT CRIMEA CAPRI G CAPRI G CAPRI G		24	0411	0448	0417	N14	W25	4195	37	1	3	0417	3.00	3.00			Slow S-SWF	
		24	0504 E	0533		S23	E22	4201	29 D	1			2.60		2.20	70		
	24	0630 F	0906	0655 U	S23	W40	4189	156 D	1			4.80						
	24	0650	0801 D	0655	S22	W74	4189	71 D	2			2.90		3.70	100			
	24	0653 F	0828 D	0657 U	S27	W85	4189	95 D	16			4.60		4.30	90			
	24	0730 F	0733 D		S20	W74	4189	3 D	1	1		3.00						
	24	0730 F	0733 D		N11	E20	4202	3 D	2	1		7.00						
	24	1335 E	1350 D		N14	E07	4197	15 D	1	1		3.00						
	24	1335 F	1417 D		N15	W25	4195	42 D	1	1		2.00						
	{ SYDNEY SYDNEY SYDNEY SYDNEY	25	0131	0159	0145	N13	W07	4197	28	1	2	0145	2.00	2.00				
25		0327	0349	0330	S25	E10	4201	22	1	3	0330	2.00	3.00					
25		0533	0549	0536	N12	F06	4197	16	1	3	0536	2.00	2.00					
25		0549	0604	0600	N25	F45	4205	15	1	3	0600	1.30	3.00					

COMMERCIAL - SUBSIDIZED - SPECIAL

SOLAR FLARES

OCTOBER 1957

OBSERVATORY	DATE OCT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	APPROX. MAGNITUDE FLARE REGION				TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
ABASTUMANI	25	0712 F	0747	0715 U	N27	W43	4194	28 D	1			4.80			178	S-SWF
ABASTUMANI	25	0826	0910	0858	N15	W08	4197	44	1			7.20			186	
ABASTUMANI	25	0837	0923	0900	S26	E09	4201	46	2			26.40		1.80	214	
CAPRI G	25	0838 F	0940		S25	F07	4201	62 D	2	2			10.00			S-SWF
CAPRI G	25	0844 F	0920		N13	W06	4197	36 D	1	2			4.00			
CAPRI G	25	0927 F	0932 D		N19	E03	4197	5 D	1	2			4.00			
CAPRI G	25	0946 F	1025		N25	W44	4194	39 D	1	2			4.00			S-SWF
CAPRI G	25	1042 F	1105 D		N25	W44	4194	23 D	1	3			5.00			
KIEV*	25	1044 F	1058 D		N27	W46	4194	14 D	16			10.50				
KIEV	25	1054 F	1129 D	1100	N26	W44	4194	35 D	1			2.70			90	S-SWF
CAPRI G	25	1050	1105 D		N18	W46	4195	15 D	1	3			3.00			
CAPRI G	25	1059 F	1125 D		N13	E69	4206	26 D	1	1			3.00			
CAPRI G	25	1120 F	1125 D		S13	E26	4203	5 D	1				4.00			Slowly-SWF
CAPRI G	25	1317 F	1339		S12	F31	4203	22 D	1	2			3.00			
CAPRI G	25	1505 F	1515 D		N10	E05	4197	10 D	2	1			8.00			
TASHKENT	26	0755	0827	0801	N13	W11	4197	32	2			8.80		3.80	170	S-SWF
KHARKOV	26	0943 F	1010 D	0947 U	S21	W14	4201	27 D	16			3.00				
MEUDON	26	1207	1222		N25	E52	4205	15	1							
MEUDON	26	1407	1440		S25	F80	4207	33	1							S-SWF
TASHKENT	27	0650 F	0705		N21	E06	4202	15 D	1			3.00		3.00	70	
CAPRI G	27	0703 F	0717 D		N14	E06	4202	14 D	1	2			4.00			
CAPRI G	27	0748 F	0803 D		N23	W18	4197	15 D	1	2			4.00			S-SWF
CRIMEA	27	0800 F	0811 D	0802 U	S25	F65	4207	11 D	1			3.60		2.60	80	
CAPRI G	27	0800	0814 D		S28	E57	4207	14 D	1	2			3.00			
TASHKENT	27	0801	0806	0803	S24	E59	4207	5	16			4.20		4.20	150	S-SWF
CAPRI G	27	0851	0925		N14	W22	4197	34	1	2			4.00			
KIEV	27	0856 F	0931	0902	N21	E04	4202	35 D	16			4.50			90	
KIEV*	27	0900 F	0917		N21	E02	4202	17 D	1			4.00				S-SWF
KIEV	27	0907	1000	0942	N13	W22	4197	53	1			2.00			100	
CAPRI G	27	0916	0958		N22	W24	4197	42	1	2	0930		3.00			
KIEV*	27	0917 F	0956 D		N10	W24	4197	39 D	1			2.50			90	S-SWF
KIEV	27	1114	1206 D	1118	N12	W31	4197	52 D	1			2.00				
KIEV	27	1120	1206 D	1132	N19	W46	4196	46 D	1			1.80			110	
KIEV*	27	1201 F	1219 D	1206	S24	W29	4201	18 D	16			3.75				S-SWF
CAPRI G	27	1205 E	1223		S22	W24	4201	18 D	16	2			5.00			
CAPRI G	27	1426 E	1433 D		N18	W74	4195	7 D	1	1			3.00			
CAPRI G	27	1532 E	1535 D		S20	E55	4207	3 D	1	1			3.00			S-SWF
SYDNEY	28	0103 F	0107 D		S23	E51	4207	4 D	1	2	0103	1.50	3.00			
KYOTO	28	0213 F	0225 D	0215	N21	W10	4202	12 D	1		0215			1.48	1	
SYDNEY	28	0442	0454 D	0448	S23	F49	4207	12 D	1	1	0448	2.00	4.00			S-SWF
CRIMEA	28	0759 F	0823 D	0805 U	S27	F53	4207	29 D	1			5.00		1.40	70	
CAPRI G	28	0801 E	0820 D		S26	F47	4207	19 D	1	2			2.00			
ABASTUMANI	28	0816 F	0836	0820	N23	F26	4205	80 D	1			2.40			159	S-SWF
ABASTUMANI	28	0816 E	0911 D	0821 U	N21	W11	4202	55 D	1			7.20			187	
ABASTUMANI	28	0816 F	0911 D	0821 U	S28	E52	4207	55 D	1			5.00			170	
KIEV	28	0900 F	0900 D	0900	S23	W35	4201		1			1.80			70	S-SWF
KIEV	28	0910 F	0910 D	0910	S20	W36	4201		1			1.20			90	
CRIMEA	28	0905	0912	0907 U	S24	F54	4207	7	1			2.00		1.70	80	
ABASTUMANI	28	0907		0911 U	S24	F53	4207		1			3.50			182	S-SWF
CAPRI G	28	0932 F	0944		S24	E47	4207	12 D	1	2			1.00			

CONVERSION - STANDARD - SOLAR

SOLAR FLARES

OCTOBER 1957

OBSERVATORY	DATE OCT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	LAT.	MER. DIST.	McMATH FLARE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _o	MAX. INT. %	
CRIMEA	28	0959 E	1015 D	1003 U	S22	W34	4201	16 D	16			2.00		4.60	60	
CAPRI G	28	1001	1020 D		S22	W33	4201	19 D	1	2			2.00			
CAPRI G	28	1120	1133		N21	W08	4202	13	1	3			3.00			
KHARKOV	28	1120	1136 D		N23	W11	4202	16 D	1			2.00				
KHARKOV	28	1144	1203 D		S20	W36	4201	19 D	1			5.00				
CAPRI G	28	1147 E	1159 D		S22	W30	4201	12 D	1	3			2.00			
KIEV	28	1146 E	1156 D	1153	S25	E55	4207	10 D	1			.90			100	
CAPRI G	28	1352	1358		S23	W40	4201	6	1	2			3.00			
ARASTUMAMI	29	0631	0710	0650	S19	E80	4218	39	16			4.80			219	
ARASTUMAMI	29	0703	0801	0834	N22	W25	4202	118	16			7.20		2.00	257	
CAPRI G	29	0811 E	0850 D	0830	N21	W23	4202	39 D	16	1			6.00			
CRIMEA	29	0828	0856 D	0836 U	N21	W25	4202	98 D	16			9.12		4.60	80	S-SWF
CAPRI G	29	0816	0827		S19	F33	4207	11	1	1			4.00			
CAPRI G	29	1120 E	1150 D		N21	W23	4202	30 D	16	2			5.00			
CAPRI G	29	1120 F	1150 D		N24	W78	4196	30 D	1	2			4.00			
CAPRI G	29	1130	1140		S20	F31	4207	10	1	2			4.00			
CAPRI G	29	1130	1144		N25	E13	4205	14	1	2			3.00			
CAPRI G	29	1338 E	1346 D		S23	E37	4207	8 D	1	2			2.00			
CAPRI G	29	1338 E	1346 D		N20	W25	4202	8 D	1	2			2.00			
CAPRI G	29	1518 E	1525		N17	W67	4196	7 D	16	2			6.00			Slow S-SWF
CAPRI G	29	1540 E	1545 D		N19	W22	4202	5 D	16	1			5.00			
CAPRI G	29	1540 E	1545 D		S17	F30	4207	5 D	2	1			7.00			Slow S-SWF
CRIMEA	30	0855	0920	0857	S13	W37	4203	35	1			7.00		2.60	80	
NIZMIR	30	0900 E	0912 D		S12	W37	4203	12 D	16			2.60	3.40		90	
NIZMIR	30	0904	0906		N23	W35	4202	2	1				1.27		90	
NIZMIR	30	0926 E	0930		N23	F02	4208	4 D	16			3.05	3.21		90	
CRIMEA	30	0950 F	1014 D	1000 U	S12	W38	4203	24 D	1			5.00		2.60		
KIEV*	30	0956 E	0959	0958	S14	W38	4203	3 D	2			8.35				
CAPRI G	30	0958 F	1013 D		S10	W35	4203	15 D	1	1			3.00			
CRIMEA	30	1013 E	1019 D	1016 U	S21	W59	4201	6 D	1			4.00		4.50		
KIEV*	30	1014	1018		S25	W66	4201	4	2			4.15				
DUNINK	30	1043 E	1055	1044	N13	F30	4213	10 D	1		1044	7.50		1.45		
CAPRI G	30	1131 E	1203		N22	W35	4202	32 D	16	2			2.00			
KHARKOV	30	1150 E	1200 D		N20	W47	4202	10 D	1			5.00				
CAPRI G	30	1316 F	1328		N37	F56	4212	12 D	1	2			2.00			
CAPRI G	30	1427 F	1451		S21	E16	4207	24 D	16	2			5.00			Slow S-SWF
SYDNEY	31	0022	0050	0025	M38	F47	4212	28	1	2	0025	2.00	4.00			
SYDNEY	31	0053	0056		S11	W49	4203	3	1	3	0055	1.50	2.00			
SYDNEY	31	0146	0226	0202	S12	W47	4203	40	1	3	0202	3.00	5.00			
YOTO	31	0155 E	0218		S15	W46	4203	23 D	16			0155			1	
SYDNEY	31	0201	0222	0205	S21	E05	4207	21	1	3	0205	2.00	3.00			
SYDNEY	31	0320	0336	0327	S21	W71	4201	16	1	2	0327	.75	3.00			
CAPRI G	31	0700 E	0707		S22	E11	4207	7 D	1	3			3.00			

COMMERCE - STANDARDS - DELIVER

CAPRI G ANACAPRI - GERMAN
 CAPRI S ANACAPRI - SWEDISH
 GOOD HOPE ROYAL OBSERVATORY, CAPE OF GOOD HOPE
 KODAIKANL KODAIKANAL
 KRASNAYA KRASNAYA PAKHRA
 R O EDIN ROYAL OBSERVATORY, EDINBURGH
 R O HERST GREENWICH ROYAL OBSERVATORY, HERSTMONCEUX
 SAC PEAK SACRAMENTO PEAK
 SCHAUNSLAND SCHAUNSLAND
 USNRL UNITED STATES NAVAL RESEARCH LABORATORY

These flare reports are addenda to the October 1957 flares published in CRPL-F 159 Part B, November 1957).

E - LESS THAN
 D - GREATER THAN
 U - APPROXIMATE
 & - PLUS
 - MINUS