

SOLAR FLARES
SEPTEMBER 1957

Observatory	Date Sept. 1957	Time Observed Start End UT UT	Time Max. Phase UT	Approx. Position Lat. Mer. Dist. Number	McMath Plage Region	Dura- tion 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
*CAPRI S	01	0622 E 0637		N13 W09 4124		15 D	1							
*ATHENS	01	0656 0720		S31 W19 4125		24	1	3	0623	2.00	2.10			
{CAPRI S	01	0801 0824 D		N14 W11 4124		23 D	1	3		1.90	2.50			
{MEUDON	01	0805 E 0810 D		N15 W15 4124		05 D	1	3	0811	3.00	3.30			
{MEUDON	01	0906 1000		S15 W55 4121		54	16				3.00			S-SWF
{ARCTRI	01	0945 E 1015		N13 W10 4124		30 D	2				9.00			
{MEUDON	01	0946 1030	0950	N13 W15 4124		44	2	2						
{CAPRI S	01	0949 1008		N13 W11 4124		19	16				11.00			S-SWF
{OTTAWA	01	1255 1330	1302	N15 W16 4124		35	26	3	0956	3.50	3.80			
{SCHAUINS	01	1256 E 1350		N15 W13 4124		54 D	2	2	1302	8.24	8.70			
{CAPRI S	01	1256 1420		N16 W15 4124		84	26							
{ONDREJOV	01	1259 E 1318 D		N10 W15 4124		19 D	26	3	1304	7.00	7.50			S-SWF
{MC MATH	01	1301 E 1325 D		N16 W14 4124		24 D	16	2	1301			5.30		
{ONDREJOV	01	1322 1402		N12 W20 4124		30	16	2	1323					
{USNRL	01	1322 E 1437		N15 W21 4124		75 D	1	1	1322	2.26	2.41	3.00		
{R O EDIN	01	1330 E 1345 D		N13 W26 4124		15 D	1	1	1330	4.00	4.20		98	
{ONDREJOV	01	1341 1353		N14 W08 4124		12	1	1						
{MC MATH	01	1723 E 1735 D		N16 W14 4124		12 D	1							
{OTTAWA	01	1919 E 1937		S32 W14 4125		18 D	1	1	1920	1.74	2.34			Slow-S-SWF
{OTTAWA	01	1945 2036	2002	N25 W17 4124			2	1	2000	5.62	6.22			
{SAC PEAK	01	2005 E 2005 D		N26 W15 4124		51	2	2		5.70				S-SWF
{MC MATH	01	2105 2140	2112	N20 W10 4124		35	1							
{SAC PEAK	01	2350 2400 D	2400 F	N14 W21 4124		10 D	1	2		2.90	2.10			
{TASHKENT	02	0409 E 0445		N15 W25 4124		36 D	16							
{NIZAMIAH	02	0434 E 0445		N14 W24 4124		11 D	1	2	0434	2.13	2.34	1.00		G-SWF
{MEUDON	02	0801 0812		S28 W28 4125		11	1				4.00			
{ABASTUMANI	02	0802 0815		S30 W25 4125		13	2							
{CAPRI S	02	1015 1053		N13 W29 4124		38	1	3	1025	2.00	2.40			S-SWF
{ARCTRI	02	1045 1610		S27 W30 4125			1	2						
{CAPRI S	02	1046 1322	1301	S30 W33 4125		324	26	3	1331	10.00	13.00			
{R O HERST	02	1258 E 1322		N12 W25 4124		24 D	1	1	1301	3.10	3.40			
{CAPRI S	02	1259 1335		N10 W26 4124		36	2	3	1326	7.00	7.70			S-SWF
{USNRL	02	1312 E 1346	1313	N11 W28 4124		34 D	1	2	1313	1.36	1.55		129	
{USNRL	02	1313 1408	1316	S32 W36 4125		55	2	2	1316	4.63	8.10	1.00	96	
{CLIMAX	02	1346 E 1507 D		S34 W37 4125		81 D	2							
{SAC PEAK	02	1338 E 1830 F	1425 F	S35 W36 4125		292 D	3	3	4125	15.90				S-SWF
{SAC PEAK	02	1415 1505 F	1427	N12 W28 4124		50 D	1	3		2.50				G-SWF
{MT WILSON	02	1509 1513		N20 W17 4124		04	1							
{CAPRI S	02	1535 E 1608		N27 W28 4124		33 D	1	3	1550	2.00	2.60			
{MT WILSON	02	1547 1604		N24 W24 4124		17	1							
{HUANCAYO	02	1550 E 1603	1556	N26 W22 4124		13 D	1	2						
{ARCTRI	02	1600 1611		N20 W25 4124		11	1	3						
{MT WILSON	02	1554 1606		N20 W30 4124		12	1							
{CAPRI S	02	1554 1609		N10 W29 4124		15	1	3	1600	2.80	3.20			
{HUANCAYO	02	1557 1611	1558	N12 W23 4124		14	1	2						
{MT WILSON	02	1806 E 1858	1812	N12 W37 4124			1							
{USNRL	02	1810 E 1831		N14 W36 4124		48 D	1	2	1812	1.13	1.51		133	Slow S-SWF
{HUANCAYO	02	2100 2112	2101	N12 W38 4124		17	1							
{SAC PEAK	02	2130 2300	2147	S28 W30 4125		12	1	2						S-SWF
{SAC PEAK	02	2212 2250	2221	S32 W43 4125		90	1	3		2.30				S-SWF
{MT WILSON	02	2218 2220		N14 W37 4124		38	1	3		2.25				
{MT WILSON	02	2323 2335		N12 W40 4124		02	1							
				N24 W30 4124		12	1							
MT WILSON	03	0026 0033		N24 W27 4124		07	1							
MT WILSON	03	0101 0841		N24 W29 4124			1							S-SWF
{ABASTUMANI	03	0754 0818		N14 W38 4124		47	26							
{ATHENS	03	0755 1103	1023	N14 W39 4124		23	1	4		2.00	2.40			
{R O EDIN	03	1022 1052 D	1028 U	N15 W38 4124		41	2	3	1023	5.00	6.10	9.27		Slow S-SWF
{NIZAMIAH	03	1026 E 1050 D		N17 W42 4124		28 D	2	2	1028	5.47	7.37	2.60		
{ONDREJOV	03	1041 E 1045 D		N15 W39 4124		24 D	26	2	1034			4.40		S-SWF
{STOCKHOLM	03	1124 E 1133 D		N15 W40 4124		4 D	2	2						
*CAPRI S	03	1320 1323 D		N22 W27 4124		9 D	2	2	1132	4.40	5.70			S-SWF
*ONDREJOV	03	1339 1431		N23 W44 4124		03 D	1	1						S-SWF
*OTTAWA	03	1412 1630		S14 E67 4133			1	1	1341	1.04	3.50			S-SWF
{SAC PEAK	03	1417 1604 D		N25 W30 4124		138	3	3		20.60				S-SWF
{CAPRI S	03	1417 1727	1425 U	N22 W29 4124		107 D	3	2	1435	14.00	16.20			Slow S-SWF
{R O EDIN	03	1418 1656	1426	N24 W29 4124		190	3	2	1425	15.00	17.70	6.38		
{CLIMAX	03	1428 E 1536 D		N24 W30 4124		158	2		1426	8.50				
{MC MATH	03	1422 E		N20 W30 4124		68 D	26							S-SWF
{OTTAWA	03			N23 W30 4124			26	1	1428	11.25	13.56			

Capri S. = Anacapri (Swedish).
 Krasny = Krasnaya Pakhra.
 RO Edin = Royal Observatory, Edinburgh.
 RO Herst = Greenwich Royal Observatory, Herstmonceux.
 Sac Peak = Sacramento Peak.
 Schaufins = Schaufinsland.
 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.

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IIIb

Observatory	Date Sept. 1957	Time Observed Start End UT UT	Time Max. Phase UT	Approx. Position Lat. Mer. Dist. Number	McMath Plage Region	Dura- tion Min.	Im- por- tance	Obs. Cond.	Time of Max. UT	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width H _g	Max. Int. %	Provi- dion- spheric Effect
MT WILSON	03	1422 E		N12 W40	4124									
USNRL	03	1449 E 1634	1459	N26 W32	4124	105 D	3							
R O HERST	03	1521 E 1605	1521 E	N22 W31	4124	44 D	2	1	1459	6.90	9.06		108	
HUANCAYO	03	1525 E 1559 D	1525 U	N24 W29	4124	29 D	16	2	1521	6.00	7.00	1.80	58	
* HUANCAYO	03	1615 1647 D	1616	N24 W48	4124	32 D	1	2						
SAC PEAK	03	1855 1955	1945	N15 W45	4124	60	1	3		2.25				S-SWF
SAC PEAK	03	2035 2045		N15 W90	4122	10	1	3		2.40				
MT WILSON	03	2040 2044	2040 F	N14 W86	4122	04	1							
MT WILSON	03	2040 2043		N25 W47	4124	03	1							G-SWF
SAC PEAK	03	2110 2210	2120	N15 W47	4124	60	2	3		5.50				
HAWAII	03	2114 2142	2118	N16 W46	4124	28	16	1	0610	3.10	5.40			
MC MATH	03	2115 E 2142 D		N20 W50	4124	27 D	16							Slow S-SWF
MT WILSON	03	2116 2147		N15 W47	4124	31	1							
SAC PEAK	03	2217 2240	2220	N15 W49	4124	23	1	3		2.10				
* MT WILSON	03	2254 2323		S25 W48	4125	19	1							
MITAKA	04	0435 E 0445		N15 W49	4124	10 D	1	1	0437	2.78	4.06	1.12	81	G-SWF
MITAKA	04	0531 0538 D		N13 W51	4124	07 D	1	1	0533	1.84	2.76	1.77	98	
NIZAMIAH	04	0541 0555	0545 U	N13 W49	4124	14	1	2	0545	2.13	3.24	1.80		
MITAKA	04	0555 0600 D		N13 W51	4124	05 D	1	1	0555	2.78	4.17	2.05	85	
* MITAKA	04	0707 E 0719 D	0711 U	N25 W39	4124	12 D	1	1	0716	1.84	2.34	2.56	107	
ONDREJOV	04	0715 E 0724		N23 W42	4124	09 D	1	3	0715			3.30		
ONDREJOV	04	0839 E 0856	0850	N24 W42	4124	17 D	1	3	0850			2.80		
STOCKHOLM	04	0913 E 0924 D		N18 W40	4124	11 D	1	1						
CAPRI S	04	1029 1052 D		N23 W43	4124	23 D	1	2	1036	3.00	4.50			
WENDEL	04	1030 E 1052 D		N26 W41	4124	22 D	16				7.00			
WENDEL	04	1156 E 1234 D		N17 W44	4124	38 D	1				3.00			
WENDEL	04	1156 E 1236 D		N15 W54	4124	40 D	2				10.00			
CAPRI S	04	1157 1210 D		N14 W53	4124	13 D	16	3	1206	3.50	5.60			S-SWF
ONDREJOV	04	1200 E 1246		N12 W52	4124	46 D	16	3	1200			4.10		
SAC PEAK	04	1317 E 1412	1325	N16 W54	4124	55 D	1	3		3.00				S-SWF
MT WILSON	04	1805 1845		N15 W59	4124	40	1							G-SWF
* MT WILSON	04	2245 2300		N15 W63	4124	15	1							
MITAKA	04	2320 2337 D	2325 U	N13 W61	4124	17 D	1	1	2320	1.84	3.91	2.16	107	
MT WILSON	04	2320 2439		N15 W64	4124	79	16							
* MT WILSON	04	2340 2350		N15 E81	4134	10	1							Slow S-SWF
MITAKA	05	0010 0028	0014 U	N14 W63	4124	18	2	1	0010	7.57	16.10	2.27	118	
MT WILSON	05	0145 0200		N15 W65	4124	15	1							
TASHKENT	05	0319 0321		N12 W68	4124	02	16							
ONDREJOV	05	0702 0717	0710	N15 W67	4124	15	1	3	0710			2.50		Slow S-SWF
WENDEL	05	0910 E 0926 D		N09 E75	4138	16 D	1							
CAPRI S	05	1206 1320		N15 W73	4124	74	16	2	1223	2.00	5.00			S-SWF
WENDEL	05	1211 E 1233 D		N18 W59	4124	22 D	1				5.20			
WENDEL	05	1211 E 1312 D		N16 W68	4124	61 D	16				7.00			
ONDREJOV	05	1210 1226	1215	N13 W68	4124	16	16	3	1215			3.90		Slow S-SWF
ONDREJOV	05	1230 1303		N12 W70	4124	33	16	2	1231			3.80		
R O HERST	05	1231 1300	1240 F	N14 W70	4124	29	1	3	1234	.90	2.10	2.80	77	
KIEV	05	1234		N12 W69	4124		2							
MC MATH	05	1235 E 1305 D		N20 W60	4124	30 D	16							
SAC PEAK	05	1327 1500	1332	S25 E16	4136	93	1	2		2.25				
ONDREJOV	05	1330 E 1344		S25 E17	4136	14 D	16	3	1331			2.90		
* SAC PEAK	05	1532 1547	1535	S31 W90	4125	15	1	2		2.30				
USNRL	05	1656 1709	1659	N05 E86	4134	13	1	2	1659	.68	3.46		71	
* SAC PEAK	05	1823 E 1847 D	1835 E	S25 E14	4136	24 D	1	1		2.06				
HUANCAYO	05	1942 2009	1955	S10 W90	4125	27	1	2						
HAWAII	05	1948 1956	1950	N09 E70	4134	8	1	2	0530	1.20	2.50			
MT WILSON	05	1949 1957		N14 E66	4134	08	1							
HUANCAYO	05	1950 E 2017 D	1951 U	N12 E70	4134	27 D	16	2						Slow S-SWF
* MT WILSON	05	2039 2106		N16 E54	4134	27	1							
HAWAII	05	2042 2050	2042	N09 E70	4134	8	16	2	0530	2.60	3.20			Slow S-SWF
MT WILSON	05	2100 2101		N13 E64	4134	61	1							
MT WILSON	05	2116 2200		N13 E75	4134	44	16							
MT WILSON	05	2116 2200		N09 E70	4134	44	16							
HAWAII	05	2120 2150	2128	N04 E75	4134	30	2	2	0530	3.30	6.60			
HAWAII	06	0006 0018	0006	N14 W72	4124	12	1	2	0530	1.40	2.90			
SIMFEROPOL	06	0506 E		N15 W80	4124		2							
ATHENS	06	0536 E 0620		N11 W86	4124	44 D	1	3		.30	2.10			
KRASHAYA	06	0615 E		S25 E10	4136		2							
SIMEIZ	06	0751 0849		N25 W65	4124	58	26							
R O HERST	06	0753 0840 D	0805 F	N21 W61	4124	47 D	2	1	0802	2.70	6.00			G-SWF
CAPRI S	06	0755 0835		N28 W61	4124	40	2	3	0803	7.00	14.70			

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* SIMEIZ	06	0815	0900			N12 E65 4134	45	16							
* CAPRI S	06	0816 E	0909 D			N09 E62 4134	53 D	1							
STOCKHOLM	06	0842 E	0853 D			N10 E60 4134	11 D	2	3	0831	1.50	3.20			
STOCKHOLM	06	0842 E	0853 D			N20 W70 4124	11 D	16	2						
SAC PEAK	06	1332	1402			S28 W90 4125	30	1	2						
* HUANCAYO	06	1618 E	1627	1340		S29 W41 4129	9 D	1	1		2.70				G-SMF
* MT WILSON	06	1907	1934			N14 E52 4134	27	1							Slow S-SMF
MT WILSON	06	1923	1928			S28 W90 4125	05	1							
SAC PEAK	06	1947 E	2012	1947 E		N26 W72 4124	25 D	1	1		3.30				
* MT WILSON	06	2225	2235			S25 E00 4136	10	1							
* MT WILSON	06	2310	2320			S28 W90 4125	10	1							
MT WILSON	07	0045	0050			S28 W90 4125	05	1							
MT WILSON	07	0110	0125			N16 W90 4124	15	1							G-SMF
* WENDEL	07	0748	0808			N28 W85 4124	20	1				8.00			S-SMF
WENDEL	07	0810	0833			N19 W88 4124	23	2				12.00			
* ONDREJOV	07	0811 E	0831	0823		N15 W85 4124	20 D	2	2	0823			5.80		S-SMF
ARCETRI	07	0815 E				N13 W88 4124		16	2						
SIMEIZ	07	0817	0829			N13 W90 4124	12	16							
CAPRI S	07	0818	0830 D			N10 W90 4124	12 D	1	3	0818	2.00				
STOCKHOLM	07	0843	0855 D			N10 E50 4134	41 D	1	1						
ZURICH	07	1043	1045			N16 E47 4134	02 D	1	1						
ONDREJOV	07	1355	1405	1356		N14 E55 4139	10	1	3	1043		1.00			
WENDEL	07	1418	1439			N10 E46 4134	21	1	3	1356			2.20		
ONDREJOV	07	1421 E	1455	1432		N17 E56 4134	34 D	1	3	1432			2.40		Slow S-SMF
WENDEL	07	1424	1506			N10 E50 4134	42	1							
R O EDIN	07	1433 E	1440 D			N11 E47 4134	7 D	1	1	1437	5.00	7.50	1.76		
MT WILSON	07	1913	1940			S25 W06 4136	27	1							
MT WILSON	07	1916	1940			N07 E49 4134	24	1							
HAWAII	07	2134	2210	2144		N10 E43 4134	36	2	3	0545	4.10	5.80			
MT WILSON	07	2136	2219			N14 E39 4134	43	1							
MC MATH	07	2138 E	2138 D			N15 E40 4134		2							G-SMF
SAC PEAK	07	2147 E	2252 F	2159 F		N12 E46 4134	65 D	26	1		12.20				
SAC PEAK	07	2314	2405 D	2405 D		S24 W17 4133	51 D	1	1		3.00				
MITAKA	08	0126	0145 D	0131 U		S23 W18 4136	19 D	16	1	0133	5.67	6.75	2.33	149	
ZURICH	08	0919	0932			N08 E37 4134	13	1	3	0923		3.00			
WENDEL	08	0920	0934			N07 E42 4134	14	1				4.00			
ZURICH	08	0923	0936	0931 U		S41 E63 4144	13	1	3	0931		4.00			
WENDEL	08	0928	0936			S43 E66 4146	8	16				7.00			
* ZURICH	08	0936	0942			N12 E37 4134	06	1	3	0937		2.00			
ZURICH	08	1013 E	1030			S12 E31 4140	17 D	1	3	1013		2.00			
* CAPRI S	08	1308 E	1320			S41 E75 4144	12 D	1	3	1316	.80	3.00			
SAC PEAK	08	1717	1730	1722		S50 E90 4144	13	1	2		2.06				G-SMF
MT WILSON	08	1720	1727			S43 E90 4144	07	1							G-SMF
MT WILSON	08	1828 E	1830			S18 E21 4138	02 D	1							
* MT WILSON	08	1828 E	1915			N13 E25 4134	47 D	1							
SAC PEAK	08	2242	2322	2247		N05 E30 4134	40	16	2		3.80				
MT WILSON	08	2256 E	2304			N02 E31 4134	08 D	1							
HAWAII	09	0136	0200 D	0150		S17 E22 4138	24 D	1	2	0600	2.10	2.40			
MT WILSON	09	0137	0150			S13 E19 4138	13	1							
ONDREJOV	09	0759 E	0828	0813		N11 E21 4134	29 D	2	3	0813			2.60		G-SMF
SIMEIZ	09	0801	0838			N14 E24 4134	37	2							
R O HERST	09	0801 E	0840	0812		N13 E20 4134	39 D	16	3	0817	3.70	4.00	2.90	110	
CAPRI S	09	0801 E	0851 D			N14 E19 4134	50 D	2	3	0813	6.00	6.60	2.30		G-SMF
ONDREJOV	09	0802	0829	0810		N17 E29 4134	27	16	3	0810					
ARCETRI	09	0810 E	0823 D			N10 E20 4134	13 D	16	2	0823	12.00	13.00			
ARCETRI	09	0810 E	0825			N12 E25 4134	15 D	2	3						
* ONDREJOV	09	1334 E	1337 D			S11 E13 4138	03 D	1	2	1334			3.00		
SAC PEAK	09	1447	1510	1452		S48 E48 4144	23	1	2		3.45				
* MT WILSON	09	1704	1718			S22 E70 4143	14	1							
ZURICH	09	1705 E	1707 D			S23 E63 4143	02 D	1	1	1705		3.00			
MT WILSON	09	1715	1740			N05 E35 4134	25	1							
MT WILSON	09	1848	1852			S17 E22 4138	04	1							
MT WILSON	10	0015	0030			S43 E47 4144	15	1							
MT WILSON	10	0045	0105			N12 E10 4134	20	1							
WENDEL	10	0812	0914			S17 E17 4141	62	16				8.00			
SIMEIZ	10	0814	0915			S18 E15 4141	61	16							
* CAPRI S	10	0819 E	0910 D			S14 E14 4141	51 D	1	2	0830	2.00	2.20			
ARCETRI	10	0822 E				S18 E16 4141		1	2	0843	6.00	7.00			
ONDREJOV	10	0834 E	0852	0850		S17 E15 4141	18 D	1	3	0850			3.30		

SOLAR FLARES
SEPTEMBER 1957

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Observatory	Date Sept. 1957	Time Observed		Time Max. Phase UT	Approx. Position Lat. Mer. Dist.	McMath Plage Retion Number	Duration Min.	Imp. par. C-ance	Obs. Cond.	Time of Meas. UT	Mags. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width Ha	Max. Int. %	Provis. Ionospheric Effect
		Start UT	End UT												
LARCETRI	10	0855	E		S18 E16	4141		1	2	0923	2.00				
WENDEL	10	0928	0937		S07 W15	4147	5	1				2.00			
WENDEL	10	1044	1054		S17 E31	4141	10	1				3.00			
WENDEL	10	1135	E 1151 D		S21 W44	4136	16 D	16				3.00			
WENDEL	10	1324	1350		S18 E13	4138	26	16				6.00			
WENDEL	10	1357	1434		N10 E04	4134	37	2				4.00			
*ONDREJOV	10	1501	E 1503 D		S17 E13	4141	02 D	1	1			11.00			G-SWF
HUANCAYO	10	1636	1725	1657 U	S16 E11	4141	49	1	1						G-SWF
MT WILSON	10	1645	1656		S17 E13	4141	11	1							
SAC PEAK	10	1647	E 1840	1655	S23 W55	4136	113 D	1	2		2.06				
MT WILSON	10	1654	1663		S22 W48	4136	09	1							
HUANCAYO	10	1656	E 1730 D	1719 U	S20 W51	4136	34 D	1	1						Slow S-SWF
MT WILSON	10	1656	1703		S12 E13	4141	07	1							
MT WILSON	10	1735	1757		S22 W49	4136	22	1							
HAWAII	10	1746	E 1814 D		S19 W58	4133	28 D	1	1	0800	2.00	4.50			
MT WILSON	10	1815	1821		S17 E12	4141	06	1							
MT WILSON	10	1853	1910		S17 E38	4143	17	1							
HAWAII	10	1903	1916	1903	N13 E90	4148	13	1	3	0800	2.10				
MT WILSON	10	1903	1928		N15 E90	4148	25	1							G-SWF
SAC PEAK	10	1905	1952	1912	S21 W47	4136	47	2	2		7.95				
HAWAII	10	1936	1946	1940	S14 W02	4138	10	2	3	0800	2.60	2.80			
HAWAII	10	1958	2052	2008	N12 W00	4134	54	3	3	0800	2.50	2.50			
MT WILSON	10	2009	2031		N12 E07	4134	22	1							
HAWAII	10	2032	2054	2038	N13 E90	4148	22	3	3	0800	2.10				
MT WILSON	10	2035	2055		N15 E90	4148	20	1							
MT WILSON	10	2310	2317		S15 E08	4141	07	1							
MT WILSON	11	0035	0100		S17 E07	4141	25	1							
HAWAII	11	0056	0114	0058	S15 W07	4141	18	1	3	0800	2.70	2.90			G-SWF
MT WILSON	11	0110	0120		S20 W08	4138	10	1							
MT WILSON	11	0120	0200		S20 W04	4138	40	1							
HAWAII	11	0140	0200	0142	N13 E90	4148	20	1	3	0800	2.10				
MT WILSON	11	0143	0148		N16 E90	4148	05	1							
SYDNEY	11	0245	E 0303		N17 E05	4134	18 D	3							
ABASTUMANI	11	0449	E		N23 W01	4134		2							
CAPRI S	11	0856	0914 D		S23 W61	4136	18 D	2	2	0859	1.70	3.70			Slow S-SWF
CAPRI S	11	1142	1228 D		S17 W01	4141	46 D	2	2	1205	2.00	2.10			S-SWF
SAC PEAK	11	1512	1605	1522	S15 W15	4138	53	1	3		3.90				G-SWF
HUANCAYO	11	1654	1705 D	1654 U	S06 W32	4147	11 D	2	3						Slow S-SWF
CLIMAX	11	1813	1853	1823	S15 W13	4138	40	2		1823	9.00				
SAC PEAK	11	1812	1855	1825	S15 W15	4138	43	2	3		8.50				
USNRL	11	1815	1851 D	1824	S13 W17	4138	36 D	2	2	1824	2.15	2.42		105	Slow S-SWF
MT WILSON	11	1819	1838		S20 W18	4138	19	1							
USNRL	11	1834	1944	1842	S43 E39	4144	70	2	2	1842	4.30	8.39		83	
SAC PEAK	11	1835	1935	1845	S43 E36	4144	60	1	3		3.45				
MT WILSON	11	1839	1900		S43 E24	4144	21	1							S-SWF
*MT WILSON	11	2032	2049		S10 W30	4138	17	1							
SAC PEAK	11	2135	2205	2140	S19 W02	4141	30	1	3		4.75				G-SWF
CLIMAX	11	2138	E 2212	2138	S19 W01	4141	34 D	1		2138	4.50				
*MT WILSON	11	2355	2405		N25 E32	4142	10	1							
*MT WILSON	12	0020	0040		N10 W10	4134	20	1							
ATHENS	12	0708	0724	0713	N08 W14	4134	16	1	3		2.40	2.40			Slow S-SWF
SIMFEROPOL	12	0709	0731		N12 W15	4134	22	2							
CAPRI S	12	0709	0736 D		N10 W20	4134	27 D	1	1	0711	3.50	3.80			S-SWF
THE HAGUE	12	0710	0735		N09 W14	4134	25	1							
ONDREJOV	12	0710	E 0719		S19 W07	4141	09 D	2	2	0712			3.40		
*ONDREJOV	12	1029	E 1040		S23 E25	4143	11 D	2	2	1034			2.40		
ONDREJOV	12	1029	E 1041		S17 W13	4138	12 D	2	2	1032			2.20		
CAPRI S	12	1030	E 1107 D		S14 W13	4138	37 D	1	1	1035	1.90	2.00			
ONDREJOV	12	1130	1143	1135	S18 W12	4141	13	2	2	1135			2.60		
ONDREJOV	12	1213	E 1217 D		S18 W07	4141	04 D	2	2	1213			3.20		G-SWF
ONDREJOV	12	1409	E 1422 D		N10 W17	4134	13 D	1	1	1421			2.10		
*ONDREJOV	12	1444	1451	1448	S17 W15	4141	07	1	3	1448			2.20		
SAC PEAK	12	1510	1550	1517	N11 W19	4134	40	1	3		8.15				
CLIMAX	12	1510	1610	1520	N11 W18	4134	60	2	3	1520	3.90				
MEUDON	12	1511	1522 D		N12 W15	4134	11 D	1							
R O HERST	12	1512	1539	1516	N10 W20	4134	27	2	2	1516	3.20	3.50	5.10	150	S-SWF
ONDREJOV	12	1514	1536 D	1516	N10 W18	4134	22 D	3	2	1516			6.80		
ZURICH	12	1514	1550		N10 W17	4134	36	2	3	1514		8.00			
USNRL	12	1517	E 1638		N11 W18	4134	81 D	2	1	1520	4.52	4.85		180	
*SAC PEAK	12	1535	1622	1543	S16 W15	4141	47	1	3		2.90				
*USNRL	12	1547	1622	1602	S17 W17	4141	35	1	2	1602	1.81	2.04		88	Slow S-SWF

SOLAR FLARES
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Observatory	Date Sept. 1957	Time Observed		Time Max. Phase	Approx. Position Lat. Mer. Dist.	McMath Flare Region Number	Dura- tion Min.	Im- por- tance	Obs. Cond.	Time of Max. UV	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width Ha	Max. Int. %	Provis. Iono- spheric Effect
SAC PEAK	12	1632	1642	1635		S16 W15 4141	10	1							
ONDREJOV	12	1635 E	1640 D			S17 W16 4141	05 D	16	3		3.00				
*CAPRI S	12	1657 E	1705 D			S14 W15 4138	0 D	1	2	1635					
SAC PEAK	12	1837	1917	1840		S16 W16 4141	40	16	1	1657	2.50	2.60	2.90		
USNRL	12	1839	1915	1841		S18 W18 4141	36	16	3		2.75				S-SMF
HAWAII	12	1838	1912	1840		S04 W20 4140	34	16	2	1841	1.81	2.08	2.00	146	S-SMF
SAC PEAK	12	1902	1927	1910		S12 W31 4138	25	1	3	0500	5.20	6.00			
USNRL	12	1903	1929	1908		S15 W28 4138	26	1	2	1908	2.15				
CLIMAX	12	1924	2000	1928		S15 W16 4141	36	1	2	1928	1.70	2.06		88	Slow S-SMF
SAC PEAK	12	2100	2112	2107		S15 W20 4141	12	1	3		2.80				
*HAWAII	12	2148	2222	2154		S22 W80 4136	34	1	3	0500	2.35				
											1.99				Slow S-SMF
ONDREJOV	13	0531 E	0537			S17 W26 4141	06 D	1	3	0533					
*ONDREJOV	13	0622	0633 D	0623		S18 W25 4141	11 D	2	2	0623			2.60		
CAPRI S	13	0642 E	0707			S13 W25 4141	25 D	1	2	0644	2.20	2.50	7.40		
ONDREJOV	13	0751 E	0755			S44 E11 4146	04 D	1	3	0753					
ONDREJOV	13	0801 E	0805 D			S18 W26 4141	04 D	1	2	0802			2.50		
USNRL	13	1214	1345	1220		N22 E77 4151	91	1	1	1220	.56	2.48	3.10	79	
ZURICH	13	1244	1258			S16 W27 4141	14	1	3	1244		2.00	1.00		
USNRL	13	1313	1341			S18 W25 4141	28	1	1	1322	2.94				
CAPRI S	13	1313 E	1342			S14 W23 4141	29 D	2	2	1316	5.00	3.56		84	
R O HERST	13	1317 E				S15 W25 4141		1	1	1317	3.10	5.50			Slow S-SMF
CAPRI S	13	1343	1429			S12 W28 4141	46	16	2	1414	2.40	3.70			
R O HERST	13	1348	1420	1350		S15 W30 4141	32	1	1	1353	1.00	1.30	2.50	115	S-SMF
MEUDON	13	1348 E	1510			S17 W25 4141	22 D	1							
MEUDON	13	1411	1418 D			N10 W32 4134	07 D	16	2	1420	3.39	4.05	2.00	159	
USNRL	13	1413	1508	1420		N08 W32 4134	55	16	3	1423	1.90	2.30	4.30	185	S-SMF
R O HERST	13	1415	1450	1422		N09 W30 4134	45	2	2	1422	4.00	4.80			
CAPRI S	13	1415	1500			N09 W33 4134	28	1							
MT WILSON	13	1424	1452			S17 W31 4141	10 D	1	2	1518			2.60		
*ONDREJOV	13	1508 E	1518			S30 E58 4150	07 D	1	2	1552			2.80		
ONDREJOV	13	1552 E	1559			S16 W30 4138	05 D	1	3	1557			2.00		
ONDREJOV	13	1556 E	1601			S16 W31 4138	07 D	1	2	1606			1.80		Slow S-SMF
*USNRL	13	1603	1610 D			N22 E74 4151	48 D	1	2	1735	1.35	4.35		83	
HAWAII	13	1729	1817 D	1735		S17 W32 4138	38 D	1	2	0615	3.10	4.10			
MT WILSON	13	1844 E	1922			S17 W32 4138	16	1	1	1846	1.70	2.35		108	S-SMF
USNRL	13	1845	1901			S16 W32 4138	47 D	1	1	1955	2.60	3.34		111	Slow S-SMF
USNRL	13	1846 E	1933			S19 W28 4141	46 D	1	3	0615	2.60	3.40			
*MT WILSON	13	1941	2027 D	1955		S15 W23 4141	20	16							
HAWAII	13	1942	2002			S18 W28 4141	26 D	1							
*MT WILSON	13	1942 E	2008	1946		N24 E10 4142	10	1	3	0615	2.60	3.40			
*MT WILSON	13	2005	2015			S17 W32 4138	08	1							
*HAWAII	13	2052	2100			S17 W32 4138	12	1	3	0615	3.10	4.10			Slow S-SMF
*MT WILSON	13	2052	2104	2052		S15 W33 4138	12	1							Slow S-SMF
		2130	2142												Slow S-SMF
*MT WILSON	14	0151	0200			S17 W29 4141	09	1							Slow S-SMF
MITAKA	14	0154 E	0201 D			S22 W36 4141	07 D	1	1	0157	3.80	4.87	1.99		Slow S-SMF
TASHKENT	14	0230	0300			N11 W40 4134	30	26							
SYDNEY	14	0240	0315			N10 W38 4134	35	2							
*ONDREJOV	14	0620 E	0643	0635		N23 E63 4151	23 D	1	2	0635					
ATHENS	14	0722	0731			N10 E87 4152	9	2	4		.80	7.50	3.60		S-SMF
ONDREJOV	14	0725 E	0729 D	0726		N10 E82 4152	04 D	1	3	0726			4.20		
SIMEIZ	14	0725	0810			N08 W81 4135	51	2							
OTTAWA	14	1215	1317	1224		S25 E02 4143	02	2	1	1224	5.28	6.27			
USNRL	14	1218	1326	1227		S25 E02 4143	68	1	2	1227	2.82	3.30		94	Slow S-SMF
CAPRI S	14	1222 E	1301			S22 W06 4143	39 D	2	1	1222	6.00	6.60			
USNRL	14	1336	1357	1338		N06 E85 4152	21	2	2	1338	1.47	7.40		76	Slow S-SMF
*USNRL	14	1348	1400	1354		S16 W40 4141	15 D	1	2	1354	1.81	2.54		73	
MC MATH	14	1350 E	1405 D			S16 W40 4141	15 D	1							
*USNRL	14	1402	1434	1408		S16 W40 4141	32	1	2	1408	2.03	3.00		83	
NIZAMIAH	15	0336 E	0349 D			N01 E18 4148	13 D	1	1	0339	1.52	4.63	1.80		G-SMF
TASHKENT	15	0426	0450			N12 W53 4134	24	2							S-SMF
*SAC PEAK	15	1927	2017	1947		N18 E45 4151	50	1	2		5.20				
SAC PEAK	15	2030	2107	2042		N11 W63 4134	37	16	2		3.85				Slow S-SMF
HAWAII	15	2032	2044	2040		N07 E56 4152	12	16	3	0615	5.20	8.60			S-SMF
HAWAII	15	2040	2110	2042		N13 W64 4134	30	2	3	0615	6.20	10.40			
*SAC PEAK	15	2110	2200	2117		N22 E46 4151	50	16	2		5.10				
SAC PEAK	15	2222	2255	2230		N06 E58 4152	33	16	2		5.10				
HAWAII	15	2224	2252	2228		N03 E57 4152	28	16	3	0615	4.70	8.60			G-SMF
NIZAMIAH	16	0309	0321	0312		N25 E38 4151	12	1	3	0312	2.43	3.18	1.40		Slow S-SMF

SOLAR FLARES

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III

Observatory	Date Sept. 1957	Time Observed		Time Max. Phase UT	Approx. Position Lat. Mer.	McMath Flare Region Dist. Number	Duration Min.	Importance	Obs. Cond.	Time of Max. UT	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width H _g	Max. Int. %	Provis. Ionospheric Effect
		Start UT	End UT												
CAPRI S	16	0737 E	0802 D		N24 E42	4151	25 D	1	3	0753	1.40	2.10			
ONDREJOV	16	1250 E	1257		N24 E48	4151	07 D	1	2	1252					S-SWF
KANZELHOHE	16	1305	1405	1307	N08 E48	4152	60	1	2	1307	1.47	2.22	3.10	111	S-SWF
CLIMAX	16	1306 E	1332 D		N08 E45	4152	26 D	1	3	1309	1.50	2.10			Slow S-SWF
ONDREJOV	16	1307	1324		N07 E53	4152	17	2							
USNRL	16	1310 E	1329 D		N06 E50	4152	19 D	1	1	1313			2.70		
SAC PEAK	16	1451	1649	1458	N08 E48	4152	58	16	2	1458	1.36	2.06	1.00	133	
CAPRI S	16	1452	1542	1500	N07 E48	4152	50	1	2		3.25				
MT WILSON	16	1454 E	1515 D		N08 E43	4152	21 D	16	3	1456	3.00	4.20			S-SWF
ONDREJOV	16	1455	1515		N09 E43	4152	20	1							
MC MATH	16	1500 E	1518 D		N06 E50	4152	15 D	1	1	1514			2.50		
SAC PEAK	16	1500 E	1521 D		N08 E48	4152	21 D	2							
ONDREJOV	16	1517	1645	1522	N11 E47	4152	88	2	2		7.90				
CLIMAX	16	1520 E	1541 D		N09 E47	4152	21 D	26	2	1523			4.90		
USNRL	16	1520	1544	1522	N10 E47	4152	24	2		1522	6.50				
CAPRI S	16	1520	1709	1522	N12 E47	4152	109	26	2	1522	1.74	5.85	1.00	174	
MT WILSON	16	1521 E	1621		N10 E50	4152	60 D	26	3	1521	7.00	10.50			
KANZELHOHE	16	1525 E	1602		N09 E43	4152	37 D	2							
HAWAII	16	1528 E	1543		N12 E47	4152	15	2							
HAWAII	16	1840	1846	1842	N23 E43	4151	6	1	2	0545	2.50	3.10			
SAC PEAK	16	2022	2032	2026	N12 W75	4134	10	1	2	0545	1.50	3.90			
HAWAII	16	2242	2300	2245	N09 W78	4134	18	1	2		2.06				S-SWF
MT WILSON	16	2244	2304	2246	N15 W80	4134	20	16	2	0545	2.70	6.70			
SAC PEAK	16	2252	2310	2325	N08 W75	4134	18	1							
MT WILSON	16	2307	2345		N23 E36	4151	38	1	2		2.90				
	16	2310	2345		N23 E35	4151	35	1							
MT WILSON	17	0005	0034		N09 E39	4151	29	1							
CAPRI S	17	0756 E	0945 D		N22 E29	4151	109 D	2	3	0830	4.00	5.00			
ARCETRI	17	0806 E			N23 E26	4151		16	2						
ONDREJOV	17	0808 E	0823		N22 E29	4151	15 D	26	1	0809			2.80		S-SWF
MEUDON	17	0845 E			N25 E25	4151		1							
ONDREJOV	17	1039 E	1050		N24 E29	4151	11 D	16	1	1048			3.40		
ONDREJOV	17	1057 E	1107 D		N24 E27	4151	10 D	1	1	1058			3.10		
CAPRI S	17	1145	1206 D		N25 W40	4142	21 D	1	3	1151	1.80	2.70			
OTTAWA	17	1145 E	1210	1150	N25 W39	4142	25 D	1	1	1150	2.03	2.74			S-SWF
OTTAWA	17	1148		1201	N23 E23	4151		1	1	1201	1.97	2.23			
SAC PEAK	17	1512	1535	1515	N24 E25	4151	23	1	2		3.45				S-SWF
CAPRI S	17	1513 E	1531 D		N24 E27	4151	18 D	1	2	1515	2.00	2.20			
MC MATH	17	1515 E	1530 D		N18 E22	4151	15 D	2							
ZURICH	17	1525 E	1625		N22 E21	4151	60 D	1	2	1525		3.00			
ZURICH	17	1545	1621		N11 E36	4152	36	1	2	1545		3.00			
MC MATH	17	1605 E	1700 D		N18 E22	4151	55 D	16							
SAC PEAK	17	1637	1725	1642	N23 E21	4151	48	16	2		4.50				
HAWAII	17	1944	2000	1946	N22 E22	4151	16	2	1	0530	5.80	6.50			S-SWF
MC MATH	17	1945 E	2000 D		N18 E20	4151	15 D	16							S-SWF
SAC PEAK	17	2225 E	2257	2225 U	N24 E19	4151	32 D	1	2		2.95				G-SWF
CLIMAX	17	2250	2254	2252	N19 E20	4151	4	1		2252	2.70				G-SWF
SYDNEY	17	2315	2400		N21 E20	4151	45	2	2		5.90				S-SWF
SAC PEAK	17	2315	2400 D	2322	N23 E18	4151	45 D	2							
MITAKA	18	0006 E	0027	0011 U	N24 E16	4151	21 D	1	1	0006	1.84	2.00	2.04	122	
MITAKA	18	0038	0114	0052 U	N25 E19	4151	36	1	2	0052	1.34	1.50	2.40	115	
HAWAII	18	0108	0124 D	0108	N07 E32	4152	16 D	16	1	0530	4.50	5.50			
MITAKA	18	0110	0133	0110 U	N13 E25	4152	23	1	2	0112	2.78	3.00	2.21	140	
MITAKA	18	0117	0134		N13 E34	4152	17	1	2	0127	2.78	3.20	2.22	118	S-SWF
NIZAMIAH	18	0425	0442	0428 U	N22 E15	4151	17	1	3	0428	2.43	2.61	1.20		Slow S-SWF
MITAKA	18	0539 E	0549		N17 E09	4151	10 D	16	1	0539	5.64	5.85	1.62	107	
SIMEIZ	18	0624	0708		N23 E14	4151	44	26							
ATHENS	18	0629	0655	0635	N23 E13	4151	26	1	4		2.30	2.50			
CAPRI S	18	0630 E	0716 D		N23 E12	4151	46 D	16	1	0633	3.00	3.30			S-SWF
ONDREJOV	18	0638 E	0656		N25 E17	4151	18 D	2	2	0638			2.80		
ZURICH	18	0821 E	0852 D		N22 E12	4151	31 D	1	3	0833			3.50		
ONDREJOV	18	0916 E	0920 D		N20 E14	4151	04 D	1	2	0917			2.50		G-SWF
ONDREJOV	18	1036	1048	1040 U	N24 E13	4151	12	16	2	1143	7.00	7.70			
CAPRI S	18	1037	1207		N23 E10	4151	90	26	3			10.00			
ZURICH	18	1048 E	1600 D		N22 E10	4151	312 D	2							
ONDREJOV	18	1100 E	1125		N23 E11	4151	25 D	16	3	1101			3.50		
OTTAWA	18	1150 E			N22 E10	4151		26	1	1150	12.35	13.04			
MC MATH	18	1253 E	1545 D		N22 E11	4151	172 D	3							
ONDREJOV	18	1303	1313	1306	N23 E06	4151	10 D	1	3	1306			3.20		
CAPRI S	18	1305	1457		N22 E09	4151	112	3	3	1359	11.00	12.10			Slow S-SWF
ZAGREB	18	1312			N22 E10	4151		2							

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Observatory	Date Sept. 1957	Time Observed		Time Max. Phase	Approx. Position Lat. Mer. Dist.	McMath Plage Region Number	Dura- tion Min.	Im- por- tance	Obs. Cond.	Time of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width Ha	Max. Int. %	Provis. Iono- spheric Effect
		Start UT	End UT												
R O HERST	18	1312 E	1418	1325 U	N23 E13	4151	6 D	16	2	1323	4.20	4.40	2.50	100	G-SWF
ONDREJOV	18	1315	1404	1319	N23 E06	4151	49	2	2	1319			3.20		
CLIMAX	18	1353 E	1353 D		N23 E12	4151		2	2	1353	5.60				
SAC PEAK	18	1354 E	1515 F	1354 U	N22 E09	4151	81 D	26	2		13.35				
USNRL	18	1451 E	1538 D		N22 E06	4151	47 D	3	1	1513	11.98	12.50		95	
*USNRL	18	1511	1613 D	1528	N23 E11	4151	62 D	1	2	1528	2.60	2.78		79	
CLIMAX	18	1658 E	1800 D	1702	N22 E09	4151	62 D	2		1702	5.40				
SAC PEAK	18	1722	1742 D	1742	N23 E08	4151	20 D	26	2		12.05				
OTTAWA	18	1725		1740	N23 E08	4151		2	1	1740	10.15	10.72			
MT WILSON	18	1725	1935		N22 E05	4151	170	3							
MC MATH	18	1727 E	1955 D		N25 E17	4151	148 D	3							
HAWAII	18	1735	1800	1738	N23 E09	4151	25	2	3	1007	9.70	10.20			
HAWAII	18	1818	2040	1840	N21 E03	4151	142	36	3	1007	31.00	32.00			
SAC PEAK	18	1840 E	2110 F	1840	N21 E04	4151	150 D	36	2		24.55				
CLIMAX	18	1845 E	1944 D	1846	N18 E03	4151	59 D	36		1846	33.00				
SAC PEAK	18	2145	2215	2155	N23 E06	4151	30	1	2		2.60				
HAWAII	18	2146	2156	2148	N23 E08	4151	10	1	3	1007	4.10	4.30			
MT WILSON	18	2218	2224		S23 E15	4155	06	1							
SYDNEY	18	2315	2400		N21 E20	4151	45	2							
SAC PEAK	18	2332	2400 D	2337	N16 E08	4151	28 D	1	2		4.00				
MITAKA	18	2333	2352	2336 U	N14 E07	4151	19	16	2	2334	5.67	5.78	2.38	134	
MITAKA	18	2347	2424 D	2351 U	N14 E04	4151	37 D	1	2	2351	2.60	2.65	2.16	134	
MITAKA	19	0006 E	0014 D		S21 E16	4155	08 D	1	2	0006	.89	1.05	1.47	107	S-SWF
MITAKA	19	0037	0047 D		N21 E02	4151	10 D	1	2	0042	1.84	1.91	1.60	96	
MITAKA	19	0246	0327 D	0301 U	N23 E03	4151	41 D	16	2	0302	5.67	5.90	2.50	134	
NIZAMIAH	19	0250 E	0320		N24 E02	4151	40 D	2	2	0250	7.29	7.61	1.60		
NIZAMIAH	19	0350 E	0536	0355 U	N24 E02	4151	106 D	3	2	0355	12.15	12.69	2.60		
SYDNEY	19	0400	0500		N24 W10	4151	60	3							
MITAKA	19	0400 E	0545	0400 U	N23 E03	4151	105 D	3	2	0405	18.70	19.40	3.70	232	
TASIKENT	19	0402	0515		N21 E02	4151	113	3							
ALMA-ATA	19	0749	0858		N24 W00	4151	69	26							
CAPRI S	19	0749	0859 D		N22 E00	4151	10 D	16	3	0824	4.00	4.30			
MOSCOW	19	0750	0926		N22 E01	4151	136	26	4		5.00	5.20			G-SWF
ATHENS	19	0751	0826		N25 E00	4151	35	2				16.00			
WENDEL	19	0808 E	0856 D		N24 E01	4151	48 D	26				2.00			
MEUDON	19	0809 E	0854		N26 E10	4151	45 D	1	3	0836		2.00			
ZURICH	19	0826 E	1200	1025 U	N21 W01	4151	214 D	2	3	0843		2.00			
ZURICH	19	0826 E	0858		S23 E08	4155	32 D	1	3	0836		2.00			
ZURICH	19	0836	0855		S23 E08	4155	19	1	3	0922		2.00			
ZURICH	19	0922	0941		N25 W12	4151	42 D	1				3.00			
WENDEL	19	0943 E	1025		N22 W02	4151	25 D	1	3	1006	2.00	2.20			
CAPRI S	19	1002 E	1027 D	1006 U	N22 E00	4151	26	1	3	1006	2.50	2.60	2.28		
R O EDIN	19	1003	1029		N23 E02	4151	20	16				6.00			G-SWF
WENDEL	19	1105	1025	1112 U	N23 W05	4151	30	1	3	1112	5.00	5.20	3.64		
R O EDIN	19	1110	1140		N26 E05	4151	37 D	26				14.00			
WENDEL	19	1110	1147 D		N27 W08	4151	48 D	16				6.00			
WENDEL	19	1111	1159 D		N22 W04	4151	23 D	1	3	1116	2.50	2.70			
CAPRI S	19	1112 E	1135 D		N07 E04	4152	29	1	3	1217		2.00			
*ZURICH	19	1216	1245		N23 W00	4151	32	1				3.00			
WENDEL	19	1332	1404		N23 W05	4151	14 D	1	3	1346		4.00			
ZURICH	19	1344 E	1358		N23 W03	4151	17 D	16				7.00			
WENDEL	19	1623	1640 D	1628	N23 W01	4151		1	1	1628	2.78	2.92			
OTTAWA	19	1625			N25 E03	4151	15	1							S-SWF
MT WILSON	19	1625	1640		N26 E03	4151	07	1							
*MT WILSON	19	1718	1725		N24 W03	4151	10	1		1806	2.60				
CLIMAX	19	1802	1812	1806	N24 W01	4151	4	1	1	0500	2.30	2.40			
HAWAII	19	1806	1810	1808											
MT WILSON	19	2210	2330												
SYDNEY	20	0345	0450		N23 W08	4151	105	2							
NIZAMIAH	20	0347	0434	0355 U	N23 W13	4151	47	16	2	0355	4.25	4.54	1.60		
NIZAMIAH	20	0443 E	0501	0448 U	S22 W03	4155	18 D	1	2	0448	2.43	2.79	1.50		
SYDNEY	20	0445 E	0510		S23 E00	4155	25 D	16							
NIZAMIAH	20	0529 E	0552 D	0533 U	N23 W13	4151	23 D	1	2	0533	2.13	2.27	1.30		
ZURICH	20	0725 E	0830		N07 W06	4152	65 D	1	3	0725		3.00			S-SWF
ZURICH	20	0725 E	0835		N23 W11	4151	70 D	1	3	0725		7.00			
WENDEL	20	1021 E	1040 D		N13 E85	4159	19 D	1				4.00			
USNRL	20	1204	1208 D		N23 W15	4151	4 D	1	1	1208	3.38	3.68		102	
MEUDON	20	1237	1430		S45 W45	4149	113	16							
*ZURICH	20	1318 E	1343		N07 W10	4152	25 D	1	3	1326		3.00			
ZURICH	20	1326	1338		N24 W09	4151	12	1	3	1326		1.00			
*ZURICH	20	1336	1352	1340 U	S24 W08	4155	16	1	3	1340		1.00			

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Observatory	Date Sept. 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 Max. UT	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width Ha	Max. Int. %	Provis. Ionospheric Effect
* WENDEL	20	1430 E 1455 D		N25 W25	4151	25 D	1							
ATHENS	20	1432 E 1455 D		N24 W28	4151	23 D	1							
ZURICH	20	1440 E 1447 D		N24 W16	4151	07 D	1	4		2.00				S-SWF
SAC PEAK	20	2030	2040	N21 W23	4151	50	1	2	1440	3.95				
HAWAII	20	2032	2036	N22 W22	4151	12	1	2	0600	3.50	3.90			G-SWF
CLIMAX	20	2032	2034	N18 W22	4151	28	1	2	2034	2.10				
SAC PEAK	20	2117	2123	N07 W16	4152	65	2	2		5.90				
CLIMAX	20	2120	2123	N06 W14	4152	15 D	1	2	2123	3.40				S-SWF
HAWAII	20	2120 E 2146	2122	N07 W15	4152	26 D	2	2	0600	6.20	6.40			
SAC PEAK	20	2205	2215	N15 E90	4159	25	16	2		4.90				
SAC PEAK	20	2220	2222	N23 W24	4151	30	1	2		3.30				S-SWF
CLIMAX	20	2224 E 2230 D	2224	N21 W16	4151	6 D	1		2224	2.50				
MITAKA	21	0030 E 0105 D	0044 U	N21 W20	4151	35 D	1	1	0030	1.84	1.99	2.38	165	S-SWF
MITAKA	21	0341	0344 U	N06 W21	4152	14	1	2	0342	1.84	1.95	2.21	115	S-SWF
MITAKA	21	0405	0420 U	N24 W17	4151	28 D	2	1	0427	11.00	11.90	2.86	149	S-SWF
TASHKENT	21	0410 E 0427		N23 W24	4151	017 D	2							
TASHKENT	21	0420	0528			068	26							
NIZAMIAH	21	0423 E 0456		N22 W28	4151	33 D	16	2	0423	4.25	4.96	1.80		Slow S-SWF
ATHENS	21	0602	0626	N22 W25	4151	24	16	4		3.80	4.20			Slow S-SWF
ATHENS	21	0656	0709	N16 E85	4159	13	1	4		4.40	3.50			
* ONDREJOV	21	0704 E 0711		N09 W01	4152	07 D	16	2	0705			3.70		S-SWF
WENDEL	21	0739 E 0755 D		N17 E77	4159	16 D	1							
ZURICH	21	0746	0753	N19 E76	4159	07	1	3	0746	3.00	2.00			
ZURICH	21	0740 E 1152		N10 W02	4152	252 D	2	3	0740	8.00				
ONDREJOV	21	0808 E 0819	0813	N08 W03	4152	11 D	1	3	0813			2.60		
ZURICH	21	0813	0855	N07 W21	4152	42	1	3	0828	5.00				
ZURICH	21	0827	0830	N23 W22	4151	03	1	3	0827	1.00				
CAPRI S	21	0908 E 0935 D		N11 W09	4152	27 D	1	2	0911	2.00	2.00			
ONDREJOV	21	0938	0946	N09 W02	4152	08	16	3	0942			4.10		
WENDEL	21	0938	1004 D	N07 W00	4152	26 D	16			3.00				
ONDREJOV	21	0948	1003	N09 W02	4152	15	2	3	0952	5.00				Slow S-SWF
ONDREJOV	21	1006 E 1016	1009	N12 E85	4159	10 D	1	3	1009			4.80		
WENDEL	21	1006	1024 D	N11 E84	4159	18 D	1			3.00		5.00		
WENDEL	21	1012	1033 D	N23 W24	4151	21 D	1			4.00				
ONDREJOV	21	1013 E 1023		N22 W27	4151	10 D	16	3	1013					
ZURICH	21	1018 E 1136		N22 W26	4151	78 D	2	3	1045	10.00		2.80		S-SWF
ONDREJOV	21	1114 E 1123	1116	N22 W26	4151	09 D	16	3	1116			4.30		S-SWF
ONDREJOV	21	1134 E 1140		N07 W04	4152	06 D	1	3	1134			3.40		
* ONDREJOV	21	1230 E 1235		N07 W21	4152	05 D	1	3	1332			2.60		S-SWF
ONDREJOV	21	1325	1337 E	N22 W30	4151	12 D	1	3	1330			2.40		
ONDREJOV	21	1319 E 1329		N05 W23	4152	10 D	1	3	1320			2.40		
CAPRI S	21	1332 E 1440 D		N10 W10	4152	68 D	26	2	1345	5.50	5.50			
WENDEL	21	1332	1447	N13 W08	4152	75	3			20.00				Slow S-SWF
ONDREJOV	21	1333 E 1433	1335	N12 W05	4152	60 D	2	3	1335			7.20		
USNRL	21	1334 E 1342 D		N10 W11	4152	8 D	26	1	1340	5.08	5.21		230	
SAC PEAK	21	1340 E 1510	1340 E	N10 W08	4152	90 D	3	2		13.45				
R O HERST	21	1342 E 1406 D	1342 E	N08 W25	4152	24 D	16	1		3.80	4.10			
SHAUVINS	21	1348 E 1424		N10 W04	4152	36	2							
SAC PEAK	21	1400	1555	N07 W24	4152	115	2	2		7.25				
ARCETRI	21	1420 E 1450		N09 W01	4152	30 D	16	3						
SAC PEAK	21	1410	1430	N15 E85	4159	20	1	2		2.40				
ONDREJOV	21	1418	1424 D	N12 E83	4159	06 D	1	3	1418			2.80		
MT WILSON	21	1430	1441	N22 W21	4151	011	1							
ONDREJOV	21	1440	1535	N05 W23	4152	55	16	3	1505			3.80		
WENDEL	21	1442 E 1538		N08 W17	4152	56 D	2			12.00				
USNRL	21	1443 E 1559		N05 W23	4152	76 D	16	1	1500	1.47	1.61		220	S-SWF
ARCETRI	21	1445	1525	N10 W16	4152	40	16	3						
R O HERST	21	1451 E 1517 D	1451 E	N10 W07	4152	26 D	1	1		2.10	2.10			
MEUDON	21	1501 E		N05 W25	4152		1							
SAC PEAK	21	1510	1630	N08 W07	4152	80	16	2		5.20				
USNRL	21	1539 E 1601 D	1540	N08 W08	4152	22 D	1	1	1549	2.92	3.04		110	
ONDREJOV	21	1542 E 1600		N08 W06	4152	18 D	2	3	1543			2.60		
ARCETRI	21	1515	1540	N23 W26	4151	25	1	3						
ONDREJOV	21	1517	1522	N22 W30	4151	05	1	3	1519			2.70		
SAC PEAK	21	1630	1850	N09 W08	4152	140	16	2		7.25				Slow S-SWF
SAC PEAK	21	1950	2002 D	N24 W33	4151	12 D	1	2		4.15				Slow S-SWF
MT WILSON	21	1952	2001	N24 W31	4151	09	1							
MT WILSON	21	2120	2145	N08 W10	4152	025	16							
SAC PEAK	21	2322	2345 D	N08 W13	4152	23 D	1	2		2.80				
HAWAII	21	2324	2342	N08 W12	4152	18	1	3	0740	2.30	2.30			
MT WILSON	21	2354	2358	N15 E68	4159	04	1							
* MT WILSON	22	0031	0042	N24 W34	4151	11	1							

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Observatory	Date Sept. 1957	Time Observed		Time Max. Phase UT	Approx. Position Lat. Mer. Dist.	McMath Plage Region Number	Dura- tion Min.	In- sur- face	Obs. Cond.	Time of Max. 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												
CAPRI S	22	0623 E	0713			N11 W14 4152	50 D	1	3	0632	5.00	5.20			
CAPRI S	22	0644	0732			N08 W33 4152	48	1	3	0649	2.00	2.40			
ATHENS	22	0658	0709			N08 W35 4152	11	1	4		2.00	2.40			
ATHENS	22	0741	0832			N23 W37 4151	51	16	4		3.70	4.70			
CAPRI S	22	0746 E	0828			N26 W36 4151	42 D	2	3	0801	4.50	6.30			
ARCETRI	22	0800 E	0825			N23 W40 4151	25 D	1	2						S-SMF
CAPRI S	22	0929	0950 D			N12 W21 4152	21 D	1	3	0944	2.50	2.70			
CAPRI S	22	1000	1020			S17 W40 4155	20	1	3	1008	3.20	4.20			S-SMF
CAPRI S	22	1248	1418			N07 W35 4152	90	25	3	1259	6.00	7.80			
USNRL	22	1355 E	1458			N07 W38 4152	63 D	1	1	1355	3.05	3.82			Slow S-SMF
ONDREJOV	22	1455 E	1459			N25 W41 4151	04 D	1	1	1455					
CAPRI S	22	1455 E	1504 D			N27 W40 4151	9	1	2	1455			2.50	79	
USNRL	22	1457	1511	1459		N24 W40 4151	14	1	3	1458	1.80	2.70			
ZURICH	22	1539	1543	1540 U		N08 W44 4152	04	1	2	1459	1.24	1.73		82	
ZURICH	22	1546	1608	1550 U		N24 W41 4151	22	1	2	1540					G-SMF
HAWAII	22	1834	1842	1840		N16 E65 4159	8	1	3	0600	1.20	2.90			
SAC PEAK	22	2006	2014	2008		N16 E59 4159	8	2	3	0600	4.50	8.60			
CLIMAX	22	2322	2347 D	2330		N19 W58 4151	25 D	15	1		5.20				
HAWAII	22	2325	2350 D	2330		N18 W56 4151	25 D	1		2330	3.40				
	22	2326	2350	2328		N23 W56 4151	24	2	3	0600	5.80	11.00			
SIMFEROPOL	23	0503 E				N24 W25 4152		2							
MT WILSON	23	1458	1514			N10 W63 4151	16	1							
CAPRI S	23	1546	1604 D			N22 W60 4151	18 D	1	1	1546	1.20	2.40			Slow S-SMF
HAWAII	23	2142	2232	2158		N14 W57 4151	50	1	3	0500	1.60	2.70			Slow S-SMF
HUANCAYO	23	2143	2149 D	2144		N09 W54 4151	6 D	1	2						
ONDREJOV	24	0602 E	0629	0604		N18 E87 4162	27 D	1	3	0604			4.90		
ATHENS	24	0720	0729	0723		N17 E90 4162	09	1	4		.30	3.30			
WENDEL	24	0751 E	0820 D			N13 E88 4162	29 D	16							
ATHENS	24	0753	0811	0802		N17 E88 4162	18	2	4		.70	6.60			
CAPRI S	24	0935 E	0947 D			S32 E90 4164	12 D	1	1	0935	2.50				
OTTAWA	24	1313 E		1320		N23 W69 4151		1	1	1320	1.57	3.97			
USNRL	24	1314	1340	1320		N22 W68 4151	26	1	2	1320	1.70	4.80		75	
USNRL	24	1344	1352	1348		N25 W72 4151	8	1	2	1348	.68	2.17		68	
USNRL	24	1350	1456	1354		N08 W67 4152	66	1	2	1354	.80	1.97		82	
USNRL	24	1418	1440	1426		S23 W68 4155	22	1	2	1426	.91	2.94		80	
MT WILSON	24	1520	1520			N09 W72 4151		1							S-SMF
MT WILSON	24	2012	2018			N12 W54 4152	06	1	1	0530	2.70	4.50			Slow S-SMF
HAWAII	24	2012	2034	2018		N16 W54 4152	22	1							
HAWAII	25	0132 E	0138 D	0132		N24 W85 4151	6 D	1	1	0530	1.90				Slow S-SMF
ATHENS	25	0842	0915			N25 E45 4159	33	1	5		1.20	2.10			Slow S-SMF
CAPRI S	25	0843 E	0916 D			S25 E43 4161	33 D	1	3	0847	2.00	3.10			S-SMF
ONDREJOV	25	1342	1350	1342		N09 W80 4152	08	1	3	1342			4.70		
HUANCAYO	25	1534 E	1624	1541 U		S27 E41 4161	50 D	14	2						
MC MATH	25	1537 E	1621 D			S27 E40 4161	54 D	1							G-SMF
MT WILSON	25	1538	1545			S42 W45 4161	07	1							
HAWAII	25	1922	1948	1922		N21 E27 4159	26	1	1	0445	4.10	4.80			
HAWAII	25	2042	2046	2042		N14 W65 4152	4	1	1	0445	1.30	3.10			
HAWAII	25	2340	0010	2352		S30 E34 4161	30	1	1	0445	1.40	2.40			
MT WILSON	25	2449	2455			N11 W65 4152	06	1							
CLIMAX	26	1527 E	1555 D	1533		N14 E60 4162	28 D	1		1533	2.30				
MT WILSON	26	1535	1605			N15 E56 4162	30	1							
SAC PEAK	26	1832	1850	1836		S26 E29 4161	18	1	2		2.50				G-SMF
MT WILSON	26	1837	1848			S26 E27 4161	11	1							Slow S-SMF
SAC PEAK	26	1907	2345 D	1952 F		N26 E15 4159	278 D	3	2		23.55				
MC MATH	26	1920 E	2103 D			N20 E15 4159	103 D	3							
HUANCAYO	26	1926 E	1957 D	1926 U		N25 E20 4159	31 D	25	2						S-SMF
HAWAII	26	2020 E	2110			N24 E16 4159	50 D	3	1	0700	17.50	19.00			
CLIMAX	26	2039 E	2116 D			N24 E16 4159	37 D	3		2039	22.20				
NIZAMIAH	27	0523	0544 D	0528 U		S24 E22 4161	21 D	1	2	0528	2.43	3.07	2.20		
CAPRI S	27	0855 E	0900 D			S20 W90 4155	5 D	1	3		2.00		2.30		
ONDREJOV	27	1212 E	1219			N16 E04 4159	07 D	1	2	1212					
MT WILSON	27	1520	1528			N11 E13 4159	08	1							
USNRL	27	1738	1748	1738		N10 E08 4159	10	1	2	1738	1.92	1.94		87	
USNRL	27	1826	1922	1830		N18 W05 4159	56	1	2	1830	1.92	1.96		86	
MT WILSON	27	1958	2010			S13 W48 4157	12	1							
MC MATH	27	2000 E	2014 D			S13 W40 4157	14 D	1							
CLIMAX	27	2037	2043 D			S15 W45 4157	6 D	1		2041	3.60				G-SMF
HAWAII	27	2116	2136 D	2124		N18 W03 4159	20 D	2	1	0700	7.40	7.60			

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Observatory	Date Sept. 1957	Time Observed Start UT End UT		Time Max. Phase UT	Approx. Position Lat. Mer. Dist.	McMath Flage Region Number	Dura- tion Min.	Im- por- tance	Obs. Cond.	Time of Max. UT	Meas. Max. Area Sq. Deg.	Corr. Max. Area Sq. Deg.	Max. Width H _g	Max. Int. %	Provs. Iono- spheric Effect
HUANCAYO CLIMAX	27	2117	2158	2119		N16 W01 4159	41								
	27	2212 E	2310	2214		N18 W02 4159	58 D	2	2	2214	3.90				Slow S-SWF
ZURICH	28	0845 E	0911	0851 U		N12 W14 4159	26 D	1	2	0851		4.00			
NIZAMIAH	28	0913 E	0933	0916 U		N20 W17 4159	20 D	16	2	0916	4.25	4.56	2.60		
ZURICH	28	0913	0941	0920 U		N16 W11 4159	28	1	2	0920		7.00			Slow S-SWF
ARCETRI	28	0927 E	0939 D			N15 W11 4159	12 D	16	2	0927	4.95	5.09			
ZURICH	28	1112	1115			N15 E33 4162	03		2	1112		1.00			
CLIMAX	28	1840	1914	1846		N16 W17 4159	34	1		1846	2.30				Slow S-SWF
MC MATH	28	1850 E	1908 D			N20 W10 4159	18 D	1							
CLIMAX	28	2025 E	2049 D			N25 W13 4159	24 D	1		2025	2.40				
CLIMAX	28	2025 E	2049 D			N20 W30 4159	24 D	1		2025	2.30				
HAWAII	28	2148	2201 D			N20 W31 4159	13 D	1	1	0330	4.50	5.20			
HAWAII	28	2152	2215 D			N26 W11 4159	23 D	16	1	0330	6.20	6.80			
SAC PEAK	28	2207 E	2225	2207 E		N17 W32 4159	18 D	1	1		2.20				
SAC PEAK	28	2207 E	2240	2207 E		N26 W14 4159	33 D	2	1		6.65				
TASHKENT	29	0408	0457			N12 W06 4159	49	16							
ATHENS	29	0649 E	0703			S27 W04 4161	14 D	1	4		1.80	2.20			
TASHKENT	29	0704 E	0713			N27 W22 4159	09 D	16							
WENDEL	29	0705 E	0731			N25 W21 4159	26 D	16							
ATHENS	29	0705	0731			N22 W21 4159	26	1	4		2.30	2.60			
CAPRI S	29	0712 E	0724 D			N22 W26 4159	12 D	1	1	0712	3.00	3.60			
ATHENS	29	0739	0817			N14 W23 4159	38	16	4		3.50	3.80			
TASHKENT	29	0748	0805			N15 W25 4159	017	16							
WENDEL	29	0901	0914			S28 E24 4164	13	1							
WENDEL	29	0936	1000			S25 E68 4167	24	1				3.00			
MT WILSON	29	1548 E	1548			N21 W30 4159		1				3.00			
SYDNEY	30	0210	0310			N23 W30 4159	60	2							Slow S-SWF
SIMEIZ	30	0748	0814			S18 E85 4167	26	16							
ONDREJOV	30	1027 E	1035 D			N15 W52 4159	08 D	16	1	1030					
CAPRI S	30	1027 E	1038 D			N17 W52 4159	11 D	16	2	1027	4.50	6.30			
ONDREJOV	30	1102 E	1119 D			N17 W42 4159	17 D	16	2	1104			2.50		
ONDREJOV	30	1219 E	1222			N14 W36 4159	03 D	1	2	1220			3.00		
ONDREJOV	30	1221	1237	1224		N17 W51 4159	16	2	3	1224			5.80		
R O EDIN	30	1224 E	1246			N17 W50 4159	22 D	16	2	1224	6.00	8.20	4.44		S-SWF
CAPRI S	30	1224 E	1250 D			N17 W52 4159	26 D	16	2	1225	5.00	7.00			
OTTAWA	30	1227 E	1245			N16 W52 4159	17 D	1	2	1228	2.90	4.72			
CAPRI S	30	1455	1547 D			N20 W36 4159	52 D	1	3	1459	1.40	1.80			
MT WILSON	30	1505 E	1505			N20 W38 4159		1							
HUANCAYO	30	1520 E	1533	1520 U		N19 W38 4159	13 D	1	1						
HUANCAYO	30	1535 E	1616	1536 U		S15 E73 4167	41 D	1	1						
HUANCAYO	30	1651	1705	1654		S20 E56 4167	14	1	1						
SAC PEAK	30	1657	1750	1707		N26 W37 4159	53	2	2		11.30				
MC MATH	30	1700	1730			N22 W37 4159	30	3							
HUANCAYO	30	1700 E	1733	1702		N25 W33 4159	33 D	3	1						S-SWF
MT WILSON	30	1746	1800			S16 E50 4167	14	1							
MT WILSON	30	1955	2002			N20 W40 4159	07	16							
HUANCAYO	30	1959 E	2005 D	1959 U		N16 W35 4159	6 D	1	2						Slow S-SWF

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

ATHENS	01	0623	N10 W09	SAC PEAK	01	1742	N11 W15	SAC PEAK	02	1755F	S17 W38
CAPRI S	01	0658E	S27 W19	OTTAWA	01	1745	N10 W16	SAC PEAK	02	1755F	N14 W35
ATHENS	01	0706	S27 W70	SAC PEAK	01	1835E	N12 W15	SAC PEAK	02	1812F	N15 W37
OTTAWA	01	1131	S29 W16	OTTAWA	01	1843E	N11 W16	HUANCAYO	02	2027	N26 W15
OTTAWA	01	1145	S30 W14	SAC PEAK	01	1915	S11 E89	CLIMAX	02	2028	N26 W11
OTTAWA	01	1200	N14 W13	SAC PEAK	01	1917	S32 W15	SAC PEAK	02	2036E	S16 W42
OTTAWA	01	1240	N14 W16	SAC PEAK	01	2025	S30 W24	SAC PEAK	02	2045E	S28 W86
OTTAWA	01	1258	N24 W12	SAC PEAK	01	2140	N15 W16	SAC PEAK	02	2045E	S16 W41
OTTAWA	01	1300	N14 W04	SAC PEAK	01	2210	S30 W16	SAC PEAK	02	2045E	N14 W35
OTTAWA	01	1305	N24 W19	SAC PEAK	01	2222	S28 W25	SAC PEAK	02	2045E	N25 W28
OTTAWA	01	1316	N15 W21	SAC PEAK	01	2340	S30 W25	CLIMAX	02	2056	S28 W32
OTTAWA	01	1325	S29 W22					SAC PEAK	02	2100E	S28 W35
CAPRI S	01	1326	S31 W10	ATHENS	02	0732	N25 W16	SAC PEAK	02	2103F	S16 W44
OTTAWA	01	1338	N15 W08	SAC PEAK	02	1353	N15 W64	SAC PEAK	02	2105	N25 W36
OTTAWA	01	1441	N12 W13	USNRL	02	1420	N11 W30	SAC PEAK	02	2127	N25 W37
WENDEL	01	1444	N12 E13	CLIMAX	02	1426	N11 W27	SAC PEAK	02	2137	S15 W44
OTTAWA	01	1502	N25 W10	SAC PEAK	02	1452	S16 W37	SAC PEAK	02	2200	N15 W68
SAC PEAK	01	1537	N25 W20	SAC PEAK	02	1507	N25 W17	SAC PEAK	02	2225	S15 W44
OTTAWA	01	1539	N23 W21	SAC PEAK	02	1512	N15 W26	SAC PEAK	02	2245	N16 W34
SAC PEAK	01	1540	S29 W19	SAC PEAK	02	1527	N25 W25	SAC PEAK	02	2322	N25 W37
CAPRI S	01	1540	N24 W19	USNRL	02	1554	N26 W27	SAC PEAK	02	2322	N25 W31
OTTAWA	01	1541	S28 W18	USNRL	02	1554	N12 W28	CLIMAX	02	2323	N25 W37
SAC PEAK	01	1657	N10 W16	SAC PEAK	02	1600	N12 W26	SAC PEAK	02	2325	S12 E65
SAC PEAK	01	1702	S34 W15	SAC PEAK	02	1657	N14 W33	SAC PEAK	02	2330	S16 W45
SAC PEAK	01	1717	N15 W15	SAC PEAK	02	1732E	N14 W35	SAC PEAK	02	2332	N11 W34
OTTAWA	01	1721	N15 W15	SAC PEAK	02	1755	N25 W25	SAC PEAK	02	2347	N13 W33

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ONDRE JOV 03 1121E N22 W30
OTTAWA 03 1236 S32 W39
SAC PEAK 03 1317 S38 W15
USNRL 03 1317 N25 W45
OTTAWA 03 1318 N23 W44
OTTAWA 03 1320 N24 W39
SAC PEAK 03 1337 S16 E70
SAC PEAK 03 1412 S32 W43
OTTAWA 03 1423 N18 W38
SAC PEAK 03 1436 S32 W43
SAC PEAK 03 1445 S33 W41
OTTAWA 03 1447E N20 W29
SAC PEAK 03 1450 N15 W43
OTTAWA 03 1514E N13 W45
SAC PEAK 03 1530 S16 W55
SAC PEAK 03 1557 S17 E68
SAC PEAK 03 1610 N25 W46
CLIMAX 03 1615 N15 W47
MC MATH 03 1620E N24 W40
SAC PEAK 03 1710 N25 W47
SAC PEAK 03 1715 N16 W44
SAC PEAK 03 1750 N24 W53
SAC PEAK 03 1805 N15 W47
SAC PEAK 03 1810 N25 W47
SAC PEAK 03 1810 S32 W44
SAC PEAK 03 1950 S27 W46
SAC PEAK 03 2025 S12 E52
SAC PEAK 03 2027 N14 W45
SAC PEAK 03 2035 N25 W50
HAWAII 03 2038 N25 W50
MC MATH 03 2040E N20 W40
SAC PEAK 03 2050 N11 W85
SAC PEAK 03 2127 N24 W48
SAC PEAK 03 2225 S16 W58
SAC PEAK 03 2252 S27 W48
SAC PEAK 03 2337 S27 W48

ATHENS 04 0633 N11 W54
ATHENS 04 0709 N23 W42
WENDEL 04 1054E N15 W66
SAC PEAK 04 1317 S29 W56
SAC PEAK 04 1330E S28 W56
SAC PEAK 04 1335 N16 W59
SAC PEAK 04 1342 N10 E88
SAC PEAK 04 1350 S28 W56
SAC PEAK 04 1420 N11 E84
SAC PEAK 04 1425 N12 W54
SAC PEAK 04 1447 N13 W59
SAC PEAK 04 1450 S30 W62
SAC PEAK 04 1500 N14 W58
SAC PEAK 04 1515 N14 W90
SAC PEAK 04 1535E N18 W53
SAC PEAK 04 1545E S30 W20
SAC PEAK 04 1557 S34 W62
SAC PEAK 04 1632 N18 W53
SAC PEAK 04 1907E N11 W59
SAC PEAK 04 1937E S30 W67
SAC PEAK 04 2057 N11 E76
SAC PEAK 04 2100 N15 W63
SAC PEAK 04 2240 N15 W63
SAC PEAK 04 2330 N09 E79
SAC PEAK 04 2342 N14 W63
SAC PEAK 04 2355 N15 W65

USNRL 05 1207 N12 W70
SAC PEAK 05 1304E N13 W70
SAC PEAK 05 1322 N10 E80
CAPRI S 05 1330 S23 E21
USNRL 05 1331 S25 W18
SAC PEAK 05 1332 N14 W74
SAC PEAK 05 1335 N05 E80
SAC PEAK 05 1405 N12 E70
SAC PEAK 05 1415 S20 E21
SAC PEAK 05 1455 N14 W76
USNRL 05 1501 N14 W80
SAC PEAK 05 1515 N10 E70
CAPRI S 05 1531 S29 W73
HUANCAYO 05 1532 S26 W73
CLIMAX 05 1540 S30 W90
SAC PEAK 05 1605 N14 W73
SAC PEAK 05 1650 N05 E80
HUANCAYO 05 1657E N07 E74
USNRL 05 1817 S25 E14
SAC PEAK 05 1823E N12 W69
CLIMAX 05 1843E S21 E14
USNRL 05 1948 N12 E68
SAC PEAK 05 2037 N16 W72
SAC PEAK 05 2037 N11 E68
SAC PEAK 05 2037E N15 E57
SAC PEAK 05 2142E N06 E75

SAC PEAK 05 2202 N10 E66
SAC PEAK 05 2203E N14 W73

ARCETRI 06 0813E N15 W75
ARCETRI 06 0818 N10 E62
CAPRI S 06 1224 S23 W88
OTTAWA 06 1249E N17 W75
SAC PEAK 06 1320 N13 W88
SAC PEAK 06 1325 N16 E47
SAC PEAK 06 1407 S29 W88
SAC PEAK 06 1450 N17 W78
SAC PEAK 06 1510 N24 E78
SAC PEAK 06 1542 N27 W77
SAC PEAK 06 1615 S29 W46
USNRL 06 1910 N11 E57
SAC PEAK 06 2215 S26 E04
SAC PEAK 06 2250 S24 W90
SAC PEAK 06 2307 S27 W90

WENDEL 07 0718E S24 W06
ONDRE JOV 07 0755E N28 W85
MEUDON 07 0813 N15 W85
MEUDON 07 0817 N13 W90
WENDEL 07 0911E S24 W11
WENDEL 07 0947E N10 E46
WENDEL 07 0957E S25 W10
WENDEL 07 1043E N13 E47
WENDEL 07 1107E S13 E40
OTTAWA 07 1149E S24 W08
OTTAWA 07 1149E S13 E40
WENDEL 07 1201E S13 E39
OTTAWA 07 1253E N13 E45
WENDEL 07 1255E S14 E38
ONDRE JOV 07 1328 S14 E42
WENDEL 07 1334E S14 E37
OTTAWA 07 1352E N14 E49
CAPRI S 07 1353 N20 E47
WENDEL 07 1359E S11 E50
MC MATH 07 1425E N12 E32
SAC PEAK 07 1425E N16 E53
OTTAWA 07 1449E N17 E51
SAC PEAK 07 2148E S24 W16

WENDEL 08 0750E S23 W22
WENDEL 08 0805E S22 W23
WENDEL 08 0854E N10 E41
WENDEL 08 0901E S23 W22
WENDEL 08 0902E N10 E41
CAPRI S 08 0926E S41 E77
WENDEL 08 0929E N10 E41
WENDEL 08 1128E S11 W14
WENDEL 08 1148E S14 E36
WENDEL 08 1316E S42 E63
SAC PEAK 08 1422 S15 E25
SAC PEAK 08 1442 S42 E68
SAC PEAK 08 1505 S24 E80
SAC PEAK 08 1535 S15 E31
ONDRE JOV 08 1543 S14 E28
WENDEL 08 1544E S16 E31
SAC PEAK 08 1610 S42 E68
CLIMAX 08 1634 S13 E25
SAC PEAK 08 1642 N12 E26
SAC PEAK 08 1807 N12 E27
CLIMAX 08 1816E N08 E30
HAWAII 08 1830E N10 E27
SAC PEAK 08 1915 N11 E26
HAWAII 08 1942 S17 E22
SAC PEAK 08 2022 S11 E22
SAC PEAK 08 2040 S25 E79
SAC PEAK 08 2107 S24 E72
SAC PEAK 08 2140 S19 E24
SAC PEAK 08 2240 S11 E20
SAC PEAK 08 2337 S12 E23
SAC PEAK 08 2347 S24 E70

ONDRE JOV 09 0617E N11 E17
ONDRE JOV 09 0628E S12 E21
CAPRI S 09 1330 S09 E14
OTTAWA 09 1331 S10 E14
SAC PEAK 09 1336E S11 E16
OTTAWA 09 1450 S11 E16
SAC PEAK 09 1452 S14 E15
SAC PEAK 09 1505 S15 E11
SAC PEAK 09 1555 S11 E14
SAC PEAK 09 1700 S25 E65
SAC PEAK 09 1700 N08 E19
SAC PEAK 09 1745 S42 E63
SAC PEAK 09 1825 S14 E12
CLIMAX 09 1842 S10 E12
SAC PEAK 09 1845 S11 E12

SAC PEAK 09 1912 S15 E09
SAC PEAK 09 1952 N12 E21
CLIMAX 09 2317 S22 W42

HAWAII 10 0014 S29 E61
HAWAII 10 0050E N11 E16
WENDEL 10 0650E S17 E14
WENDEL 10 0728E S17 E18
WENDEL 10 0750E S29 E57
WENDEL 10 0754E S28 E44
ARCETRI 10 0815 S18 E15
MEUDON 10 0827E S17 E15
CAPRI S 10 0932E S14 E13
WENDEL 10 1035E S18 E14
WENDEL 10 1100E S18 E12
WENDEL 10 1102E S10 E02
WENDEL 10 1128E S17 E12
WENDEL 10 1143E S18 E17
WENDEL 10 1520E S17 E14
HUANCAYO 10 1622 S17 E16
SAC PEAK 10 1647E N14 E08
SAC PEAK 10 1647E S07 W18
SAC PEAK 10 1647 S17 E10
USNRL 10 1651 S24 W55
USNRL 10 1652 S15 E10
SAC PEAK 10 1727 S27 E49
USNRL 10 1735 S22 W56
HAWAII 10 1848 S22 E10
SAC PEAK 10 1850 S20 E12
USNRL 10 1853 S17 E13
SAC PEAK 10 1900 N16 E90
HAWAII 10 1906 S13 W47
SAC PEAK 10 1930 S14 W05
SAC PEAK 10 1955 N12 E00
USNRL 10 1957 N12 W00
SAC PEAK 10 2035E S16 E07
SAC PEAK 10 2035E N17 E90
SAC PEAK 10 2125 S18 W06
HAWAII 10 2306 S18 E08

CAPRI S 11 0748E S15 E02
CAPRI S 11 0829E S15 E00
CAPRI S 11 1300E N11 W06
SAC PEAK 11 1347E S18 W67
SAC PEAK 11 1347 S06 W33
SAC PEAK 11 1350 S14 W13
SAC PEAK 11 1415 S25 E34
SAC PEAK 11 1427 S15 W06
SAC PEAK 11 1455E S17 W02
SAC PEAK 11 1505 S24 W64
SAC PEAK 11 1525 S25 E34
SAC PEAK 11 1530 S06 W32
SAC PEAK 11 1532 S18 W02
CLIMAX 11 1552 S12 W17
CLIMAX 11 1650 S06 W35
SAC PEAK 11 1652 S06 W34
CLIMAX 11 1700 S25 W65
SAC PEAK 11 1705 S24 W65
SAC PEAK 11 1725 S05 W24
SAC PEAK 11 1735 S16 W02
SAC PEAK 11 1757 S25 W63
USNRL 11 1800 S16 W02
USNRL 11 1800 S26 W60
SAC PEAK 11 1805 S16 W03
USNRL 11 1810 S16 W04
SAC PEAK 11 1817 S06 W33
USNRL 11 1819 S07 W34
CLIMAX 11 1836 S43 E38
SAC PEAK 11 1842 S25 W60
USNRL 11 1844 S32 W67
SAC PEAK 11 1850 N24 E36
SAC PEAK 11 1855 N14 E79
USNRL 11 1855 N17 E80
USNRL 11 1902 S07 W33
SAC PEAK 11 1902 S25 E31
USNRL 11 1904 S24 E31
USNRL 11 1918 S07 W34
SAC PEAK 11 1920 S06 W34
SAC PEAK 11 1922 S24 W68
SAC PEAK 11 1950 S15 W09
USNRL 11 1954 S15 W09
SAC PEAK 11 2007 S17 W05
SAC PEAK 11 2025 S14 W10
SAC PEAK 11 2027 S06 W35
SAC PEAK 11 2102 S25 W63
SAC PEAK 11 2135 S06 W36
SAC PEAK 11 2137 S15 W11
SAC PEAK 11 2230 S26 W64
SAC PEAK 11 2232 S18 W06
SAC PEAK 11 2232 S15 W11

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SAC PEAK	11	2237	S06 W38	OTTAWA	14	1203	N40 E22	CAPRI S	17	0705	N25 E30
SAC PEAK	11	2325	S15 W11	OTTAWA	14	1338	N09 W45	ATHENS	17	0756	N20 E27
SAC PEAK	11	2327	N10 E80	SAC PEAK	14	1344E	S25 W07	ATHENS	17	0807	N22 E25
SAC PEAK	11	2352	N24 E35	SAC PEAK	14	1344E	N07 E79	CAPRI S	17	1040E	N23 E28
SAC PEAK	11	2352	S16 W05	SAC PEAK	14	1347	N22 E66	OTTAWA	17	1336	N20 E27
CLIMAX	12	0014	N08 W11	SAC PEAK	14	1347	S17 W38	OTTAWA	17	1410	N22 E18
CAPRI S	12	1026E	S21 E18	OTTAWA	14	1348	S18 W36	OTTAWA	17	1415	N26 E25
SAC PEAK	12	1347E	N13 W17	OTTAWA	14	1406	S18 W36	SAC PEAK	17	1417	N22 E24
SAC PEAK	12	1347E	S15 W15	SAC PEAK	14	1407	S17 W39	SAC PEAK	17	1540	N24 E23
SAC PEAK	12	1407	S03 W44	USNRL	14	1449E	S17 W40	SAC PEAK	17	1542	N11 E33
SAC PEAK	12	1440	S15 W16	SAC PEAK	14	1522	S17 W39	SAC PEAK	17	1547	N13 E40
USNRL	12	1538	S17 W11	SAC PEAK	14	1610	N18 E80	SAC PEAK	17	1602	N12 E32
SAC PEAK	12	1555	S14 W23	SAC PEAK	14	1622	S17 W48	SAC PEAK	17	1605	N20 E16
CLIMAX	12	1558	S15 W12	SAC PEAK	14	1655	S17 W48	SAC PEAK	17	1610	N08 E36
USNRL	12	1624	S17 W13	SAC PEAK	14	1712	S18 W39	SAC PEAK	17	1627	N08 E36
SAC PEAK	12	1627	N05 E68	SAC PEAK	14	1715	N11 W49	SAC PEAK	17	1910	N18 E19
SAC PEAK	12	1637	S12 W73	MC MATH	14	1733E	N12 W50	SAC PEAK	17	1915	N10 E21
SAC PEAK	12	1645	S15 W18	SAC PEAK	14	1800	S18 W39	SAC PEAK	17	1930	N22 E24
USNRL	12	1650	S16 W16	SAC PEAK	14	1805	N08 E83	SAC PEAK	17	2225	N21 E15
SAC PEAK	12	1717	S16 W15	CLIMAX	14	1944	S17 W40	SAC PEAK	17	2257	N11 E25
SAC PEAK	12	1722	S13 W24	SAC PEAK	14	1952	S18 W42	SAC PEAK	17	2300	S19 E29
CLIMAX	12	1724	S17 W13	SAC PEAK	14	2127	N10 W50	SAC PEAK	17	2322	N11 E29
USNRL	12	1724	S15 W21	CLIMAX	14	2130	N16 E50	ONDREJOV	18	1015	S25 E22
CLIMAX	12	1738E	S15 W12	CLIMAX	14	2132	N24 E61	ONDREJOV	18	1121E	N18 E15
SAC PEAK	12	1745	S16 W15	SAC PEAK	14	2200	S14 W48	OTTAWA	18	1232	N11 E27
CLIMAX	12	1758	S15 W16	SAC PEAK	14	2215	N21 E59	SAC PEAK	18	1432	S19 E90
SAC PEAK	12	1805	S12 W24	CLIMAX	14	2216	N21 E59	SAC PEAK	18	1502	S16 W45
HAWAII	12	1812	S25 E12	CLIMAX	14	2324	N07 E75	SAC PEAK	18	1505	N11 E21
SAC PEAK	12	1812	S26 E16	SAC PEAK	14	2325	N07 E71	ATHENS	18	1509	N23 E09
USNRL	12	1814	S24 E19	SAC PEAK	14	2342	S14 W48	SAC PEAK	18	1510	N24 E08
SAC PEAK	12	1822	S16 W15	ATHENS	15	0720	N10 E30	SAC PEAK	18	1620	N09 E13
USNRL	12	1827	S18 W12	CAPRI S	15	1056	N22 E54	SAC PEAK	18	1622	N07 E03
CLIMAX	12	1858	S23 E19	USNRL	15	1325	N10 E60	SAC PEAK	18	1637	N12 W12
HAWAII	12	1906	S12 W30	SAC PEAK	15	1435	N08 E60	SAC PEAK	18	1842	S21 E90
SAC PEAK	12	1920	N02 E90	SAC PEAK	15	1450	S16 W54	SAC PEAK	18	2035	N22 E05
USNRL	12	1922	S10 E90	USNRL	15	1451	S18 W56	SAC PEAK	18	2130	N11 E08
CLIMAX	12	1940	S13 W27	CLIMAX	15	1508	N22 E48	SAC PEAK	18	2202	S25 E15
SAC PEAK	12	2000	S15 W16	SAC PEAK	15	1510	N23 E50	SAC PEAK	18	2205	S50 W68
SAC PEAK	12	2025	N11 E66	USNRL	15	1511	N25 E53	SAC PEAK	18	2310	N06 E60
SAC PEAK	12	2050	N10 W22	CLIMAX	15	1512	N25 E52	SAC PEAK	18	2322	S26 W61
SAC PEAK	12	2055	S13 W26	SAC PEAK	15	1537	N07 E57	CAPRI S	19	0756E	S25 E10
CLIMAX	12	2108	N16 E65	CLIMAX	15	1538	N09 E59	WENDEL	19	0845E	S23 E05
SAC PEAK	12	2127	S16 W17	SAC PEAK	15	1632	S16 W56	WENDEL	19	0850E	N10 E04
SAC PEAK	12	2142	S20 W80	CLIMAX	15	1640	N06 E64	CAPRI S	19	1048E	N23 W01
SAC PEAK	12	2145	S12 W73	CLIMAX	15	1640	N22 E50	MEUDON	19	1109	S42 W70
SAC PEAK	12	2200	S05 W48	SAC PEAK	15	1640	N22 E48	WENDEL	19	1203E	N06 E06
HAWAII	12	2201	S06 W48	SAC PEAK	15	1640	N06 E62	CAPRI S	19	1225E	N07 E01
SAC PEAK	12	2205	S15 W20	SAC PEAK	15	1722	N17 E50	OTTAWA	19	1233E	N07 E04
SAC PEAK	12	2212	S04 W49	CLIMAX	15	1744	N09 E59	WENDEL	19	1235E	N06 E06
SAC PEAK	12	2230	S15 W19	SAC PEAK	15	1852	N09 E56	WENDEL	19	1306E	N23 W05
SAC PEAK	12	2330	N10 W33	SAC PEAK	15	1855	N16 W66	WENDEL	19	1317E	S15 W56
SAC PEAK	12	2332	S03 W55	SAC PEAK	15	1927	S15 W58	WENDEL	19	1325E	N22 W03
SAC PEAK	12	2337	N17 E90	HAWAII	15	1932	N17 E47	USNRL	19	1334E	N22 W04
ATHENS	13	0555	S17 W24	SAC PEAK	15	2005	N10 E55	OTTAWA	19	1343E	N26 W02
ONDREJOV	13	0607E	S07 W57	CLIMAX	15	2006	N09 E55	CLIMAX	19	1622	N25 E01
ATHENS	13	0621	S17 W25	SAC PEAK	15	2012	N10 E24	USNRL	19	1624	N24 W01
CAPRI S	13	0815E	N14 E12	CLIMAX	15	2020	N09 E55	USNRL	19	1714	N24 W02
ONDREJOV	13	0820E	N23 E16	CLIMAX	15	2022	N19 E41	CLIMAX	19	1718	N25 E01
ONDREJOV	13	0824E	N10 W28	SAC PEAK	15	2022	N20 E44	USNRL	19	1718	N18 W11
USNRL	13	1226	S16 W29	CLIMAX	15	2038	N11 W64	OTTAWA	19	1719	N18 W08
USNRL	13	1245	S16 W29	CLIMAX	15	2100	N09 E55	CLIMAX	19	1722	N19 W09
USNRL	13	1355	S16 W28	CLIMAX	15	2106	N22 E48	USNRL	19	1807	N23 W05
SAC PEAK	13	1500E	N11 W32	SAC PEAK	15	2205	N09 E55	USNRL	19	1850	S22 E05
SAC PEAK	13	1500E	S16 W32	SAC PEAK	15	2305	N09 E54	HAWAII	19	2110	N24 W05
USNRL	13	1504	S17 W31	HAWAII	16	0014	N07 E21	HAWAII	19	2156	S23 E00
SAC PEAK	13	1547	S27 E66	USNRL	16	1202E	N24 E39	SAC PEAK	19	2325	N07 W03
SAC PEAK	13	1607E	S16 W28	SAC PEAK	16	1405	N10 W74	CAPRI S	20	0808E	N08 W10
SAC PEAK	13	1655E	N22 E72	USNRL	16	1405	N23 E37	WENDEL	20	0813E	N08 W06
CLIMAX	13	1725E	N24 E75	USNRL	16	1405	N10 E76	WENDEL	20	1134E	S14 W67
USNRL	13	1727	S17 W32	SAC PEAK	16	1410	N24 E38	WENDEL	20	1201E	S22 W06
CLIMAX	13	1729E	S14 W32	CLIMAX	16	1506E	N05 E57	MEUDON	20	1317	N11 W11
SAC PEAK	13	1729E	S16 W33	SAC PEAK	16	1520	N24 E36	SAC PEAK	20	1343E	S22 W11
SAC PEAK	13	1737E	N19 E72	USNRL	16	1522	N22 E34	CAPRI S	20	1427	N24 W27
USNRL	13	1745	S23 E05	SAC PEAK	16	1537	N13 E16	SAC PEAK	20	1430E	N22 W29
USNRL	13	1801	N10 E90	USNRL	16	1621	N22 E34	SAC PEAK	20	1605	S22 W10
SAC PEAK	13	1837	S16 W32	SAC PEAK	16	1837	N26 E42	SAC PEAK	20	1625	S22 W12
SAC PEAK	13	1842	S17 W28	SAC PEAK	16	1957	N25 E31	WENDEL	20	1642E	S23 W11
SAC PEAK	13	1945E	S18 W27	SAC PEAK	16	1957	N08 W76	SAC PEAK	20	1842	N19 E90
SAC PEAK	13	2000E	N27 E07	SAC PEAK	16	2022	N08 W76	SAC PEAK	20	1937	S23 W09
USNRL	13	2001	N26 E06	SAC PEAK	16	2040	N22 E34	HAWAII	20	1946	S21 W08
SAC PEAK	13	2052E	S15 W32	SAC PEAK	16	2157	S15 W80	SAC PEAK	20	2345	S21 W16
SAC PEAK	13	2132	N24 E83	SAC PEAK	16	2215	N09 W79	ATHENS	21	0613	N10 E00
SAC PEAK	13	2132E	S16 W34	SAC PEAK	16	2245	N24 E29	ATHENS	21	0703	N09 E00
HAWAII	14	0158E	S12 W38	SAC PEAK	16	2250	N07 E44	CAPRI S	21	0703E	N15 E84
ATHENS	14	0630	N23 E68	SAC PEAK	16	2345	N21 E29	ATHENS	21	0726	N10 E01
ATHENS	14	0632	N23 E65	NIZAMIAH	17	0416E	N23 E28	CAPRI S	21	0728E	N11 W02
ONDREJOV	14	0649E	S18 W43	CAPRI S	17	0652E	N08 E40				

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ONDREJOV	21	0932	N09 W02	CLIMAX	24	1928	N25 W72	CLIMAX	27	1822	N15 W02
ONDREJOV	21	1045	N22 W22	HAWAII	24	1936	N28 W70	HUANCAYO	27	2022E	S16 W41
WENDEL	21	1216E	N10 W83	USNRL	24	1942	S26 E53	HUANCAYO	27	2052	N12 W08
USNRL	21	1227	N08 W23	USNRL	24	1942	N11 W55				
USNRL	21	1227	N10 W08	CLIMAX	24	2000	N13 W55	WENDEL	28	1152E	N26 E59
ONDREJOV	21	1346E	N21 W29	MC MATH	24	2025E	N10 W45	OTTAWA	28	1221	N15 W15
ONDREJOV	21	1422E	N05 W23	HAWAII	24	2314	N28 W71	OTTAWA	28	1237	N16 W13
SAC PEAK	21	1440	S17 E43					SAC PEAK	28	1355E	S26 E04
SAC PEAK	21	1445	N14 E85	USNRL	25	1239	N08 W67	SAC PEAK	28	1505	N26 W12
SAC PEAK	21	1510	N26 W28	USNRL	25	1247	S26 E43	CLIMAX	28	1507	N25 W12
SAC PEAK	21	1600	N17 W30	USNRL	25	1333	N07 W83	CLIMAX	28	1617	N17 E31
SAC PEAK	21	1630	N24 W27	SAC PEAK	25	1343E	N09 W80	HUANCAYO	28	1650	N18 E31
USNRL	21	1631	N24 W28	USNRL	25	1407	N16 E24	CLIMAX	28	2147E	N17 W30
SAC PEAK	21	2125	N25 W30	ATHENS	25	1409	N16 E23	SAC PEAK	28	2235	N17 W32
SAC PEAK	21	2325	N28 E90	ONDREJOV	25	1410	N16 E24				
SAC PEAK	21	2330	N16 W43	SAC PEAK	25	1422	N26 E31	ATHENS	29	0700	N13 W36
HAWAII	21	2346	N09 W10	SAC PEAK	25	1432	S25 E41	ATHENS	29	0743	N13 W28
HAWAII	21	2356	N15 E78	SAC PEAK	25	1512	S22 E90	ATHENS	29	0811	N11 W26
				SAC PEAK	25	1530	S26 E40	ATHENS	29	0828	N14 W21
				USNRL	25	1531	S26 E41	WENDEL	29	0833E	N17 W23
HAWAII	22	0028	N24 W36	CAPRI S	25	1536E	S25 E40	WENDEL	29	1036E	N12 W12
ATHENS	22	0731	N15 E69	USNRL	25	1649	N16 E14	WENDEL	29	1059E	N17 W25
ATHENS	22	0737	N07 W31	SAC PEAK	25	1650	N15 E13	WENDEL	29	1153E	S26 E43
ATHENS	22	0743	N08 W39	HUANCAYO	25	1653	N18 E14	OTTAWA	29	1216	N16 W24
USNRL	22	1409	S24 W33	USNRL	25	1811	N18 E69	OTTAWA	29	1335	S30 W08
USNRL	22	1451	N12 W24	SAC PEAK	25	1915	N15 E27	OTTAWA	29	1440	N16 W39
CLIMAX	22	1536	N08 W42	USNRL	25	1919	N24 E26	SAC PEAK	29	1440	N17 W39
CLIMAX	22	1620	N20 E65	SAC PEAK	25	1920	N24 E26	SAC PEAK	29	1537	S17 E90
SAC PEAK	22	1740	N14 E68	SAC PEAK	25	1955	N15 E63	SAC PEAK	29	1545	N20 W26
CLIMAX	22	1742	N20 W39	SAC PEAK	25	2005	N26 E29	SAC PEAK	29	1607	S17 E90
SAC PEAK	22	1745	N23 W42	OTTAWA	25	2013E	N27 E27	SAC PEAK	29	1635	S17 E90
SAC PEAK	22	1832	N19 E63	SAC PEAK	25	2050	S27 E40	CLIMAX	29	1635	S16 E90
CLIMAX	22	2017	N11 E61	SAC PEAK	25	2105	N17 E10	SAC PEAK	29	1657	S15 E70
HAWAII	22	2132	N11 W21	SAC PEAK	25	2135	N08 W85	CLIMAX	29	1658	S16 E75
SAC PEAK	22	2200	N25 W47	SAC PEAK	25	2150	S13 W20	SAC PEAK	29	1710	N27 E42
SAC PEAK	22	2245	N09 W25	SAC PEAK	25	2205	N16 E67	CLIMAX	29	1713	N28 E41
CLIMAX	22	2252E	N11 W25	SAC PEAK	25	2230	N07 W90	SAC PEAK	29	1715	N41 E90
CLIMAX	22	2300	N25 W40	SAC PEAK	25	2320	N16 E67	SAC PEAK	29	1720	S17 E90
SAC PEAK	22	2307	N16 E67	SAC PEAK	25	2332	N10 W65	SAC PEAK	29	1727	S17 E69
SAC PEAK	22	2330	N08 W47	HAWAII	25	2334	N14 W65	SAC PEAK	29	1742	N18 W31
				SAC PEAK	25	2337	S26 E39	SAC PEAK	29	1857	S32 E22
				HAWAII	25	2352	N16 E10	CLIMAX	29	1859	S32 E23
								SAC PEAK	29	1900	S17 E40
OTTAWA	23	1355E	N23 W54	CAPRI S	26	1219E	S26 E29	CLIMAX	29	1902	S19 E44
OTTAWA	23	1356E	N13 E47	OTTAWA	26	1221E	S26 E32	SAC PEAK	29	2017	S17 E39
OTTAWA	23	1419	N12 W37	OTTAWA	26	1246E	S25 E32	SAC PEAK	29	2105	S14 E42
SAC PEAK	23	1452	N23 W57	SAC PEAK	26	1350E	S26 W90				
SAC PEAK	23	1452	N12 E48	SAC PEAK	26	1352	S25 E90	ATHENS	30	0710	S22 E58
CAPRI S	23	1457E	N22 W60	USNRL	26	1438	N15 E55	OTTAWA	30	1250	N16 W51
SAC PEAK	23	1520	N13 W38	SAC PEAK	26	1440	N14 E55	OTTAWA	30	1301	N15 E04
SAC PEAK	23	1522	N12 E48	SAC PEAK	26	1442	N15 E58	OTTAWA	30	1326	N27 E28
CLIMAX	23	1530E	N13 E52	OTTAWA	26	1451E	N16 E55	OTTAWA	30	1349E	N16 W45
CLIMAX	23	1532	N13 W37	SAC PEAK	26	1507	N16 E08	OTTAWA	30	1405	N28 E28
CLIMAX	23	1544	N23 W57	OTTAWA	26	1508	N16 E07	SAC PEAK	30	1455	N20 W40
SAC PEAK	23	1545	N23 W58	USNRL	26	1508	N16 E08	SAC PEAK	30	1510	N28 E21
CLIMAX	23	1640	N14 E49	SAC PEAK	26	1515	S26 E32	MC MATH	30	1512E	N20 W36
SAC PEAK	23	1652E	N15 E48	USNRL	26	1518	S26 E31	SAC PEAK	30	1532	S17 E75
CLIMAX	23	1756	N23 W48	SAC PEAK	26	1532	N16 E58	SAC PEAK	30	1540	N27 E22
HAWAII	23	1808	N28 W53	USNRL	26	1538	N17 E57	SAC PEAK	30	1552	S17 E80
SAC PEAK	23	1857E	N16 E90	USNRL	26	1800	N18 E57	SAC PEAK	30	1652	S22 E54
SAC PEAK	23	1956E	N09 W58	SAC PEAK	26	1800E	N16 E56	SAC PEAK	30	1740	S16 E56
CLIMAX	23	2136	N08 W57	CLIMAX	26	1802	N17 E60	SAC PEAK	30	1840	N20 E14
SAC PEAK	23	2140E	S23 W61	SAC PEAK	26	1825	N16 E55	SAC PEAK	30	1945	S17 E72
SAC PEAK	23	2147E	N09 W58	SAC PEAK	26	1845	N17 E10	SAC PEAK	30	1955	N27 E19
SAC PEAK	23	2155	S18 E12	SAC PEAK	26	1925	N12 E15	SAC PEAK	30	1955	N15 W41
HAWAII	23	2156	S18 E08	SAC PEAK	26	2007	N16 E54	SAC PEAK	30	2200	S15 E75
CLIMAX	23	2256 E	N18 E52	SAC PEAK	26	2045	S32 E59				
SAC PEAK	23	2327E	N16 E90	SAC PEAK	26	2045	N16 E48				
				SAC PEAK	26	2127	N17 E55				
WENDEL	24	0739E	S18 W65	SAC PEAK	26	2137	S22 E90				
ATHENS	24	0901	N17 E88	SAC PEAK	26	2140	N15 E49				
ATHENS	24	0901	N17 E88	SAC PEAK	26	2145	N17 E55				
CAPRI S	24	1034E	N16 E36	SAC PEAK	26	2147	S24 W90				
USNRL	24	1159	N11 W50	SAC PEAK	26	2242	S27 E26				
OTTAWA	24	1209	N18 E36	SAC PEAK	26	2300	N12 E03				
OTTAWA	24	1209	S18 W64	SAC PEAK	26	2310	N16 E04				
USNRL	24	1210	S18 W67					ATHENS	27	0721	N15 E47
USNRL	24	1210	N18 E37					NEUDON	27	0955	N15 E45
OTTAWA	24	1210	N14 E43					NEUDON	27	1122E	N11 E15
OTTAWA	24	1212	N25 W70					NEUDON	27	1155E	N20 E07
USNRL	24	1212	N25 W71					USNRL	27	1204E	N19 E03
OTTAWA	24	1219	S23 W63					SAC PEAK	27	1415	N16 W01
USNRL	24	1238	N17 E90					NEUDON	27	1516	N11 E15
USNRL	24	1240	N07 W68					SAC PEAK	27	1517	N10 W10
USNRL	24	1400	N12 E60					CLIMAX	27	1518	N09 E10
USNRL	24	1516	N08 W67					USNRL	27	1518	N10 E09
USNRL	24	1542	S24 W61					USNRL	27	1526	N27 E69
USNRL	24	1542	N16 E85					HUANCAYO	27	1555E	N09 W85
USNRL	24	1542	N16 E85					SAC PEAK	27	1738E	N10 E08
CLIMAX	24	1620	N12 W49								
USNRL	24	1622	N10 W49								
USNRL	24	1624	N22 W70								
USNRL	24	1806	S30 E90								

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	OBSERVATORY	DATE SEPT 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 H _e	MAX. INT. %				
						LAT.	MER. DIST.	McMATH FLAGE REGION												
	KYOTO	01	0014	E		N24	W04	4124		1		0014	1.50							
	KYOTO	01	0014	E		N11	W07	4124		1		0014	2.30							
	KODAIKML	01	0204		0223	0209	N13	W08	4124	19	1	1	0205	3.90	4.00	2.00	208	S-SWF		
	KYOTO	01	0312		0315		N17	E00	4124	3	1		0314			1.16				
	CAPRI G	01	0521	F	0536	D	N16	E01	4124	15	D	1	3	0526	4.00					
	CAPRI G	01	0621		0637		N12	W08	4124	16	1	3	0625	2.00						
	SIMEIZ	01	0622		0640	D	N11	W08	4124	18	D	1		2.70		2.90	56			
	CAPRI G	01	0659		0720		S28	W20	4125	21	1	3	0702	2.00						
	SIMEIZ	01	0802		0827		N14	W13	4124	25	16		9.10		2.60	45	S-SWF			
	CAPRI G	01	0806		0816		N16	W11	4124	10	1	2	0809	3.00						
	CAPRI G	01	0951	F	1012		N09	W10	4124	21	D	2	0955	7.00				S-SWF		
	UCCLE	01	0953	E	1018		N11	W10	4124	25	E	3	1			.75				
	UCCLE	01	1024		1028		N26	W19	4124	4	16	2	1025	3.40	3.60					
	CAPRI G	01	1025	F	1031		N26	W15	4124	6	D	1	1	1025	3.00					
	UCCLE	01	1036		1143		N24	W02	4124	67	1	2	1039	3.40	3.60					
	UCCLF	01	1112	F			N10	W12	4124			U	1					S-SWF		
	CAPRI G	01	1258	F	1352	1301	N15	W14	4124	54	D	2	2	1302	12.00					
	KODAIKML	02	0410	F	0430	0413	N13	W26	4124	20	D	1	2	0412	2.60	2.90	1.80	105	Slow S-SWF	
	NIZANIAH	02	0434	E	0445		N14	W24	4124	11	D	1	2	0434	2.13	2.34	1.00			
	UCCLE	02	0804	F	0816	0804	S29	W27	4125	12	D	1	3	0804	1.60	2.40				
	CAPRI G	02	1016		1039	1019	N15	W26	4124	23	1	1	1020		3.00			S-SWF		
	UCCLE	02	1022		1137	1023	N14	W29	4124	75	2	4	1023	5.00	5.50					
	UCCLE	02	1055		1254	D	1135	S30	W36	4125	119	D	1	4	1135	2.20	3.20			
	CAPRI G	02	1057	F	1206	1103	S33	W37	4125	69	D	16	1	1105		4.00				
	UCCLE	02	1141		1156	1143	N26	W25	4124	15	1	4	1143	2.20	2.40				G-SWF	
	NEDERHORST	02	1300		1321	D	N10	W23	4124	21	D	16	2							
	UCCLE	02	1330	F		1330	S34	W44	4125			2	3	1330	5.10	7.20				
	UCCLE	02	1424		1435	1426	N13	W29	4124	11	16	3	1426	4.00	4.40					
	CAPRI G	02	1553	F	1556	D	N25	W27	4124	3	D	1	2	1555		3.00				
	SYDNEY	03	0037	F	0116	0049	N24	W24	4124	39	D	1	2	0049	2.00	3.00			S-SWF	
	KYOTO	03	0045	E	0105	D	N24	W31	4124	20	D	1		0050						
	KYOTO	03	0045	F	0115	D	N23	W23	4124	30	D	1		0050						
	SYDNEY	03	0326		0341	0330	S15	W46	4126	15	1	2	0330	1.50	2.00					
	SIMEIZ	03	0753	F	0819	D	N15	W38	4124	26	D	2		9.10		4.30	73			
	KRASNAYA	03	0755	F	0822	D	0759	N15	W39	4124	27	D	2	0759	3.10	4.03		88	Slow-S-SWF	
	KYOTO	03	0757	F			N15	W38	4124			16		3.10						
	SIMEIZ	03	0849	F	0852	D	0849	S31	W39	4125	4	D	1		2.30		3.00	56		
	KRASNAYA	03	0853	F	0859	D		S15	W47	4126	6	D	1	2	0853	1.86	2.94	56		
	KRASNAYA	03	0853		0910	0857	S11	E59	4133	17	1	2	0857	1.44	2.94		77			
	UCCLE	03	0934	F	0936	D		S20	W41	4126	2	D	1	1					S-SWF	
	UCCLE	03	1018		1038	1023	N15	W44	4124	20	2	1	1023	7.10	8.50					
	UCCLE	03	1038		1050	D	1039	N13	W41	4124	12	D	16	1	1039	4.00	4.80			
	NEDERHORST	03	1415	F	1427		N24	W28	4124	12	D	3								
	CAPRI G	03	1417		1535	D	1432	N25	W29	4124	78	D	3	3	1430		18.00			S-SWF
	CAPRI G	03	1427		1447	1431	N18	W35	4124	20	1	3	1430		2.00					
	SYDNEY	03	2344		0004	2346	N26	W50	4124	20	1	3	2346	1.00	2.00					
	SYDNEY	04	0228	F	0319	0243	S31	W49	4125	51	D	2	2	0243	3.00	7.00				
	SYDNEY	04	0257		0422	0310	N28	W53	4124	85	1	2	0310	1.00	2.00					

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SOLAR FLARES

SEPTEMBER 1957

	OBSERVATORY	DATE 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION - MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
			START	END	MAX. PHASE	LAT.	MER. DIST.	MEMATH FLARE REGION				TIME - UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _z	MAX. INT. %	
	KYOTO	04	0421 E	0443 D	0430	N13	W51	4124	22 D	1		0439	2.30				Slow S-SWF
	HIZAMIAH	04	0541	0555	0545	N13	W49	4124	14	1	2	0545	2.13		1.80		
	CAPRI G	04	1155 E	1215 D	1213	N16	W52	4124	20 D	2	1	1213		3.24			
	UCCLE	04	1157	1237	1203	N16	W55	4124	40	2	3	1203	4.40	5.50			
	UCCLE	04	1200	1253	1203	N18	W44	4124	53	1	3	1203	1.20	1.50			
	NEDERHORST	04	1206	1250		N23	W51	4124	44	26	1						
	SYDNEY	04	2341 E	2345 D		N15	W67	4124	4 D	1	3	2341	2.00	3.00			S-SWF Slow S-SWF
	SYDNEY	05	0002	0036	0012	N15	W67	4124	34	1	3	0012	1.50	3.00			
	SYDNEY	05	0313	0340	0319	N11	W70	4124	27	2	3	0319	5.00	11.00			
	SYDNEY	05	0440	0452	0446	S30	W82	4125	12	□	2	0446	.75				G-SWF
	UCCLE	05	1154	1158		N11	E64	4134	4	1	1						
	NEDERHORST	05	1210	1250 D		N14	W65	4124	40 D	2	2						
	CAPRI G	05	1533 E	1543	1536	S30	W69	4125	10 D	1	2	1537		4.00			S-SWF Slow S-SWF
	SYDNEY	05	2355	0005	0000	S24	E10	4136	10	1	3	0000	2.00	3.00			
	SYDNEY	06	0001	0030	0009	N12	W69	4124	29	2	2	0009	2.00	8.00			
	SYDNEY	06	0043	0100 D	0054	N11	W69	4124	17 D	1	1	0054	1.00	3.00			Slow S-SWF
	SYDNEY	06	0126 E	0143 D		N24	W62	4124	17 D	1	1	0137	1.50	3.00			
	CAPRI G	06	0540 E	0605		N16	W85	4124	25 D	1	2	0600		3.00			
	SIMEIZ	06	0603 E	0603 D		N11	W86	4124		1							
	SIMEIZ	06	0751	0850	0801 U	N25	W65	4124	59	26			20.00		4.30	52 87	
	CAPRI G	06	0755	0847	0805	N27	W64	4124	52	2	2	0805		10.00			
	CAPRI G	06	0812	0853	0823	N10	E61	4134	41	16	2	0820		5.00			S-SWF
	SIMEIZ	06	0815	0900 D		N12	F65	4134	45 D	16			8.20		3.00	61	
	NEDERHORST	06	0820	0845 D		N20	W73	4124	25 D	2	2						
	NEDERHORST	06	0820	0920 D		N14	F63	4134	60 D	2	2						
	UCCLE	06	0830 E	0900 D	0837	N25	W70	4124	30 D	26	1	0837	7.70	14.00			
	UCCLE	06	0835 E	1020	0836	N10	F65	4134	105 D	2	1	0836	6.50	10.50			
	CAPRI G	06	1045 E	1106		N16	W90	4124	21 D	1	1						S-SWF
	UCCLE	06	1140	1156	1145	S24	E02	4136	16	1	3	1145	3.40	3.90			
	NEDERHORST	06	1334	1410 D		S28	W78	4125	36 D	2	2						
	CAPRI G	06	1347 E	1354		S28	W90	4125	7 D	1	1						S-SWF
	CAPRI G	07	0751	0806		N28	W90	4124	15	1	2						
	NEDERHORST	07	0815	0835 D		N20	W90	4124	20 D	2	3						
	SIMEIZ	07	0817	0828 D	0822	N13	W90	4124	11 D	16			2.30		4.30	56 60	
	KRASNAYA	07	0817	0837 D	0823 U	N14	W88	4124	20 D	16	2	0823	1.24	8.90			
	CAPRI G	07	0825 E	0837		N20	W90	4124	12 D	1	2						
	UCCLE	07	1102	1108	1106	S15	E42	4138	6	1	3	1106	2.40	3.40			Slow S-SWF
	CAPRI G	07	1423 E	1437		N10	E44	4134	14 D	1	2	1426		3.00			
	SYDNEY	09	0124	0222	0139	S13	F23	4138	58	2	3	0139	5.00	6.00			
	SYDNEY	09	0215	0233	0219	S23	E70	4144	18	1	3	0219	1.00	3.00			
	CAPRI G	09	0759	0841	0803	N12	E25	4134	42	2	1	0810		7.00			
	SIMEIZ	09	0801	0838 D	0815	N14	E24	4134	37 D	2			16.40		2.80	87	
	UCCLE	09	0951	0954	0952	S30	E75	4144	3	1	2	0952	1.30	3.10			S-SWF
	UCCLE	09	1026	1030	1027	S20	W42	4136	4	1	3	1027	2.20	3.30			
	UCCLE	09	1150	1205 D	1202	S17	E30	4141	15 D	1	3						
	SYDNEY	10	0223	0300 D	0250	N14	F16	4134	37 D	3	2	0250	11.00	12.00			S-SWF
	KRASNAYA	10	0809 E	0915 D	0902 U	S15	F17	4141	66 D	2	2	0902	6.71	7.53		116	
	SIMEIZ	10	0814 E	0915 D	0824	S18	E15	4141	61 D	16			9.10		2.60	59	

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SOLAR FLARES

SEPTEMBER 1957

SEPTEMBER 1957																
OBSERVATORY	DATE 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		MAGNATH FLARE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
CAPRI G UCCLF UCCLF CAPRI G	10	0817	0906	0824	S18	E15	4141	49	16	2	0822		4.00		Slow S-SWF	
	10	0822 F	1030	0827	S17	E15	4141	128 D	2	2	0827	5.80	6.20			
	10	1056	1119		S17	E15	4141	23	1	1		3.40	3.70			
	10	1322	1346	1329	S18	E11	4141	24	1	1	1325		3.00			
SYDNEY SYDNEY CAPRI G SIMEIZ	11	0243	0545	0315	N11	W03	4134	182	3	2	0315	21.00	21.00		Slow S-SWF	
	11	0441	0524	0502	S44	E46	4144	43	1	2	0502	1.00	2.00			
	11	0526 F	0645		N11	E00	4134	19 D	16	2						
	11	0828	0848 D	0835 U	S19	E02	4141	20 D	1			1.80		3.60		52
CAPRI G SIMEIZ CAPRI G CAPRI G	11	0838	0847 D		S18	E02	4141	9 D	1	2	0840		3.00		S-SWF	
	11	0855 F	0908 D	0900 U	S26	W61	4136	13 D	1			4.60		3.60		63
	11	1311 E	1319 D		N11	W04	4134	8 D	1	2	1311		3.00			
	12	0023	0047	0036	N08	W12	4134	24	1	1	0036	2.00	3.00			
SYDNEY SYDNEY SYDNEY SIMEIZ	12	0034	0050	0039	S20	W61	4136	16	1	2	0039	1.00	3.00		S-SWF	
	12	0414	0435	0421	S21	W72	4136	21	1	3	0421	1.00	3.00			
	12	0708			N09	W13	4134		16			10.00		3.80		
	12	0708 F	0737	0711	N08	W14	4134	29 D	2	3	0714		8.00			
CAPRI G UCCLF UNISINK UCCLF	12	0709 F	0734 D		N09	W15	4134	25 D	2	3		10.80	10.80		S-SWF	
	12	1016 E	1028	1017	S19	W12	4141	12 D	1	2				2.20		
	12	1018 E	1045		S25	E20	4143	27 D	1	1		3.30	4.10			
	12	1210 E	1222 D	1215	S17	W09	4141	12 D	1	3	1215	2.50	2.80			
UCCLF UCCLF UCCLF UCCLF	12	1511	1530 D	1515	N10	W19	4134	19 D	2	1	1515	7.50	7.90		S-SWF	
	12	1515			N14	W26	4134		1	1						
	12	1647	1703 D	1657	S16	W16	4141	16 D	1	3	1657	3.80	4.10			
	12	2322	2340	2325	S16	W25	4138	18	1	3	2326	2.00	2.00			
SYDNEY CAPRI G CAPRI G CAPRI G	13	0221	0235	0229	N21	E90	4151	14	1	3	0229	1.00			Slow S-SWF	
	13	0602	0642	0609	S15	W23	4141	40	1	2	0607		3.00			
	13	0718	0732	0724	N22	E17	4142	14	1	2	0723		3.00			
	13	0743	0755	0750	S45	E13	4144	12	1	2	0745		3.00			
CAPRI G CAPRI G CAPRI G CAPRI G	13	0820 F	0831		N22	E17	4142	11	1	2	0823		4.00		S-SWF	
	13	0935	0956	0940	N20	E71	4151	21	1	2	0939		4.00			
	13	0936	1000	0941	N08	W29	4134	24	1	2	0939		3.00			
	13	0951 E		0954	N21	E82	4151		1	2						
UCCLF UCCLF UCCLF CAPRI G	13	1151	1159	1153	S07	W57	4147	8	1	3	1153	2.10	3.30		Slow S-SWF	
	13	1314	1335 D	1316	S17	W25	4141	21 D	26	1	1316	11.00	13.20			
	13	1318 E	1448		S16	W26	4141	90 D	2	1	1322		10.00			
	13	1349	1418 D		S15	W32	4141	29 D	1	1						
CAPRI G UCCLF CAPRI G UCCLF	13	1410	1505	1425	N08	W31	4134	55	2	1	1425		7.00		S-SWF	
	13	1508	1515	1514	S16	W31	4141	7	1	2	1514	2.00	2.50			
	13	1552	1607 D	1553	S27	E67	4150	15 D	1	2						
	13	1554	1607	1554	S14	W31	4141	13	1	1						
SYDNEY SYDNEY KODAIKUN SYDNEY	14	0223	0321	0231	N08	E73	4152	58	2	3	0231	1.00	5.00		S-SWF	
	14	0226	0303	0230	N12	W40	4134	27	2	3	0239	5.00	7.00			
	14	0230	0249	0236	N10	W38	4134	19	1	2	0234	3.20	4.00			
	14	0249	0316	0258	S17	W32	4141	27	1	3	0258	2.00	2.00			
SYDNEY SYDNEY SIMEIZ SIMEIZ	14	0338	0407 D	0356	N08	E73	4152	29 D	2	3	0356	1.00	5.00		S-SWF	
	14	0645	0715 D	0648 U	S17	W45	4141	30 D	1			4.60		1.80		60
	14	0725 F	0816 D	0726 U	N08	E81	4152	21 D	2			11.90		4.30		88
	14	0743 F	0805 D		N07	E78	4152	22 D	16	2	0744		5.00			
CAPRI G CAPRI G	14	1240 E	1305 D		S27	E02	4143	25 D	2	1	1240		7.00			

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SOLAR FLARES

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OBSERVATORY	DATE SEPT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		McMATH PLACE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _o	MAX. INT. %	
					LAT.	MER. DIST.										
UCCLE	14	1335 F			N12	E85	4152		1	1						
UCCLE	14	1406 E	1407		S13	W43	4141	1 D	1	1						
KYOTO	14	2146 E			N24	E60	4151		1		2146	2.80				
KYOTO	14	2146 E			N08	W50	4134		1		2146	4.70				
KYOTO	14	2146 E			S23	W48	4152	13 D	1		2146	1.90				
KYOTO	14	2327 E	2340 D	2.30	N10	E70	4152	13 D	16		2332			1.48		
KODAIKAN	15	0333 F	0400	0334	N07	F70	4152	27 D	2	2	0334	4.30	12.40	5.20	150	S-SWF
KYOTO	15	0415	0428 D		N09	E70	4152	13 D	1		0415					
UCCLE	15	0815 E	0820		N09	F66	4152	5 D	16	3						
UCCLE	15	0847	0858 D	0858	N20	E52	4151	11 D	1	1	0858	1.30	2.20			
UCCLE	15	0919 F	0926	0921	N08	E65	4152	27 D	16	2	0921	2.70	5.00			
CAPRI G	15	1053	1118	1100	N21	E54	4151	25	1	2	1100		3.00			
CAPRI G	15	1232	1241	1237	N09	E65	4152	9	1	2	1235		3.00			
CAPRI G	15	1448	1504	1455	S17	W52	4141	16	1	2	1455		4.00			
SYDNEY	15	2245 F	2259	2246	N07	E53	4152	14 D	1	3	2246	1.50	3.00			Slow S-SWF
KYOTO	15	2301 E			N15	E23	4148		1		2301	3.40				
SYDNEY	15	2317	2326	2322	N10	E51	4152	9	1	3	2322	1.00	2.00			
SYDNEY	16	0355	0409	0358	S15	W61	4141	14	1	3	0358	2.00	4.00			
SYDNEY	16	0455	0525	0509	N10	W68	4134	30	1	3	0509	2.00	5.00			S-SWF
SYDNEY	16	0516	0527	0522	S15	W62	4141	11	1	3	0522	2.00	4.00			
CAPRI G	16	0604 E			S16	W61	4141		1	1	0604		3.00			
CAPRI G	16	0643	0702	0650	N23	E06	4148	19	1	3	0650		3.00			
KRASNAYA	16	0728	0809 D	0759 U	N23	E43	4151	41 D	1	2	0759	4.05	7.56		70	
CAPRI G	16	0745 F	0803		N21	E44	4151	18 D	1	2	0746		4.00			
SINEIZ	16	0752 E	0752 D		N23	E43	4151		1			4.50		2.40	52	
KRASNAYA	16	0835	0923 D	0838 U	N09	F77	4152	48 D	1	2	0838	2.27	2.84		63	
CAPRI G	16	0842 F	0853		N10	E38	4152	11 D	1	2	0842		4.00			
UCCLE	16	1024	1034	1028	N08	E45	4152	10	1	3	1028		3.90			
CAPRI G	16	1025	1036	1029	N06	E44	4152	13	1	1	1027		3.00			
CAPRI G	16	1106	1134	1113	N10	W72	4134	28	1	2	1110		5.00			
UCCLE	16	1110	1120	1113	N08	W73	4134	10	1	3	1113		3.80			
CAPRI G	16	1313 E	1337		N11	E50	4152	24 D	16	2	1315		5.00			G-SWF
CAPRI G	16	1410 F	1428		N10	W74	4134	18 D	16	2	1410		4.00			Slow S-SWF
CAPRI G	16	1513 E	1525 D		N09	E52	4152	12 D	2	1	1513		8.00			
SYDNEY	16	2313 E	2345	2319	N23	F30	4151	32 D	1	3	2319	3.00	4.00			
SYDNEY	17	0121	0139	0127	N23	E32	4151	18	1	3	0127	3.00	4.00			
MIZAMIAH	17	0416 F	0539 D	0418	N23	F28	4151	93 D	16	2	0418	3.34	3.89	2.70		S-SWF
CAPRI G	17	0535 F	0620		N22	E29	4151	45 D	2	2	0540		10.00			
CAPRI G	17	0648	0702	0654	N07	F37	4152	14	1	2	0655		4.00			
CAPRI G	17	0758	0847	0806	N22	F26	4151	49	2	2	0805		10.00			S-SWF
SINEIZ	17	0904 E	0904 D		N23	E28	4151		2			27.40		2.40		
CAPRI G	17	0914	0931	0920	N22	F26	4151	17	1	2	0920		3.00			
CAPRI G	17	1038	1106	1042	N21	E29	4151	28	1	2	1042		2.00			S-SWF
CAPRI G	17	1148 E	1216		N26	W38	4142	28 D	16	2	1150		3.00			
SYDNEY	17	2313 F	0047	2346	N22	E19	4151	94 D	2	2	2346	5.00	6.00			S-SWF
SYDNEY	18	0112	0220	0122	N10	E27	4152	68	1	2	0122	4.00	4.00			
KYOTO	18	0115 E	0135 D	0120	N10	E27	4152	20 D	1		0123		8.10			Slow S-SWF
KYOTO	18	0118 E	0140 D	0121	N14	F36	4152	22 D	1		0123		2.50			
SYDNEY	18	0420	0452	0432	N23	F12	4151	31	1	2	0432	4.00	4.00			Slow S-SWF

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SOLAR FLARES

SEPTEMBER 1957

	OBSERVATORY	DATE SEPT 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.	MATH FLARE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _o	MAX. INT. %	
	{ SINEIZ	18	0624	0708	0632	N23	E14	4151	44	26	2	0638	21.90	5.00	4.30		S-SWF
		18	0635	0640	D	N23	E15	4151	5	D 16							
	{ CAPRI G	18	0817	0852		N16	E90	4158	35	D 1	1	1040	9.00	10.00		G-SWF	
		18	1026	1155	1050	N23	E13	4151	89	2							
	{ CAPRI G	18	1316	1410	1325	N23	E11	4151	54	2	1	1325	5.00	5.00	1.00		
		18	2331	0017	2346	N17	E03	4151	46	1	3	2346					
	{ SYDNEY	18	2331	0017	2346	N17	E03	4151	46	1	3	2346	5.00	5.00	1.00		
		18	2337	2356	D	N17	E04	4151	19	D 16	3	2343					
	{ KYOTO	19	0250	0320		N24	F02	4151	30	D 2	2	0250	7.29	7.61	1.60		Slow S-SWF
		19	0401	0455	0412	N23	E01	4151	54	36	3	0412	48.00	52.00			Slow S-SWF
	{ KODAIKNL	19	0404	0450	0408	N23	E04	4151	46	3		0414		24.70	1.84		
		19	0405	0432	0410	N22	E06	4151	27	2	3	0407	7.20	7.50	3.00	278	
	{ CAPRI G	19	0606	0614	0610	N26	W62	4142	8	1	2	0609		3.00			
		19	0744	0855	D	N24	E03	4151	71	D 2			16.40		4.30	83	S-SWF
	{ SINEIZ	19	0747	0856	0755	N23	E03	4151	9	2	3	0755		7.00			
		19	0825	0900		N23	E01	4151	35	D 2	3	0825	6.60				
	{ UCCLE	19	0831	0846	0834	S24	E08	4155	15	1	3	0834	2.10				
		19	0832	0851	0840	S23	E10	4155	19	1	3	0835		3.00			
	{ CAPRI G	19	0833	0854		N07	E04	4152	21	1	3	0842	2.60				
		19	0851	0857	0853	S24	W58	4149	6	1	5	0853	1.00	2.30			
{ UCCLE	19	0946	1002	D	N22	E03	4151	16	D 1	3	0946	3.40					
	19	0946	1013	D	N24	W09	4151	27	D 1	3	0946	3.40					
{ UCCLE	19	1000	1012	D	N24	E01	4151	12	D 16	4	1000	4.00					
	19	1057	1130	D	S16	W55	4154	33	D 1	2							
{ UCCLE	19	1107	1127	D	N24	W01	4151	20	D 2	2		6.80				G-SWF	
	19	1110	1126	D	N24	W15	4151	16	D 1	3	1114	3.40					
{ UCCLE	19	1112	1124	D	S41	W77	4144	12	D 1	3							
	{ SYDNEY	20	0344	0425	0350	N25	W05	4151	41	1	2	0350	3.00	4.00			Slow S-SWF
		20	0347	0434	0355	N23	W13	4151	47	D 16	2	0355	4.25	4.54	1.60		
	{ NIZAMIAH	20	0405	0447	0430	N22	W12	4151	42	1	2	0430	4.00	5.00			
		20	0443	0501	0448	S22	W03	4155	18	D 1	2	0448	2.43	2.79	1.50		
	{ SYDNEY	20	0443	0525	0446	S21	W02	4155	42	2	2	0446	6.00	6.00			
		20	0450	0454		S21	E00	4155	4	D 1	1	0450			1.80		
	{ NIZAMIAH	20	0529	0552	D	N23	W13	4151	33	D 1	2	0533	2.13	2.27	1.30		
		20	0805	0815	D	N06	W06	4152	10	D 1	1	0815		5.00			
	{ CAPRI G	20	0806	0835	0809	N07	W07	4152	29	16			7.30		2.66		
		20	1240	1245	D	N29	W90	4142	5	D 1	3						
	{ WEDERHORST	20	1430	1442	D	N24	W25	4151	12	D 1	3						
		20	1440	1453		N23	W25	4151	13	D 1	2	1440		4.00			
	{ KYOTO	21	0410	0455		N25	W18	4151	45	2		0410	12.40				
		21	0415	0428	0423	N22	W23	4151	13	1	2	0418	3.90	4.40	2.00	208	Slow S-SWF
	{ KODAIKNL	21	0423	0456		N22	W28	4151	33	D 16	2	0423	4.25	4.96	1.80		
		21	0604	0647	0614	N23	W25	4151	43	16			9.10		2.86		
	{ SINEIZ	21	0657	0706	D	N14	E90	4159	9	D 1			6.80		3.60		
		21	0614	0654	D	N09	E01	4152	40	D 16			7.30		2.52		
	{ SINEIZ	21	0658	0721		N12	E84	4159	23	D 2	1	0708		6.00			
		21	0704	0729	D	N09	W01	4152	25	D 1			4.50		3.24		
{ CAPRI G	21	0707	0718		N09	E00	4152	11	D 1	1	0708		4.00			S-SWF	
	21	0728	0740	D	N09	E02	4152	12	D 1			4.50		2.20			
{ SINEIZ	21	0729	0741	D	N10	E04	4152	12	D 1	1	0732		3.00				
	21	0844	0851	D	N10	W05	4152	7	D 2	1	0847	5.80					

COMBINE - STANDARD - BOLDER

SOLAR FLARES SEPTEMBER 1957

	OBSERVATORY	DATE SEPT 1957	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
			START	END	MAX. PHASE	APPROX.		MAGNITUDE REGION				TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
						LAT.	MER. DIST.										
	CAPRI G	21	0955 E			N09	W01	4152		1	1						Slow S-SWF
	CAPRI G	21	1344 F	1425 D		N09	W03	4152	41 D	2	1	1345		10.00			
	{ CAPRI G	22	0650 E	0718		N08	W35	4152	28 D	16	2	0650		5.00			S-SWF
	{ SIMFIZ	22	0654 F	0725 D	0654 U	N08	W36	4152	31 D	16			7.30		1.96	74	
	{ SIMFIZ	22	0710 F	0710 D		N10	W14	4152		16			9.10		1.64	70	
	{ SIMFIZ	22	0745 E	0840 D	0748 U	N23	W39	4151	55 D	16			9.10		9.80	91	
	{ CAPRI G	22	0746	0819	0802	N23	W34	4151	33	16	2	0755		5.00			
	UCCLE	22	1221	1223 D	1223	N07	W42	4152	2 D	1	2	1223	1.60	2.00			S-SWF
	CAPRI G	22	1321 E			N08	W38	4152		2	2	1321		8.00			
	SYDNEY	22	2322	2352	2331	N17	W57	4151	30	2	3	2331	4.00	7.00			
	SYDNEY	23	0006	0113	0016	N19	E62	4159	67	1	3	0016	2.00	4.00			S-SWF
	SIMFIZ	23	0902	0928	0903	N12	E55	4159	26	1			5.50		2.04	60	
	UCCLE	23	1115	1127	1117	N10	W30	4152	12	1	3	1117	3.40	3.70			
	UCCLE	23	1149	1151 D	1149	N09	W57	4152	2 D	1	2	1149	1.10	1.90			
	UCCLE	23	1454	1505	1500	N24	W57	4151	11	2	3	1500	4.50	7.60			
	UCCLE	23	1454	1533	1500	N13	E51	4159	39	16	3	1529	4.40	6.60			
	UCCLE	23	1529 E		1529	N12	W38	4152		16	3						
	SYDNEY	23	2313 E	0001	2324	N15	E92	4162	47 D	16	3	2324	.50				
	SYDNEY	24	0044	0102	0048	S27	W36	4149	18	16	2	0048	.75				
	SYDNEY	24	0057	0128	0122	N15	E92	4162	31	16	3	0122	.50				
	SYDNEY	24	0224 F	0307	0227	N15	E91	4162	43 D	16	3	0227	.50				S-SWF
	{ SYDNEY	24	0256	0330	0315	N12	W44	4151	34	1	1	0304	2.00	3.00			
	{ KODAIKAWA	24	0257	0310	0300	N10	W45	4151	13	1	3	0258	3.90	5.10	2.70	150	
	SYDNEY	24	0317	0345	0333	S27	W88	4149	28	16	2	0333	2.00				
	SYDNEY	24	0318	0357	0320	N15	E91	4162	39	16	3	0320	.50				
	SYDNEY	24	0427	0439	0434	N15	E91	4162	12	16	3	0434	.50				
	SYDNEY	24	0507	0522	0513	N15	E90	4162	15	16	3	0513	.50				
	KRASNAYA	24	0648 E	0729 D	0724 U	N19	E87	4162	41 D	16	2	0724	1.20	11.50		70	
	SIMFIZ	24	0721	0726	0722	N15	E90	4162	5	16			4.00		4.30		
	SIMFIZ	24	0755	0816	0759 U	N15	E90	4162	21	1			4.00		3.10		
	KRASNAYA	24	0803 E	0820	0809	N19	E86	4162	17 D	16	2	0809	1.04	8.76		54	
	CAPRI G	24	0805 E	0820 D		N15	E90	4162	15 D	1	2						S-SWF
	CAPRI G	24	0931 E	0950		S33	E90	4161	19 D	16	3						
	CAPRI G	24	1035 E			N16	E36	4159		16	2	1036		5.00			
	SIMFIZ	25	0845 E	0909 D	0845 U	S27	E47	4161	24 D	1			4.50		2.24	70	
	SIMFIZ	25	0921 E	0953 D		S25	W70	4155	32 D	1			1.80		2.52	60	
	CAPRI G	25	1342 E	1349		N11	W82	4152	5 D	1	2	1342		4.00			
	UCCLE	26	0856 F	1105	0934	N18	F02	4159	129 D	1	3	0934	4.80				
	UCCLE	26	1102	1107	1104	N14	E55	4162	5	1	4	1104	3.40				
	CAPRI G	26	1225 F	1245 D		S28	F30	4161	20 D	1	2	1230		4.00			
	NIZAMIAH	27	0523	0544 D	0528	S24	E22	4161	21 D	1	2	0528	2.43	3.07	2.20		S-SWF
	UCCLE	27	0958	1004	0959	N16	E47	4162	6	1	3	0959	3.40	4.70			
	UCCLE	27	1125	1134	1126	N10	E13	4159	9	1	3	1126	2.50				
	UCCLE	27	1149	1153	1151	N32	E75	4165	4	1	3	1151	1.50	3.00			
	UCCLE	27	1200	1202 D	1202	N19	F03	4159	2 D	1	3	1202	2.50				
	CAPRI G	27	1200 E	1208		N17	E04	4159	8 D	1	2	1205		4.00			
	{ SIMFIZ	28	0912	0940	0914	N17	W11	4159	28	16			7.30		2.70	80	Slow S-SWF

COMMENCE - DURATION - CEASE

SOLAR FLARES

SEPTEMBER 1957

OBSERVATORY	DATE SEPT 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.	McMATH FLARE REGION				TIME - U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _o	MAX. INT. %	
↑ HIZAMIAH	28	0913 F	0933	0916	N20	W17	4159	20 D	16	2	0916	4.25	4.56	2.60		Slow S-SWF
CAPRI G	28	0925 F	0940 D		N16	W10	4159	15 D	16	3	0925		5.00			
UCCLE	28	0925	1004	0927	N14	W12	4159	39	2	2		5.20				
UCCLE	28	1004	1018	1004	N18	E34	4162	14	1	2		2.70				
CAPRI G	29	0708	0735	0713	N26	W20	4159	27	1	3	0713		4.00			60
SIMEIZ	29	0710 F	0730 D	0712 U	N21	W27	4159	20 D	1			3.60		3.40		
SIMEIZ	29	0744 F	0840 D	0756 U	N18	W25	4159	56 D	2			18.20		3.80		
CAPRI G	29	0753	0806	0758	N17	W24	4159	13	1	1	0758		4.00			
SIMEIZ	29	0922 F	0930 D	0926 U	N17	W25	4159	8 D	1			3.60		2.60		
SIMEIZ	29	0935 F	1002 D	0950 U	S24	E70	4167	27 D	1			2.70		2.80		
CAPRI G	29	1115	1111	1108	N17	W21	4159	6	16	2	1108		6.00			
CAPRI G	29	1149 E	1202		N26	E48	4165	13 D	1	2	1149		2.00			
SYDNEY	30	0212 F	0246	0224	N21	W33	4159	34 D	2	2	0224	6.00	7.00			60
SYDNEY	30	0256	0311	0258	S25	E57	4167	15	1	1	0258	2.00	5.00			
SYDNEY	30	0353	0407	0350	S28	E59	4167	14	1	1	0359	1.00	3.00			
SYDNEY	30	0507	0513	0509	S17	E86	4167	6	11	1	0509	.50				
CAPRI G	30	0745 F	0752 D		S18	E75	4167	7 D	16	2			5.00			
SIMEIZ	30	0748 E	0814 D	0752 U	S18	E85	4167	26 D	16			2.70		4.60		
CAPRI G	30	1028 F	1042 D		N15	W52	4159	14 D	1	2			4.00			
CAPRI G	30	1058	1140 D		N18	W40	4159	42 D	2	2			9.00			
CAPRI G	30	1227 F	1245 D		N16	W45	4159	18 D	2	2			6.00			
UCCLE	30	1229 F	1236		N19	W54	4159	7 D	2	3	1229	4.00		6.40		
UCCLE	30	1253	1306	1255	N19	W55	4159	13	1	3	1255	1.50	2.30			
UCCLE	30	1313	1317		S18	E80	4167	4	1	3	1315	2.00	4.00			
UCCLE	30	1321	1329	1324	S18	E40	4167	8	16	1	1324	3.00	6.00			
CAPRI G	30	1456 F	1538 D		N19	W35	4159	39 D	1	2			5.00			Slow S-SWF
UCCLE	30	1549 F	1518 D	1513	N18	W40	4159	9	16	1	1513	4.00	5.60			
SYDNEY	30	2313	2331	2319	S26	W28	4161	18	1	2	2319	1.50	2.00			

COMMENCE - STANDARDS - END

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

These flare reports are addenda to the September 1957 flares
 published in CRPL-F 158 Part 8, October 1957.

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