SOLAR FLARES

AUGUST 1957

	Observatory	Date Aug. 1957	Time Observed Start UT	Time Observed End UT	Time Max. Phase UT	Approx. Position Lat.	Mer. Dist.	McMath Plage Region Number	Duration Min.	Importance	Obs. Time Cond. of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width Hα	Max. Int. %	Provis. Ionospheric Effect
	MITAKA	01	0119	0123 D		N11	W86	4075	4 D	1	2 0119	1.84	8.25	2.38		
	MITAKA	01	0124	0134		S27	E15	4082	10	1	2 0124	.89	1.08	2.15	125	
	MITAKA	01	0147	0158	0147	S12	E18	4088	11	1	2 0147	1.84	2.02	2.08	131	
	MITAKA	01	0208	0228	0215	S34	E14	4082	20	1	2 0208	3.80	5.00	2.51	140	Slow S-SWF
	MITAKA	01	0216	0242	0218	S27	E12	4082	26	1&	2 0221	3.80	4.60	2.67	176	
	MITAKA	01	0253	0314 D		N34	W04	4086	21 D	1	1 0258	2.05	2.30	2.22	115	
	MITAKA	01	0412	0424 D		N34	W03	4086	12 D	1	1 0417	1.84	2.08	1.70	96	
	MITAKA	01	0424	0437 D		N11	W82	4075	13 D	1	1 0430	.89	3.56	2.45		
	MITAKA	01	0509 E	0524		N11	W88	4075	15 D	1	1 0512	1.84	8.25			
	SIMEIZ	01	0600			N35	W02	4086		2						
	WENDEL	01	0604 E	0629	0607	N33	W06	4086	25 D	1&						
*	SAN MIGUEL	01	0605	0625		N36	W02	4086	20	2			7.00			
	MITAKA	01	0605	0625	0611	N34	W06	4086	20	2	1 0607	7.57	8.55	2.45	156	
	TASHKENT	01	0605 E	0705	0606	N34	W05	4086	60 D	2&						
	ABASTUMANI	01	0614 E			N34	W07	4086		2						
	UCCLE	01	0808 E			N14	W87	4075		2						
	CAPRI S	01	0819 E	0828 D		N10	W88	4075	9 D	1	3	.40	2.40			
	UCCLE	01	0819	0849		S32	E12	4082	30	1						
	UCCLE	01	0943	1038	0952	S31	E08	4082	55	1	0952		3.20			
	CAPRI S	01	0951	1055		S30	E08	4082	64	2	2 1020	4.50	5.40			
	CAPRI S	01	1033 E	1056 D		N09	W89	4075	23 D	1	2		3.00			
	ONDREJOV	01	1034 E	1037 D		N15	W85	4075	3 D	1	2 1035	.50		3.20		
	UCCLE	01	1131	1140	1134	N35	W06	4082	9	1	1134		3.10			
*	CAPRI S	01	1131 E	1205 D		N36	W07	4086	34 D	1	2	3.20	3.80			
	ONDREJOV	01	1134 E	1148 D	1140	N34	W06	4086	14 D	1&	2 1140			2.80		
	OTTAWA	01	1259	1333	1304	N12	W81	4075	34	1	1 1321	.58	3.20			
	SAC PEAK	01	1352	1437	1420	S35	E04	4082	45	1	2	3.00			15	
	MEUDON	01	1629 E	1640 D		S35	E10	4082	11 D	2						
	*MT WILSON	01	1748	1800		N25	E44	4083	12	1						
	MT WILSON	01	1802	1807		S35	E10	4082	5	1						
	HAWAII	02	0012	0020	0016	N23	E33	4083	8	1&	3					
	MITAKA	02	0433	0438 D		S25	W12	4082	5 D	1	2 0433	4.10	5.40			
	ONDREJOV	02	0459	0506	0502	S32	W01	4082	7	1	3 0502	1.84	2.02	2.10	102	
	UCCLE	02	0905	0915	0907	S31	W02	4082	10	1				2.80		
	*ONDREJOV	02	0954 E	0958 D		S30	W01	4082	4 D	1	2 0956					
	*ONDREJOV	02	1328 E	1342		S30	W04	4082	14 D	1	1 1332			2.30		
*	ONDREJOV	02	1328 E	1343		N32	W21	4086	15 D	1	1 1336			2.50		Slow S-SWF
	OTTAWA	02	1330 E	1356	1332	N33	W21	4086	26 D	1	1 1332	1.97	2.38	2.90		Slow S-SWF
	OTTAWA	02	1356		1404	N10	E57	4089		1	1 1404	1.16	2.17			
	USNRL	02	1356	1413	1403	N08	E60	4089	17	1	2 1403	1.13	3.32		104	
	R O EDIN	02	1358	1416	1404	N10	E60	4089	18	2	2 1402	3.00	6.00	5.22		S-SWF
	R O HERST	02	1359	1408	1403	N09	E59	4089	9	1	2 1402	.50	1.00	6.60	240	
	ONDREJOV	02	1359 E	1411	1407	N09	E55	4089	12 D	1&	2 1407			4.80		
	UCCLE	02	1432	1445	1435	N25	E32	4083	13	2	1435		5.80			
*	MC MATH	02	1436	1445		N26	E30	4083	9	1&						
	R O EDIN	02	1437 E	1446		N26	E34	4083	9 D	1	2 1440	1.50	1.90	5.36		S-SWF
	ONDREJOV	02	1438 E	1446 D		N25	E22	4083	8 D	2	3 1438			5.40		
	UCCLE	02	1527	1532	1530	S32	W12	4082	5	1						
*	MT WILSON	02	1530	1535		S35	E00	4082	5	1						
	ONDREJOV	02	1531 E	1534		S32	W06	4082	3 D	1&	3 1531			3.20		
	UCCLE	02	1637	1653	1647	N36	W21	4086	16	1						
*	ONDREJOV	02	1654 E	1659 D		N34	W21	4086	5 D	1	1					G-SWF
	USNRL	02	1807	1826	1814	N07	E57	4089	19	1	2 1814	2.04	3.76		95	
*	MT WILSON	02	1815	1830		N09	E55	4089	15	1&						Slow S-SWF
	HAWAII	02	2232	2252	2244	S30	W10	4082	20	1	1	4.10	5.40			
	HAWAII	02	2344		2348	N15	E55	4089		1	1	5.10	9.60			
	MITAKA	03	0221 E	0250 D	0234	S28	W13	4082	29 D	1	1 0221	.89	1.01	2.33	118	
	MITAKA	03	0254	0310 D	0300	S30	W12	4082	16 D	1	1 0255	.89	1.12	1.87	93	
	MITAKA	03	0318	0327 D	0322	S34	W09	4082	9 D	1	1 0322	.89	1.15	1.78	107	
	MITAKA	03	0328	0350 D	0332	N09	E50	4089	22 D	1&	1 0332	3.80	5.82	1.62	120	
	MITAKA	03	0450	0459		S34	W10	4082	9	1	1 0451	.89	1.15	2.54	102	
	MITAKA	03	0455	0517 D	0459	S31	W10	4082	22 D	1	1 0459	1.34	1.68	2.85	134	
	MITAKA	03	0458	0512	0459	S30	W13	4082	14	1	1 0501	.89	1.10	1.93	107	
	MITAKA	03	0501	0520 D	0512	S28	W15	4082	19 D	1	1 0501	.89	1.09	1.93	107	
	UCCLE	03	0608 E	0623	0615	N08	F49	4089	15 D	1	3 0615		4.00			
	UCCLE	03	0804 E	0806 D		N27	F09	4083	2 D	1						
*	ZURICH	03	0820 E	0854		S30	W14	4082	34 D	1	3 0820		5.00			
	UCCLE	03	0820	0943 D	0833	S30	W17	4082	83 D	1&	0833		5.60			
	ZURICH	03	0855	0905 D		N16	E21	4083	10 D	1	3 0855		1.00			
	CAPRI S	03	0913 E	0933		S29	W15	4082	20 D	1	3	2.00	2.40			
	UCCLE	03	0958	1003	1001	S23	W29	4082	5	1&	1001		5.20			
	CAPRI S	03	1153	1246		S16	W14	4088	53	1&	3 1207	2.50	2.60			
*	UCCLE	03	1155	1232	1200	S13	W14	4088	37	2&	1200		9.00			G-SWF

Capri S. = Anacapri (Swedish)
Kodaikl = Kodaikanal.
Krasnye = 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.
* 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

AUGUST 1957

Observatory	Date Aug. 1957	Time Observed Start UT	Time Observed End UT	Time Max Phase UT	Approx. Position Lat.	Mer. Dist.	McMath Plage Region Number	Duration Min.		Importance	Obs. Time Cond. of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width Hα	Max. Int.	Provis. Ionospheric Effect
MEUDON	03	1155	1300		S16	W10	4088	65		2						
UCCLE	03	1158	1204	1200	S19	W12	4088	6		1	1200		3.00			G-SWF
* CAPRI S	03	1208	1238		S29	W17	4082	30		1						
USNRL	03	1213	E 1242	1217	S29	W19	4082	29	D	1	3	2.00	2.40			
OTTAWA	03	1312	1340	1316	N28	E11	4083	28		1	1 1217	1.92	2.16		83	
* UCCLE	03	1313	1340	1318	N29	E12	4083	27		1	1 1316	3.83	4.24			
CAPRI S	03	1315	1339		N27	E12	4083	24		1	1318		5.30			Slow S-SWF
* R O EDIN	03	1432	1442	1434	S32	W16	4082	10		1	3	3.00	3.50			
CAPRI S	03	1524	1530		N10	E42	4089	6		1	1 1336	2.00	2.65	3.09		
SAC PEAK	03	1545	1602	1557	S31	W21	4082	17		1	3	1.80	2.70			
UCCLE	03	1548	1600	1556	S29	W20	4082	12		1	2	2.10			19	
CAPRI S	03	1550	1600		S28	W19	4082	10		1	1556		3.60			
UCCLE	03	1611	1626		S31	W17	4082	17		1	3	1.80	2.10			
* UCCLE	03	1638	1643	D 1638	N29	E06	4083	5	D	1			2.80			
MT WILSON	03	1638	1648		N26	E12	4083	10		1	1638		2.10			
UCCLE	03	1721		1724	N27	E17	4083			1						
SAC PEAK	03	1722	E 1735	1722	E N26	E17	4083	13	D	1	1724		4.60			
MC MATH	03	1730	E 1734		N26	E10	4083	4	D	1	2				28	Slow S-SWF
* UCCLE	03	1726	1744	D 1729	S30	W20	4082	18	D	1						
MC MATH	03	1734	E 1737	D	S29	W20	4082	3	D	1	1729		3.20			
* HAWAII	03	1840	1856	1844	S29	W25	4082	16		1						
MT WILSON	03	1842	1852		S30	W14	4082	10		1	1	1.70	2.20			
UCCLE	04	0634	0705	0646	S02	E37	4089	31		1	2					
* UCCLE	04	0729	0742	0731	N27	E37	4085	13		1	0731		4.80			
CAPRI S	04	0730	0750		N22	E35	4089	20		1	3	1.50	2.00			G-SWF
UCCLE	04	0926	1029	0934	S26	E55	4090	63		1	0934		4.20			
UCCLE	04	1006	1036	1011	N09	E33	4089	30		1	1011		2.70			
* UCCLE	04	1021	1031	1024	N24	E12	4083	10		1	1024		2.70			
ZURICH	04	1120	E 1129		N08	E33	4089	9	D	1	3 1120		2.00			
MT WILSON	04	1542	1554		S36	W26	4082	12		1						
MT WILSON	04	1622			N26	W01	4083			1						
UCCLE	04	1639	1654	1644	N35	W01	4083	15		1	1644		4.30			G-SWF
WENDEL	04	1644	E 1653		N26	E02	4083	9	D	16			7.00			
MT WILSON	04	1827			N26	W02	4083			16						Slow S-SWF
* ONDREJOV	05	0807	E 0814		S28	W54	4082	7	D	1	3 0809			2.90		
ONDREJOV	05	0938	E 0944		S20	E64	4090	6	D	1	2 0942			2.80		
* ONDREJOV	05	1259	1308	D 1303	N22	W18	4083	9	D	16	2 1303			2.50		
* UCCLE	05	1614	E 1621	D 1616	S23	W65	4082	7	D	1	1616		2.30			
ONDREJOV	05	1620	E 1624	1622	S26	W59	4082	4	D	1	3 1622			4.40		
USNRL	05	1902	1954	1905	N26	W11	4083	52		1	2 1905	2.60	2.81		102	
* MT WILSON	05	1905	E 1920		N26	W10	4083	15		16						
MC MATH	05	1905	E 1925	D	N27	W05	4083	20	D	1						S-SWF
* ONDREJOV	06	0654	0703	0657	N24	W16	4083	9		16	3 0657			6.00		
ONDREJOV	06	0715	0723	0717	N24	W22	4083	8		16	3 0717			2.50		
CAPRI S	06	1053	E 1059		S30	W48	4082	6	D	1	3	1.50	2.60			
ONDREJOV	06	1057	E 1059		S32	W47	4082	2	D	16	3 1057			1.60		
USNRL	06	1134	1145	1136	S39	E68	4094	11		1	2 1136	1.02	4.26			
* ONDREJOV	06	1136	E 1144		S34	E82	4094	8	D	1	3 1136			3.60		
CAPRI S	06	1136	1146		S37	E80	4094	10		1	3	.60	2.70			
* CAPRI S	06	1200	E 1210	D	S27	W55	4082	10	D	1	3	1.50	3.00			
MT WILSON	06	1354	1404		S37	E68	4094	10		1						
* CAPRI S	06	1354	1417		S37	E78	4094	23		1	3	.50	2.20			
OTTAWA	06	1355	E		S35	E67	4094			1	1 1401	.70	3.12			
MT WILSON	06	2323	2326		S37	E65	4094	3		1						
* KANZELHOHE	07	0714	E 0800	D	N25	W45	4083	46	D	2						
OTTAWA	07	1115		1119	N26	W37	4083			1	2 1136	1.68	2.23			
UCCLE	07	1119	E 1124		N27	W40	4083	5	D	1			2.50			
* UCCLE	07	1134	1204	D 1135	N27	W40	4083	30	D	1			2.20			
* CAPRI S	07	1602	E 1628		N25	W51	4083	26	D	1	3	1.50	2.80			
ZURICH	07	1606	1640	D	N26	W46	4083	34	D	1	3 1606		5.00			
MT WILSON	07	1642	1652		S20	E49	4093	10		1						
MT WILSON	07	2155	2200		N26	W46	4083	5		1						G-SWF
MT WILSON	07	2345	0024		N26	W47	4083	39		16						G-SWF
ATHENS	08	0611	0634	0613	N13	W15	4089	23		1	4		3.40	3.50		
CANBERRA	08	0611	0634		N13	W15	4089	23		1						
CAPRI S	08	0611	0640		N12	W14	4089	29		16	3 0619	4.00	4.20			
* UCCLE	08	0805	0817	0805	S15	E42	4093	12		2	0805		6.10			
UCCLE	08	1116	1121	D 1121	N30	W60	4083	5	D	1	1121		4.20			
ONDREJOV	08	1118	E 1201	1126	N27	W58	4083	43	D	2	2 1126			5.50		
KANZELHOHE	08	1120	E 1205	D	N25	W55	4083	45	D	2						Slow S-SWF

SOLAR FLARES

AUGUST 1957

Observatory	Date Aug. 1957	Time Observed Start UT	Time Observed End UT	Time Max. Phase UT	Approx. Position Lat. Mer. Dist.	McMath Plage Region Number	Duration Min.	Importance	Obs. Time Cond. of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg	Max. Width Hg	Max. Int.	Provis. Ionospheric Effect
CAPRI S	08	1120 E	1216		N26 W62	4083	56 D	2b	3 1128	2.50	6.30			Slow S-SWF
SCHAUINS	08	1125 E	1227 D		N27 W60	4083	62 D	2						
WENDEL	08	1134 E	1153 D	1139	N28 W50	4083	19 D	2b			17.00			
R O HERST	08	1134 E	1157 D	1134 E	N28 W57	4083	20 D	1b	1 1137	2.40	4.40	2.10	92	
ZURICH	08	1146 E	1210 D		N28 W55	4083	24 D	1	2 1146		6.00			
USNRL	08	1152 E	1220	1156	N28 W58	4083	28 D	1	1 1156	2.60	5.00		82	
ABASTUMANI	09	0609	0739	0629	S09 E75	4099	90	2						
WENDEL	09	0617 E	0658	0637	S10 E78	4099	41 D	2			12.00			
ATHENS	09	0623	0648	0626	S09 E74	4099	25	1b	3	1.00	4.1			
CANBERRA	09	0623	0648		S09 E74	4099	25	1b						
CAPRI S	09	0624 E	0652		S08 E73	4099	28 D	1b	3 0628	1.20	4.80			S-SWF
SAN MIGUEL	09	0626	0640		S05 E75	4099	14	2						
MITAKA	09	0626	0640		S07 E78	4099	14	2	2 0626	3.80	1.51	3.43		
ZURICH	09	0636 E	0646 D		S10 E77	4099	10 D	1	3 0636		5.00			
ONDREJOV	09	0622	0642	0625	N10 E80	4098	20	1	3 0625			6.10		
ZURICH	09	0813 E	0819		N25 W66	4083	6 D	1	3 0813		2.00			
ONDREJOV	09	0836 E	0842		N11 E63	4098	6 D	1	3 0836			3.50		
CAPRI S	09	0913	0932 D		S08 E72	4099	19 D	1	2 0920	1.50	5.20			
SAC PEAK	09	1330	1442	1355	S33 W80	4082	72	1	1	2.10			14	
OTTAWA	09	1401 E			S33 W74	4082		1	1 1410	2.03	1.15 5	o		Slow S-SWF
MT WILSON	09	1614	1619		S36 E31	4094	5	1						
ONDREJOV	09	1616 E	1621		S33 E22	4094	5 D	1	1 1617			2.50		
MT WILSON	09	2149	2210		S11 E68	4099	21	1						
MT WILSON	09	2200	2210		S16 E39	4093	10	1						
MT WILSON	10	0125			N26 W71	4083		1						
ATHENS	10	0641	0702	0643	N24 W81	4083	21	1b	3	.80	3.80			S-SWF
CAPRI S	10	0642 E	0723 D		N21 W83	4083	41 D	1b	2 0646	1.50	6.80			Slow S-SWF
SIMEIZ	10	0703	0714	0709	S28 W90	4082	11	2						
CAPRI S	10	1059 E	1130		S11 E59	4099	31 D	2b	3 1101	3.50	7.30			
SIMEIZ	10	1102 E	1133		S10 E60	4099	31 D	2						
ONDREJOV	10	1102 E	1133 D		S10 E60	4099	31 D	2	1					S-SWF
CAPRI S	10	1133	1147		S07 E59	4099	14	1	3 1135	1.00	2.00			
MT WILSON	10	1655	1710		S10 E00	4093	15	1						G-SWF
MT WILSON	10	1850	1855		S10 E01	4093	5	1						
MT WILSON	10	2042	2046		S30 W90	4082	4	1						
MT WILSON	10	2224	2235		S10 E03	4093	11	1						
UCCLE	11	0939	0955	0940	S22 E52	4099	16	1	0940		3.30			
USNRL	11	1148	1202	1149	N28 W90	4083	14		2 1149	.34			45	
HAWAII	11	2148	2208	2152	S10 E38	4099	20	1	3	4.50	6.00			S-SWF
MITAKA	11	2338 E	2354 D		N16 E25	4098	16 D	1	1 2343	1.78	2.00	1.60	87	
MITAKA	12	0037	0046 D	0040	N16 E14	4098	9 D	1	1 0040	3.80	3.95	3.14	149	
HAWAII	12	0148	0208	0154	S31 E90	4106	20	1b	3	5.20				
ATHENS	12	0702	0709	0704	N11 W71	4089	7	1	3	.90	2.50			
CAPRI S	12	1034 E	1047		S37 E73	4106	13 D	1	3 1038	1.00	4.50			
CAPRI S	12	1235	1255		N20 E30	4098	20	1	3 1243	1.60	2.20			
MT WILSON	12	1500 E	1610		N20 E25	4098	70 D	1b						
CLIMAX	12	1514	1617 D	1531	N11 E26	4098	63 D	1	1531	2.90				
UCCLE	12	1516	1627 D	1532	N18 E26	4098	71 D	2b	1532		8.00			
SAC PEAK	12	1520	1627	1537	N14 E24	4098	7	1	2	2.90			18	
CAPRI S	12	1523	1625		N18 E23	4098	62	2	3 1558	4.30	5.10			
MC MATH	12	1525 E	1617 D		N15 E25	4098	52 D	1b						
HUANCAYO	12	1525 E	1620	1530	N12 E29	4098	55 D	1b	2					
USNRL	12	1529 E	1628	1550	N16 E25	4098	59 D	1	1 1550	2.82	3.16		74	
ZURICH	12	1533 E	1608 D		N13 E22	4098	35 D	1	2 1533		6.00			
ARCETRI	12	1540 E	1616 D		N14 E26	4098	36 D	1	2 1603	2.50	2.90			
MT WILSON	13	0102			N13 E12	4098		1b						
USNRL	13	1241	1318	1250	S32 W20	4094	37	1	2 1250	1.81	2.55		90	
CAPRI S	13	1244	1312		S30 W17	4094	28	1	3 1250	2.00	2.80			G-SWF
OTTAWA	13	1245	1320	1252	S34 W18	4094	35	2	1 1252	4.41	6.14			
SAC PEAK	13	1255 E	1357	1255	S35 W21	4094	2 D	1	2	2.20			15	
SAC PEAK	13	1355	1435	1400	N16 E05	4098	40	1	2	2.90			18	
OTTAWA	13	1357			N15 E04	4098		1	1 1409	3.94	4.02			
MC MATH	13	1400 E	1413 D		N15 E12	4098	13 D	1						
CLIMAX	13	1403 E	1430		N15 E05	4098	27 D	1	1403	2.50				
SAC PEAK	13	1455	1522	1457	N15 E04	4098	27	1	2	2.90			17	
MC MATH	13	1850 E	1915 D		N15 E00	4098	25 D	1b						Slow S-SWF
SAC PEAK	13	2035	2100	2047	N11 E16	4098	25	1	2	2.90			13	G-SWF
UCCLE	14	1208 E	1221	1212	N17 W08	4098	13 D	1b	1212		4.60			
SAC PEAK	14	1305 E	1345	1305 E	S26 E55	4105	40 D	1	2	2.10			15	

Observatory	Date Aug. 1957	Time Observed Start UT	Time Observed End UT	Time Max. Phase UT	Approx. Position Lat.	Approx. Position Mer. Dist.	McMath Plage Region Number	Duration Min.	Importance	Obs. Time Cond. of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width Hα	Max. Int. %	Provis. Ionospheric Effect
* USNRL	14	1921	1936 D	1926	N15	W13	4098	15 D	1	1 1926	1.70	1.79		120	
HAWAII	14	1922	1938		N14	W12	4098	16	1	3	2.10	2.20			S-SWF
* HAWAII	14	1944	1958	1950	N15	W10	4098	14	1	3	1.90	2.00			
USNRL	14	2008	2034	2009	N15	W14	4098	26	1	2 2009	2.04	2.13		99	
HAWAII	14	2008	2034	2016	N14	W16	4098	26	1	3	2.70	2.90			Slow S-SWF
MT WILSON	14	2237	2243		S34	E52	4106	6	1						
MT WILSON	15	0055	0103		S32	W16	4107	8	1						
ONDREJOV	15	0556 E	0605		S38	W39	4094	9 D	2	3 0559			2.90		
* ONDREJOV	15	0615 E	0625		N14	W17	4098	10 D	1	3 0618			2.50		
CAPRI S	15	0914	0932		N15	W16	4098	18	1	2 0921	2.50	2.70			
ONDREJOV	15	0916 E	0926	0919	N14	W18	4098	10 D	16	3 0919			2.60		
ONDREJOV	15	1207 E	1215	1209	N14	W18	4098	8 D	1	2 1209			2.30		
OTTAWA	15	1210 E			N15	W22	4098		1	1 1214	2.78	3.05			
SAC PEAK	15	1727	1807	1735	S12	W56	4093	40	1	1	2.10			18	
USNRL	15	1730 E	1749 D	1734	S12	W56	4093	19 D	1	1 1734	1.70	3.51		89	Slow S-SWF
MT WILSON	15	1732	1742		S15	W47	4093	10	1						
MT WILSON	15	2020	2030		N10	E79	4112	10	1						
* LVOV	16	0719	0728		S16	W58	4093	9	16						
CAPRI S	16	1000 E	1007		S12	W58	4093	7 D	1	3 1002	1.30	2.60			
OTTAWA	16	1438			N18	E71	4112		1	1 1442	1.04	3.13			
MT WILSON	16	2325	2330		S09	E21	4105	5	1						
OTTAWA	17	1230		1233	S21	E06	4105		1	2 1233	1.74	1.99			
CAPRI S	17	1231	1304		S22	E07	4105	33	1	3 1247	2.00	2.20			
MC MATH	17	1237 E	1316 D		S21	E03	4105	39 D	1						G-SWF
OTTAWA	17	1245	1316	1249	S21	E08	4105	31	1	2 1249	2.44	2.80			
* MT WILSON	17	1717	1737		N10	E53	4112	20	1						G-SWF
* MT WILSON	17	1930	1945		N10	E53	4112	15	1						G-SWF
MT WILSON	17	2002	2010		S22	E06	4105	8	1						
MT WILSON	17	2045	2055		N10	E90	4114	10	1						
* MT WILSON	17	2135	2150		S22	E10	4105	15	1						
MC MATH	17	2143 E	2153 D		S22	E00	4105	10 D	1						Slow S-SWF
SIMEIZ	18	0612 E	0630	0615	S16	W90	4093	18 D	16						S-SWF
OTTAWA	18	1131		1133	N18	E46	4112		1	1 1133	1.80	2.61			
* OTTAWA	18	1323	1349	1326	S20	W07	4105	26	1	1 1326	2.09	2.37			
MT WILSON	18	1618	1625		S16	W90	4093	7	1						
MT WILSON	18	1925	1935		S23	E05	4105	10	1						
ATHENS	19	0548 E	0634		N11	W88	4100	46 D	1	3	.40	3.20			S-SWF
UCCLE	19	0929	0939	0932	N13	E45	4112	10	1	2 0932		3.30			
UCCLE	19	1100	1120 D	1105	N18	W28	4101	20 D	2	1105		6.10			
ARCETRI	19	1108 E			N18	W28	4101		1	2 1108	1.80	2.07			
MT WILSON	19	1530	1540		N16	W84	4100	10	1						
MT WILSON	19	1930	1945		N30	E30	4111	15	1						G-SWF
MT WILSON	19	2035	2045		N20	E29	4112	10	1						
MITAKA	20	0000 E	0015		S21	W15	4105	15 D	1	1 0005	1.84	2.08			
MITAKA	20	0229	0241	0233	S19	W28	4105	12	1	1 0229	.89	1.06	1.74	120	
CAPRI S	20	0956	1019		S22	W36	4105	23	1	3 1001	1.60	2.10			
ZURICH	20	0958	1022	1002	S21	W33	4105	24	1	3 1002		3.00			
ZURICH	20	1028	1037	1032	N21	E30	4112	9	1	3 1032		5.00			
CAPRI S	20	1029	1040		N25	E28	4112	11	1	3 1034	3.00	3.80			
HUANCAYO	20	1642	1653	1643	N12	E13	4112	11	1	1					
* MT WILSON	20	1645	1655		N09	E15	4112	10	16						S-SWF
MC MATH	20	1648 E			N14	E10	4112		1						
MT WILSON	21	0157	0203		N20	E24	4112	6	1						
MITAKA	21	0517 E	0532 D	0522	S21	W42	4105	15 D	1	1 0519	3.80	5.55	1.87	107	
ARCETRI	21	0745	0839 D		N25	E19	4112	54 D	16	1 0804	4.10	4.50			
SIMEIZ	21	0748	0839		N26	E24	4112	51	2						
KRASNAYA	21	0753	0844	0758	N21	E20	4112	51	2						
ATHENS	21	0754	0825	0759	N22	E19	4112	31	1	3	3.00	3.30			
CAPRI S	21	0800 E	0844		N25	E16	4112	44 D	2	3 0824	6.00	6.90			
CAPRI S	21	0844	0918 D		S27	W15	4106	24 D	1	3 0855	2.00	2.20			
UCCLE	21	1114 E	1150		S27	E87	4117	36 D	2	1					
ONDREJOV	21	1145 E	1152 D		S26	E85	4117	7 D	16	2 1149			4.30		G-SWF
UCCLE	21	1126	1131		N17	E09	4112	5	1						
USNRL	21	1245	1308	1252	S25	E80	4117	23	1	2 1252	.45	2.48		53	G-SWF
USNRL	21	1321	1405	1331	S25	E80	4117	44	1	2 1331	.57	3.10		52	
* USNRL	21	1418	1446	1422	S26	E85	4117	28	1	2 1422	.93			68	G-SWF
HAWAII	21	1940	2030 D	1950	N20	W60	4101	50 D	16	1	3.10	6.40			
UCCLE	22	1005	1029		N09	E90	4118	24							

SOLAR FLARES

AUGUST 1957

Observatory	Date Aug. 1957	Time Observed Start UT	Time Observed End 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 Hα	Max. Int. %	Provis. Ionospheric Effect
MT WILSON	22	1545	1950		S30	W31	4106	5		1							
CAPRI S	22	1609	1700	D	N29	E05	4112	51	D	1	3	1650	2.00	2.20			
ARCETRI	22	1612	1652	D	N26	E10	4112	40	D	2	2	1650	5.30	5.40			
USNRL	22	1612	1804		N13	E08	4112	112		1	2	1651	2.60	2.84		72	
ONDREJOV	22	1614	1638	D	N14	E10	4112	24	D	1&	2	1623			2.80		Slow S-SWF
MT WILSON	22	1615	1650		N25	E09	4112	35		1&							
MC MATH	22	1625 E	1705	D	N14	E00	4112	40	D	1&							
SAC PEAK	22	1637 E	1640	D	N27	E07	4112	3	D	1	1		2.60			17	
MITAKA	22	2224 E	2237	D	N22	W08	4112	13	D	1	1	2224	1.78	1.84	1.81	91	
MITAKA	23	0335	0350	D	N12	W14	4112	15	D	1	1	0340	3.80	3.88	1.60	107	
* MITAKA	23	0617 E	0629		N18	W10	4112	12	D	1	1	0619	3.80	3.91	2.38	120	
* MITAKA	23	0628	0636		N18	W12	4112	8		1	1	0628	.89	.92	2.15	91	
UCCLE	23	0925	0928		0927 N09	E85	4122	3		1							
ZURICH	23	0927	0933		N11	E83	4122	6		1	3	0929		3.00			
OTTAWA	23	1145	1255		1152 N15	W14	4112	10		2	1	1152	5.92	6.18			
CAPRI S	23	1146	1300		N17	W19	4112	74		2	3	1156	6.00	5.60			
WENDEL	23	1147 E	1221	D	N17	W16	4112	34	D	2&				18.00			
ONDREJOV	23	1150 E	1208		N14	W15	4112	18	D	1&	3	1152			2.40		Slow S-SWF
UCCLE	23	1150 E	1228	D	1159 N15	W17	4112	38	D	3	1	1159		14.40			
MC MATH	23	1200 E	1230	D	N15	W19	4112	30	D	1&							
UCCLE	23	1202	1208		1203 N23	W82	4101	6		1							
* NEDERHORST	23	1402 E	1406		N19	W10	4112	4		1							
ONDREJOV	23	1405 E	1409		N17	W14	4112	4	D	1&	3	1405			3.10		S-SWF
MITAKA	24	0426	0434		0428 S22	W61	4105	8		1	1	0428			2.52	113	
UCCLE	24	0742 E	0800		N10	E70	4122	18	D	1	2	0747		2.10			
ATHENS	24	0747	0756		N13	E65	4122	9		1	3		.90	2.20			
UCCLE	24	0751	0801		0754 S34	E87	4125	10		1							
UCCLE	24	1113 E			1113 N23	W26	4112			1	2						
UCCLE	24	1202	1225		1208 S16	E50	4121	23		1	2	1208		3.00			
UCCLE	24	1239	1244	D	1244 N19	W26	4112	5	D	1	2	1244		2.30			
UCCLE	24	1608	1619		N20	W29	4112	11		1	1	1612		2.10			Slow S-SWF
* SCHAUINS	24	1635 E	1759		N11	E57	4122	84		2							
SCHAUINS	24	1652 E	1800		N20	E90	4124	68		2							
* CLIMAX	24	1732	1754		1740 N18	W27	4112	22		1		1740	2.10				
MT WILSON	24	1856	1900		N13	W29	4112	4		1							
* MT WILSON	24	1922	1930		N13	W29	4112	8		2							S-SWF
MT WILSON	24	2152	2200		N10	E55	4122	8		1							
SAC PEAK	24	2158 E	2216	D	2200 N11	E57	4122	18	D	1	2		2.10			15	
MT WILSON	25	0037	0046		N24	W39	4112	9		1&							
MITAKA	25	0038 E	0051		0039 N22	W37	4112	13	D	1&	1	0038	5.67	7.25	3.00	152	
MITAKA	25	0117	0131		N20	W33	4112	14		1	1	0117	2.78	3.36	2.58	113	
MITAKA	25	0245 E	0255	D	0247 N11	E48	4118	10	D	1	1	0245	1.84	2.96	1.86	120	S-SWF
ATHENS	25	0607	0612		N15	E90	4124	5		1&	3		.40	3.90			
UCCLE	25	0641	0646	D	N21	W37	4112	5	D	1	1						
CAPRI S	25	0914 E	0935		N22	W35	4112	21	D	1	3	0918	1.80	2.30			
ZURICH	25	0915 E	0939		N19	W37	4112	24	D	1	2	0915		5.00			S-SWF
ONDREJOV	25	0917 E	0937		N20	W37	4112	20	D	1&	3	0917			3.80		
ZURICH	25	0924	0930		0925 N10	E52	4122	6		1	2	0925		3.00			
* ZURICH	25	1010 E	1014		N23	W41	4112	4	D	1	2	1010		2.00			
UCCLE	25	1156	1202		N10	E49	4122	6		1	1						
UCCLE	25	1247 E	1309	D	1250 N10	E49	4122	22	D	1	2	1250		2.60			
UCCLE	25	1339	1400	D	N26	E90	4124	21	D	1							
CAPRI S	25	1339 E	1408	D	N29	E90	4124	29	D	1	3	1350	2.50				
* UCCLE	25	1456	1526		1506 N20	W41	4112	30		1	2	1506		2.30			
CAPRI S	25	1500	1528	D	N22	W38	4112	28	D	1	2	1510	2.00	2.80			
ONDREJOV	25	1501	1513	D	1504 N20	W40	4112	12	D	1	3	1504			3.20		
ARCETRI	25	1505	1532		N20	W37	4112	27		1	1						
MT WILSON	25	1506	1515		N17	W38	4112	9		1&							
MT WILSON	25	1532	1545		N10	E45	4122	13		1							
UCCLE	25	1558	1626	D	1621 N09	E47	4122	28	D	2	2	1621		10.20			
SAC PEAK	25	1752	1852		1806 N10	E46	4122	60		1	2		2.20			19	
MT WILSON	25	1802	1830		N10	E43	4122	28		1&							Slow S-SWF
SAC PEAK	25	2247	2307		2255 N10	E43	4112	20		1	2		2.10			19	
SAC PEAK	25	2342	2407	D	2407 S33	E63	4125	25	D	1&			4.90			20	S-SWF
MT WILSON	26	0045	0053		N11	E40	4122	8		1							
ATHENS	26	0558	0616		S28	E50	4125	18		2	3		3.50	7.00			
ATHENS	26	0655	0700		S30	E65	4125	5		1	3		.80	2.50			
UCCLE	26	0737	0742		0740 S13	E33	4121	5		1	1	0740		5.20			
ZURICH	26	0853	0908		N23	E66	4124	15		1	3	0853		2.00			
WENDEL	26	0906 E	0932	D	S10	E45	4126	26	D	1				4.00			
CAPRI S	26	0909	0930	D	S16	E43	4122	21	D	1	1	0914	2.50	3.50			

	Observatory	Date Aug. 1957	Time Observed Start UT		Time Observed End UT		Time Max. Phase UT	Approx. Position Lat.	Mer. Dist.	McMath Plage Region Number	Duration Min.		Importance	Obs. Time Cond. of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width Hα	Max. Int. %	Provis. Ionospheric Effect
	ZURICH	26	0912		0925		0914	S03	E46	4126	13		1	3 0914		6.00			
	ONDREJOV	26	0915	E	0928			S12	E48	4126	13	D	1b	1					
	ONDREJOV	26	0935	E	0939	D		N25	E67	4124	4	D	1b	1					
	CAPRI S	26	1115	E	1123			S30	E63	4125	8	D	1	2 1119	1.00	2.80			
	ONDREJOV	26	1234	E	1240	D	1236	S31	E64	4125	6	D	1	3 1236			3.10		
*	ZURICH	26	1454		1502			N14	E36	4122	8		1	3 1454		3.00			
*	OTTAWA	26	1806		1831		1810	N26	E65	4124	25		1	2 1810	.93	2.26			G-SWF
	HUANCAYO	26	2110		2145	D	2115	S25	E06	4117	35	D	1	2					
	SAC PEAK	26	2110		2150		2132	S26	W02	4117	40		1	3		4.60		15	
*	HAWAII	26	2124		2246		2134	S36	E48	4125	22		1	1		1.70	3.10		
*	OTTAWA	27	1338		1353		1340	S29	E50	4125	15		1	1 1340	1.04	2.13			
	SAC PEAK	27	1712		1750		1720	S30	E49	4125	38		1	2		2.60		16	
	MITAKA	27	2317		2329			S29	E38	4125	12		1	2 2319	.41	.64	1.98	107	
*	MITAKA	27	2333		2350		2335	S26	E39	4125	17		1	2 2335	1.07	1.73	1.77	134	
	SAC PEAK	27	2347		2405	D	2352	N24	W85	4112	18	D	2	2		6.10		18	S-SWF
	MITAKA	27	2353	E	2359			N22	E44	4124	6	D	1	2 2356	.89	1.33	1.75	107	S-SWF
*	MITAKA	28	0122		0154	D	0135	S26	E38	4125	32	D	2	1 0140	4.70	7.61	1.90	165	S-SWF
	MITAKA	28	0425		0455		0425	S26	E36	4125	30		1	2 0425	2.78	4.50	2.32	115	
	MITAKA	28	0428		0435			S28	E36	4125	7		1	2 0428	.89	1.44	2.08	118	
	MITAKA	28	0432		0455		0432	S30	E41	4125	23		1	2 0439	1.84	3.27	1.92	131	G-SWF
	MITAKA	28	0433		0458		0438	S31	E40	4125	25		1	2 0438	1.84	3.27	2.75	143	
	MITAKA	28	0434		0439			S33	E40	4125	5		1	2 0435	.89	1.58	1.92	98	
	MITAKA	28	0451	E	0516		0451	N22	E48	4124	25	D	1	2 0504	.89	1.47	1.98	131	
	MITAKA	28	0452	E	0513		0452	N25	E49	4124	21	D	1	2 0452	.89	1.47	1.87	146	
	MITAKA	28	0502		0514			S32	E42	4125	12		1	2 0502	.89	1.58	1.70	100	
	MITAKA	28	0503		0514			S28	E39	4125	11		1	2 0503	.89	1.58	1.52	98	
	SIMEIZ	28	0706		0735			S26	E38	4125	29		1b						
*	CAPRI S	28	0707		0730			S25	E34	4125	23		1	3 0719	1.40	2.00			
	MITAKA	28	0711		0728	D	0717	S26	E35	4125	17	D	2	1 0718	3.80	6.15	2.46	176	S-SWF
	SIMEIZ	28	0810		0839			S30	E32	4125	29		3						
	CAPRI S	28	0841	E	1353		1002	S30	E26	4125	312	D	3	3 1012	16.00	21.00			
	R O HERST	28	0913		1215		0955	U S30	E35	4125	182		3b	2 0949	17.00	25.00	3.60	170	
	STOCKHOLM	28	0931	E				S30	E32	4125			3b						S-SWF
	NEDERHORST	28	0950	E	1012			S30	E32	4125	22		3						
	USNRL	28	1145		1404		1147	S35	E30	4125	19		2	2 1147	3.39	5.37		95	
	CAPRI S	28	1545		1646	D		S29	E35	4125	61	D	2	1 1631	4.00	5.60			
	USNRL	28	1546		1637		1602	S30	E36	4125	51		1	2 1602	1.24	1.90		103	
*	HUANCAYO	28	1547		1659	D	1601	S31	E39	4125	12	D	1b	2					
	MT WILSON	28	1610		1645			S31	E38	4125	35		2						S-SWF
	ARCETRI	28	1625	E				S30	E35	4125			2b	2					
	ARCETRI	28	1630		1640			S30	E35	4125	10		1	2					
	ARCETRI	28	1635		1655			S30	E35	4125	20		1	2					
*	MT WILSON	28	1848		1858			S13	W12	4121	10		1						
*	MT WILSON	28	1903		1930			N26	E41	4124	27		1						Slow S-SWF
*	MT WILSON	28	1915		1940			S28	E28	4125	25		1						
	SAC PEAK	28	2010		2042		2020	S27	E28	4125	32		2b	2	11.20			28	
	HUANCAYO	28	2015		2039	D	2020	S28	E33	4125	24	D	2	2					S-SWF
	HAWAII	28	2032	E	2038		2032	S27	E31	4125	6	D	1	1	1.80	2.30			
	SAC PEAK	28	2255		2405	D	2302	S32	E32	4125	10	D	1	2	2.90			18	
	MT WILSON	28	2258					S28	E32	4125			1b						
	HAWAII	28	2302	E	2310	D	2308	S32	E30	4125	8	D	1	1	2.10	2.20			
	MITAKA	29	0545	E	0615		0547	N25	E33	4124	30	D	2b	1 0547	7.42	9.65	3.43	204	
	TASHKENT	29	0550	E	0614		0555	N26	E33	4124	24	D	1b						
	ATHENS	29	0552	E	0715			N25	E34	4124	83	D	1b	4	3.10	3.90			S-SWF
	CAPRI S	29	0600	E	0648	D		N25	E34	4124	48	D	1	2 0626	1.80	2.30			
	MITAKA	29	0636	E	0646			S34	W30	4117	10	D	1	1 0637	1.84	2.76	2.47	96	
	MITAKA	29	0642	E	0655	D		N27	E38	4124	13	D	1	1 0642	.89	1.21	2.17	100	
	SIMEIZ	29	0652	E				N23	E37	4124			1						
*	MITAKA	29	0701	E	0726	D		N21	E31	4124	25	D	1	1 0714	1.84	2.30	1.68	115	
*	ONDREJOV	29	0752	E	0816	D		N23	E35	4124	24	D	1	1					
	UCCLE	29	0835		0853		0841	N23	E30	4124	18		1	2 0841	3.20	4.00			
	ARCETRI	29	0845		0915			N20	E37	4124	30		2	1					
	ARCETRI	29	0945		1030			N23	E37	4124	45		2	1					
*	CAPRI S	29	0947		1035	D		N23	E39	4124	48	D	1	2 0950	2.00	2.80			
	ZURICH	29	0949	E	1027			N21	E36	4124	38	D	2	3 0953		10.00			
*	UCCLE	29	1018		1023		1019	S33	E19	4125	5		1	2 1019	3.20	4.50			
	ZURICH	29	1021		1027			S30	E20	4125	6		1	3 1021		2.00			
	UCCLE	29	1031		1049		1037	S20	E22	4125	18		2b	2 1037	4.40	5.60			
	ARCETRI	29	1037	E	1052	D		S24	E22	4125	15		3	1					
	CAPRI S	29	1038	E	1053			S25	E14	4125	15	D	1b	3 1040	2.50	3.00			S-SWF
	ONDREJOV	29	1044	E	1052			S25	E24	4125	8	D	1b	2 1045			3.70		
	CAPRI S	29	1221		1252	D		S31	E20	4125	31	D	1	2 1229	1.80	2.20			

SOLAR FLARES
AUGUST 1957

Observatory	Date Aug 1957	Time Observed Start UT	Time Observed End UT	Time Max. Phase UT	Approx. Position Lat. Mer. Dist.	McMath Plage Region Number	Duration Min.	Importance	Obs. Time Cond. of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width Hα	Max. Int. %	Provis. Ionospheric Effect
* ONDREJOV	29	1228 E	1236		S31 E27	4125	8 D	1	1 1234			1.90		
ZURICH	29	1229 E	1245		S32 E21	4125	16 D	1	3 1231		7.00			
ONDREJOV	29	1333 E	1340		S36 E18	4125	7 D	2	2 1335			3.30		
CAPRI S	29	1335	1340 D		S29 E11	4125	5 D	1	3 1337	1.70	2.00			
* ZURICH	29	1351 E	1359		N22 E30	4124	8 D	1	3 1351		3.00			
* USNRL	29	1559	1608	1600	S26 E17	4125	9	1	2 1600	1.24	1.75		128	
HUANCAYO	29	1559	1609	1600	S26 E16	4125	10	1	2					Slow S-SWF
* OTTAWA	29	1652	1738	1708	S25 E18	4125	46	1	1 1708	1.97	2.47			
USNRL	29	1950	2031	1959	N27 E29	4124	41	1	2 1959	1.12	1.47		112	
* MC MATH	29	2110 E	2123 D		N24 E26	4124	13 D	1&						
SAC PEAK	29	2110 E	2135 D	2110 E	N25 E27	4124	25 D	1&	1	4.00			28	Slow S-SWF
MITAKA	30	0340 E	0410	0349	S26 E14	4125	30 D	1&	1 0348	4.09	4.96	2.95	200	
NIZAMIAH	30	0348 E	0408		S27 E15	4125	20 D	1	2 0348	1.82	2.29	1.60		S-SWF
MITAKA	30	0356	0426 D		N23 E20	4124	30 D	1	1 0400	.89	1.00	2.43	96	
CAPRI S	30	0620	0706		N25 E22	4124	46	2	3 0642	5.00	6.00			
ATHENS	30	0622	0655		N26 E21	4124	33	1	4	1.90	2.10			S-SWF
ONDREJOV	30	0624 E	0642 D		N27 E22	4124	18 D	2	3 0624			3.00		
UCCLE	30	0914	0927	0918	N23 E24	4124	13	1	2 0918	2.00	2.10			
UCCLE	30	0926	0945	0938	S26 E08	4125	19	1	2 0938	2.00	2.20			
UCCLE	30	0944	0946	0945	N22 E13	4124	2	1	3 0945	2.00	2.10			
ZURICH	30	0953	1009	0954	S30 E11	4125	16	1	3 0954		5.00			
CAPRI S	30	0954	1010 D		S25 E10	4125	16 D	1	3 1002	2.00	2.20			
UCCLE	30	0954	1011	0958	S26 E08	4125	17	1	3 0958	2.00	2.20			
* UCCLE	30	1104	1118 D	1110	S25 E08	4125	14 D	1	3 1110	2.00	2.20			
CAPRI S	30	1150	1259 D		S35 E01	4125	69 D	1	3 1231	2.00	2.60			
UCCLE	30	1158	1202 D	1202	N25 E21	4124	4 D	1	3 1202	3.00	3.00			
ONDREJOV	30	1309 E	1316 D	1312	N14 E13	4124	7 D	1	3 1312			2.60		
ZURICH	30	1337	1352	1342	N25 E18	4124	15	1	3 1342		6.00			
ZURICH	30	1337	1401	1341	N13 E11	4124	24	1	3 1341		4.00			
USNRL	30	1338	1414	1342	N12 E12	4124	36	1&	2 1342	2.26	2.30		164	Slow S-SWF
CAPRI S	30	1338	1414		N14 E10	4124	36	1	3 1342	2.00	2.10			
ONDREJOV	30	1339	1401 D	1343	N15 E15	4124	22 D	2&	2 1343			4.40		
R O HERST	30	1341	1400	1345	N13 E11	4124	19	1	2 1345	1.00	1.00	2.80	84	
MT WILSON	30	1513			N15 E05	4124		1						
OTTAWA	30	1512			N13 E11	4124		1	1 1516	2.26	2.33			
* SAC PEAK	30	1515	1550	1517	N12 E13	4124	35	1	1	3.10			15	
WENDEL	30	1516 E			N13 E15	4124		1			5.00			
ZURICH	30	1518 E	1531 D		N11 E12	4124	13 D	1	2 1518		5.00			
MT WILSON	30	1626	1640		N15 E05	4124	14	1						
* MT WILSON	30	1640	1650		N25 E12	4124	10	1						
WENDEL	30	1640	1720		S32 E09	4125	40	2			9.00			
SAC PEAK	30	1640	1725 D	1648 F	S32 E08	4125	45 D	2-	1	5.30			24	
OTTAWA	30	1640	1742	1647	S31 E12	4125	62	1&	1 1647	3.07	4.02			Slow S-SWF
USNRL	30	1641	1729	1647	S30 E08	4125	48	1	2 1647	2.02	2.84		106	
HUANCAYO	30	1642 E	1650 D	1642	S31 E09	4125	8 D	1&	3					
MT WILSON	30	1642	1730		S33 E10	4125	48	1&						
* WENDEL	30	1708	1723		S24 W54	4117	15	1			3.00			
* MT WILSON	30	1709	1718		N25 E18	4124	9	1						
MT WILSON	30	1714	1724		S14 W68	4116	10	1						
OTTAWA	30	1714 E	1725		S26 W54	4117	11 D	1	1 1714	.99	2.13			
* MT WILSON	30	1731	1733		S27 E03	4125	2	1						
USNRL	30	1927	2005	1931	N27 E15	4124	38	1	2 1931	2.60	2.90		112	
SAC PEAK	30	1934 E	1950	1934 F	N18 E14	4124	16 D	2	1	8.20			24	S-SWF
MITAKA	31	0025 E	0037 D		N15 W02	4124	12 D	1	2 0025	1.84	1.88	1.70	113	S-SWF
MITAKA	31	0214	0221 D		N13 E05	4124	7 D	1	3 0214	1.34	1.35	2.03	102	
MITAKA	31	0215	0224		N12 E05	4124	9	1	3 0215	.89	.90	1.81	98	
MITAKA	31	0231 E	0238		N25 E16	4124	7 D	1	3 0231	.89	.97	1.81	105	
MITAKA	31	0244	0307	0250	N13 E04	4124	23	1&	3 0250	5.67	5.76	2.62	122	
MITAKA	31	0244	0312	0253	N13 E05	4124	28	2	3 0253	7.57	7.65	3.11	169	Slow S-SWF
NIZAMIAH	31	0252 E	0312		N15 E04	4124	20 D	1	2 0252	3.04	3.08	2.10		
MITAKA	31	0422 E	0432		S25 W48	4117	10 D	1	3 0422	3.80	6.17		85	
MITAKA	31	0448 E	0457 D		N24 W02	4124	9 D	1	2 0454	.89	.93	1.60	107	
* NIZAMIAH	31	0548	0556 D	0551	N15 E04	4124	8 D	1	2 0551	2.43	2.46	1.60		
MITAKA	31	0552 E	0612	0552	N12 E03	4124	20 D	2	1 0552	7.57	7.65	1.63	159	S-SWF
* MITAKA	31	0622 E	0719	0626	S31 W08	4125	57 D	1&	1 0622	7.57	9.46	2.66	134	
NIZAMIAH	31	0627 E	0653 D		S30 E00	4125	26 D	2	2 0627	6.08	7.66	2.00		S-SWF
CAPRI S	31	0815 E	1019 D		S32 E00	4125	124 D	1	1 0841	4.00	4.80			G-SWF
CAPRI S	31	0943 E	1019 D		S27 W48	4117	36 D	1	2 1012	1.50	2.50			
* ZURICH	31	0952	1008 D	0955	N13 E01	4124	16 D	1	3 0955		4.00			
WENDEL	31	0958	1013		S14 E01	4126	15	1			4.00			
ZURICH	31	1004	1008		N23 E09	4124	4		3 1004		1.00			
WENDEL	31	1030	1046		N12 W47	4122	16	1			4.00			
CAPRI S	31	1035 E	1102 D		N12 W02	4124	27 D	1	1 1047	1.80	1.80			

Observatory	Date Aug. 1957	Time Observed Start UT	Time Observed End UT	Time Max. Phase UT	Approx. Position Lat.	Mer. Dist.	McMath Plage Region Number	Duration Min.	Importance	Obs. Time Cond. of Meas. UT	Meas. Max. Area Sq.Deg.	Corr. Max. Area Sq.Deg.	Max. Width Hα	Max. Int. %	Provis. Ionospheric Effect
OTTAWA	31	1236	1345	1246	S31	W09	4125	9	1	1 1246	2.55	3.34			
USNRL	31	1240	1322	1246	S30	W10	4125	42	1	3 1246	1.47	2.06		86	G-SWF
USNRL	31	1257	1414	1313	N25	W03	4124	77	2b	3 1313	7.25	7.68		197	
OTTAWA	31	1259			N26	W03	4124		3	1 1321	11.43	12.14			
ONDREJOV	31	1321 E	1412 D		N24	W02	4124	51 D	3	2 1330			4.10		
CAPRI S	31	1322 E	1557		N22	E00	4124	155 D	3	1 1402	12.00	13.20			S-SWF
USNRL	31	1338	1414	1351	N11	W02	4124	36	2b	3 1351	5.08	5.15		230	
OTTAWA	31	1338	1420	1354	N12	W02	4124	42	1	1 1354	4.06	4.11			
ONDREJOV	31	1340	1402 D		N12	W02	4124	22 D	2b	2 1357			3.30		
NEDERHORST	31	1350 E	1405		N14	W05	4124	15	2b						
MT WILSON	31	1539	1553		S25	E04	4125	14	2						
MT WILSON	31	2035	2051		N14	W11	4124	16	2						Slow S-SWF

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

ATHENS	01	0604	N33 W05
CAPRI S	01	0606E	N34 W04
CAPRI S	01	0735E	N10 W88
UCCLE	01	0808E	N35 W03
UCCLE	01	0808	S27 E08
WENDEL	01	0940E	N13 W85
R O HERST	01	1018E	S30 E07
OTTAWA	01	1108	S30 E05
OTTAWA	01	1114	N36 W04
OTTAWA	01	1129	N33 W08
USNRL	01	1130	N35 W09
UCCLE	01	1135	N26 E46
SAC PEAK	01	1307	N13 W89
USNRL	01	1313	N14 W90
SAC PEAK	01	1317	N13 W89
OTTAWA	01	1355	N33 W06
OTTAWA	01	1404	N27 E43
SAC PEAK	01	1430	N26 E44
UCCLE	01	1433	N27 E45
OTTAWA	01	1452	N27 E43
SAC PEAK	01	1452	N26 E44
SAC PEAK	01	1527	N26 E44
UCCLE	01	1605	N33 W08
UCCLE	01	1652	N27 W45
USNRL	01	1744	N26 E42
SAC PEAK	01	2047	N14 W
UCCLE	02	0858E	N34 W18
UCCLE	02	0859E	S24 W16
UCCLE	02	0927	S32 W06
ONDREJOV	02	0929E	N10 E58
UCCLE	02	0952	S31 W07
ONDREJOV	02	1006E	S32 W02
UCCLE	02	1111	S21 W22
UCCLE	02	1200	N08 E58
UCCLE	02	1201	N25 E33
OTTAWA	02	1203E	N27 E32
USNRL	02	1205E	N25 E32
OTTAWA	02	1212	S32 W01
OTTAWA	02	1250E	N25 W34
SAC PEAK	02	1325	S32 W02
OTTAWA	02	1326	S32 W01
USNRL	02	1326	S32 W04
R O EDIN	02	1327	S33 E00
USNRL	02	1329	N34 W22
SAC PEAK	02	1355	N09 E60
MC MATH	02	1405E	N30 W20
UCCLE	02	1418	N08 E60
USNRL	02	1436	N25 E31
SAC PEAK	02	1440E	N26 E31
WENDEL	02	1440E	N26 E31
ONDREJOV	02	1523E	N10 E53
SAC PEAK	02	1527	S33 W04
USNRL	02	1529	S32 W05
OTTAWA	02	1530	S32 W03
MC MATH	02	1647E	N30 W20
MC MATH	02	1813E	N08 E60
USNRL	02	1850	S32 W08
MC MATH	02	1920E	S29 W15
HAWAII	02	2228	N15 E55
HAWAII	03		N10 E42
ONDREJOV	03	0459E	N27 E10
UCCLE	03	0608E	S16 W05
UCCLE	03	0616E	S31 W13
UCCLE	03	0633	S31 W13
UCCLE	03	0646	S16 E75
CAPRI S	03	0821	S29 W15
UCCLE	03	0838	N29 E13
UCCLE	03	0843	N26 E12
CAPRI S	03	1002E	S27 W30
UCCLE	03	1007	N29 E13
UCCLE	03	1140E	N27 E07
MC MATH	03	1144E	N26 E16
UCCLE	03	1200	S12 W26
MC MATH	03	1200E	S16 W11
MC MATH	03	1213E	S29 W15
USNRL	03	1213E	S16 W15
USNRL	03	1257	N27 E05
OTTAWA	03	1258	N27 E04
USNRL	03	1311	N29 E12
SAC PEAK	03	1312	N29 E12
OTTAWA	03	1315	N29 E16
MC MATH	03	1317E	N26 E13
UCCLE	03	1338	N09 E45
UCCLE	03	1354E	S30 W20
OTTAWA	03	1354	S30 W18
USNRL	03	1429	S31 W20
UCCLE	03	1430	S31 W20
SAC PEAK	03	1430	S33 W18
CAPRI S	03	1432E	S31 W18
MC MATH	03	1434E	S29 W15
UCCLE	03	1435	N08 E47
UCCLE	03	1435E	S33 W16
UCCLE	03	1435	N35 W35
UCCLE	03	1453	N26 E19
SAC PEAK	03	1600	S30 W38
UCCLE	03	1603	S29 W39
SAC PEAK	03	1635	N27 E04
UCCLE	03	1717E	S34 W16
SAC PEAK	03	1732	S30 W20
UCCLE	03	1737	N34 W38
SAC PEAK	03	1840	S34 W20
SAC PEAK	03	1952E	N28 E04
ATHENS	04	0734E	N25 E36
UCCLE	04	0904	N07 E35
CAPRI S	04	1024	N23 E09
OTTAWA	04	1123	N26 E00
OTTAWA	04	1405	N33 W45
MC MATH	04	1413E	N33 W45
HAWAII	04	2316	N19 W39
UCCLE	05	0804	S27 W58
UCCLE	05	1037	S27 W50
UCCLE	05	1125	S11 E80
CAPRI S	05	1258E	N27 W20
MC MATH	05	1400E	N27 W05
SAC PEAK	05	1445	S26 W62
UCCLE	05	1446	S28 W60
OTTAWA	05	1451E	S27 W59
SAC PEAK	05	1615	S28 W63
USNRL	05	1616	S27 W64
SAC PEAK	05	1856	S26 W62
HAWAII	05	1900	N25 W10
ATHENS	06	0605	S29 W60
ATHENS	06	0611	S10 E06
ATHENS	06	0655	N21 W19
CAPRI S	06	0655	N23 W17
MC MATH	06	1143E	S34 E65
USNRL	06	1200	S28 W55
USNRL	06	1213	S28 W55
USNRL	06	1223	S28 W55
USNRL	06	1253	N28 W32
OTTAWA	06	1254E	N26 W33
USNRL	06	1311	N16 W19
SAC PEAK	06	1352	S38 E79
USNRL	06	1355	S39 E68
SAC PEAK	06	1550	S30 W57
USNRL	06	1820	S39 E68
SAC PEAK	06	1910	S30 W57
SAC PEAK	06	1942E	S16 E05
SAC PEAK	06	2033	S31 W65
ATHENS	07	0657	N27 W34
ATHENS	07	0657	N26 W37
ATHENS	07	0657	N29 W41
WENDEL	07	0659E	N30 W39
ATHENS	07	0704	N26 W44
OTTAWA	07	1108	N13 W03
OTTAWA	07	1134	S14 E54
USNRL	07	1135	N26 W40
CAPRI S	07	1135	N25 W41
OTTAWA	07	1152	N25 W43
USNRL	07	1153	N25 W45
UCCLE	07	1154	N26 W44
OTTAWA	07	1211	N25 W44
USNRL	07	1337	N14 W06
SAC PEAK	07	1400	N26 W47
USNRL	07	1542	S18 E54
USNRL	07	1601	N27 W47
USNRL	07	1612	N28 W45
SAC PEAK	07	1622E	N26 W47
SAC PEAK	07	1747	N27 W42
USNRL	07	1803	N27 W39
MC MATH	07	1805E	N26 W40
CAPRI S	08	0804	S14 E38
UCCLE	08	0813	S23 E20
UCCLE	08	0831	N27 W55
UCCLE	08	0832	S27 W88
CAPRI S	08	1318	N25 W62
SAC PEAK	08	1320	N25 W58
MC MATH	08	1844E	S20 E15
ATHENS	09	0644	S10 E79
WENDEL	09	0921E	N27 W75
WENDEL	09	1115E	N27 W76
SAC PEAK	09	1607	S35 E33
SAC PEAK	09	2007	S12 E16
SAC PEAK	09	2140	S09 E68
SAC PEAK	09	2200	N06 E55
SAC PEAK	09	2237	N24 W77
HAWAII	10	0014	S08 E01
OTTAWA	10	1205	S09 E61
HUANCAYO	10	1655	S13 E06
SAC PEAK	10	1655E	S12 E05
MC MATH	10	1923E	S20 W12
CAPRI S	11	1122	N24 W90
SAC PEAK	11	1400	N15 E40
OTTAWA	11	1406E	N17 E30
HAWAII	11	1840	S10 E38
SAC PEAK	11	1848E	S12 E39
HAWAII	11	2014	S12 E45
HAWAII	11	2330	N15 E15
HAWAII	11	2336	N17 E27
HAWAII	12	0040	N16 E15
HAWAII	12	0138	S20 W23
HAWAII	12	0154	N14 E13
ATHENS	12	0607	N15 E11
CAPRI S	12	0702E	N08 W69
UCCLE	12	0728	S20 W28
UCCLE	12	0753	S30 W19
UCCLE	12	0808	N15 E12
ONDREJOV	12	1032E	
OTTAWA	12	1129	S10 E29
CAPRI S	12	1133E	S12 E31
OTTAWA	12	1233	N15 E27
USNRL	12	1233	N14 E28
USNRL	12	1241E	N13 E31
MC MATH	12	1255E	N14 E28
USNRL	12	1258	S32 E15
SAC PEAK	12	1305E	N15 E28
SAC PEAK	12	1337	S12 E26
SAC PEAK	12	1455	N13 E26
R O HERST	12	1529E	N15 E26
SAC PEAK	12	1647	N15 E22
SAC PEAK	12	1702	S36 E87
SAC PEAK	12	1825	S12 E26
SAC PEAK	12	2300	S21 W36
HAWAII	13	0116E	N14 E12

SOLAR FLARES

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

CAPRI S	13	1017	N17 E06
OTTAWA	13	1141	S20 W47
USNRL	13	1357	N17 E03
SAC PEAK	13	1455	S41 E89
SAC PEAK	13	1557	N15 E04
SAC PEAK	13	1845	N15 E05
ATHENS	14	0554	S19 W65
ATHENS	14	0610	N15 W06
UCCLE	14	0819	N17 W08
UCCLE	14	1015E	N16 W18
UCCLE	14	1040E	S31 W10
CAPRI S	14	1045	S28 W13
CAPRI S	14	1202	N15 W10
USNRL	14	1216	N16 W09
SAC PEAK	14	1450	S33 E56
SAC PEAK	14	1500	S27 E68
SAC PEAK	14	1502	N16 W08
USNRL	14	1648	N18 W10
USNRL	14	1727	S44 W33
HUANCAYO	14	1924E	N13 W06
USNRL	14	1942	N15 W10
ATHENS	15	0610	N15 W15
ATHENS	16	0609	N17 W35
ATHENS	16	0700	S16 W60
OTTAWA	16	1313	S16 W60
CAPRI S	16	1317	S13 W65
OTTAWA	16	1343	N21 E72
OTTAWA	16	1405	S15 W62
HUANCAYO	16	1557E	S17 W60
SAC PEAK	16	1635	S17 W64
USNRL	16	1705	N20 E72
USNRL	16	1810	S19 W67
SAC PEAK	16	1812E	S17 W64
OTTAWA	17	1220	S20 E05
OTTAWA	17	1238	S17 E58
WENDEL	17	1434E	N17 E62
SAC PEAK	17	1719E	N18 E56
HAWAII	17	1930	N19 E55
MC MATH	17	1932E	N14 E60
HAWAII	17	2134	S21 E03
HAWAII	18	0136	S22 E13
USNRL	18	1205	S11 W90
USNRL	18	1251	S17 W90
USNRL	18	1309	S17 W90
USNRL	18	1322	S20 W08
OTTAWA	18	1338	N17 E45
USNRL	18	1342	S17 W90
CAPRI S	18	1448	N18 E44
OTTAWA	18	1502E	N23 E46
CAPRI S	18	1555	N20 E63
HAWAII	18	2246	S27 E04
HAWAII	18	2304E	S24 W08
UCCLE	19	1037	N13 E28
UCCLE	19	1038	N22 W56
UCCLE	19	1044	N30 E34
UCCLE	19	1044	N32 E37
UCCLE	19	1101	S21 W20
UCCLE	19	1102	S32 W11
UCCLE	19	1134E	N22 W56
SAC PEAK	19	1542	S21 W09
HUANCAYO	19	1926E	N20 E31
HUANCAYO	19	2024	S23 W06
WENDEL	20	1449E	N15 E21
WENDEL	20	1513E	N22 E27
SAC PEAK	20	1642E	N13 E12
USNRL	20	1648E	N13 E12
USNRL	21	1155E	N24 W52
SAC PEAK	21	1252E	N23 E11
SAC PEAK	21	1252E	S34 W16
SAC PEAK	21	1252E	N28 W41
SAC PEAK	21	1417	S28 E80
SAC PEAK	21	1709E	N15 E07
SAC PEAK	21	1710E	S33 W18
SAC PEAK	21	2211E	N12 E73
ATHENS	22	0652	N21 E01
UCCLE	22	0838	N22 E02
UCCLE	22	0852	N13 W04
UCCLE	22	0924	N22 E02
UCCLE	22	0943	S26 E68
CAPRI S	22	1412E	S27 E62
USNRL	22	1545	S44 W36
ATHENS	23	0616	N08 W10
ATHENS	23	0624	N08 W13
ATHENS	23	0752	N09 W11
UCCLE	23	0853	N19 W12
UCCLE	23	0926	S28 W44
OTTAWA	23	1137	N17 W13
WENDEL	23	1140E	N18 W14
OTTAWA	23	1307E	N18 W14
OTTAWA	23	1329	N17 W18
USNRL	23	1330	N18 W19
SAC PEAK	23	1330	N17 W19
ONDREJOV	23	1331	N16 W17
USNRL	23	1339	N19 W14
OTTAWA	23	1339	N19 W13
OTTAWA	23	1402	N19 W14
CAPRI S	23	1404E	N19 W14
USNRL	23	1404	N19 W14
MC MATH	23	1404E	N15 W19
WENDEL	23	1405E	N21 W13
SAC PEAK	23	1405E	N19 W13
USNRL	23	1604	S14 E60
SAC PEAK	23	1607E	S15 E62
MC MATH	23	1608E	S14 E65
SAC PEAK	23	1722	N19 W15
USNRL	23	1723	N20 W17
MC MATH	23	1724E	N15 W20
HAWAII	23	1850	N18 W15
HAWAII	23	1858	N18 W15
CLIMAX	23	1858	N20 W12
USNRL	23	1858	N19 W18
USNRL	23	1918	N21 W20
HAWAII	23	1922	N22 W19
SAC PEAK	23	1926E	N22 W19
SAC PEAK	23	2102F	N19 W19
HAWAII	23	2104	N19 W19
HAWAII	23	2312	N20 W19
ATHENS	24	0538E	N09 E56
ATHENS	24	0614E	S23 W68
ATHENS	24	0633	N19 W22
ONDREJOV	24	0653E	N15 W28
UCCLE	24	0822	N26 W16
UCCLE	24	0833	N20 W24
UCCLE	24	0848	N23 W28
UCCLE	24	0959	S28 E35
UCCLE	24	1000	S16 E51
UCCLE	24	1044	S20 W25
UCCLE	24	1102	S16 E51
UCCLE	24	1107	N24 W26
UCCLE	24	1112	N22 W30
UCCLE	24	1115	N35 W63
UCCLE	24	1139	N24 W26
SAC PEAK	24	1259	N19 W26
UCCLE	24	1302	N20 W26
USNRL	24	1330	N20 W18
UCCLE	24	1337	N20 W26
SAC PEAK	24	1340	N20 W27
UCCLE	24	1505	N10 E65
UCCLE	24	1519	S25 E28
SAC PEAK	24	1637	N11 E60
SAC PEAK	24	1715	N19 W29
SAC PEAK	24	1820	S33 E82
CLIMAX	24	1918	N18 W27
SAC PEAK	24	1920	N18 W29
ATHENS	25	0553E	N10 E50
WENDEL	25	1007E	N14 W21
UCCLE	25	1144	N10 E52
UCCLE	25	1145	S33 E80
ONDREJOV	25	1147E	S30 E71
UCCLE	25	1306	S33 E80
UCCLE	25	1309	S15 E35
UCCLE	25	1338	S26 E12
UCCLE	25	1351	S27 E21
SAC PEAK	25	1355E	N24 E
SAC PEAK	25	1452	N22 W40
SAC PEAK	25	1605F	N10 E48
SAC PEAK	25	2100	S33 E70
SAC PEAK	25	2137	S30 E70
SAC PEAK	25	2317	N24 E76
ATHENS	26	0654	S30 E49
ATHENS	26	0703	N24 E72
ATHENS	26	0722	N11 E38
WENDEL	26	1124E	N29 W48
USNRL	26	1321	N10 E37
SAC PEAK	26	1405	S30 E67
SAC PEAK	26	1452	N14 E37
SAC PEAK	26	1455	N23 E88
SAC PEAK	26	1642	N11 E34
SAC PEAK	26	1805	N25 E68
SAC PEAK	26	2122	S36 E46
MC MATH	26	2132E	S E
SAC PEAK	26	2142	N10 E37
HAWAII	26	2246	N17 E33
SAC PEAK	26	2307	N23 E88
ATHENS	27	0631	S32 E47
CAPRI S	27	1049E	N27 E53
USNRL	27	1303	S30 E37
SAC PEAK	27	1311E	S32 E41
SAC PEAK	27	1327	N22 E60
OTTAWA	27	1331	N23 E58
SAC PEAK	27	1337	S31 E50
SAC PEAK	27	1355E	S26 W05
OTTAWA	27	1404	N11 E18
SAC PEAK	27	1405	N10 E22
USNRL	27	1408	N10 E19
SAC PEAK	27	1500	N21 E54
SAC PEAK	27	1630	N25 E58
SAC PEAK	27	1817	N26 E51
SAC PEAK	27	1832	N10 E21
SAC PEAK	27	1832	S33 E38
SAC PEAK	27	1902	N10 E21
SAC PEAK	27	1950	S27 E43
SAC PEAK	27	2047E	S29 E46
SAC PEAK	27	2255	S18 E90
SAC PEAK	27	2330	N09 E13
SAC PEAK	27	2330	N24 E52
SAC PEAK	27	2330	S27 E40
HAWAII	28	0128	S29 E38
ATHENS	28	0707	S27 E36
CAPRI S	28	0748E	N25 E49
CAPRI S	28	0823	N16 E46
CAPRI S	28	1058E	S25 W15
CAPRI S	28	1451E	S29 E35
HUANCAYO	28	1525E	S27 E34
SAC PEAK	28	1602E	S30 E36
USNRL	28	1640	S32 E34
USNRL	28	1846	S14 W09
USNRL	28	1906	N24 E38
USNRL	28	1924	S26 E32
HAWAII	28	1928E	S27 E31

SOLAR FLARES

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

SAC PEAK	28	1930E	S26	E29
SAC PEAK	28	1930F	N24	E31
SAC PEAK	28	2007	N19	E44
SAC PEAK	28	2245	S34	E32
ATHENS	29	0632	S33	E24
ATHENS	29	0632	N11	W02
CAPRI S	29	0711E	N26	E36
ATHENS	29	0753	N18	E37
UCCLE	29	0943	N21	E37
UCCLE	29	1014	N14	W04
CAPRI S	29	1020	S31	E18
ONDREJOV	29	1021	N32	E23
UCCLE	29	1114	S32	E22
UCCLE	29	1121	N23	E26
USNRL	29	1219	S32	E22
CAPRI S	29	1408	N19	E34
SAC PEAK	29	1408E	N20	E34
USNRL	29	1408	N21	E34
OTTAWA	29	1525	S34	E14
CAPRI S	29	1600E	S28	E10
SAC PEAK	29	1601E	S29	E15
SAC PEAK	29	1627	S27	E17
SAC PEAK	29	1645	N23	W90
SAC PEAK	29	1652	S26	E17
OTTAWA	29	1718	S25	E15
SAC PEAK	29	1730	S15	W22
USNRL	29	1732	S16	W22
OTTAWA	29	1733	S14	W21
SAC PEAK	29	1852	S32	E22
USNRL	29	1852	S31	E18
SAC PEAK	29	1918E	N13	E15
SAC PEAK	29	2013E	N25	E30
HAWAII	29	2111E	N23	E26
SAC PEAK	29	2115	S14	W24
HAWAII	30	0002	S34	E07
ATHENS	30	0621	N22	E19
ATHENS	30	0634	N24	E20
ATHENS	30	0634	N23	E23
UCCLE	30	0855	S28	E04
UCCLE	30	0927	N13	E13
UCCLE	30	1022	S32	E12
CAPRI S	30	1103E	S24	E07
USNRL	30	1311	S30	E08
USNRL	30	1338	N26	E18
CAPRI S	30	1350	S27	E11
USNRL	30	1351	S30	E12
SAC PEAK	30	1400E	N13	E09
CAPRI S	30	1436	N22	E11
USNRL	30	1436	N22	E10
USNRL	30	1440	N26	E18
WENDEL	30	1506E	N14	E03
CAPRI S	30	1515	N12	E11
USNRL	30	1516	N12	E13
OTTAWA	30	1618	S28	E03
OTTAWA	30	1634	N23	E07
SAC PEAK	30	1635	N19	E06
HUANCAYO	30	1637	N23	E09
USNRL	30	1637	N22	E08
OTTAWA	30	1642	S30	E04
OTTAWA	30	1648E	N24	E06
OTTAWA	30	1702E	N27	E13
SAC PEAK	30	1705	S26	W55
SAC PEAK	30	1707	N23	E17
USNRL	30	1709	N22	E15
WENDEL	30	1713E	N24	E17
OTTAWA	30	1714E	N24	E16
OTTAWA	30	1732E	S26	E02
OTTAWA	30	1741E	S25	E04
WENDEL	30	1744E	N26	E33
USNRL	30	1931	N11	E11
SAC PEAK	30	1934E	N13	E08
ATHENS	31	0549E	N12	E03
ATHENS	31	0601	S25	W49
ATHENS	31	0601	S30	E02
ATHENS	31	0620	N12	E03
ATHENS	31	0625	S28	W05
ATHENS	31	0633	N12	W30
CAPRI S	31	0959E	N15	W01
WENDEL	31	1015E	S19	E10
WENDEL	31	1019E	N27	W04
OTTAWA	31	1207E	S30	W08
OTTAWA	31	1211E	N25	E06
OTTAWA	31	1219E	N12	W00
OTTAWA	31	1220	N27	E04
OTTAWA	31	1227	N16	E07
OTTAWA	31	1251	S27	W53
OTTAWA	31	1257	N25	E07
OTTAWA	31	1304	N18	W09
SAC PEAK	31	1516E	N26	W03
SAC PEAK	31	1522	S25	W61
HUANCAYO	31	1536E	N16	E02
SAC PEAK	31	1540	N14	W01
SAC PEAK	31	1647E	N10	W02
SAC PEAK	31	1647E	S30	W57

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
KYOTO	01	0209 E	0225 D	0212	S32	E16	4082	16 D	1		0212				120	Slow S-SWF
KYOTO	01	0210 E	0300 D	0218	S30	E11	4082	50 D	1		0218				120	
TASHKENT	01	0302 E	0447		N34	W04	4086	105 D	1&			8.50		2.80	310	
TASHKENT	01	0424	0456	0434 U	N13	W72	4075	32	1			2.12		3.60	300	
ABASTUMANI	01	0516 E	0818 D	0545 U	N10	W84	4075	182 D	1&			.87		1.70	280	
ABASTUMANI	01	0516 E	0818 D	0607 U	N34	W07	4086	182 D	2&			4.80			300	
ABASTUMANI	01	0525 E	0818 D	0747 U	S31	E12	4082	173 D	1			1.30		1.60	250	
TASHKENT	01	0542	0604 D	0543 U	N13	W73	4075	22 D	1			1.42		3.50	290	
SIMEIZ	01	0600 E	0700 D		N28	E46	4083	60 D	1&			4.48		2.20		
CAPRI G	01	0602	0639		N34	W05	4086	37	1&				4.00			
KYOTO	01	0609 E	0620 D		N32	W03	4086	11 D	1		0609	5.40			100	
CAPRI G	01	0749	0757		S31	E14	4082	8	1				4.00			
MEUDON	01	0945	1045		S30	E08	4082	60	1&							
CAPRI G	01	0958 E	1025 D		S30	E08	4082	27 D	2				8.00			
KYOTO	01	2158 E			N34	W12	4086		1		2158	3.40				
SYDNEY	02	0057	0115	0102	N19	W92				3	0102	.50				S-SWF
SYDNEY	02	0238	0247	0239	S25	W12	4082	9	1	3	0239	2.00	2.00			
SYDNEY	02	0348	0402	0355	N19	W92				3	0355	.50				
TASHKENT	02	0455	0510		S30	E01	4082	15	1			3.19		2.80	280	
SIMEIZ	02	0724	0730	0726	S31	E03	4082	6	1			1.68				
CAPRI G	02	0844	0855		S25	W15	4082	11	1				3.00			
CAPRI G	02	1056	1109		S31	W03	4082	13	1				4.00			
KIEV	02	1101 E	1120	1109 U	S33	W02	4082	19 D	1			1.44			260	
KIEV	02	1208	1215 D	1209 U	N27	E34	4083	7 D	1&			.90			300	
CAPRI G	02	1220 E			S33	W04	4082		1				4.00			
MEUDON	02	1327	1400 D		N33	W18	4086	33 D	1							
KIEV	02	1341 E	1411	1341 U	N34	W19	4086	30 D	1			.90			250	
KIEV	02	1359	1410	1402 U	N08	E60	4089	11	2-			1.60			370	S-SWF G-SWF
MEUDON	02	1637	1715		N32	W20	4086	38	1							
TASHKENT	03	0308 E	0344 D	0325 U	N09	E49	4089	36 D	1			3.20		2.80	270	
KYOTO	03	0332 E	0336		N09	E53	4089	4 D	1		0332				120	
TASHKENT	03	0455	0512	0501 U	S29	W10	4082	17	1			3.54		3.30	300	
CAPRI G	03	0500 E	0534		S31	W15	4082	34 D	2				9.00			
ABASTUMANI	03	0502 E	0632 D	0512	S32	W11	4082	90 D	1&			3.49		1.70	240	
ABASTUMANI	03	0512	0632 D	0600	N12	E50	4089	80 D	1&			2.62				
CAPRI G	03	0530 E	0636		N10	E47	4089	66 D	2				7.00			
KRASNYA	03	0604 E	0630	0607 U	N08	E50	4089	26 D	1	2	0607	2.25	1.74		56	
NIZMIR	03	0604 E	0630 D	0607 U	N06	E50	4089	26 D	1			2.30			160	
MEUDON	03	0817	0935		S33	W17	4082	78	1&							
CAPRI G	03	0818	0907	0833	S29	W13	4082	49	1&				4.00			
NIZMIR	03	0834	0920 D	0919	S30	W19	4082	46 D	1			1.50			180	
MOSCOW	03	1007 E	1255 D	1119 U	N06	E50	4089	168 D	1&			6.11		2.41	200	
CAPRI G	03	1008 E	1018		N28	E14	4083	10 D	1				4.00			
CAPRI G	03	1008 E	1020 D		S25	W25	4082	12 D	1&				4.00			
KIEV	03	1138	1145 D	1140 U	N28	E06	4083	7 D	1&			2.00			330	
MEUDON	03	1155	1300		S17	W13	4088	65	2							
KIEV	03	1157	1222 D	1205 U	S16	W13	4088	25 D	2			3.60			330	
CAPRI G	03	1158 E	1239		S15	W10	4088	41 D	2				8.00			
KIEV*	03	1159 E	1210 D		S16	W17	4086	11 D	1			1.50				
KIEV	03	1204 E	1217	1241 U	S13	W16	4088	13 D	1			1.80			220	

8 57 PAGE 1

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
CAPRI G	03	1207	1229		S31	W14	4082	22	1&				5.00			
KIEV	03	1207	1222 D	1215 U	S31	W18	4082	15 D	2			3.60			430	
MEUDON	03	1210	1245		S30	W18	4082	35	2-							
MEUDON	03	1310	1340		N26	E13	4083	30	1							
CAPRI G	03	1328 E	1342		N27	E19	4083	14 D	2				7.00			
CAPRI G	03	1433 E	1442		S31	W15	4082	9 D	1&				5.00			
CAPRI G	03	1435	1451		N34	W30	4086	16	1				4.00			
CAPRI G	03	1436	1446		N09	E48	4089	10	1				4.00			
KYOTO	03	2312 E			S21	W33	4082		1		2312	1.70				
KYOTO	03	2312 E			N33	E32	4085		1		2312	5.80				
ABASTUMANI	04	0537 E	0804 D		N09	E37	4089	147 D	1&			2.62		1.70	380	
SIMEIZ	04	0631	0740	0734 U	N26	E35	4096	69	1			2.18		1.20	180	
MEUDON	04	0730	0750		N28	E34	4085	20	1							
CAPRI G	04	0731	0751		N28	E37	4085	20	1&				5.00			
ABASTUMANI	04	0734 E	0804	0734	N30	E37	4085	30 D	2-			2.62			360	
ABASTUMANI	04	0738	0804	0743 U	S33	W27	4082	26	1			.87		1.80	380	
CAPRI G	04	0920 E	1003		S26	E67	4090	43 D	1&				5.00			
CAPRI G	04	1410 E	1416		N34	W46	4086	6 D	1				4.00			
CAPRI G	04	1546 E	1552		S34	W26	4082	6 D	1				4.00			
CAPRI G	04	1620 E	1628		S28	W49	4082	8 D	1				3.00			G-SWF
CAPRI G	04	1635 E	1640 D		N26	E03	4083	5 D	1				4.00			
SYDNEY	05	0340	0352	0342	S30	W48	4082	12	1	3	0342	1.00	2.00			
CAPRI G	05	0804	0817		S27	W59	4082	13	1				2.00			
CAPRI G	05	1617 E	1628		S27	W62	4082	11 D	1				3.00			
CAPRI G	06	0603	0612		S23	W61	4082	9	1				4.00			
CAPRI G	06	0613	0621		S11	E07		14	1				2.00			
CAPRI G	06	0656	0704		N26	W18	4083	8	1				3.00			
IZMIR	06	0657 E	0701	0658	N27	W18	4083	4 D	1			1.10			200	
CAPRI G	06	1053	1059		S31	W48	4082	6	1				3.00			
KIEV	06	1054 E	1058	1056 U	S32	W48	4082	4 D	1&			2.00			280	
CAPRI G	06	1132	1147		S39	E77	4094	15	1				3.00			
CAPRI G	06	1411 E	1422		S39	E75	4094	11 D	1				3.00			
CAPRI G	07	0657	0724	0704	N28	W38	4083	27	1&				5.00			
SIMEIZ	07	0700 E	0809 D		N27	W41	4083	69 D	1&			6.11		2.40	150	
MOSCOW	07	0738 E	1159 D	0759 U	N28	W42	4083	461 D	2			7.64		2.00	150	
CAPRI G	07	0741	0757	0749	N26	W40	4083	16	1				4.00			
KIEV	07	1110 E	1119	1110 U	N14	W04	4089	9 D	1			1.70			210	
MOSCOW	07	1111 E	1116 D		N14	W02	4089	5 D	1			3.57		1.90	130	G-SWF
CAPRI G	07	1112	1122		N13	W04	4089	10	1				4.00			
KIEV	07	1118	1125	1120 U	N28	W41	4083	7 D	1			1.20			220	
CAPRI G	07	1406	1441		N28	W46	4083	35	1				4.00			
CAPRI G	07	1550 E	1607 D		S14	E51	4090	17 D	1				4.00			
TASHKENT	08	0519	0557	0524 U	N27	W54	4083	38	1&			4.25		4.10	270	
CAPRI G	08	0533 E	0604		N25	W55	4083	31 D	1&				5.00			
SIMEIZ	08	0611	0633	0614	N12	W16	4089	22	1&			4.80		2.00	200	
ABASTUMANI	08	0611 E	0648 D	0616 U	N12	W16	4089	37 D	2			4.36			480	
CAPRI G	08	0613	0644	0621	N13	W15	4089	31	2				11.00			
CAPRI G	08	0641	0711		N29	W43	4083	30	1				4.00			
CAPRI G	08	0803	0816		S08	E90	4099	13	1				3.00			

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
ABASTUMANI	08	0802 B	0816	0805 U	S14	E46	4093	14 D	1			1.75			180	
CAPRI G	08	0805	0817		S13	E44	4093	14	1b				5.00			
CAPRI G	08	1121	1211	1135	N29	W54	4083	50	2b				12.00			Slow S-SWF
CAPRI G	08	1327 B	1337		N26	W56	4083	10 D	1				2.00			
SYDNEY	09	0204	0215 D	0208	N34	W56	4083	11 D	1	2	0208	.75	2.50			S-SWF
SYDNEY	09	0210	0215 D	0213	N26	W62	4083	5 D	1	2	0213	1.00	2.50			
TASHKENT	09	0212 B	0237	0214 U	N27	W64	4083	25 D	1b			4.60		3.50	460	
ABASTUMANI	09	0619	0720	0629 U	S09	E75	4099	61	2			1.75		2.30	350	Slow S-SWF
CAPRI G	09	0621	0652	0629	S06	E75	4099	31	2	2	0630		10.00			
CAPRI G	09	0913	0924		S04	E71	4099	14	1	1	0915		5.00			
MOSCOW	09	1115 B	1122 D		N23	W68	4083	7 D	1			2.04		2.20	140	
ABASTUMANI	10	0642	0705 D	0645	N24	W81	4083	23 D	1b			.87		2.10	350	
KRASNYA	10	0643 B	0646 D		N20	W84	4083	3 D	1b	2	0646	.78	3.84		59	Slow S-SWF
SIMEIZ	10	0645 B	0656 D	0647 U	N24	W72	4083	11 D	1			1.68		3.30		
MOSCOW	10	0655 B	0719 D		N23	W80	4083	24 D	1			2.55		2.20	250	
CAPRI G	10	0655 B	0718		N27	W77	4083	23 D	1b	1	0655		5.00			
CAPRI G	10	1056	1123	1102	S12	E58	4099	27	2	2	1101		11.00			S-SWF
KIEV*	10	1113 B	1117 D		S11	E59	4099	4 D	1			3.60				
KHARKOV	10	1115 B	1127 D		S18	E64	4099	12 D	1							
KHARKOV	10	1128 B	1155 D	1133 U	S11	E63	4099	27 D	1							
CAPRI G	11	1037	1102		S15	E08	4093	25	1	1	1039		5.00			
SYDNEY	12	0154	0226	0155	S28	E86	4106	32	1	3	0155	2.00				
ABASTUMANI	12	0514 B	0817 D	0521 U	S16	E88	4105	183 D	1			.87		1.30	130	
ABASTUMANI	12	0524	0815 D	0611 U	N16	E12	4100	171 D	1b			.87		1.70	250	
CAPRI G	12	0606	0621		N14	E12	4100	15	1	3	0609		3.00			
IZMIR	12	0608 B	0613		N17	E12	4100	5 D	1			1.50			170	
CAPRI G	12	0656	0711		N11	W68	4089	15	1	3	0701		4.00			
SIMEIZ	12	0657	0715	0703	N08	W70	4089	18	1			1.30		1.80	140	
ABASTUMANI	12	0658	0716	0703	N12	W69	4089	18	1			.87		2.00	200	
CAPRI G	12	0952	1009		S22	E90	4106	17	1b	2						
CAPRI G	12	1032	1045		S26	E71	4106	13	1	2	1033		5.00			
MOSCOW	12	1033	1042 D		S29	E82	4106	9 D	1			2.04		2.40	140	
KIEV	12	1131	1143	1132 U	S12	E35	4090	12	1b			3.00			220	
KIEV*	12	1235 B	1250 D		N16	E26	4098	15 D	1			.80				
KIEV	12	1237	1310	1240 U	N15	E28	4098	33	1b			2.50			240	
CAPRI G	12	1250 B	1303 D		N13	E30	4098	13 D	1	2	1252		4.00			
KIEV*	12	1341 B	1343 D		S30	E42	4106	2 D	1			1.30				
KIEV	12	1341	1347	1342 U	S12	E26	4099	6	1b			1.10			340	
CAPRI G	12	1500 B	1620	1538	N13	E26	4098	80 D	2	3	1538		11.00			G-SWF
CAPRI G	13	0636	0642		S09	E19	4099	6	1	1	0638		3.00			
KHARKOV	13	1015 B	1035 D		N16	E07	4098	22 D	1							
MOSCOW	13	1024 B	1200 D		N17	E08	4098	96 D	1			4.08		1.20	130	
KIEV	13	1141	1147	1143 U	S20	W50	4090	6	1b			1.30			280	
MOSCOW	13	1245	1301	1254 U	S30	W18	4094	16	1b			5.10		2.30	250	
KIEV	13	1248	1319	1253 U	S35	W21	4094	31	2			4.30			350	
KIEV*	13	1253 B	1302 D		S35	W30	4094	9 D	1b			3.50				
CAPRI G	13	1258 B	1306		S33	W25	4094	8 D	1b	2	1259		5.00			
CAPRI G	13	1357	1411		N15	E06	4098	14	1	2	1359		4.00			
ABASTUMANI	13	1404 B	1416 D		N17	E04	4098	12 D	2			3.93			230	

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
CAPRI G	14	0611	0624		N15	W04	4098	13	1	2	0612		4.00			
CAPRI G	14	0820 E	0841		N15	W05	4098	21 D	1	2	0822		4.00			
SIMEIZ	14	0821	0902	0823	N16	W07	4098	41	1			.87		3.00	150	
CAPRI G	14	1057 E	1104		S21	W11	4107	7 D	1	1	1059		5.00			
KHARKOV	14	1131 E	1151 D		N15	W05	4098	20 D	1							
KHARKOV	14	1151 E	1233 D	1204 U	N16	W06	4098	42 D	2							
KIEV*	14	1204 E	1212 D		N15	W09	4098	8 D	1							
SIMEIZ	15	0600 E	0700 D		N28	E46	4083	60 D	1&			4.48		2.20		
SIMEIZ	15	0600 E	0700 D		N35	W02	4086	60 D	2			8.40		2.20		
ABASTUMANI	15	0525 E	0706 D	0615 U	N16	W17	4098	101 D	1			2.62		1.90	320	
CAPRI G	15	0606	0623 D		N17	W16	4098	17 D	1&	2	0610		5.00			
SIMEIZ	15	0611	0633	0614	N12	W16	4089	22	1&			4.80		2.00	200	
SIMEIZ	15	0628		0632 U	N08	E37						1.30			130	
SIMEIZ	15	0631	0740	0734 U	N28	E35	4085	69	1			2.18		1.20	180	
SIMEIZ	15	0645 E	0656 D	0647 U	N24	W72	4083	11 D	1			1.68		3.30		
SIMEIZ	15	0657	0715	0703	N08	W70	4089	18	1			1.30		1.80	140	
SIMEIZ	15	0700 E	0809 D		N27	W41	4083	69 D	1&			6.11		2.40	150	
SIMEIZ	15	0703 E	0714 D	0709 U	S28	W90	4082	11 D	1&			4.48		4.00		
SIMEIZ	15	0724	0730	0726	S31	E03	4082	6	1			1.68				
SIMEIZ	15	0740 E	0744	0740 U	S32	W28						.87			170	
SIMEIZ	15	0821	0902	0823	N16	W07	4100	41	1			.87		3.00	150	
SIMEIZ	15	0830	0845	0834	N15	W15	4098	15	1			1.30		2.00	130	
CAPRI G	15	0911 E	0937		N17	W18	4098	26 D	1	1	0915		4.00			
KHARKOV	15	0913 E	0945 D	0917 U	N17	W20	4098	32 D	2							
KIEV	15	1204	1214 D	1205 U	N16	W23	4098	10 D	2			4.90			270	
ABASTUMANI	16	0611	0640 D	0615	N15	W44	4100	29 D	1			.87		1.80	160	
ABASTUMANI	16	0612	0812 D	0623 U	N17	E39	4104	120 D	1			.87		1.90	150	
CAPRI G	16	0719 E	0722 D		S13	W57	4093	3 D	1	1	0720		4.00			
SIMEIZ	16	0719 E	0728 D	0722 U	S16	W58	4093	9 D	1&			1.30		4.30	160	
MOSCOW	16	0815 E	0817 D		S16	W60	4093	2 D	1			1.53		3.20	150	
KHARKOV	16	0959	1015		S18	W63	4093	16	1							
MOSCOW	16	1002 E	1006 D		S16	W59	4093	4 D	1			2.04		2.90	150	
CAPRI G	16	1003	1035		N12	E75	4112	32	1	1	1005		3.00			
KIEV	16	1116	1118	1117 U	S23	E23	4105	2	1&			1.10			340	
KIEV	16	1347	1410 D	1206 U	S16	W65	4093	23 D	1&			1.00			370	
TASHKENT	17	0326 E	0332		N20	E69	4112	6 D	1			4.25		2.50	200	
TASHKENT	17	0522 E	0558	0533 U	S47	E31	4106	36 D	1			9.56		2.10	210	
ABASTUMANI	17	0531	0602 D	0544 U	S47	E38	4106	31 D	2&			3.93		2.00	250	
ABASTUMANI	17	0532	0536	0545	S21	E13	4105	4	1&			2.62		1.40	220	
CAPRI G	17	0734	0746		N17	W40	4098	12	1	3	0738		4.00			
CAPRI G	17	1022 E	1028		S32	E15	4106	6 D	1	2	1022		4.00			
CAPRI G	17	1252 E	1310		S22	E06	4105	18 D	2	1	1252		8.00			
CAPRI G	18	0644	0702		S22	W04	4105	18	1	1	0647		5.00			
ABASTUMANI	18	0645 E	0710 D	0649 U	S21	W03	4105	25 D	2-			2.62			250	
ABASTUMANI	18	0741 E	0810	0749 U	N07	E51	4112	29 D	1&			2.18		1.70	290	
CAPRI G	18	0745	0756		N19	E50	4112	11	1	1	0747		4.00			
SIMEIZ	18	0815 E	0831	0815	S16	W90	4093		1&			2.18		4.30		
MOSCOW	18	0850 E	0856 D		N17	E49	4112	6 D	1			1.53		2.10	140	
KIEV	18	1133	1202	1134 U	N16	E47	4112	29	1&			4.20			190	
CAPRI G	18	1256	1351		S13	W90	4093	55	2	1						

COMMERCE - STANDARDS - BOULDER

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
KIEV	18	1325 E	1336	1326 U	S22	W08	4105	11 D	1B			2.70			220	
KIEV*	18	1330 E	1334 D		S21	W10	4105	4 D	1			5.40				
KIEV*	18	1339 E	1348 D	1340 U	S21	W88	4093	9 D	1							
CAPRI G	18	1452 E			S13	W90	4093		1B	1						
SYDNEY	18	2327 E	0006 D	2332	S21	E01	4105	39 D	1	3	2332	2.00	2.00			
SYDNEY	19	0340	0406	0348	N18	W72	4100	26	1	3	0348	1.00	5.00			
SIMEIZ	19	0753	0811	0753	N22	E48	4112	18	1B			3.49		2.40	210	
ABASTUMANI	19	0754	0816	0755 U	N23	E46	4112	22	1B			6.98		1.80	500	
MOSCOW	19	0757 E	0806 D		N20	E46	4112	9 D	1B			3.06		2.40	150	
KRASNYA	19	0803	0820	0806	N20	E48	4112	17	1	2	0806	3.83	2.93		77	
NIZMIR	19	0803	0820	0806	N20	E48	4112	17	1B			3.90			220	
KHARKOV	19	0930 E	0944		N08	E48	4112	14 D	1							
KRASNYA	19	0931 E	0942 D		N14	E45	4112	11 D	1	2	0931	2.25	1.61		63	
MOSCOW	19	1025 E	1139 D		N20	W35	4101	74 D	1B			7.13		2.30	180	
MEUDON	19	1100	1155	1105	N17	W27	4101	55	1				6.00			
KHARKOV	19	1103 E	1130		N22	W25	4101	27 D	2							
CAPRI G	20	0954	1016		S20	W35	4105	22	1	2	1000		5.00			
KHARKOV	20	0958 E	1014		S22	W35	4105	16 D	1							
CAPRI G	20	1027	1044		N21	E33	4112	17	1B	2	1031		5.00			
CAPRI G	20	1414	1431		N12	E12	4112	17	1	2	1420		3.00			
CAPRI G	20	1450 E	1501		N16	E19	4112	11 D	1	2	1450		5.00			
ABASTUMANI	21	0731 E	0851 D	0850 U	S31	W10	4106	80 D	2			4.36		2.00	240	
KRASNYA	21	0748	0843	0758	N21	E20	4112	55	1B	2	0758	2.34	1.56		112	
SIMEIZ	21	0748	0839	0749 U	N26	E24	4112	51	2			8.20		2.20	160	
ABASTUMANI	21	0749 E	0840	0759 U	N25	E25	4112	55 D	3			11.35		1.90	340	
CAPRI G	21	0750	0839	0805	N22	E14	4112	49	2	3	0807		8.00			
KRASNYA	21	0823 E		0823	N22	E24	4112		2	2	0823	8.12	4.39		105	
SIMEIZ	21	0806	0820 D	0808 U	S24	E88	4117	14 D	1			1.75		3.20	160	
SIMEIZ	21	0829 E	0909 D	0830 U	S32	W12	4106	40 D	1B			4.36		2.20	130	
CAPRI G	21	0837 E	0855 D		S24	W11	4105	18 D	1	1	0840		3.00			
NIZMIR	21	0837	0911	0839	S28	W19	4106	34	1			1.50			220	
MOSCOW	21	0904 E	1001 D		S30	W11	4106	57 D	1B			5.10		2.10	120	
NIZMIR	21	0952	1024 D	1007	S32	E88	4117	32 D	1			1.50			250	
KRASNYA	21	0952	1024 D	1007	S32	E88	4117	32 D	1B	2	1007	1.47	2.70		87	
CAPRI G	21	1007 E	1030 D		S30	E90	4117	23 D	1	1	1008		4.00			
KIEV	21	1130	1139	1135 U	N16	E14	4112	9	1			1.10			70	
KIEV	21	1156 E	1200	1158 U	N25	W52	4101	4 D	1B			1.50			280	
CAPRI G	22	0834	0844		N22	W01	4112	10	1	1	0835		3.00			
KRASNYA	22	0927	0930	0928	S26	E71	4117	3	1B	2	0928	2.16	3.95		59	
KHARKOV	22	1017 E	1125		S40	W56	4106	68 D	1							
KHARKOV	22	1037 E	1112 D		S18	E25	4120	35 D	1							
KIEV	22	1116	1130 D	1018 U	N22	W02	4112	14 D	1			1.00			170	
ABASTUMANI	23	0552	0808	0621 U	N18	W12	4112	136	1			1.31		1.80	310	
CAPRI G	23	0618 E	0638		N18	W10	4112	20 D	1	1	0620		4.00			
CAPRI G	23	1126	1240	1152	N16	W18	4112	74	2	2	1130		8.00			
CAPRI G	23	1244	1253		N18	W15	4112	9	1	2	1249		3.00			
CAPRI G	23	1204	1214		N21	W77	4101	10	1	2	1206		5.00			
NEDERHORST	23	1402 E	1406		N19	W10	4112	4 D	1	2						S-SWF
CAPRI G	23	1406	1413 D		N18	W16	4112	7 D	1	1	1408		3.00			

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	APPROX. MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
CAPRI G	24	0839 E	0850 D		N18	W24	4112	19 D	1	2	0840		3.00			
CAPRI G	24	1007 E			N24	E90	4124		1	2						
CAPRI G	24	1107 E	1120 D		N18	W27	4112	13 D	1	2	1108		4.00			
KIEV	24	1109	1117	1114 U	N18	W25	4112	8	1			1.35			200	
KIEV	24	1135	1138	1137 U	S13	E17	4121	3	1			1.35			130	
KIEV	24	1240	1246	1244 U	N20	W26	4112	6	1B			1.55			320	
KIEV	24	1245	1317	1305 U	N20	W26	4112	22	1			1.50			230	
CAPRI G	24	1343	1353		N20	W29	4112	10	1	2	1345		3.00			
ABASTUMANI	25	0503 E	0824 D	0515 U	N13	E54	4122	201 D	2			2.62		2.10	360	
ABASTUMANI	25	0503 E	0824 D	0535 U	N21	W37	4112	201 D	1			1.13			170	
ABASTUMANI	25	0503 E	0824 D	0606 U	S22	E40	4117	201 D	2			1.31		2.00	300	
CAPRI G	25	0550 E	0609		N10	E50	4122	19 D	1B	2	0550		5.00			
CAPRI G	25	0605	0613		N13	E87	4124	8	1	2	0609		4.00			
CAPRI G	25	0755 E			S28	E24	4117		1	1	0756		5.00			
MOSCOW	25	0834 E	1114 D		N24	W37	4112	160 D	1B			3.57		2.60	220	
KHARKOV	25	0903 E	0941	0915	N24	W36	4112	38 D	2			5.00				
KRASNYA	25	0905 E	0937 D		N21	W39	4112	32 D	1	2	0912	3.43	2.28		73	S-SWF
NIZMIR	25	0905 E	0937 D		N21	W39	4112	32 D	1B			3.50			210	
CAPRI G	25	0912	0938		N19	W37	4112	26	1B	2	0916		4.00			
KHARKOV	25	0922 E	0947		N06	E53	4122	25 D	1			4.00				
TASHKENT	26	0230 E	0334		N12	E39	4122	34 D	1			5.31		3.00	260	
TASHKENT	26	0324	0350	0328 U	S29	E66	4125	26	1			1.77		2.20	280	
TASHKENT	26	0510	0528	0513 U	S29	E65	4125	18	1			1.42		2.30	280	
ABASTUMANI	26	0551 E	0834	0555 U	S35	E68	4125	163 D	1B			.87			170	
ABASTUMANI	26	0602	0614	0606	S30	E53	4125	12	1			1.31		1.90		
KYOTO	26	0605 E	0610 D		S25	E65	4125	5 D	1		0606				100	
KRASNYA	26	0650 E	0701	0658 U	S30	E70	4125	11 D	1	2	0658	1.18	2.15		77	
NIZMIR	26	0650 E	0701	0658 U	S30	E70	4125	11 D	1			1.20			220	
KRASNYA	26	0758 E	0833 D	0812	S25	E06	4117	35 D	1	2	0812	3.43	2.02		66	
ABASTUMANI	26	0802	0850	0804	S24	E06	4117	48	2-			3.06		1.70	205	
CAPRI G	26	0810 E	0815 D		S25	E11	4117	5 D	1B	1	0815		5.00			
CAPRI G	26	0901 E	0942		N23	E72	4124	41 D	1	2	0905		4.00			
CAPRI G	26	0909	0938		S10	E43	4121	29	1	2	0911		3.00			
KRASNYA	26	0909 E	0919 D	0909 U	S12	E48	4125	10 D	1	2	0909	3.43	2.70		59	
NIZMIR	26	0909 E	0918 D	0909 U	S12	E48	4121	9 D	1			3.50			170	
KHARKOV	26	0910 E	0928 D		S10	E47	4121	18 D								
STOCKHOLM	26	0915 E	0930 D		S15	E45	4121	15 D	1	2						
SIMEIZ	26	0911 E	0930 D	0914 U	N22	E67	4124	19 D	1			2.80		2.30	130	
KHARKOV	26	0915 E	0954 D	0917 U	N24	E70	4124	39 D								
STOCKHOLM	26	0923 E	0941 D		N25	E60	4124	18 D	1	2						
STOCKHOLM	26	0934 E	0955 D		S25	E20	4125	21 D	1	1						
MOSCOW	26	1106 E	1127 D		S27	E61	4125	21 D	1			2.55		2.40	140	
CAPRI G	26	1500	1511		N23	E81	4124	11	1	2	1502		3.00			
TASHKENT	27	0315 E	0332		N26	E57	4124	17 D	1			2.12		1.60	210	
NIZMIR	27	0745 E	0830 D	0813 U	S27	W01	4117	45 D	1			1.50			230	
SIMEIZ	27	0752	0815	0756	N27	E61	4124	23	1			2.62		2.10	180	
ABASTUMANI	27	0806 E	0815 D	0810 U	N27	E58	4124	9 D	1			2.18			180	
KRASNYA	27	0934	0957	0940	S31	W46	4120	23	1	2	0940	1.57	1.43		84	
NIZMIR	27	0935	0957	0940 U	S31	W46	4120	22	1			1.60			240	
CAPRI G	27	1048	1059		N23	E51	4124	11	1	2	1051		3.00			
CAPRI G	27	1302	1322		S32	E36	4125	20	1	2	1307		4.00			

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
TASHKENT	28	0250 E	0300	0251 U	S27	E28	4125	10 D	1			1.77		1.80		
TASHKENT	28	0313 E	0332		N23	E49	4124	19 D	1			1.42		3.10	240	
TASHKENT	28	0425	0450	0436 U	S28	E40	4125	25	1			4.96		2.50	250	
KYOTO	28	0435	0450 D		S27	E47	4125	15 D	1		0435				100	G-SWF
CAPRI G	28	0703	0728	0718	S29	E34	4125	25	1&	3			5.00			S-SWF
ABASTUMANI	28	0707	0729 D	0720 U	S26	E38	4125	22 D	2			2.18		2.20	350	
UTRECHT	28	0715	0718 D		S00	E00	4125	3 D	2-							
SIMEIZ	28	0822 E	0832 D	0824 U	N15	E50	4124	10 D	1			1.75		2.60	190	
CAPRI G	28	0847	1240	0925				233	3	2	0920		23.00			
STOCKHOLM	28	0931 E	1115 D		S30	E32	4125	104 D	3&	2						S-SWF
UTRECHT	28	0940	0942 D		S00	E00	4125	2 D	3							
NEDERHORST	28	0950	1018		S32	E36	4125	28	3							
SIMEIZ	28	0951 E	1013 D	1002 U	N23	W80	4112	22 D	1			1.75		2.30	150	
STOCKHOLM	28	1005 E	1016 D		N15	W85	4112	11 D	1	2						
NEDERHORST	28	1038	1046		S32	E36	4125	220 D	3	2						
STOCKHOLM	28	1110 E	1115 D		S25	W15	4117	5 D	1&	2						
KIEV	28	1110 E	1250	1137 U	S31	E30	4125	100 D	1&			2.70			230	
KIEV	28	1110 E	1250	1123 U	S34	E24	4125	100 D	3			11.70			200	
NEDERHORST	28	1143	1300		S32	E36	4125									
KIEV	28	1201 E	1317	1219 U	S37	E35	4125	76 D	1&			3.60			180	
NEDERHORST	28	1315	1330 D		S32	E36	4125									
KYOTO	29	0123	0144 D		N43	W90										
CAPRI G	29	0550 E	0629		N23	E37	4124	39 D	2	3	0552		7.00			
KHARKOV	29	0550	0650 D	0551 U	N20	E37	4124	60 D	2			3.00				
ABASTUMANI	29	0550	0701 D	0556	N26	E35	4124	71 D	2&			3.49		2.20	350	S-SWF
KYOTO	29	0551 E	0632 D	0557	N27	E38	4124	41 D	1		0557				130	
SIMEIZ	29	0556 E	0900 D	0556 U	N25	E36	4124		1&			4.80		2.40	230	
CAPRI G	29	0632	0648		N11	W03	4122	16	1	1	0636		2.00			
ABASTUMANI	29	0632 E	0700	0641 U	N13	W02	4122	28 D	2-			3.93		1.80	270	
SIMEIZ	29	0635 E		0637 U	N13	W02	4122		1&			5.24		2.50	170	
ABASTUMANI	29	0632	0710	0641 U	S32	E29	4125	38	2			1.31		2.00	280	
CAPRI G	29	0634	0650		S34	E24	4125	16	1	1	0636		2.00			
SIMEIZ	29	0637 E		0638	S33	E30	4125		1			.87		1.80	180	
KYOTO	29	0640 E	0653 D		S28	E30	4125	13 D	1		0645			1.17		
KYOTO	29	0705 E	0721 D	0709	N27	E35	4124	16 D	1		0709			1.17	110	
ABASTUMANI	29	0740 E	0810 D	0804 U	N24	E36	4124	30 D	1			2.18		1.70	260	
CAPRI G	29	0753	0806		N17	E38	4124	13	1	1	0755		3.00			
MEUDON	29	0807 E	0915	0900	N24	E34	4124	68 D	1				8.00			
KHARKOV	29	0859 E	1031 D		N22	E36	4124	92 D	1							
STOCKHOLM	29	0910 E	0958 D		N20	E35	4124	48 D	2	2						
CAPRI G	29	0955 E	1012 D		N18	E36	4124	17 D	1	1	0955		3.00			
CAPRI G	29	1037	1054		S25	E18	4125	17	1&	1	1040		5.00			
MEUDON	29	1038 E	1052	1041	S26	E20	4125	14 D	1&				5.00			S-SWF
UTRECHT	29	1038	1040		S00	E00	4125	2 D	2-							
MOSCOW	29	1039 E	1049 D	1039 U	S23	E18	4125	10 D	2			7.13		4.50	250	
KIEV	29	1105	1201	1129 U	S37	E23	4125	56	1			1.80			170	
KIEV	29	1219	1302	1223 U	S35	E26	4125	41	1&			3.15			200	
CAPRI G	29	1225 E	1246		S34	E17	4125	21 D	1	2	1227		3.00			
KIEV	29	1335 E	1342	1337 U	S28	E17	4125	7 D	2&			3.40			650	
KYOTO	29	2338	2347 D		S25	E16	4125	9 D	1		2339				120	
SYDNEY	29	2350	0023 D	2358	S33	E07	4125	33 D	1	1	2358	1.50	2.00			
KYOTO	29	2356 E	0016 D		N12	W90	4112	20 D	1		2356				100	
KYOTO	29	2356 E	0032		S28	E16	4125	36 D	1		2356				120	

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
KYOTO	30	0025	0037 D		S28	E28	4125	12 D	1		0025				100	S-SWF
KYOTO	30	0143 E	0150 D	0145	S28	E28	4125	7 D	1		0145	1.00			90	
SYDNEY	30	0252	0413 D	0313	S25	W34	4117	81 D	1	1	0313	2.00	3.00			
SYDNEY	30	0345	0412	0352	S25	E11	4125	27	1	2	0352	3.00	4.00			
TASHKENT	30	0346	0406	0349 U	S25	E13	4125	20	1B			4.25		4.00	440	S-SWF
TASHKENT	30	0350 E	0355 D		S26	E09	4125	5 D	1			1.77		3.20	260	
TASHKENT	30	0358 E	0424		N25	E22	4124	26 D	1			3.19		2.30	220	
SIMEIZ	30	0620	0659	0625 U	N27	E23	4124	39	2			5.24		4.30	190	
CAPRI G	30	0622	0651	0627	N26	E24	4124	29	1B	3	0627		5.00			
TASHKENT	30	0628 E	0705 D	0629 U	N25	E24	4124	37 D	2			18.41		1.90	380	S-SWF
ABASTUMANI	30	0628	0804 D	0738 U	N28	E22	4124	96 D	2B			7.42		2.10	270	
KYOTO	30	0629	0654 D		N28	E26	4124	25 D	1		0629				130	
SIMEIZ	30	0758	0804	0801	S26	W38	4117	6	1B			1.30		4.30	210	
CAPRI G	30	0856	0902		S29	E05	4125	6	1	3	0858		2.00			
SIMEIZ	30	0856	0901	0857	S28	E07	4125	5	1B			1.30		4.30	190	
MEUDON	30	0927	1006 D		S27	E13	4125	39	1							
KIEV	30	1314 E	1316	1314 U	S30	E08	4125	2 D	1			1.00			310	
MEUDON	30	1336	1344 D	1340	N17	E25	4124	8 D	1				3.00			
CAPRI G	30	1339	1352		N25	E19	4124	13	1	2	1340		2.00			
KIEV	30	1339	1354	1345 U	N24	E16	4124	15	2			3.10			370	S-SWF
CAPRI G	30	1338	1701		N14	E14	4124	23	1B	2	1340		4.00			
KIEV	30	1339	1359	1344 U	N14	E12	4124	20	1B			1.80			250	
CAPRI G	30	1515 E	1535 D		N09	E14	4124	20 D	1	2	1515		2.00			
SYDNEY	31	0127 E	0153 D		S32	E06	4125	26 D	2	3	0127	5.00	6.00			
SYDNEY	31	0242	0303	0254	N13	E04	4124	21	1	2	0254	3.00	3.00			
KYOTO	31	0251 E	0310 D	0258	N13	E05	4124	19 D	1B		0258			2.34	120	S-SWF
TASHKENT	31	0302 E	0312		N14	E04	4124	10 D	1			3.54		2.40	230	
TASHKENT	31	0521	0645	0552 U	S27	W07	4125	84	2			7.79		2.60	290	
TASHKENT	31	0544	0616	0549 U	N13	E02	4124	32	2			6.23		2.80	460	S-SWF
SIMEIZ	31	0553 E		0610 U	N13	E03	4124		1B			4.36		2.90	230	
SIMEIZ	31	0556 E	0900 D	0556 U	N25	E36	4124		1B			4.80		2.40	230	
MOSCOW	31	0612 E	0811 D	0727 U	S33	W02	4125	119 D	3			10.48		2.30	420	
SIMEIZ	31	0615 E		0615 U	S32	W02	4125		2			11.35		2.60	170	
SIMEIZ	31	0620	0659	0625 U	N27	E23	4124	39	2			5.24		4.30	190	
KRASNYA	31	0634 E	0811	0634 U	S33	W07	4125	97 D	2	2	0634	6.85	4.76		144	
NIZMIR	31	0634 E	0811 D	0634 U	S33	W07	4125	97 D	2B			7.00			410	
SIMEIZ	31	0635 E		0637 U	N13	W02	4122		1B			5.24		2.50	170	
SIMEIZ	31	0637 E		0638	S33	E30	4125		1			.87		1.80	180	
SIMEIZ	31	0706	0736	0715	S26	E38	4125	29	1B			3.50		3.00	300	
KRASNYA	31	0717	0752	0733	S28	W49	4117	35	1	2	0733	1.47	1.36		98	
SIMEIZ	31	0719 E	0728 D	0722 U	S16	W58	4093	9 D	1B			1.30		4.30	160	
MEUDON	31	0711 E	0933 D	0717	S34	W09	4125	142 D	2B				21.00			
MOSCOW	31	0723 E	0941 D	0730 U	S30	W06	4125	138 D	2B			15.29		2.30	300	
KRASNYA	31	0726	0811 D	0735 U	N12	E04	4124	45 D	1	2	0735	1.75	.96		91	
NIZMIR	31	0726	0811	0735 U	N12	E04	4124	45	1			1.50			280	
ABASTUMANI	31	0750	0807	0756	N12	E03	4124	17	2-			2.62		2.20	380	
MOSCOW	31	0744 E	1146 D	1031 U	S27	W53	4117	236 D	1B			5.10		2.50	200	
SIMEIZ	31	0748	0839	0749 U	N26	E24	4112	51	2			8.20		2.20	160	
SIMEIZ	31	0752	0815	0756	N27	E61	4124	23	1			2.62		2.15	180	
SIMEIZ	31	0753	0811	0753	N22	E48	4112	18	1B			3.49		2.40	210	
SIMEIZ	31	0758	0804	0801	S26	W38	4117	6	1B			1.30		4.30	210	
SIMEIZ	31	0806	0820 D	0808 U	S24	E88	4117	14 D	1			1.75		3.20	160	
SIMEIZ	31	0810	1339	0955 U	S30	E32	4125	329	3			36.00		3.00	300	

SOLAR FLARES

AUGUST 1957

OBSERVATORY	DATE 1957 AUG	OBSERVED UNIVERSAL TIME START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	McMATH PLAGE REGION	DURATION — MINUTES	IMPORTANCE	OBS. COND.	MEASUREMENTS TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
SIMEIZ	31	0815 E	0851	0815	S16	W90	4093		1&			2.18		4.30		
SIMEIZ	31	0822 E	0852 D	0824 U	N15	E50	4124	10 D	1			1.75		2.60	190	
SIMEIZ	31	0829 E	0909 D	0830 U	S32	W12	4106	40 D	1&			4.36		2.20	130	
SIMEIZ	31	0856	0901	0857	S28	E07	4125	5	1&			1.30		4.30	190	
SIMEIZ	31	0911 E	0930 D	0914 U	N22	E67	4124	19 D	1			2.80		2.26	130	
KRASNYA	31	0915 E	0938 D	0930 U	S27	W51	4117	23 D	1	2	0930	1.27	1.27		77	
NIZMIR	31	0915 E	0939 D	0930 U	S27	W51	4117	24 D	1			1.30			220	
KHARKOV	31	0931 E	1048 D		S37	W11	4125	77 D	1			2.00				
KHARKOV	31	0931 E	1048 D		S27	W56	4117	77 D	1			3.00				
SIMEIZ	31	0951 E	1013 D	1002 U	N23	W80	4112	22 D	1			1.75		2.30	150	
NIZMIR	31	0952	1010 D	0956	N14	E03	4124	18 D	1			1.60			230	
KRASNYA	31	0952	1010 D		N14	E03	4124	18 D	1&	2	0956	.48	2.49		91	
KHARKOV	31	1005 E	1024 D		N13	W05	4124	19 D	1			2.00				
MOSCOW	31	1013 E	1147 D	1031 U	N12	W32	4122	94 D	1&			5.10		2.50	200	
KHARKOV	31	1119 E	1200 D		N11	W34	4122	41 D	1			1.00				
KIEV	31	1056 E	1058 D	1050 U	N09	W03	4124	2 D	1&			1.00			280	
KHARKOV	31	1202 E	1212 D		S31	W09	4125	10 D	1			1.00				
KIEV	31	1239	1313 D	1254 U	S32	W09	4125	34 D	2			8.20			240	
KIEV	31	1302 E	1313 D	1311 U	N25	W04	4124	11 D	3&			11.70			750	
NEDERHORST	31	1306	1405 D		N25	W00	4124	59 D	3	2						S-SWF
KIEV*	31	1314 E	1320 D		N25	W02	4124	6 D	2&			10.60				
NEDERHORST	31	1350	1405 D		N14	W05	4124	15 D	2&	2						
CAPRI G	31	1436 E	1555 D		N25	W02	4124	79 D	1&	3	1438		5.00			
CAPRI G	31	1521	1538	1527	S25	W59	4117	17	1	3	1527		3.00			
CAPRI G	31	1536	1552		N14	W04	4124	16	1	3	1540		4.00			
CAPRI G	31	1547	1555 D		N12	W35	4122	8 D	1	3	1550		3.00			

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

These flare reports are addenda to the August 1957 flares published in CRPL-F 157 part B, September 1957.