

SOLAR FLARES

SEPTEMBER 1958

OBSERVATORY	DATE SEPT 1958	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AR ² A Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
WENDEL	01	1027	1102 D	1037	N12	W55	4715	35 D	16				5.00			
UCCLE	01	1029	1042	1033	S12	E58	4737	13	1	3						
CAPRI-S	01	1032 E	1047 D		N08	E56	4738	15 D	1	1	1035	1.30	2.60			
UCCLE	01	1145	1157 D		N13	W90	4715	12 D	1	3						
CAPRI-S	01	1223 E	1338 D		S08	W18	4722	75 D	1	1	1300	3.00	3.10			
USNRL	01	1223	1414	1247	S06	W20	4722	111	1	2	1247	1.81	1.97	1.00	113	
WENDEL	01	1224	1235		S06	W16	4722	11	1				3.00			
WENDEL	01	1242 E	1345 D	1246	S09	W19	4722	63 D	2				9.00			
STOCKHOLM	01	1245 E			S06	W19	4722		16			4.90	4.90			
HAWAII	01	1824	1846	1828	S12	E90	4741	22	1	2	1828	4.50				S-SWF
NIZAMIAH	02	0257	0305	0259	N14	W23	4725	8	1	3	0259	2.43	2.64	1.70		
UCCLE	02	0928	0944	0938	N19	W88	4715	16	16	3	0938	2.20	4.40			
UCCLE	02	1023	1110	1049	S16	E85	4741	47	2	3	1049	6.80	12.00			
ONDREJOV	02	1040 E	1058		S18	E80	4741	18 D	16	3	1041			5.60		
KANZELHOHE	02	1040 E	1115		S15	E76	4741	35 D	26							
ONDREJOV	02	1221 E	1225		S09	W24	4722	4 D	1	1	1221			2.80		
ONDREJOV	02	1308 E	1324		S08	E85	4741	16 D	1	2	1310			2.20		Slow S-SWF
WENDEL	02	1335 E	1442 D		S14	E85	4741	67 D	16				6.00			
McMATH	02	1341	1426	1346	S16	E85	4741	45	1	2	1353	.98	3.90			
ONDREJOV	02	1343	1400	1345	S17	E78	4741	17	16	3	1345			4.00		
WENDEL	02	1525 E	1637 D		S14	E83	4741	72 D	16				5.00			
McMATH	02	1539	1640 D	1605	N10	W30	4725	61 D	1	2	1605	2.11	2.43		60	
ZURICH	02	1545 E	1554		N15	E88	4743	9 D	1	3	1545			5.00		
McMATH	02	1546	1616	1602	S16	E85	4741	30	1	2	1602	.89	3.57		56	
ONDREJOV	02	1557 E	1608		S13	E70	4741	11 D	1	3	1601			2.30		
OTTAWA	02	1632	1704	1641	S08	W34	4722	32	1	2	1641	1.62	2.06			S-SWF
McMATH	02	1640	1716	1707	S16	E83	4741	36	16	2	1707	1.46	5.85		58	
OTTAWA	02	1645	1725	1704	S14	E73	4741	40	1	2	1704	1.28	5.10			S-SWF
USNRL	02	1704	1813	1709	S15	E76	4741	69	1	2	1709	1.02	3.64	1.00	76	
CLIMAX	02	1707 E	1734	1709	S18	E80	4741	27 D	1		1709	2.30				
McMATH	02	1743	1800 D	1748	N24	W28	4721	17 D	1	2	1748	2.36	2.71		61	
SAC PEAK	02	2000	2025	2005	N14	W29	4725	25	1	2		2.60			20	
CLIMAX	02	2002	2018	2011	N14	W30	4725	16	1		2011	2.50				
McMATH	02	2015	2031	2026	S08	W88	4718	16	1	2	2026	.60	3.28		58	
HAWAII	02	2026 E	2034 D		S11	E90	4741	8 D	1	2	2026	2.50				
SAC PEAK	02	2102	2127 U	2105	S07	E80	4741	25	16	2		2.80			35	
McMATH	02	2102	2131	2105	S07	E85	4741	29	3	2	2105	2.44	14.03		102	S-SWF
HAWAII	02	2103	2126	2106	S11	E90	4741	23	16	3	2106	4.10				
MITAKA	03	0109	0116		N15	E89	4743	7	1	1	0109	1.84		4.60		
UCCLE	03	0823 E			N17	E85	4743		16	4		1.50	4.50			
UCCLE	03	0831	0843	0836	S08	E80	4741	12	16	4	0836	1.70	4.20			
ARCETRI	03	0843 E			S09	E74	4741		1	3	0843	.80	3.40			
LOCARNO	03	0900	1145		S01	E90	4741	165	1	2	1000					
UCCLE	03	1006	1027		N17	E85	4743	21	1	4						
UCCLE	03	1051	1134		N34	W20	4735	43	1	4						
UCCLE	03	1108	1118		S05	W54	4722	10	1	3		2.00	2.20			
LOCARNO	03	1205	1222		S06	W52	4722	17	1	2	1205		.50			
UCCLE	03	1206	1216 D	1208	S04	W55	4722	10 D	1	3	1208	2.70	4.40			
WENDEL	03	1206	1224		S06	W52	4722	18	1				4.00			
ONDREJOV	03	1207 E	1220 D		S05	E69	4741	13 D	16	3	1207			2.50		
ONDREJOV	03	1308 E	1321		S03	W48	4722	13 D	1	3	1311			2.10		

COMMERCE - STANDARDS - BOULDER

SOLAR FLARES

SEPTEMBER 1958

OBSERVATORY	DATE 1958	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	LAT. APPROX.	MER. DIST.	MC MATH PLACE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _o	MAX. INT. %	
SAC PEAK	03	1510	1600	1520	S02	W48	4722	50	1	2		3.20			15	S-SWF
WENDEL	03	1514 E	1546		S03	W48	4722	32 D	16				7.00			
ONDREJOV	03	1521 E	1540		S05	W51	4722	19 D	1	3	1523			2.30		
SAC PEAK	03	1920	1930 D	1930 D	S07	E70	4741	10 D	16	1		4.50			18	Slow S-SWF
HAWAII	03	1926	1954	1932	S09	E70	4741	28	1	3	1932	2.50	7.00			
USNRL	03	1934 E	2002 D		S07	E69	4741	28 D	1	2	1934	1.24	3.64		96	
USNRL	03	1942	2002 D	1945	N16	W42	4725	20 D	1	2	1945	1.36	1.84		117	
ONDREJOV	04	0528 E	0535		S06	E65	4741	7 D	1	3	0529			3.50		S-SWF
NIZAMIAH	04	0532 E	0541		S07	E58	4741	9 D	1	3	0532	2.43	4.86		1.50	
ONDREJOV	04	0600 E	0605		N12	W55	4725	5 D	1	3	0602			2.70		
ONDREJOV	04	0853	0900	0855	N19	E67	4743	7	1	3	0855			2.60		
ARCETRI	04	0945 E	1000 D		N16	E68	4743	15 D	1	3	0945	1.70	4.60			
ARCETRI	04	1021 E	1032 D		N16	E69	4743	11 D	2	3	1021	3.10	8.70			
MEUDON	04	1114	1200		N33	W55	4721	46	1				5.00			
ONDREJOV	04	1121	1144		N25	W50	4721	23	16	3	1124			2.60		
WENDEL	04	1332 E	1349		S12	W51	4722	17 D	1				3.00			
USNRL	04	1401	1617	1419	S16	W52	4722	136	16	2	1419	2.71		2.00	80	
CAPRI-S	04	1404	1523		S13	W55	4722	79	2	3	1426	5.00	9.50			
MEUDON	04	1407	1520		S15	W50	4722	73	16				10.00			
WENDEL	04	*1407	1520 D		S14	W50	4722	73 D	2				10.00			
MC MATH	04	1426 E	1547 D		S13	W53	4722	81 D	1	1	1437	1.22		2.12		
MEUDON	04	1457	1505		N14	W60	4725	8	1				8.00			
MC MATH	04	1459	1505	1501	N11	W62	4725	6	1	1	1500	1.87	3.73		64	
ONDREJOV	04	1502 E	1504 D		N11	W62	4725	2 D	1	3	1503			3.80		
ONDREJOV	04	1540	1543	1540	N19	E64	4743	3	1	3	1540			2.10		
ONDREJOV	04	1559	1631		N07	W12	4742	32	1	3	1601			2.60		
USNRL	04	1959	2054 D	2005	S12	W45	4722	55 D	16	2	2005	2.26	3.42	2.00	108	
HAWAII	04	2002	2036	2010	S10	W44	4722	34	2	3	2010	5.70	8.10			
SAC PEAK	04	2022 E	2037 D	2022 E	S11	W44	4722	15 D	16	1		3.80			14	
ONDREJOV	05	0520 E	0542		S05	E48	4741	22 D	1	3	0526			2.30		S-SWF
ONDREJOV	05	0619	0636	0623	S03	E49	4741	17	2	3	0623			4.80		
CAPRI-S	05	0620 E	0637		S07	E45	4741	17 D	1	3	0629	2.50	3.50			
WENDEL	05	0652 E	0704 D		S11	E45	4741	12 D	1				3.00			
UCCLE	05	0750 E			N15	E60	4743			1						
ONDREJOV	05	0853 E	0856		S08	E44	4741	3 D	1	3	0854			2.90		
ONDREJOV	05	1359	1430	1304	S10	E54	4741	31	16	3	1304			3.10		
CAPRI-S	05	1359	1434		S10	E52	4741	35	1	3	1424	2.50	4.20			
ZURICH	05	1400	1425		S11	E54	4741	25	1	3	1405		5.00			
WENDEL	05	1403 E	1432		S10	E49	4741	29 D	16				7.00			
MEUDON	05	1517	1546 D		N36	W75	4721	29 D	1							
ZURICH	05	1528 E	1537		N35	W87	4721	9 D	1	3	1528		5.00			
LOCARNO	05	1632	1700 D		S09	W65	4722	28 D	1	2	1640		2.00			
CLIMAX	06	0018	0101	0024	S28	E41	4739	43	1		0024	2.20				
LOCARNO	06	0915	0932		S11	E90	4750	17	1	2	0920					
WENDEL	06	0949 E	1003 D		N13	W78	4725	14 D	1				4.00			
UCCLE	06	0955	1013	1000	N20	E88	4744	18	16	2	1000	3.40	6.00			
LOCARNO	06	1020 E	1042		S07	W47	4745	22 D	1	2	1030		2.00			
ZURICH	06	1109	1120		S07	E29	4741	11	1	3	1109		3.00			
UCCLE	06	1111	1122 D	1113	S07	E30	4741	11 D	1	1	1113	2.20				
CAPRI-S	06	1316	1428		S04	E32	4741	72	1	3	1330	1.70	2.00			

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		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _z	MAX. INT. %	
					LAT.	MER. DIST.										
↑ USNRL	06	1318	1432	1323	S07	E28	4741	74	1	2	1323	1.24	1.47	1.00	100	S-SWF
ONDRE JOV	06	1320 E	1332		S06	E29	4741	12 D	1	3	1321			2.30		
LOCARNO	06	1325 E	1420		S06	E29	4741	55 D	16	2	1400		4.00			
SAC PEAK	06	1331 E	1415	1331 E	S06	E27	4741	44 D	1	3		2.10			18	
WENDEL	06	1333 E	1424		S06	E26	4741	51 D	16				6.00			
WENDEL	06	1444	1501 D		N25	E82	4744	17 D	1				3.00			
ONDRE JOV	06	1501 E	1506		S11	W63	4745	5 D	1	3	1504			2.00		
WENDEL	06	1636 E	1700 D		N15	W88	4725	24 D	16				6.00			
MITAKA	06	2350 E	2407		S06	E23	4741	17 D	1	1	2350	3.80	4.30	1.87	120	
MITAKA	07	0100 E	0131		S08	W56	4745	31 D	1	2	0118	.41	.73	2.42	85	
MITAKA	07	0142	0159		N28	W90	4721	17	1	2	0155	1.84		4.92		
MITAKA	07	0147 E	0159	0147	S08	E25	4741	12 D	1	2	0148	1.01	1.18	2.81	165	
MITAKA	07	0613	0618 D		N17	E33	4743	5 D	1	1	0614	1.86	2.38	1.48	85	
MITAKA	07	0624 E	0626		S12	E87	4750	2 D	1	1	0624	.89				
MITAKA	07	0650 E	0659		S10	E17	4741	9 D	1	1	0651	.89	1.00	2.51	107	
WENDEL	07	0650 E	0700		S10	E18	4741	10 D	1				4.00			
ATHENS	07	0930 E	0937 D		S18	E08	4741	7 D	1	3		2.00		2.10		
CAPRI-S	07	0930 E	0947 D		S08	E12	4741	17	1	3	0933	1.80	2.00			
ONDRE JOV	07	0934 E	0939		S08	E17	4741	5 D	1	3	0934			2.20		
WENDEL	07	0936 E	0941 D		S07	E17	4741	5 D	16				6.00			
LOCARNO	07	0940 E	0950		S06	E16	4741	10 D	1	2	0940			2.00		
ZURICH	07	1028	1036		S07	E22	4741	8	1	3	1028			3.00		
WENDEL	07	1030	1038 D		S08	E20	4741	8 D	1				3.00			
ONDRE JOV	07	1031 E	1035		S06	E21	4741	4 D	1	3	1031			2.20		
WENDEL	07	1124	1141 D		N22	E69	4744	17 D	16				5.00			
UCCLE	07	1126 E	1147	1129	N19	E71	4744	21 D	1	3	1129	2.10	4.20			
ONDRE JOV	07	1129	1137		N23	E69	4744	8	1	3	1130			2.00		
CLIMAX	07	1441	1511	1449	N18	E70	4744	30	2		1449	7.40				
USNRL	07	1441	1522	1450	N19	E70	4744	41	26	3	1450	2.37	6.50	2.00	122	
CAPRI-S	07	1447	1515		N19	E73	4744	28	2	3	1445	3.00	7.80			
WENDEL	07	1448 E	1514 D	1450	N20	E69	4744	26 D	36				25.00			
ONDRE JOV	07	1449	1500	1451	N18	E69	4744	11	16	3	1451			6.30		
CAPRI-S	07	1504 E	1523		S16	E11	4741	19 D	1	3	1510	2.20	2.20			
USNRL	07	1504	1525	1507	S07	E15	4741	21	1	3	1507	.90	.97	2.00	119	
ONDRE JOV	07	1505 E	1510 D		S06	E19	4741	5 D	1	3	1505			2.20		
WENDEL	07	1510 E	1514 D		S07	E16	4741	4 D	16				5.00			
ONDRE JOV	07	1533 E	1535 D		S16	E20	4741	2 D	1	3	1533			2.30		
ONDRE JOV	07	1550 E	1554		N19	E41	4743	4 D	1	3	1550			2.00		
CLIMAX	07	1639	1726	1643	S33	E19	4739	47	2		1643	6.80				
HAWAII	07	2138	2150	2140	N16	E69	4744	12	1	2	2140	2.30	5.30			
CLIMAX	07	2148 E	2224 D	2151	N18	E70	4744	36 D	1		2151	2.90				
HAWAII	08	0138	0148 D	0142	N23	E67	4744	10 D	1	1	0142	3.40	7.90			
LOCARNO	08	0924	0945		S17	E03	4741	21	1	2	0930			1.00		
WENDEL	08	0925	0942 D		S17	E04	4741	17 D	1				3.00			
UCCLE	08	0952	1003	0953	S17	E85	4752	11	16	1	0953	3.40	6.00			
UCCLE	08	1124	1130		S17	E83	4752	6	1	2		2.20	4.00			
UCCLE	08	1146	1148 D		S17	E83	4752	2 D	1	3		2.20	4.40			
STOCKHOLM	08	1151 E	1212 D		S08	E03	4741	21 D	1			1.90		1.90		
LOCARNO	08	1310	1345		S07	W00	4741	35	1	2	1320		3.00			
LOCARNO	08	1320	1335		S08	E72	4750	15	16	2	1330					
USNRL	08	1322	1342	1325	S18	E72	4752	20	1	3	1325	1.02	3.64		79	

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		START	END	MAX. PHASE	LAT. APPROX.	MER. DIST.	MC-MATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
LOCARNO	08	1337	1350		S14	W10	4741	13	1	2	1340		2.00			
LOCARNO	08	1435	1505		N22	E50	4744	30	16	2	1500		3.00			
LOCARNO	08	1520	1600		N18	E51	4744	40	1	2	1530		2.00			
USNRL	08	1713	1843	1727	N25	E57	4744	30	1	3	1727	2.71	4.39	1.00	85	
SAC PEAK	08	1720 E	1732 D	1728 U	N24	E56	4744	12 D	16	1		3.20			16	
MC-MATH	08	1724	1732	1727	N28	E60	4744	8	1	1	1727	1.95	3.41		57	
WENDEL	09	0937 E	0940 D		S08	W13	4741	3 D	16				6.00			
WENDEL	09	1042 E	1117 D		N17	E02	4743	35 D	1				3.00			
LOCARNO	09	1045 E	1200		N17	E01	4743	75 D	16	2	1130		3.00			
ONDREJOV	09	1051 E	1102		N16	E01	4743	11 D	1	3	1052			2.30		
ZURICH	09	1053 E	1115 D		N16	E04	4743	22 D	1	1	1053		3.00			
WENDEL	09	1137 E	1200 D		N17	E02	4743	23 D	1				4.00			
UCCLE	09	1149 E	1215		N16	E03	4743	26 D	2	2		6.00				
WENDEL	09	1145	1200 D		N18	E41	4744	15 D	1				3.00			
LOCARNO	09	1146	1202		N20	E40	4744	16	1	2	1200		2.00			
ONDREJOV	09	1147 E	1158		N19	E42	4744	11 D	1	2	1150			2.60		
UCCLE	09	1149 E	1154		N18	E42	4744	5 D	1	2		1.70	2.10			
UCCLE	09	1212			S07	W09	4741		1	2						
ONDREJOV	09	1212 E	1222		S09	W01	4741	10 D	1	3	1215			2.30		
LOCARNO	09	1212	1235		S07	W02	4741	23	1	2	1230		3.00			
UCCLE	09	1215			S09	W02	4741		1	2						
USNRL	09	1343	1530	1354	S17	W19	4739	107	1	2	1354	1.82	2.16	1.00	84	
USNRL	09			1408	S17	W19	4739	107	1	2	1408	3.28	3.92		88	
SAC PEAK	09	1345	1452	1407	S16	W19	4739	67	2	2		6.70			17	
LOCARNO	09	1345 E	1545		S06	W12	4739	120 D	2	2	1430		5.00			
CLIMAX	09	1401 E	1503		S16	W18	4739	62 D	2		1403	8.20				
WENDEL	09	1425 E	1510 D		S12	W17	4739	45 D	36				48.00			
ONDREJOV	09	1513 E	1524		N19	E40	4744	11 D	1	3	1514			2.20		
HAWAII	09	2214	2227 D		S06	W23	4741	13 D	16	2	2224	4.70	5.20			
SYDNEY	09	2350	0110	0010	S13	W10	4741	80	2							Slow S-SWF
HAWAII	10	0019 E	0044 D	0022	S14	W09	4739	25 D	2	2	0022	7.10	7.80			
ATHENS	10	0558 E	0607		N17	E29	4744	9	1	3		2.30	2.70			
MITAKA	10	0603 E	0606		N18	E30	4744	3 D	1	1	0603	2.78	3.34	3.23	143	
UCCLE	10	0906	0935	0910	S08	W25	4741	29	16	3	0910	3.40				
UCCLE	10	1005	1038	1014	S08	W25	4741	33	16	3	1014	3.40				
STOCKHOLM	10	1005 E	1042 D		S10	W27	4741	37 D	16			4.00	4.00			S-SWF
LOCARNO	10	1010	1042		S07	W26	4741	32	16	2	1030		2.00			
CAPRI-S	10	1013 E	1032 D		S07	W26	4741	19 D	1	2	1018	2.30	2.50			
MC-MATH	10	1206	1228	1217	S30	E75	4755	22	2	2	1217	2.27	7.96		52	
SAC PEAK	10	1545	1705	1607	S31	E70	4755	80	1	2		2.90			15	
LOCARNO	10	1555 E	1700		S30	E62	4755	65 D	1	2	1600		4.00			
USNRL	10	1603	1731 D	1604	S32	E70	4755	88 D	1	1	1604	.56	2.32	1.00	72	G-SWF
USNRL	10			1654	S32	E70	4755	88 D	1		1654	.90	3.74		55	
MC-MATH	10	1633 E	1655 D		S32	E70	4755	22 D	1	1	1633	1.06	3.54			
MITAKA	11	0511 E	0532	0517	S07	W39	4741	21 D	16	1	0511	5.67	7.06	2.62	128	S-SWF
MITAKA	11	0533 E	0545 D		S08	W36	4741	12 D	1	1	0533	1.84	2.30	1.42	102	
MITAKA	11	0520 E	0546		N11	E47	4748	26 D	16	1	0520	5.67	8.05	1.93	134	
MITAKA	11	0536	0550 D		S13	E87	4757	14 D	1	1	0547	1.84		2.04		
ZURICH	11	0824 E	0837 D		S07	W34	4741	13 D	1	2	0824		1.00			
ARCETRI	11	0844 E			N16	E80	4756		1	4	0844	.80	4.60			

COMMERCE - STANDARDS - BOULDER

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OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	MC-MATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
MEUDON	11	0914 E	0920		S08	W45	4741	6 D	1							
CAPRI-S	11	0914 E	0925 D		S08	W37	4741	11 D	1	1	0914	1.70	2.20			
ZURICH	11	*0914 E	0925		S07	W40	4741	11 D	16	2	0914		3.00			
UCCLE	11	0929 E	1000		N21	W20	4743	31 D	1	2						
ZURICH	11	0933	0957		N20	W19	4743	24	1	2	0933		3.00			
ARCETRI	11	0930 E	0941 D		N12	E90	4756	11 D	1	3						
UCCLE	11	1008 E	1024		N10	W50	4740	16 D	1	2						
UCCLE	11	1031	1050	1031	S11	W38	4739	19	1	2						
LOCARNO	11	1213	1258		S07	W43	4741	45	16	2	1230		5.00			
USNRL	11	1213	1329	1215	S08	W40	4741	76	1	2	1215	1.02	1.25		131	
MC-MATH	11	1213	1338	1216	S08	W42	4741	85	1	1	1216	2.27	3.09		77	
CAPRI-S	11	1214 E	1324 D		S09	W39	4741	70 D	1	1	1240	3.00	3.90			
STOCKHOLM	11	1217 E	1246 D		S09	W40	4741	29 D	16		1220	2.70	3.50			
STOCKHOLM	11	1215 E	1236 D		N22	W19	4743	21 D	1		1217	2.00	2.20			
LOCARNO	11	1225	1237		N21	W21	4743	12	1	2	1230		1.00			
MC-MATH	11	1242	1300 D		S18	W37	4739	18 D	1	1	1250	2.43	3.53		64	
LOCARNO	11	1243	1303		S16	W34	4739	20	1	2	1300		1.00			
MC-MATH	11	1315 E	1345		S34	E65	4755	30 D	2	1	1325	2.27	6.64		54	
USNRL	11	1319	1351	1323	S33	E62	4755	32	1	3	1323	1.13	3.32	1.00	70	
USNRL	11	1733 E	1757 D		S33	E62	4755	24 D	1	1	1737	1.02	2.94		65	Slow S-SWF
MC-MATH	11	1740	1837	1808	S08	W42	4741	57	1	1	1811	1.71	2.39		79	
USNRL	11	1757 E	1920		S08	W40	4741	83 D	1	2	1816	1.24	1.69	2.00	118	
HAWAII	11	2038	2044	2040	S12	W47	4739	6	1	3	2040	2.40	4.00			
HAWAII	11	2324	2330 D	2326	N20	E16	4744	6 D	1	3	2326	2.90	3.20			
ATHENS	12	0658	0735	0700	S14	E64	4757	37	26	3		5.30	12.30			
LOCARNO	12	0700	0735		S11	E64	4757	35	1	2	0730		4.00			S-SWF
CAPRI-S	12	0702 E	0730 D		S11	E68	4757	28 D	26	1	0706	4.00	11.00			
SCHAUINS	12	0702 E	0738 D		S13	E67	4757	36 D	2							
UCCLE	12	0812 E	0854		S08	W54	4741	42 D	1	3		2.20				
CAPRI-S	12	0815 E	0946 D		S07	W54	4741	91 D	2	1	0929	4.00	6.80			
UCCLE	12	0815	0827		S16	W48	4739	12	1	3		2.20				
ONDREJOV	12	0831	0845 D		S05	W58	4741	14 D	1	2	0835			2.60		
UCCLE	12	0851	0900	0855	N20	E04	4744	9	1	3	0855	2.20				
LOCARNO	12	0900	0930		S07	W54	4741	30	1	2	0920		2.50			S-SWF
ZURICH	12	0903 E	0926		S08	W54	4741	23 D	1	2	0903		4.00			
R O HERST	12	0905	0945	0912	N17	E66	4756	40	16	3	0912	1.20	2.90	5.60	120	
UCCLE	12	0907	0941	0912	N15	E70	4756	34	2	3	0912	4.50	6.00			
ONDREJOV	12	0908 E	0914 D		N16	E74	4756	6 D	1	2	0913			3.90		
NIZAMIAH	12	0908 E	0927 D	0914	N14	E49	4756	19 D	1	2	0914	1.82	2.77			
CAPRI-S	12	0908 E	0950 D		N16	E65	4756	42 D	3	1	0916	6.00	14.00		2.30	
STOCKHOLM	12	0910 E			N15	E61	4756		2		0912	4.10	9.00			
SCHAUINS	12	0919 E	0956		N16	E63	4756	37 D	2							
MEUDON	12	0922 E	0935		N15	E65	4756	13 D	1							
LOCARNO	12	0925 E	1000		N16	E64	4756	35 D	16	2	0930		4.00			
ZURICH	12	0927	1003		N15	E63	4756	36	16	2	0927		4.00			
UCCLE	12	0911	0925	0914	S09	W52	4741	14	1	2	0914	2.10				
LOCARNO	12	1036	1110		S35	E55	4755	34	1	2	1100		2.50			
WENDEL	12	1036 E	1122 D		S36	E58	4755	46 D	2				8.00			
CAPRI-S	12	1038	1120 D		S37	E61	4755	42 D	16	1	1043	1.80	4.70			
UCCLE	12	1039	1106	1041	S36	E60	4755	27	16	2	1041	3.40				
STOCKHOLM	12	1043 E	1112 D		S33	E55	4755	29 D	1		1048	1.40	3.70			
MC-MATH	12	1335	1405	1341	S10	E28	4752	30	1	1	1341	2.76	3.31		61	

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OBSERVATORY	DATE	OBSERVED			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		UNIVERSAL TIME			APPROX.		M-MATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _e	MAX. INT. %	
		START	END	MAX. PHASE	LAT.	MER. DIST.										
	SEPT 1958															
↑ WENDEL MCMATH MCMATH CAPRI-S MCMATH WENDEL USNRL MCMATH CLIMAX MCMATH	12	1343 E	1411 D		S09	E27	4752	28 D	1				3.00			
	12	1430	1443	1436	S10	E28	4752	13	1		1436	2.11	2.53		65	
	12	1547	1600 D	1551	S31	E51	4755	13 D	1	1	1551	1.30	2.60		60	
	12	1548 E	1558 D		S34	E52	4755	10 D	2	1	1557	3.00	6.00			
	12	1605	1630	1613	S31	E51	4755	25	16	1	1613	2.76	5.52		60	S-SWF
	12	1615 E	1618 D		S34	E49	4755	3 D	16				7.00			
	12	1656	1856		S33	E55	4755	120	1	1	1711	.90	2.30		75	
	12	1704	1835	1721	S33	E55	4755	91	2	1	1721	2.92	6.93		69	S-SWF
	12	1707	1742	1724	S35	E56	4755	35	1		1724	2.80				
	12	1800	1821	1810	S17	E77	4759	21	1	1	1810	.97	3.41		59	
MITAKA MITAKA NIZAMIAH NIZAMIAH ONDREJOV ONDREJOV UCCLE WENDEL UCCLE KANZELHOE ARCETRI ONDREJOV WENDEL UCCLE UCCLE ZURICH CAPRI-S SCHAUINS UCCLE UCCLE UCCLE WENDEL CAPRI-S ZURICH ONDREJOV UCCLE UCCLE WENDEL MCMATH ONDREJOV WENDEL WENDEL UCCLE WENDEL MCMATH LOCARNO WENDEL ONDREJOV WENDEL MCMATH MCMATH	13	0017 E	0053		S08	W64	4741	36 D	1	1	0027	1.34	2.79	3.03	149	Slow S-SWF
	13	0320	0338	0324	S29	E41	4755	18	1	1	0329	1.84	3.28	1.86	134	
	13	0328	0338	0332	S13	E41	4752	10	1	3	0332	2.13	3.60	1.80		
	13	0546 E	0551 D		S12	W61	4739	5 D	16	2	0546	1.22	2.75	1.80		
	13	0552 E	0602		S16	W64	4739	10 D	1	3	0554			2.70		
	13	0606 E	0620		S20	E65	4759	14 D	16	3	0607			2.90		
	13	0835	0858	0838	S31	E39	4755	23	16	4	0838	2.50	3.70			
	13	0840 E	0910 D		S30	E39	4755	30 D	1				3.00			
	13	0904	0942	0919	S06	W54	4741	38	26	4	0919	7.00	11.00			
	13	0905	0950		S10	W55	4741	45	2							
	13	0910 E	0935 D		S10	W58	4741	25 D	1	4	0933	2.70	4.86			
	13	0910	0948	0918	S10	W62	4741	38	2	3	0918			3.10		
	13	0911	1050 D	0915	S10	W57	4741	99 D	3				24.00			
	13	0912	0928	0919	S12	W52	4741	16	1	4	0919	3.00	4.50			
	13	0913	0955	0919	S08	W60	4741	22	26	4	0919	6.00	11.00			
	13	0917 E	1000		S10	W57	4741	43 D	2	3	0917		10.00			
	13	0917	1020 D		S12	W57	4741	63 D	2	1	0944	4.00	8.00			
	13	0919 E	0942 D		S10	W61	4741	23 D	2							
	13	0911	0915	0913	S33	E40	4755	4	1	4						
	13	0923	1110 D	0959	S33	E40	4755	107 D	1	4						
	13			1011	S33	E40	4755		26	4	1011	5.00	7.50			
	13	0958 E	1100 D		S28	E36	4755	62 D	2							
	13	1005 E	1104 D		S33	E36	4755	59 D	1	1	1028	3.00	4.80			
	13	1007	1040 D		S30	E37	4755	33 D	16	3	1007		5.00			
	13	1013 E	1059 D		S30	E33	4755	46 D	16	2	1017			2.30		
	13	0946	1009	0959	S13	E18	4750	23	1	4						
	13	1116	1130		N21	W54	4743	14	1	4		3.00	4.00			
	13	1132 E	1153 D		S13	W50	4739	21 D	1				3.00			
	13	1135	1143	1137	N12	W82	4740	8	1	4						
	13	1333	1400		S13	E48	4757	27	1					3.00		
13	1334	1400	1345	S13	E50	4757	26	1	1	1345	1.30	2.60		68		
13	1345 E	1353 D		S17	E51	4757	8 D	1	2	1347			2.10			
13	1348	1412 D		S10	W66	4741	24 D	1				4.00				
13	1426	1529 D		S08	W69	4741	63 D	16				7.00				
13	1439 E	1453		S09	W76	4741	14 D	1	3	1440			3.00		G-SWF	
13	1439 E	1528 D		S08	W62	4741	49 D	1	3	1513	1.20	4.00				
13	1450 E	1620		S07	W69	4741	90 D	1	1	1600		2.00				
13	1444	1501 D		N13	E57	4756	17 D	1				4.00				
13	1448 E	1458		N13	E59	4756	10 D	1	3	1450			2.70			
13	1602 E	1612 D		S05	W77	4741	10 D	1					3.00			
13	1704 E	1740	1720	N13	E57	4756	36 D	1	2	1720	1.47	2.50		72		
13	1935	2030	1943	S16	E53	4759	55	16	2	1943	2.44	4.00		76		

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OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		McMATH FLARE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
	SEPT 1958															
MCMATH	13	2010	2050	2030	N17	E58	4756	40	1	2	2030	2.10	3.67		63	
MCMATH	13	2110	2130 D	2119	S17	E60	4759	20 D	1	1	2119	2.43	4.86		61	
MCMATH	13	2151	2215	2201	N27	W11	4744	24	1	1	2201	2.28	2.46		84	
HAWAII	13	2154	2216	2200	N29	W09	4744	22	1	2	2200	3.10	3.40			
MITAKA	14	0504	0512	0505	N17	E36	4756	8	1	1	0504	.89	1.11	2.44	134	
WENDEL	14	0720 E			S18	E65	4765		2				8.00			
WENDEL	14	0830	0937 D		S10	W71	4741	67 D	2				15.00			
ONDREJOV	14	0831 E	0843	0836	S11	W75	4741	12 D	2	3	0836			7.10		
CAPRI-S	14	0832 E	0853 D		S15	W78	4741	21 D	26	3	0835	3.00	11.00			
KANZELHOHE	14	0832 E	0935		S10	W74	4741	63	36							
SCHAUINS	14	0832 E	1022 D		S10	W75	4741	110 D	2							
CAPRI-S	14	0853 E	1002 D		S15	W85	4741	9 D	26	3	0901	2.00	9.00			Slow S-SWF
ONDREJOV	14	0856 E	0951	0900	S09	W80	4741	55 D	26	3	0900			8.00		
MEUDON	14	0858 E	0956		S10	W80	4741	58 D	16							
LOCARNO	14	0900 E	1030		S07	W70	4741	90 D	2	2	1000		20.00			
WENDEL	14	1215 E	1228 D		S15	E65	4765	13 D	1				4.00			
ONDREJOV	14	1223 E	1228		S16	E68	4765	5 D	1	3	1224			2.90		
ONDREJOV	14	1331 E	1344		S19	E64	4765	13 D	1	3	1334			2.60		
WENDEL	14	1333	1358 D		S17	E63	4765	25 D	1				4.00			
MCMATH	14	1613	1700 D	1625	S11	W07	4750	47 D	1	2	1625	2.60	2.76		68	
WENDEL	14	1615 E	1635 D		S11	W04	4750	20 D	2				8.00			
SAC PEAK	14	2050	2142	2105	S10	W12	4750	52	1	2		2.40			14	
SAC PEAK	14	2320	2345 D	2332	N15	E31	4756	25 D	16	2		4.30			22	
HAWAII	14	2324	2356	2330	N13	E30	4756	32	1	2	2330	3.30	3.80			S-SWF
CLIMAX	14	2325	2348 D	2335	N15	E31	4756	23 D	1		2335	2.50				
MITAKA	15	0355	0403		N21	W29	4744	8	1	1	0359	1.84	2.17	1.87	107	
MITAKA	15	0406	0431		S17	E53	4765	25	2	1	0426	7.63	12.60	2.22	120	
MITAKA	15	0538	0610	0559	S14	E58	4765	32	1	1	0602	1.34	2.62	1.65	149	
MITAKA	15	0555 E	0600		N14	E30	4756	5 D	1	1	0555	.89	1.06	1.30	107	
CAPRI-S	15	0624	0659 D		N15	E27	4756	35 D	1	3	0647	2.50	3.00			
MITAKA	15	0625	0658	0641	N16	E23	4756	33	26	1	0643	11.50	13.00	1.65	192	
ONDREJOV	15	0626 E	0654		N14	E28	4756	28 D	1	3	0640			2.40		
LOCARNO	15	0630 E	0700		N17	E25	4756	30 D	1	2	0700		1.50			
WENDEL	15	0630 E	0701 D		N15	E27	4756	31 D	2				11.00			
WENDEL	15	0647 E	0650		S19	E56	4765	3 D	1				3.00			
MITAKA	15	0657	0706		S16	E55	4765	9	1	1	0700	.67	1.22	2.10	120	
WENDEL	15	0827 E	1036 D	0940	S18	E53	4765	129 D	2				12.00			
ZURICH	15	0832	0901		S17	E50	4765	29	16	2	0832		5.00			S-SWF
UCCLE	15	0844 E			S21	E52	4765		1	2						
ONDREJOV	15	0937	1033	0957	S19	E51	4765	56	16	3	0957			2.90		
CAPRI-S	15	0937 E	1044 D		S19	E50	4765	67 D	1	3	1022	3.00	4.80			S-SWF
ZURICH	15	1016 E	1040 D		S17	E49	4765	24 D	16	2	1016		6.00			
WENDEL	15	1149	1209 D		S09	W48	4749	20 D	1				3.00			
LOCARNO	15	1150	1400 D		S09	W47	4749	130 D	1	2	1400		.50			
WENDEL	15	1208	1242 D		S12	W32	4750	34 D	1				3.00			
WENDEL	15	1219 E	1322 D		S20	E50	4765	63 D	1				4.00			
MCMATH	15	1318	1405	1320	S18	E56	4765	47	1	2	1320	2.11	4.22		63	
WENDEL	15	1330 E	1347 D		S18	E56	4765	17 D	1				3.00			
WENDEL	15	1340 E	1420 D		S09	W49	4749	40 D	16				5.00			
SAC PEAK	15	1435	1505	1440	S19	E48	4765	30	1	2		3.50			18	
CLIMAX	15	*1435	1505	1443	S22	E50	4765	30	1		1443	4.00				

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OBSERVATORY	DATE SEPT 1958	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT	
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MR. DIST.											
MCMATH WENDEL CAPRI-S ONDREJOV OTTAWA WENDEL SAC PEAK WENDEL CLIMAX OTTAWA ONDREJOV MCMATH WENDEL SAC PEAK USNRL MCMATH OTTAWA USNRL SAC PEAK HAWAII HAWAII	15	1435	1507	1440	S20	E50	4765	32	2	2	1440	3.40	5.94		75	Slow S-SWF	
	15	1436	1458		S19	E50	4765	22	2				11.00				
	15	1438	E 1456	D	S21	E50	4765	18	D 1	3	1443	2.20	3.50				
	15	1441	E 1458		S20	E46	4765	17	D 1	3	1443			3.20			
	15	1453	E 1506	1455	S19	E47	4765	13	D 1	2	1455	1.39	2.39				
	15	1444	E 1503	D	S09	W50	4749	19	D 16				5.00				
	15	1510	1525	1517	S18	E51	4765	15	1	2		2.70			18		
	15	1512	E 1522		S19	E53	4765	10	D 1				4.00				
	15	1512	1523	1518	S19	E52	4765	11	1		1518	2.50					
	15	*1512	1523	1517	S17	E51	4765	11	16	3	1517	1.51	2.77				
	15	1517	E 1521		S17	E50	4765	4	D 1	3	1517			2.90			
	15	1612	1645	D	N22	E32	4760	33	D 2	2	1630	6.50	7.80				
	15	1624	E 1634		S18	E48	4765	10	D 1				3.00				
	15	1650	1800	U 1702	S20	E48	4765	70	2	2		8.30			28		S-SWF
	15	1658	1800	1710	S21	E48	4765	68	16	3	1710	2.82	4.85	2.00	118		
	15	1702	E 1750	D	S20	E48	4765	48	D 26	1	1705	7.00	12.15		68		
	15	1707	E 1730	D 1710	S19	E46	4765	23	D 26	4	1710	6.38	10.57				
	15	1933	2000	1941	S18	E47	4765	27	1	3	1941	1.13	1.85	1.00	109		Slow S-SWF
	15	1957	D 2040	D 2020	E S19	E44	4765	43	D 1	1		2.60			19		
	15	2012	E 2036	2017	S23	E45	4765	24	D 1	2	2017	3.30	5.50				
15	2208	2220	2212	S23	E45	4765	12	1	2	2212	2.00	3.30					
ONDREJOV WENDEL ATHENS ONDREJOV ONDREJOV CAPRI-S UCCLE WENDEL ONDREJOV CLIMAX WENDEL SAC PEAK USNRL CAPRI-S SAC PEAK CLIMAX HAWAII	16	0608	0626	0615	N15	E15	4756	18	1	3	0615			2.40		Slow S-SWF	
	16	0732	0814	D	S16	E43	4765	42	D 2				10.00				
	16	0734	0753		S15	E43	4765	19	1	3		2.70	3.90				
	16	0744	0749		S16	E41	4765	5	1	3	0745			2.60			
	16	1057	1153		N22	E47	4764	56	16	3	1117			3.30			
	16	1100	1202		N23	E50	4764	62	1	3	1105	3.00	4.50				
	16	1103	E 1108	D 1103	N22	E51	4764	5	D 16	2	1103	4.50					
	16	1116	E 1210		N23	E52	4764	54	D 26				15.00				
	16	1312	E 1328	D	S17	E34	4765	16	D 1	2	1313			2.40			
	16	1443	1547	1458	S26	E38	4765	64	2		1458	5.80					
	16	1444	1527	D	S24	E40	4765	43	D 3				24.00				
	16	1445	1545	1507	S23	E36	4765	60	2	2		10.40			25		
	16	1446	1624	1504	S23	E33	4765	98	16	1	1504	2.60	3.64	2.00	114		
	16	1447	1542		S19	E37	4765	55	2	1	1506	5.50	8.00				
	16	2227	2320	2255	S19	E40	4765	53	1	1		2.10			17		
	16	2248	2323	2257	S18	E40	4765	35	1		2257	2.30					
	16	2250	2312	2256	S22	E38	4765	22	1	2	2256	2.80	3.90				
	CAPRI-S ARCETRI ONDREJOV ONDREJOV USNRL UCCLE CAPRI-S USNRL CLIMAX USNRL CLIMAX SAC PEAK	17	0837	1252		S18	E35	4765	255	2	2	1155	8.00	11.20			
17		0932	E 0954	D	S19	E30	4765	22	D 2	3	0932	3.90	5.30				
17		1121	1125	D	S19	E39	4765	4	D 16	2	1128			2.30			
17		1132	E 1133	D	S18	E27	4765	1	D 1	1	1132			2.40			
17		1218	E 1401		S17	E37	4765	103	D 2	1	1224	4.86	6.80		84		
17		1458	E 1509	D	S17	E36	4765	11	D 1	2		5.00					
17		1525	E 1600	D	S22	E26	4765	35	D 1	3	1550	1.80	2.00				
17		1928	1958	1930	N17	W04	4756	30	1	2	1930	1.02	1.03	1.00	103		
17		1939	2005	1947	S10	W43	4750	26	1		1947	2.40					
17		1940	2013	D 1944	S10	W45	4750	33	D 16	2	1944	1.81	2.74	1.00	111		
17		2135	2242	2148	N24	E37	4764	67	1		2148	2.60					
17		2142	2205	2150	N23	E33	4764	23	1	1		3.10			17		
NIZAMIAH	18	0350	0444	0412	S15	E11	4765	54	2	3	0412	5.47	6.05	2.40		S-SWF	

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OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT	
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.											
	SEPT 1958																
MITAKA CAPRI-S ATHENS R O HERST LOCARNO CAPRI-S SAC PEAK CAPRI-S USNRL UCCLE SAC PEAK USNRL USNRL	18	0354 E	0544	0415	S13	E14	4765	110 D	16		1	0356	4.23	4.61	2.33	165	Slow S-SWF
	18	0730	0938		S10	W48	4750	128	3		3	0832	7.00	12.60			
	18	0804	0846 D		S10	W55	4750	42 D	2		3		3.80	6.60			
	18	0812 E	0830 D	0817	S11	W55	4750	18 D	1		1	0817	1.20	2.40			
	18	0820 E	0920		S08	W43	4750	60 D	2		2	0900		12.00			
	18	1015 E	1045 D		S33	W18	4755	30 D	1		3	1023	1.80	2.50			
	18	1455	1520	1500	N23	E20	4764	25	1		2		2.60			17	
	18	1459 E	1526 D		N23	E24	4764	27 D	1		2	1501	2.50	3.00			
	18	1500 E	1610		N23	E20	4764	70 D	1		1	1500	1.02	1.11	1.00	102	
	18	1503 E	1529	1505	N22	E20	4764	26 D	1		1	1505	2.20				
	18	1647	1735	1705	S16	E08	4765	48	16		2		4.50			17	
	18	1657	1717	1703	S15	E11	4765	20	1		3	1703	1.02	1.11		108	
	18	1850	1917		S15	E11	4765	27	1		2	1851	1.02	1.12		143	
MITAKA WENDEL CAPRI-S UCCLE ARCETRI CAPRI-S MCMATH WENDEL WENDEL CLIMAX WENDEL SAC PEAK USNRL CAPRI-S WENDEL CLIMAX USNRL	19	0115 E	0123		S21	E05	4765	8 D	16		2	0116	2.31	2.63	2.35	217	Slow S-SWF
	19	0744	0753	0746	N15	W38	4756	9	16					6.00			
	19	0744	0833		N16	W26	4756	49	1		3	0825	4.00	5.00			
	19	0812	0830		N15	W28	4756	18	1		3		3.00	3.30			
	19	0824 E	0836 D		N11	W21	4756	12 D	1		4	0824	2.80	3.10			
	19	1106 E	1122 D		S20	E06	4765	16 D	1		3	1109	2.00	2.10			
	19	1335	1410	1350	N21	E09	4764	35	1		1	1350	2.27	2.41			
	19	1339 E	1403 D		S23	E03	4765	24 D	16					6.00			
	19	1405	1412 D		S15	E04	4765	7 D	1					3.00			
	19	1542	1608	1556	N18	W28	4756	26	1			1556	3.10				
	19	1545	1615 D		N14	W26	4756	30 D	16					6.00			
	19	1545	1625	1552	N16	W27	4756	40	1		2		2.10			17	
	19	1546	1628	1554	N16	W27	4756	42	1		2	1554	1.70	1.91	1.00	106	
CAPRI-S WENDEL CLIMAX USNRL MITAKA MITAKA WENDEL WENDEL UCCLE UCCLE WENDEL ONDREJOV WENDEL MCMATH SAC PEAK MCMATH	19	1547	1610 D		N17	W28	4756	23 D	1		3	1600	3.00	3.60			
	19	1550 E	1619 D		S15	E03	4765	29 D	16					5.00			
	19	1556	1618	1606	S17	W03	4765	22	1			1606	3.30				
	19	1559	1627	1601	S16	W04	4765	28	1		2	1601	.90	.99		124	
	20	0136 E	0157 D		N12	E35	4768	21 D	1		1	0153	1.84	2.32	1.48	115	Slow S-SWF
	20	0242 E	0303	0242	S22	W09	4765	21 D	2		1	0242	9.43	10.80	2.51	183	
	20	0718 E	0754		N13	E36	4768	36 D	1					4.00			
	20	0728	0802 D		S16	W07	4765	34 D	1					3.00			
	20	0949	1003 D		S15	W08	4765	14 D	16					5.00			
	20	1040	1047	1043	S16	W11	4765	7	16		2	1043	3.40				
	20	1129	1136	1131	N15	W50	4756	7	1		3	1131	2.20				
	20	1533	1542 D		S15	W20	4765	9 D	1					3.00			
	20	1536 E	1542 D		S16	W19	4765	6 D	1		2	1537			2.20		
20	1604 E	1618 D		N13	E30	4768	14 D	1					3.00				
20	1911	1930 D	1917	N22	W05	4764	19 D	16		1	1918	3.90	4.08				
20	2025	2100	2037	S17	W14	4765	35	1		2		3.50			15		
20	2032 E	2100 D		S17	W20	4765	28 D	1		1	2039	2.76	3.18				
MITAKA MITAKA MITAKA CAPRI-S CLIMAX SAC PEAK CAPRI-S	21	0100 E	0106		N20	W15	4764	6 D	1		1	0100	1.34	1.42	1.24	87	G-SWF
	21	0108 E	0112		N16	W46	4756	4 D	1		1	0108	.89	1.42	1.08	91	
	21	0130 E	0135		S06	E85	4771	5 D	1		1	0133	2.31		1.46	89	
	21	1029	1102		N21	W19	4764	33	1		3	1046	2.20	2.30			
	21	1335 E	1409	1346	S16	W39	4765	34	1			1346	2.50				
	21	1357 E	1410	1357 E	S17	W40	4759	13 D	1		2		2.20			15	
	21	1537 E	1555		N22	W22	4764	18 D	1		3	1538	2.00	2.10			

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OBSERVATORY	DATE SEPT 1958	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
CAPRI-S	22	0650	0907 D		N24	W28	4764	137 D	2	1	0731	6.00	6.80		S-SWF	
CAPRI-S	22	0741 E	0907 D		S17	W42	4765	86 D	26	1	0816	10.00	16.00			
ATHENS	22	0743	0808		S12	W41	4765	25	16	3		3.00	4.50			
TASHKENT	22	0744 E	0820		S18	W43	4765	36 D	16							
KHARKOV	22	0751 E	0832		S20	W40	4765	41 D	2							
KHARKOV	22	0751 E	0904		S17	W46	4765	73 D	2							
MEUDON	22	0816 E	0839 D		S19	W44	4765	23 D	16							
UCCLE	22	1007 E	1035		N22	W35	4764	28 D	1	2		2.20				
UCCLE	22	1014	1035	1016	N18	W65	4756	21	16	2	1016	2.20	2.70			
CAPRI-S	22	1016 E	1030		N16	W66	4756	14 D	2	2	1017	4.00	9.20			
MCMATH	22	1402	1420	1406	N20	W32	4764	18	1	2	1406	1.79	2.18	76		
CAPRI-S	22	1403 E	1420 D		N23	W31	4764	17 D	1	3	1414	2.40	2.80			
OTTAWA	22	1404	1431	1407	N20	W33	4764	27	1	3	1407	2.09	2.55			
MCMATH	22	2100	2127 D	2118	N22	W36	4764	27 D	1	1	2118	3.23	4.04	65		
NEDERHORST	23	1027 E	1050 D		N15	W44	4764	23 D	2						S-SWF	
CAPRI-S	23	1024	1054		S20	W42	4765	30	2	3	1035	4.00	7.20			
UCCLE	23	1029	1052	1035	S20	W50	4765	23	26	2	1035	8.00	12.00			
MCMATH	23	1334	1500 D	1400	N23	W45	4764	86 D	16	2	1400	2.91	4.12	69		
WENDEL	23	1340 E	1419 D		N22	W41	4764	39 D	16				5.00			
CAPRI-S	23	1343 E	1420 D		N23	W39	4764	37 D	1	3	1350	2.00	2.80			
ZURICH	23	1345 E	1400 D		S23	W44	4764	15 D	2	2	1345		7.00			
CAPRI-S	24	0948 E	1007 D		S15	W60	4765	19 D	1	3	0950	1.60	3.70		S-SWF	
MEUDON	24	0954	1010		S15	W53	4765	16	1				2.00			
CAPRI-S	24	0955 E	1011 D		S17	E51	4776	16 D	1	3	0958	1.60	2.90			
STOCKHOLM	24	0957 E	1010 D		S20	E48	4776	13 D	1		1000	2.30	4.30			
CAPRI-S	24	1449	1453		S04	E25	4771	4	1	3	1449	1.50	1.80			
SAC PEAK	24	1932	2347 D	2002	N22	W63	4764	255 D	1	2		4.10		16		
MCMATH	24	2041 E	2138 D		N22	W64	4764	57 D	26	1	2048	4.38	9.64	70		
WENDEL	25	0815 E	1014 D		S18	W65	4765	119 D	2				10.00			
LOCARNO	25	0840 E	1010		S14	W66	4765	90 D	2	3	0930		16.00			
UCCLE	25	0906	0921		S14	W80	4765	15	1	2						
UCCLE	25	0906	0943	0943	S18	W70	4765	37 D	16	2						
LOCARNO	25	0930	0955		S24	E58	4778	25	1	3	0945		3.00			
LOCARNO	25	1015	1050		S24	E58	4778	35	1	3	1015		2.00			
MEUDON	25	1017	1034		S22	E55	4778	17	1				2.00			
WENDEL	25	1152 E	1206 D		N20	W18	4777	14 D	1				3.00			
WENDEL	25	1312	1336 D		S24	E55	4778	24 D	1				4.00			
MEUDON	25	1313	1338		S22	E55	4778	25	1				2.00			
CAPRI-S	25	1315	1348 D		S22	E56	4778	33 D	1	2	1335	3.00	6.10			
MEUDON	25	1656	1712 D		S12	E70	4784	16 D	1				2.00			
CLIMAX	25	1927	2000	1943	S23	E50	4778	33	1		1943	2.40				
USNRL	25	1930	1954	1937	S24	E55	4778	24	1	2	1937	.56	1.24	2.00	99	
CLIMAX	25	2045	2113	2102	S03	E12	4771	28	1		2102	2.40			S-SWF	
CLIMAX	25	2255	2314	2301	S11	E57	4778	19	1		2301	2.20				
HAWAII	25	2258 E	2320		S15	E56	4778	22 D	1	2	2258	3.40	7.90			
UCCLE	26	0945	0952		N23	W88	4764	7	1	2						
ATHENS	26	1423 E	1444		N21	W90	4764	21 D	16	4		.40	4.00			
MEUDON	26	1537	1625	1544	S12	W23	4779	48	1							
MITAKA	27	0457 E	0511 D	0500	N28	E59	4786	14 D	16	2	0457	4.70	8.13	1.62	115	

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		START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	MC-MATH PLACE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
{ WENDEL ATHENS CAPRI-S UCCLE MEUDON MEUDON UCCLE CAPRI-S MEUDON CAPRI-S ZURICH WENDEL UCCLE CAPRI-S MCMATH MEUDON CAPRI-S WENDEL WENDEL WENDEL	1958	27 0635 E	0649 D		N28	E54	4786	14 D	1				3.00			
		27 0658 E	0744		N27	E53	4786	46 D	1	3		1.40	2.40			
		27 0735 E	0911 D		N27	E54	4786	96 D	1	1	0740	2.00	3.50			
		27 0823 E	0930		N28	E56	4786	67 D	1	4						
		27 0830 E	0945	0850	N27	E55	4786	75 D	1				3.00			
		27 1023	1100		N09	E47	4782	37	1				2.00			
		27 1025 E	1032 D	1026	N08	E46	4782	7 D	1	2	1026	2.00	2.40			
		27 1034 E	1145 D		N08	E45	4782	71 D	1	1	1038	2.00	2.80			
		27 1028	1120	1043	N27	E55	4786	52	16				3.00			
		27 1034 E	1145 D		N27	E54	4786	71 D	1	1	1038	1.50	2.60			
		27 1036 E	1046 D		N28	E53	4786	10 D	1	2	1036		3.00			
		27 1039 E	1100 D		N28	E53	4786	21 D	1				3.00			
		27 1044 E	1049 D		N28	E56	4786	5 D	1	2						
		27 1203 E	1310 D		N27	E54	4786	67 D	1	3	1238	2.00	3.50			
		27 1420	1500	1430	N30	W45	4769	40	16	2	1430	2.60	4.03		68	
		27 1421	1445	1425	N30	W48	4769	24	1				5.00			
		27 1425 E	1445 D		N29	W45	4769	20 D	1	3	1426	2.00	3.20			
		27 1427 E	1502 D		N30	W46	4769	35 D	16				6.00			
{ HAWAII MITAKA MITAKA WENDEL WENDEL ONDRE JOV WENDEL ONDRE JOV MITAKA WENDEL WENDEL CLIMAX MCMATH STOCKHOLM ONDRE JOV CAPRI-S WENDEL WENDEL CAPRI-S ONDRE JOV WENDEL ONDRE JOV CLIMAX	28	0115	0135	0125	N33	W57	4769	20	1	1	0125	3.30	6.30			S-SWF
	28	0127 E	0137	0127	N24	W58	4769	10 D	16	1	0128	1.84	3.35	2.86	217	
	28	0433	0445		N28	E40	4786	12	1	1	0435	1.24	1.81	1.47	115	
	28	1118	1142		S12	E20	4781	24	1				4.00			
	28	1503	1533 D		S10	E29	4781	30 D	16				5.00			
	28	1521 E	1527		N29	W63	4769	6 D	1	3	1523			2.10		
	28	1522	1551 D		N27	W61	4769	29 D	1				3.00			Slow S-SWF
	28	1533	1548	1533	N29	W63	4769	15	1	3	1533			3.40		
	28	2339	2356	2343	S15	E13	4781	17	1	1	2339	.71	.77	2.16	143	
	29	1237	1305		N30	E43	4787	28	1				4.00			
	29	1555	1605 D		S14	E54	4791	10 D	1				4.00			
	29	1600	1640	1617	S08	E08	4781	40	1		1617	3.00				
	29	*1600	1640 D	1612	S09	E07	4781	40 D	1	2	1612	4.20	4.43			
	30	0924 E	1000 D		S25	E60	4798	36 D	1		0945	.70	2.00			
	30	0940	0951	0945	S23	E63	4798	11	16	3	0945			2.40		S-SWF
	30	0943 E	0958 D		S24	E68	4798	15 D	2	3	0945	2.50	7.10			
	30	0944	1000		S09	E65	4792	16	16				5.00			
	30	1121	1130		S08	W02	4781	9	1				3.00			
	30	1151	1202 D		S15	W24	4776	11 D	1	3	1153	2.00	2.20			
	30	1154 E	1201 D		S15	W25	4776	7 D	1	3	1155			3.70		
	30	1155	1205		S16	W24	4776	10	1				3.00			
	30	1508 E	1514		S16	W27	4776	6 D	1	3	1509			2.60		
	30	2107	2141	2115	N30	E10	4786	34	1		2115	3.20				

COMMERCE - STANDARDS - BOULDER

CAPRI G ANACAPRI - GERMAN
 CAPRI S ANACAPRI - SWEDISH
 GOOD HOPE ROYAL OBSERVATORY, CAPE OF GOOD HOPE
 KIEV* KIEV UNIVERSITY
 KODAIKNI KODAIKANAL
 KRASNYA KRASNYA PAKHRA
 MOSCOW NIZMIR

MOSCOW-G MOSCOW - GAISH
 R O EDIN ROYAL OBSERVATORY, EDINBURGH
 R O HERST GREENWICH ROYAL OBSERVATORY, HERSTMONCEUX
 SAC PEAK SACRAMENTO PEAK
 SCHAUNIS SCHAUNISLAND
 USNRL UNITED STATES NAVAL RESEARCH LABORATORY

SAC PEAK: ALL VALUES IN MAX. INT. COLUMN ARE
 ARBITRARY UNITS (0-40), NOT PERCENT
 OF CONTINUOUS SPECTRUM.

E - LESS THAN & - PLUS
 D - GREATER THAN - MINUS
 U - APPROXIMATE □ - NOT REPORTED

SOLAR FLARES

SEPTEMBER 1958

OBSERVATORY	DATE SEPT 1958	OBSERVED UNIVERSAL TIME			LOCATION			DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS					PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
SYDNEY	01	0029	0049	0034	N12	W70	4715	20	1	2	0034	1.00	3.00			
{ SYDNEY	01	0036	0118	0100	S05	W15	4722	42	1	2	0100	3.00	3.00			
MT WILSON	01	0048	0108	0052	S08	W10	4722	20	1							
TASHKENT	01	0354	0405	0357	S08	E04	4722	9	1	3	0357		2.00	4.00	105	
KHARKOV	01	1031 E	1043		N11	E57	4738	12 D	1	3	1033		8.70	1.50		
GOOD HOPE	01	1150	1202		N10	W90	4715	12	1		1155	.20				
{ GOOD HOPE	01	1224	1334	1245	S07	W20	4722	70	1		1245	2.30	2.50			
KIEV	01	1239	1331	1255	S05	W18	4722	52	16	2	1254		4.85		86	
{ KHARKOV	01	1240	1320	1255	S04	W19	4722	40	1	3	1243		3.10	2.00		
CAPRI-G	01	1302 E	1324 D		S06	W17	4722	22 D	16	2			4.00			
MT WILSON	01	1819	1837	1825	S15	E90	4739	18	1							
VOROSHILOV	01	2342	0011	2344	N12	W19	4725	29	16	2	2344		2.11		90	
SYDNEY	02	0240	0249	0246	N11	W79	4715	9	1	2	0246	.50	2.00			
{ ALMA-ATA	02	0208 E	0458	0403	N13	W23	4725	175 D	1	2	0403		4.20		73	
ALMA-ATA	02	0359	0440	0404	N14	W19	4725	41	1	2	0404		2.70		66	
GOOD HOPE	02	0925	0945	0936	N16	W88	4715	20	16		0936	.40	11.50			
GOOD HOPE	02	1026	1115	1048	S17	E80	4741	49	16		1048	2.00	11.50		S-SWF	
CAPRI-G	02	1343	1356		S16	E76	4741	13	1	3			4.00			
HUANCAYO	02	1530 E	1628	1558	S14	E75	4741	58 D	16	2	1602	2.40	11.50	2.70		
HUANCAYO	02	1933 E	1939 D	1933	S13	W29	4722	6 D	1	2	1933			2.50		
MT WILSON	02	1957	2036 D	2006	N14	W32	4725	39 D	1							
MT WILSON	02	2104	2141	2104	S10	E85	4741	37	16						S-SWF	
VOROSHILOV	02	2209	2218	2212	N20	E90	4743	9	16	3	2212		4.95		104	
{ KRASNYA	03	0814	0830	0816	S12	E70	4741	16	1	1	0816		1.10		105	
{ CAPRI-G	03	0815 E	0827		S16	E68	4741	13 D	1	3			3.00			
KRASNYA	03	0833	0845	0837	S04	E78	4741	12	1	1	0837		2.40		65	
{ CAPRI-G	03	0846 E	0859		S08	E78	4741	13 D	1	2			4.00			
CAPRI-G	03	1205	1226		N27	W39	4726	21	1	1			3.00			
CAPRI-G	03	1515 E	1535 D		S05	W44	4722	20 D	1	1			4.00			
HUANCAYO	03	1934 E	2008	1937	S08	E67	4741	34 D	16	2	1937	2.00	6.20	3.00	Slow S-SWF	
HUANCAYO	03	1943 E	2008	1950	N18	W40	4725	25 D	1	2	1950	3.10	4.00	2.70		
ABASTUMANI	04	0505	0520	0510	N20	E86	4743	15	1	1	0510		20.00			
{ ALMA-ATA	04	0505 E	0525	0511	N19	E80	4743	20 D	2	3	0511		8.30		88	
TASHKENT	04	0506	0535	0508	N21	E81	4743	29	16	3	0510		3.00	6.70	165	S-SWF
{ CAPRI-G	04	0520 E	0547		N17	E70	4743	27 D	1	3			5.00			
TASHKENT	04	0504	0545	0524	S06	E63	4741	41	1	3	0525		3.00	3.40	115	
ABASTUMANI	04	0505 E	0537 D	0524	S06	E63	4741	32 D	16		0524		7.00			
ALMA-ATA	04	0511	0544	0523	S08	E61	4741	33	3	3	0523		34.40		81	
{ CAPRI-G	04	0520 E	0532		S08	E64	4741	12 D	1	3			5.00			
GOOD HOPE	04	0852	0902	0855	N16	E70	4743	10	1		0855	.80	2.30			
KIEV	04	1116	1239	1121	N28	W66	4721	83	1	3	1120		3.98		70	
CAPRI-G	04	1406	14.5		S11	W54	4722	49	2	1			8.00		S-SWF	
MT WILSON	04	2001	2106	2007	W48	S10	4722	65	16							
MT WILSON	04	2353	2408	2358	W58	S10	4722	15	1							
SYDNEY	05	0133	0201 D	0138	S04	E50	4741	23 D	2	2	0138	4.00	6.00			
{ TASHKENT	05	0435	0513	0452	S06	E48	4741	38	1	3	0452		7.00	3.00	110	
SYDNEY	05	0437	0520 D	0454	S07	E47	4741	43 D	1	1	0454	2.00	3.00			
{ SCHAUMINS	05	0628 E	0635		S07	E45	4741	7 D	1	2			4.00			
CAPRI-G	05	0630 E	0635 D		S10	E46	4741	5 D	1	1			5.00			

SOLAR FLARES

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OBSERVATORY	DATE SEPT 1958	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 PLACE REGION				TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
CAPRI-G	05	0657	0712		S12	E46	4741	75	1	2			3.00			Slow S-SWF
CAPRI-G	05	1355	1421		S10	E52	4741	26 D	16	2			5.00			
KIEV	05	1359 E	1423 D	1407 U	S10	E55	4741	24 D	1	2	1407		3.13		65	
SCHAUINS	06	0918 E	0930		S11	E90	4750	12 D	1	3						S-SWF
CAPRI-G	06	1106	1121		S07	E30	4741	15	1	3			4.00			
KIEV	06	1200 E	1226	1202 U	N18	E85	4743	26 D	1	2	1201		3.96		62	
KIEV	06	1258	1334	1319	S05	W90	4722	36	1	2	1319				66	
SCHAUINS	06	1323 E	1340		S08	E27	4741	17 D	1	2			3.00	1.80		
ABASTUMANI	07	0638 E	0759 D	0720 U	S08	W85	4745	81 D	1	2	0713		5.00	3.50	60	S-SWF
CAPRI-G	07	1130	1146		N23	E70	4744	16	1	3			3.00			S-SWF
CAPRI-G	07	1443	1513		N23	E67	4744	30	2	3			7.00			
CAPRI-G	07	1455	1520 D		S06	E25	4741	25 D	16	3			5.00			
MT WILSON	07	1703 E	1709 D	1703	S30	E18	4739	6 D	2							S-SWF
CAPRI-G	08	0540 E	0555		N23	E58	4744	15 D	1	3			4.00			S-SWF
CAPRI-G	08	0702	0713		S18	W28	4739	11	1	3			3.00			
KRASNYA	08	0830	0841	0831	N21	E89	4748	11	1	1	0831		3.20		60	
KRASNYA	08	0940	1001	0953	S12	E88	4750	21	16	1	0956		10.40		80	
CAPRI-G	08	0944	1007		S15	E90	4750	23	1	1						
KIEV	08	1148	1158	1150	S19	E03	4739	10	1	3	1149		2.46		72	
KIEV	08	1321	1333	1324	S08	E80	4750	12	16	3	1324		5.95		74	
CAPRI-G	08	1321	1348		S09	E70	4750	27 D	1	3			3.00			
GOOD HOPE	08	1322	1335	1324	S09	E72	4750	13	1		1124	1.00	3.90			
CAPRI-G	08	1331	1346		S16	E04	4739	15	1	3			3.00			
CAPRI-G	08	1336	1350		S17	W11	4739	14	1	3			3.00			
CAPRI-G	08	1428	1450		N22	E61	4744	32	1	3			5.00			
SYDNEY	09	0519	0530 D		S05	W04	4741	11 D	1	1	0530	4.00	5.00			Slow S-SWF
CAPRI-G	09	0522 E	0539		S07	W07	4741	17	1	3			5.00			
CAPRI-G	09	1037	1206		N16	E02	4743	89	1	3			5.00			
SCHAUINS	09	1051 E	1255 D		N16	E02	4743	124 D	1	1			4.00	1.60		
CAPRI-G	09	1146	1157		N21	E40	4744	11	1	3			3.00			
CAPRI-G	09	1209	1226		N35	E90	4756	17	1	3						
KIEV	09	1212 E	1225 D	1216 U	S10	W04	4741	13 D	1	2	1216		3.10		66	
CAPRI-G	09	1216	1242		S12	W06	4741	26	1	3			3.00			
CAPRI-G	09	1346	1410		N21	E39	4744	24	1	3			2.00			
KIEV	09	1346	1438	1404	S14	W18	4739	52	16	2	1404		9.10		62	
CAPRI-G	09	1355	1418		S14	W16	4739	23	16	3			6.00			
CAPRI-G	09	1515	1522 D		N22	E37	4744	7 D	1	3			3.00			
VOROSHILOV	09	2215 E	2255		S12	W16	4739	40 D	1	2	2223		4.06		70	
VOROSHILOV	09	2309	2312	2310	S27	E90	4752	3	16	2	2310		6.18		67	
SYDNEY	09	2336	2345	2341	S35	E85	4752	9	n	2	2341	.50				
VOROSHILOV	09	2321 E	0145	0010	S12	W02	4741	84 D	2	2	0010		6.90		91	
SYDNEY	09	2347	0125	0008	S12	W10	4741	98	3	1	0008	13.00	14.00			
VOROSHILOV	10	0027	0058	0033	S33	E90	4755	31	1	2	0033		2.52		64	Slow S-SWF
SYDNEY	10	0350	0403 D	0353	S06	W17	4741	13 D	1	2	0353	3.00	3.00			
TASHKENT	10	0353	0403	0355	S07	W23	4741	10	1	3	0356		4.00	2.60	90	
TASHKENT	10	0353	0401	0354	N21	E32	4744	8	1	3	0354		1.00		80	
SIMEIZ	10	0600 E	0607 D	0602 U	N20	E32	4744	7 D	16	1	0602		2.60	5.10	68	
CAPRI-G	10	0603	0618 D		N21	E31	4744	15 D	16	3			5.00			

SOLAR FLARES

SEPTEMBER 1958

OBSERVATORY	DATE 1958	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.	MC-MATH FLARE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _o	MAX. INT. %	
{ KHARKOV	10	0604 E			N22	E30	4744		16	3	0604		5.90			S-SWF
CAPRI-G	10	0630 E			S18	W18	4739		1	3			4.00			
{ KHARKOV	10	0853 E	0925		N18	E87	4756	42 D	16	2	0856			2.60		
GOOD HOPE	10	1004	1050	1015	S09	W26	4741	46	1		1015	2.00	2.30			
{ KHARKOV	10	1015	1035	1020	S10	W26	4741	20	1	3	1018		4.10	1.90		
CAPRI-G	10	1019 E			S08	W24	4741		1	1			3.00			
CAPRI-G	10	1100 E	1118		N10	E10	4751	18 D	1	1			3.00			
VOROSHILOV	10	2239	2245	2242	S10	W35	4739	6	2	2	2242		8.60		135	
VOROSHILOV	10	2252	2256	2253	N18	E90	4756	4	16	1	2253		4.95		108	
VOROSHILOV	10	2334	2342	2336	S34	E70	4755	8	16	2	2336		2.21		144	
VOROSHILOV	11	0013	0031	0021	S33	E70	4755	18	2	2	0021		5.80		96	
VOROSHILOV	11	0149	0157	0153	S35	E70	4755	8	2	2	0153		8.70		109	
TASHKENT	11	0402	0424	0407	S32	E78	4755	22	1	3	0408		11.00	1.70	55	
{ TASHKENT	11	0402	0435	0410	S13	W38	4739	33	1	3	0411		9.00	1.80	90	
SYDNEY	11	0405	0417 D		S15	W43	4739	12 D	1	1	0415	2.00	3.00			
TASHKENT	11	0508	0547	0510	S12	W40	4739	39	1	3	0512		7.00	2.20	70	
TASHKENT	11	0513	0556	0517	N14	E47	4748	43	1	3	0518		3.00	1.70	65	
TASHKENT	11	0535	0605	0540	S12	E85	4757	30	1	3	0542		5.00	2.40	65	
CAPRI-G	11	0630 E	0645 D		S08	W39	4739	15 D	16	3			6.00			
SCHAUINS	11	0640 E	0705		S08	W38	4739	25 D	16	2			5.00	2.40		
SIMEIZ	11	0641	0654	0643	S09	W41	4739	13	16	2	0644		4.10	3.10	76	76
GOOD HOPE	11	0644 E	0705		S08	W40	4739	21 D	1		0645	1.80	2.40			
SIMEIZ	11	0845	0856	0846	N17	E85	4756	11	16	2	0846		6.60	2.80		
SCHAUINS	11	0849 E	0857		S12	E80	4757	62 D	16	2			2.00	2.10		
GOOD HOPE	11	0852	0945	0916	S11	E40	4750	53	1		0916	2.00	2.70			
CAPRI-G	11	0855 E	0911 D		S09	W37	4739	16 D	1	1			5.00			
{ CAPRI-G	11	0933 E			N20	W19	4743		1	1			4.00			
SCHAUINS	11	0943 E	0951 D		N18	W18	4743	14 D	1	2			3.00	1.70		
GOOD HOPE	11	1115	1123	1115	N13	E85	4756	8	1		1115	.60	6.90			
CAPRI-G	11	1116 E	1127		N15	E85	4756	11 D	1	2			4.00			
GOOD HOPE	11	1213	1315 D	1218	S08	W42	4739	62	1		1218	2.50	3.50			78 63
KIEV	11	1216 E	1238 D	1226 U	N20	W21	4743	22	1	2	1226		2.09			
{ KIEV	11	1216 E	1312	1228 U	S09	W45	4739	56 D	1	2	1227		1.32			
SCHAUINS	11	1243 E	1248 D		S09	W40	4739	5 D	16	2			4.00	1.70		
VOROSHILOV	11	2231 E	2238 D		S19	E52	4752	7 D	1	2	2231		2.13		59	
{ SYDNEY	11	2321 E	2331	2328	S38	E60	4755	10 D	1	2	2328	1.00	3.00			
VOROSHILOV	11	2326 E	2330 D		S34	E68	4755	4 D	16	2	2326		3.28		102	
{ SYDNEY	11	2323	2335	2327	N22	E15	4744	12	1	2	2327	2.00	2.00			
VOROSHILOV	11	2326 E	2334 D		N20	E13	4744	8 D	1	2	2326		3.31		71	
VOROSHILOV	11	2326 E	2355 D		N05	W55	4740	29 D	1	2	2326		2.09		69	
VOROSHILOV	12	0016 E	0039 D	0025	S12	W46	4739	23 D	1	2						
ALMA-ATA	12	0305 E	0427 D	0328	S37	E65	4755	82 D	16	2	0328		5.40		64	
ALMA-ATA	12	0354	0410	0400	S10	W53	4739	16	1	2	0400		4.00		76	
ABASTUMANI	12	0515 E	0952	0915 U	S14	W52	4739	37 D	1		0825		5.00	2.80	68	
{ GOOD HOPE	12	0655	0740	0704	S15	E67	4759	45	2		0704	3.50	10.20			
ABASTUMANI	12	0656	0740	0702	S14	E66	4759	44	2-		0706		22.00	3.20	80	
SIMEIZ	12	0657	0701 D	0701	S13	E70	4757	4 D	2	2	0700		12.00	3.80	72	
SCHAUINS	12	0702 E	0738 D		S13	E67	4757	36 D	2	2			6.00	4.10		
CAPRI-G	12	0705 E	0712 D		S13	E73	4757	7 D	16	2			6.00			
GOOD HOPE	12	0813	0845	0820	S18	W49	4739	32	1		0820	1.50	2.40			
SCHAUINS	12	0835 E	0845 D		S17	W51	4739	10 D	16	2			2.00	2.30		Slow S-SWF

SOLAR FLARES

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OBSERVATORY	DATE SEPT 1958	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 — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.										
GOOD HOPE	12	0820	0830	0826	N10	E78	4756	10	1		0826	.90	5.20			S-SWF
ABASTUMANI	12	0848	0902	0855	N20	E05	4744	14	1		0856		1.20	2.90	73	
{ GOOD HOPE	12	0904	0955	0918	N14	E67	4756	51	2		0918	3.50	8.30			
ABASTUMANI	12	0907	0952	0919	N12	E68	4756	45	2				10.00		98	
GOOD HOPE	12	0912	0945	0917	S08	W49	4741	33	1		0917	1.50	2.30			
{ CAPRI-G	12	0912	0949		N16	E66	4756	37	16	3			5.00			
SCHAUINS	12	0919 E	0956		N16	E63	4756	37 D	2	2			6.00	4.70		
{ GOOD HOPE	12	1037	1120	1042	S38	E60	4755	43	1		1042	1.20	3.50			
CAPRI-G	12	1046	1102 D		S35	E58	4755	16 D	1	3			4.00			
GOOD HOPE	12	1311	1315 D		S18	W60	4739	4 D	1		1315	1.10	2.30			
CAPRI-G	12	1355 E	1416		S09	E28	4752	21 D	1	1			3.00			Slow S-SWF
MT WILSON	12	1728 E	1741 D	1728	S31	E54	4755	13 D	1							
TASHKENT	13	0356 E	0401 D		N16	E63	4756	5 D	1	2	0356		3.00	2.50	55	
ABASTUMANI	13	0502 E	0550	0513	S17	E67	4759	48 D	1	3	0513		4.00	3.00	63	
ABASTUMANI	13	0503 E	0823 D	0608 U	S29	E42	4755	200 D	1		0609		2.00	2.40	80	
ABASTUMANI	13	0522 E	0612	0543 U	S08	E18	4750	38 D	1				1.00		70	
ABASTUMANI	13	0547	0621 D	0550 U	S15	W63	4739	34 D	1		0552		5.00	3.70	98	
{ ABASTUMANI	13	0559	0656	0606	S22	E65	4759	57	1	3			12.00		74	
TASHKENT	13	0602	0615 D	0609	S22	E63	4759	13 D	1	2	0608		6.00	1.70	55	
CAPRI-G	13	0610 E	0629		S20	E62	4759	19 D	1	1			4.00			
SCHAUINS	13	0851 E	0905		S17	E59	4759	14 D	1	3			3.00	1.30		Slow S-SWF
{ NEDERHORST	13	0915	1015 D		S08	W65	4741	60 D	26	2						
KHARKOV	13	0917 E	0951		S12	W50	4741	34 D	16	2	0919		8.00	1.70		
KHARKOV	13	0917 E	0951		S12	W59	4741	34 D	16	2	0919		8.60	1.70		
SCHAUINS	13	0919 E	0951		S10	W61	4741	32 D	2	3			8.00	2.40		
CAPRI-G	13	1006	1050		S32	E36	4755	44	16	1			5.00			
GOOD HOPE	13	1018 E	1217 D		S33	E37	4755	119 D	1		1018	2.20	3.50			
KHARKOV	13	1025 E	1154 D		S27	E37	4755	89 D	16	2	1027		6.80	1.70		
KHARKOV	13	1040	1150		S28	E42	4755	70	1	2	1044		3.90	1.70		
KIEV	13	1116 E	1224 D	1117 U	S30	E34	4755	68 D	1	2	1117		2.37		55	
KIEV*	13	1045 E	1134 D		S21	E37	4759	49 D	1	1			8.20			
KIEV	13	1344 E	1400	1344 U	S12	E50	4757	16 D	1	2	1344		2.45		50	
MT WILSON	13	1937	1955	1945	S16	E58	4759	18	1							
MT WILSON	13	2229	2254	2236	N20	E85	4756	25	1							
VOROSHILOV	14	0022	0037		S08	E16	4750	15	16	1	0030		2.13		93	
SYDNEY	14	0222	0225	0223	S19	W87	4739	3	11	2	0223	.50				
SYDNEY	14	0359	0400 D		S14	W86	4739	1 E	11	2	0400	.50				
TASHKENT	14	0451	0518	0504	N16	E37	4756	27	1	2	0506		2.00	2.00	45	
{ CAPRI-G	14	0630	0643		S10	E04	4750	13	1	2			3.00			
SCHAUINS	14	0655 E	0708 D		S10	E03	4750	8 D	1	3			3.00	1.70		
GOOD HOPE	14	0822	0929 D	0905 U	S10	W80	4741	67 D	2		0835	1.90	10.90			
SIMEIZ	14	0830 E	0859 D	0859 U	S10	W85	4741	29 D	3	1	0835		20.00	6.40	92	
SCHAUINS	14	0832 E	0950		S10	W75	4741	78 D	2	3			8.00	5.70		
CAPRI-G	14	0835 E	0855		S12	W85	4741	20 D	1	1			4.00			
KHARKOV	14	0859 E	0939		S13	W80	4741	40 D	26	2	0903		13.70	4.40		
CAPRI-G	14	0922	1030		S12	W90	4741	68	16	1						
GOOD HOPE	14	1016	1017 D		S18	E68	4765	1 D	1		1017	.70	2.30			
{ GOOD HOPE	14	1217	1230	1223	S18	E68	4765	13	1		1223	1.00	3.20			
KIEV	14	1218 E	1345 D	1223 U	S16	E69	4765	87 D	1	3	1223		2.00		58	
CAPRI-G	14	1234 E	1250 D		S10	W01	4750	16 D	1	1			3.00			
[SYDNEY	15	0422	0434	0427	S16	E56	4765	12	1	1	0427	1.00	2.00			

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OBSERVATORY	DATE SEPT 1958	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.	MC-MATH FLARE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
SYDNEY	15	0427	0453 D	0436	S22	E52	4765	26 D	2	1	0436	4.00	8.00			Slow S-SWF
SYDNEY	15	0434	0440	0436	N10	W78	4743	6	1	2	0436	.50	2.00			
ABASTUMANI	15	0623	0654	0627	N16	E23	4756	31	1		0627		2.50		58	
SIMEIZ	15	0625 E	0653 D	0638 U	N14	E29	4756	28 D	1	2	0635		4.50	2.20	60	
ABASTUMANI	15	0653 E	0809 D	0658	S17	E55	4765	76 D	1	2	0658		2.00		73	
SCHAUINS	15	0940 E	1035 D	1006	S19	E45	4765	55 D	2	3			7.00	2.20		
CAPRI-G	15	0941	1030		S20	E55	4765	49	1.6	1			5.00			
GOOD HOPE	15	1008 E	1055		S21	E51	4765	47	1		1010	2.70	5.00			
KIEV	15	1144 E	1202 D	1146 U	S10	W46	4749	18 D	1		1146		1.80		60	
SCHAUINS	15	1440 E	1445 D	1440	S19	E49	4765	5 D	2	1			7.00	2.00		
MT WILSON	15	1841	2455 D	1944	S18	E50	4765	374 D	1.6							Slow S-SWF
HUANCAYO	15	1938 E	1950	1942	S17	E48	4765	12 D	1	3	1942	1.60	2.60	3.90		
VOROSHILOV	16	0023	0035	0025	S14	E46	4762	12	1	2	0025		2.91		72	
SYDNEY	16	0054	0106	0058	N13	W92	4743	12	1	2	0058	.25				
SYDNEY	16	0152 E	0203 D	0156	S08	W90	4741	11 E	1	2						
ALMA-ATA	16	0334 E	0530	0450	S19	E42	4765	116 D	2	3	0450		6.90		92	
TASHKENT	16	0405	0520	0447	S18	E42	4765	15	1.6	3	0443		6.00	3.90	110	
ALMA-ATA	16	0420	0456	0424	S15	E43	4765	36	1	3	0424		3.90		76	
ALMA-ATA	16	0442	0519	0452	S17	E39	4765	37	2	3	0452		5.20		88	
CAPRI-G	16	0547	0630		N15	E12	4754	43	1	3			4.00			
TASHKENT	16	0548	0630 D	0617	N15	E13	4754	42 D	1	3	0616		2.00	2.40	80	Slow S-SWF
SIMEIZ	16	0605	0636	0613	N16	E12	4756	31	1	2	0611		2.00	2.90	64	
SIMEIZ	16	0733 E	0750 D		S16	E43	4765	17 D	1	2	0738		4.30	1.60	68	
KRASNYA	16	0737 E	0757 D	0742 U	S14	E43	4765	20 D	1	1	0742		.63		140	
GOOD HOPE	16	0753	0815	0744	S17	E43	4765	22	1		0744	2.30	3.20			
CAPRI-G	16	1054	1214		N23	E51	4764	20	2	3			6.00			
GOOD HOPE	16	1055	1215	1118	N22	E50	4764	80	1		1118	2.00	3.10			
CAPRI-G	16	1451	1521 D		S20	E33	4765	30 D	2	3			9.00			
MT WILSON	16	1836 E	2451 D	1855	S20	E36	4765	375 D	1.6							
MT WILSON	16	2250	2300	2253	S12	E41	4765	10	1.6							
VOROSHILOV	16	2256 E	2316		S20	E43	4765	20 D	1.6	2	2257		2.70		81	Slow S-SWF
VOROSHILOV	17	0018	0041	0022	S17	E33	4765	33	1	1	0022		2.46		62	
VOROSHILOV	17	0045	0115	0052	S17	E35	4765	30	1.6	1	0052		5.53		71	
ALMA-ATA	17	0310	0358	0324	S18	E37	4765	48	1.6	2	0324		9.00		78	
ALMA-ATA	17	0316	0356	0320	S18	E29	4765	40	1	2	0320		2.80		73	
ALMA-ATA	17	0320	0328	0323	S25	E41	4765	18	1	2	0323		2.90		78	
SIMEIZ	17	0638 E	0705 D	0639 U	S20	E39	4765	27 D	1	2	0639		3.00	2.30	60	
CAPRI-G	17	0717	0731		S16	E29	4765	14	1	3			3.00			
CAPRI-G	17	0821	1230		S18	E37	4765	249	2.6	2			7.00			
GOOD HOPE	17	0825	1350 D	0900 U	S21	E37	4765	325	2		0900	2.00	2.80			
ABASTUMANI	17	1116 E	1152 D	1123 U	S19	E38	4765	36 D	2	1	1123		18.50			Slow S-SWF
ABASTUMANI	17	1139 E	1152 D	1140 U	S18	E24	4765	13 D	1.6	1	1140		8.00			
CAPRI-G	17	1059	1114		S11	W40	4750	15	1	3			3.00			
MT WILSON	17	1941	2027	1946	S12	W44	4750	46	1							
VOROSHILOV	18	0046	0125	0048	N23	E31	4764	39	2	1	0048		6.60		86	
CAPRI-G	18	0600	0617		S23	W67	4762	17	1	3			4.00			
GOOD HOPE	18	0728	0930	0835	S14	W56	4750	122	3		0836	8.00	15.50			
CAPRI-G	18	0730	0919	0825	S12	W49	4750	109	3	3			12.00			
KHARKOV	18	0830 E	0900		S12	W54	4750	30 D	1.6	3	0833		10.70	2.20		
CAPRI-G	18	0828	0842		S16	E15	4765	14	1	1			2.00			

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		START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	McMATH FLARE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
CAPRI-G	18	0943	1003		S16	E04	4759	20	1	1			2.00			
{ GOOD HOPE	18	1015	1045	1020	S38	W20	4755	30	1		1020	3.00	4.50			
CAPRI-G	18	1017	1046		S35	W18	4755	29	1	1			3.00			
{ KHARKOV	18	1020 E	1041		S36	W20	4755	21 D	1	2	1024		3.20	1.60		
{ GOOD HOPE	18	1110	1128	1121	S23	E15	4765	18	1		1121	2.00	2.30			
{ KIEV	18	1112	1127	1121	S22	E14	4765	15	16	3	1120		3.12		80	
{ KHARKOV	18	1113	1132 D	1120	S21	E13	4765	19 D	16	3	1120		5.20	3.90		
{ KIEV*	18	1115 E	1128 D	1121	S24	E12	4765	13 D	1	2	1121		2.60			
CAPRI-G	18	1501	1520 D		N22	E19	4764	20 D	1	3			3.00			
HUANCAYO	18	1601 E	1608	1601	S10	W58	4750	7 D	1	1	1601	2.40	4.70	3.20		
CAPRI-G	19	0747	0755		N15	W24	4756	8	1	3			3.00			
CAPRI-G	19	0811	0828		N14	W22	4756	17	1	3			4.00			
CAPRI-G	19	1106	1114		S20	E01	4765	8	1	1			2.00			
CAPRI-G	19	1308	1330		S10	W71	4750	22	1	1			3.00			
CAPRI-G	19	1446	1457		N14	W32	4756	11	1	2			3.00			
HUANCAYO	19	1550 E	1614	1553	N17	W23	4756	24 D	16	2	1553	5.60	6.20	2.40		
HUANCAYO	19	1559	1625	1601	S15	W04	4765	26	1	2	1601	3.50	3.80	2.70		
VOROSHILOV	20	0215	0219	0215	S17	W80	4750	4	1	2	0215		2.65		74	
{ SYDNEY	20	0221	0239	0227	N21	W69	4754	18	1	2	0227	.50				
{ SYDNEY	20	0233	0330	0241	S22	W08	4765	47	2	2	0241	8.00	10.00			Slow S-SWF
{ VOROSHILOV	20	0235	0306	0242	S24	W03	4765	31	2	2	0242		5.36		125	
{ CAPRI-G	20	0702	0717		S14	W10	4765	15	1	3			3.00			
{ KRASNYA	20	0703 E	0716 D	0703 U	S16	W06	4765	13 D	1	1	0703		.40		105	
{ KRASNYA	20	0727 E	0731	0727	S17	W09	4765	4 D	1	1	0727		.70		105	
CAPRI-G	20	0727	0744		N13	E36	4768	17	1	3			3.00			
CAPRI-G	20	0803	0822		S14	W10	4765	19	1	3			2.00			
CAPRI-G	20	0953	1007		S14	W11	4765	14	1	3			3.00			
CAPRI-G	20	1320 E	1342		S07	E85	4771	22 D	1	1			3.00			
MT WILSON	20	2032	2120	2035	S17	W15	4765	48	1							
CAPRI-G	21	0615 E	0644		N21	W18	4764	29 D	1	3			4.00			
CAPRI-G	21	0810 E	0832		S13	E90	4771	22 D	2	1						
CAPRI-G	21	0816	0829		N13	E28	4768	13	1	1			3.00			
{ KHARKOV	21	0858 E	0917 D		S03	E75	4771	19 D	16	2	0904		7.60	1.80		Slow S-SWF
{ KHARKOV	21	1023	1059	1030	S05	E72	4771	36	16	2	1028		6.70	1.90		
{ KHARKOV	21	1029	1102	1047	N20	W21	4764	33	1	2	1049		5.00	1.70		
{ CAPRI-G	21	1032	1055 D		N21	W19	4764	23 D	1	1			4.00			
{ GOOD HOPE	21	1054	1110	1055	N20	W20	4764	16	1		1055	2.10	2.30			
{ KHARKOV	21	1116	1143		N20	W20	4764	27	1	2	1118		5.10	1.20		
{ GOOD HOPE	21	1332	1411 D	1345	S19	W40	4759	39	1		1345	2.70	3.90			
{ CAPRI-G	21	1350 E	1426		S18	W41	4759	36 D	16	3			5.00			Slow S-SWF
CAPRI-G	21	1502	1510		N21	W24	4764	8	1	3			3.00			
SYDNEY	22	0106	0112	0108	S11	E67	4776	6	1	2	0108	.75	2.00			
CAPRI-G	22	0545 E	0558		N22	W30	4764	13 D	1	3			4.00			
CAPRI-G	22	0645	0711		N16	W64	4756	26	1	3			3.00			
CAPRI-G	22	0740 E	0825		N22	W32	4764	45 D	1	3			3.00			
{ TASHKENT	22	0739	0820	0750	S21	W43	4765	44	16	2	0751		6.00	2.40	95	
{ CAPRI-G	22	0740 E	0855		S19	W41	4765	75 D	2	3			7.00			
{ SIMEIZ	22	0743 E	0910 D		S22	W47	4765	87 D	16	1	0745		11.00	3.30	52	S-SWF
{ KHARKOV	22	0751 E	0832		S20	W40	4765	41 D	2	2	0812		5.00	1.80		

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		START	END	MAX. PHASE	APPROX.		McMATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _z	MAX. INT. %		
					LAT.	MER. DIST.											
↑ KHARKOV	22	0751 E	0904		S17	W46	4765	73 D	2	2	0812		14.60	1.80			
	22	0800 E	0825 D		S22	W42	4765	25 D	2	1	0813		7.60		122		
	22	0801 E	0825 D		N20	W33	4764	24 D	1	1	0813		1.20		80		
{ KHARKOV	22	0818 E	0832		N22	W34	4764	14 D	1	2	0821		2.90	1.60			
	22	1009	1031		N19	W65	4756	22	2	3			6.00				
	22	1014	1032	1018 U	N16	W65	4756	18	2	2	1018		12.00		71		
{ CAPRI-G	22	1402	1418		N21	W36	4764	16	1	1			4.00				
	{ CAPRI-G	23	1026	1059		S21	W49	4765	33	16	1			4.00			S-SWF
		23	1027	1050 D		S15	W44	4765	23 D	2	1						
{ NEDERHORST	23	1335	1510		N23	W48	4764	95	2	2			6.00				
	{ CAPRI-G	24	0630 E	0745		N28	W04	4777	75 D	2	3			6.00			
		24	0949 E	1006		S15	W51	4765	17 D	16	2			4.00			
{ CAPRI-G	24	0955	1010		S19	E53	4776	15	16	2			4.00				
	24	2244	2335	2255	N22	W62	4764	51	2	2	2255	3.00	6.00				
	{ SYDNEY	25	0036	0041	0036	S14	E47	4778	5	16	2	0036		2.16		96	
0730 E			0750	0736 U	S22	E60	4778	20 D	16	2	0744		4.00	2.40	96		
0740 E			0745 D		S24	E58	4778	5 D	1	3			3.00				
{ KIEV	25	0909 E	1025 D	0933 U	S22	W66	4765	76 D	1	2	0933		3.64		57		
	25	1012	1040	1023	S24	E57	4778	28	1		1023	1.30	2.90				
	25	1021	1030 D	1030 U	S22	E58	4778	9 D	1	2	1029		2.56		69		
{ CAPRI-G	25	1314	1402		S24	E54	4778	48	1	3			3.00				
	25	1937 E	1943 D		S24	E50	4778	6 D	1								
	25	2045	2113	2049	S07	E12	4771	28	1								
{ MT WILSON	25	2243	2300	2253	N18	W86	4764	17	2	2	2253		6.20		140	S-SWF	
	25	2256	2314	2257	S08	E57	4781	18	16	2	2257		2.26		133		
	25	2339	0005	2355	N19	W84	4764	26	16	2	2355		2.65		97		
{ VOROSHILOV	26	0002	0054	0005	S21	E53	4778	52	16	2	0005		2.39		129		
		0047	0106	0051	N19	W85	4764	19	26	1	0051		7.50		238		
		0120	0132	0127	N19	W87	4764	12	16	1	0127		4.50		120		
{ TASHKENT	26	0521	0535	0529	N22	W82	4764	14	1	2	0530			3.40	65		
	{ VOROSHILOV	27	0031	0041	0032	N12	E52	4782	10	16	2	0032		2.29		95	
		27	0659 E	0904 D	0844	N28	E56	4786	185 D	1	2	0844		2.00		70	
27		0706	0810		N28	E58	4786	64	1	3			4.00				
{ GOOD HOPE	27	1027 E	1056	1030	N09	E45	4782	39 D	1		1030	1.50	2.10				
	27	1035	1055	1041	N09	E44	4782	20	16	2	1041		1.70				
	27	1035	1105	1040	N29	E54	4786	30	1		1040	2.00	3.50				
{ SCHAUMS	27	1044 E	1050		N29	E52	4786	6 D	1	2			3.00	2.40			
	27	1048 E	1110		N28	E58	4786	22 D	2	1			6.00				
	27	1140	1305		N28	E55	4786	85	16	2			5.00				
{ CAPRI-G	27	1250	1325		N12	W27	4768	35	1	2			4.00				
	27	1316	1325		S11	E35	4781	9	1	1			3.00				
	27	1436	1451		N29	W46	4769	15	1	1			4.00				
{ VOROSHILOV	28	0123 E	0138		N26	W56	4769	15 D	2	2	0126		3.30		220	S-SWF	
	28	0623	0632		N13	W39	4785	9	1	3			3.00				
	{ TASHKENT	29	0519	0551	0521	S09	E09	4781	32	16	2	0521		13.00	2.40	80	
29		1030	1115		S14	E08	4781	45	1	3			3.00				

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		START	END	MAX. PHASE	LAT.	MER. DIST.	McMATH PLAGE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _z	MAX. INT. %	
CAPRI-G	29	1144	1154		S11	E07	4781	10	1	3			3.00			
CAPRI-G	29	1205	1300		N35	E37	4787	55	1	1			3.00			
{ HUANCAYO	29	1556	1613	1558	S13	E59	4791	17	16	2	1558	2.90	6.00	2.50		
{ SCHAUINS	29	1600 E	1611		S26	E52	4791	11 D	16	1			2.00	3.20		
SYDNEY	30	0418 E	0448	0421	S06	W00	4781	30 D	1	1	0421	4.00	4.00			
TASHKENT	30	0609	0650	0625	S09	W02	4781	41	1	3	0621		3.00	2.20	55	
{ GOOD HOPE	30	0940	1000	0945	S27	E65	4793	20	16		0945	1.70	5.20			S-SWF
{ KIEV*	30	0942 E	0951		S24	E56	4793	9 D	2	2			8.20			
CAPRI-G	30	1119	1133		S09	W01	4781	14	1	2			3.00			
{ CAPRI-G	30	1151	1215		S17	W25	4776	24	16	3			4.00			
{ KIEV	30	1152	1202	1155	S17	W24	4776	10	1	1	1154		1.09		84	
{ KIEV*	30	1153 E	1204		S17	W22	4776	11 D	16	2			1.40			
CAPRI-G	30	1459	1525 D		S13	W26	4776	26 D	1	3			3.00			
CAPRI-G	30	1503	1525 D		N31	W10	4780	22 D	1	3			4.00			
CAPRI-G	30	1515	1525 D		N30	W90	4769	10 D	16	3						

These flare reports are addenda to the September 1958
flares published in CRPL-F 170 Part B, October 1958.

CAPRI G ANACAPRI - GERMAN
CAPRI S ANACAPRI - SWEDISH
GOOD HOPE ROYAL OBSERVATORY, CAPE OF GOOD HOPE
KIEV* KIEV UNIVERSITY
KODAIKNAL KODAIKANAL
KRASNAYA KRASNAYA PAKHRA
MOSCOW NIZMIR

MOSCOW-G MOSCOW - GAISH
R O EDIN ROYAL OBSERVATORY, EDINBURGH
R O HERST GREENWICH ROYAL OBSERVATORY, HERSTMONCEUX
SAC PEAK SACRAMENTO PEAK
SCHAUINS SCHAUINSLAND
USNRL UNITED STATES NAVAL RESEARCH LABORATORY

SAC PEAK: ALL VALUES IN MAX. INT. COLUMN ARE
ARBITRARY UNITS (0-40), NOT PERCENT
OF CONTINUOUS SPECTRUM.

E - LESS THAN & - PLUS
D - GREATER THAN - - MINUS
U - APPROXIMATE □ - NOT REPORTED