SOLAR FLARES

FEBRUARY 1960

OBSERVATORY	DATE FEB 1960	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
ARCETRI	01	1002	1016 D		S16	E73	5562	14 D	1	3						
ARCETRI	02	1220 E	1235 D		N09	W48	5550	15 D	1	3						
LOCKHEED	02	1850	1935	1855	N12	W15	5552	45	1	2	1855	2.50			20	
WENDEL	03	0818 E	0908 D		S14	W35	5551	50 D	2				10.00			S-SWF
ARCETRI	03	0823 E	0902 D		S15	W38	5551	39 D	2	3	0839	4.13	5.24			
ARCETRI	03	0943 E	1014 D		N10	W25	5552	31 D	1	3						
WENDEL	03	0945 E	1015 D		N09	W22	5552	30 D	1				7.00			
WENDEL	03	1007 E	1046 D		S16	W37	5551	39 D	1				4.00			
WENDEL	03	1102 E	1120 D		S15	W39	5551	18 D	1				4.00			
WENDEL	03	1210 E	1306	1229	N11	W24	5552	56 D	2+				14.00			S-SWF
ARCETRI	03	1235 E	1254 D		N10	W25	5552	19 D	2	2						
MCMATH	03	1708	1850		S13	W40	5551	102	2	1	1729		6.00			Slow S-SWF
MCMATH	03	2015	2043 D	2025	N10	W32	5552	28 D	1+	1	2025		4.00			Slow S-SWF
SAC PEAK	03	2150 E	2155 D	2150 E	N18	W28	5555	5 D	2	1		5.77			18	
MCMATH	04	1336 E	1423		S15	W48	5551	47 D	1	1	1357		3.00			Slow S-SWF
MCMATH	04	1600	1635	1615	S14	W53	5551	35	1	1	1615		2.00			S-SWF
HUANCAYO	04	1615 E	1641	1616	S15	W48	5551	26 D	1	1	1616	2.00	3.00	2.60		
SAC PEAK	04	1636	1652 D	1650 U	S15	E23	5562	16 D	1	2		2.80			16	
MCMATH	04	1636	1830	1650	S15	E25	5562	114	1+	1	1710		5.00			S-SWF
HUANCAYO	04	1641	1718	1643	S14	E24	5562	37	1	1	1643	3.10	3.40	3.30		
LOCKHEED	04	1725 E	1750	1725 E	S14	E24	5562	25 D	1	1	1725	2.60			10	
MCMATH	04	1927	1948	1929	N09	W42	5552	21	1	1	1929		2.00			
LOCKHEED	05	1731	1805	1737	S25	E15	5561	34	1	2	1738	2.40			40	
LOCKHEED	05	1943 U	2007 D	1949 U	N12	W53	5552	24 D	1	1	1949	1.90			30	
HAWAII	05	1946	1958 D		N07	W60	5552	12 D	1	2	1950	1.10				
LOCKHEED	05	2045 U	2059 U	2048 U	S15	W13	5560	14 D	1	1	2048	1.80			40	
SAC PEAK	05	2112	2140	2122	N12	W57	5552	28	1+	2		4.74			27	
HAWAII	05	2122 E	2154		N08	W60	5552	32 D	1+	2	2124	2.00				
SAC PEAK	05	2114	2204	2118	S18	W68	5551	50	1	2		3.20			18	
HAWAII	05	2154	2204 D	2158	S14	E10	5562	10 D	1	2	2158	1.20				
HAWAII	05	2320	2410	2336	S14	E16	5562	50	1	3	2336	1.80				
HAWAII	06	0130	0146	0132	S16	W17	5560	16	1	2	0132	1.00				
ARCETRI	06	0805 E			S13	E01	5562		1	2						
DUNSINK	06	1227 E	1233 D	1227	N06	W65	5552	6 D	1	1	1227	1.25	2.96	3.70		
HAWAII	06	2010	2024	2013	S13	W05	5562	14	1	3	2013	1.50				
SAC PEAK	06	2054	2126	2110	N13	W65	5552	32	1	1		2.24			14	
WENDEL	07	0910 E	1007 D		N09	W76	5552	57 D	1+				5.00			
WENDEL	07	0932 E	0956 D		N18	W67	5555	24 D	1				3.00			
WENDEL	07	1022 E	1128 D		N09	W77	5552	66 D	1				4.00			
WENDEL	07	1022 E	1135 D		S13	W12	5562	73 D	1+				7.00			
WENDEL	07	1117	1137 D		N19	E20	5563	20 D	1				3.00			
WENDEL	07	1133	1148		N09	W78	5552	15	1+				5.00			
WENDEL	07	1154 E	1222		N09	W78	5552	28 D	1				3.00			
WENDEL	07	1312	1328 D		N19	E16	5563	16 D	1				3.00			
WENDEL	07	1331 E	1358 D		S19	E68	5567	27 D	1				3.00			
WENDEL	07	1450 E	1502 D		N10	W75	5552	12 D	1				3.00			
WENDEL	08	0914 E	0920 D		S27	E85	5572	6 D	1				4.00			

SOLAR FLARES

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WENDEL	08	1020 E	1058 D		S18	W22	5562	38 D	1				4.00			
ARCETRI	08	1021 E	1028 D		S19	W24	5562	7 D	1	1						
WENDEL	08	1247 E	1313 D		S27	E83	5572	26 D	1				3.00			
HUANCAYO	08	1602 E	1624		S15	W26	5562	22 D	1	2	1604	3.50	3.90	2.60		
HAWAII	09	0028	0200 D	0028	S17	W35	5562	92 D	1	3	0128	1.20				
WENDEL	09	1039	1122		S14	W45	5562	43	1+				7.00			
WENDEL	09	1140 E	1158 D		S19	W38	5562	18 D	1				3.00			
WENDEL	09	1332	1359 D		N02	W21	5563	27 D	1				3.00			
WENDEL	09	1443 E	1510 D		S13	W46	5562	27 D	1				3.00			
HUANCAYO	09	1947 E	2026 D	2004	S14	W42	5562	39 D	1	2	2004	3.40	4.60			
HUANCAYO	09	2150	2159	1652	S25	E75	5572	9	1	2	1652	1.20	4.00	5.00		
WENDEL	10	0832	0853		N18	E20	5566	21	1				3.00			
WENDEL	10	1115 E	1127 D		S12	W56	5562	12 D	1				3.00			
WENDEL	10	1517 E	1533 D		S14	W57	5562	16 D	1				3.00			
HAWAII	13	1940 E	1946		N15	E08	5570	6 D	1	2	1940	1.20				
SAC PEAK	13	2002	2022	2012	N09	E46	5574	20	1	1		3.53			25	
LOCKHEED	13	2002	2050	2007	N10	E45	5574	48	1	2	2007	2.50			30	Slow S-SWF
HAWAII	13	2006 E	2028		N13	E45	5574	22 D	1	2	2014	1.40				
WENDEL	14	1119 E	1148		N11	E12	5570	29 D	1				3.00			
WENDEL	14	1218	1237		N14	E41	5574	19	1				3.00			
WENDEL	14	1357 E	1417 D		N12	E10	5570	20 D	1				3.00			
LOCKHEED	14	1746	1815	1751	S24	E07	5572	29	1	2	1751	1.90			20	
HAWAII	15	2248 E	2306		S26	W10	5572	18 D	1	1	2300	1.60				
HAWAII	17	2112	2200	2118	N10	W02	5574	48	1+	3	2118	3.70				
LOCKHEED	19	2104	2150	2110	N12	W63	5570	46	1	2	2110	2.00			20	
LOCKHEED	19	2104	2150	2122	N12	W63	5570	46	1	2	2122	2.00			20	
WENDEL	21	1354 E	1413 D		N17	W70	5570	19 D	1				4.00			
WENDEL	21	1421 E	1435 D		S18	E46	5580	14 D	1				3.00			
MCMATH	22	1424 E	1517 D		N08	E42	5581	53 D	2+	1	1428		9.00			S-SWF
SAC PEAK	22	1429	1520	1429	N07	E41	5581	51	2	2		7.89			18	
ARCETRI	24	0854 E	0908 D		S20	E05	5580	14 D	1	2						
WENDEL	24	1440 E	1458 D		N06	E16	5581	18 D	1				4.00			
WENDEL	24	1511 E	1523 D		N10	E17	5581	12 D	1				3.00			
MEUDON	25	0704	0800	0714	S18	W05	5580	56	2+							
HAWAII	26	0122	0138	0128	N13	E15	5584	16	1	3	0128	1.80				
ARCETRI	26	0855 E	0858 D		S10	E75	5587	3 D	1	1						
HAWAII	26	2130 E	2202 D		N11	E14	5584	32 D	2+	2	2130	2.90				
MEUDON	27	1116	1215		S20	W35	5580	59	1							
WENDEL	28	1019	1043 D		N12	W07	5584	24 D	1				3.00			

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MEUDON	28	1020	1035		N15	W12	5584	15	1							
ARCETRI	28	1035 E			N12	W09	5584		1	2						
HAWAII	29	0140	0200 D		S32	W56	5580	20 D	2	3	0200	3.20				
WENDEL	29	1330 E	1400 D		N23	E08	5586	30 D	1				4.00			
SAC PEAK	29	1522	1632	1546	N23	E04	5586	70	1	2		3.43			18	
HUANCAYO	29	1524	1635	1546	N22	E07	5586	71	1	2	1546	4.30	4.90	4.70		

COMMERCE - STANDARDS - BOULDER

CAPRI G ANACAPRI - GERMAN
CAPRI S ANACAPRI - SWEDISH
GOOD HOPE ROYAL OBSERVATORY, CAPE OF GOOD HOPE
KIEV* KIEV UNIVERSITY
KODAIKNAL KODAIKANAL
KRASNYA KRASNAYA PAKHRA
LOCKHEED LOS ANGELES
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
D - GREATER THAN
U - APPROXIMATE
& - PLUS
- - MINUS
□ - NOT REPORTED

LOCKHEED OBSERVATIONS: ALL VALUES IN THE MAXIMUM INTENSITY COLUMN ARE ARBITRARY UNITS ON A SCALE OF 10 TO 40 - NOT PERCENT OF THE CONTINUOUS SPECTRUM.

SOLAR FLARES

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MITAKA	01	0346 E	0414 D		N07	W39	5550	28 D	1	1	0346	3.93	5.90	1.98	91	
GOOD HOPE	01	1122	1130	1122	S15	W08	5551	8	1		1122	2.10	2.20			
CAPRI S	01	1344 E	1407 D		S14	W10	5551	23 D	1	3	1346	3.00	3.10			
CAPRI S	01	1408	1541 D		N07	W20	5550	93 D	1	3	1416	3.00	3.10			
CAPRI S	01	1501	1520 D		S14	W10	5551	19 D	1	3	1505	3.00	3.10			
CAPRI S	01	1554 E	1607 D		S14	W12	5551	13 D	1	2	1555	2.10	2.10			
STOCKHOLM	02	0910 E	0925 D		S26	E53	5561	15 D	1	1	0912	2.00	4.00			
GOOD HOPE	02	1021	1043	1024	S17	W18	5551	22	1		1024	2.30	2.50			
GOOD HOPE	02	1038	1050	1042	N12	W66	5550	12	1		1042	1.00	2.50			
GOOD HOPE	02	1220	1238	1227	N12	W66	5550	18	1		1227	.90	2.20			
GOOD HOPE	02	1307	1316 D	1311	N25	W17	5553	9 D	1		1311	2.10	2.50			
CAPRI S	03	0817 E	0859 D		S15	W35	5551	42 D	2	3	0820	5.00	6.20			S-SWF
GOOD HOPE	03	0817	0930	0820	S13	W36	5551	73	2		0820	7.10	8.90			
CAPRI S	03	0934 E	1015 D		N10	W23	5552	41 D	1	3	0957	3.00	3.30			
GOOD HOPE	03	0945 E	1017	0950	N10	W22	5552	32 D	1		0950	2.50	2.80			S-SWF
NIZAMIAH	03	0954	1017	1002	N06	W20	5552	23	1	1	1002	2.13	2.31	1.70		
GOOD HOPE	03	1215	1241 D	1231	N10	W26	5552	26 D	2		1231	10.10	11.80			Slow S-SWF
CAPRI S	03	1215 E	1305		N09	W25	5552	50 D	2	3	1231	5.00	5.50			
MITAKA	03	2353 E	0004 D		S15	W44	5551	11 D	1+	1	2353	5.90	7.91	3.14	134	S-SWF
MITAKA	04	0115 E	0132 D		N10	W33	5552	17 D	2+	1	0115	6.19	7.55	3.17	213	S-SWF
GOOD HOPE	04	0719	0734	0724	S13	W48	5551	15	1		0724	1.50	2.20			
GOOD HOPE	04	0738	0813 D	0757	S12	W49	5551	35 D	1		0757	2.60	4.00			S-SWF
ATHENS	04	0845 E	0857		N10	W41	5552	12 D	1			1.70	2.10			S-SWF
KODAIKNL	04	0845 E	0858 D	0845	N10	W37	5552	13 D	1+	4	0845	5.20	6.80	2.00	154	
GOOD HOPE	04	1306	1355	1316	S15	W50	5551	49	2		1316	5.50	8.60			Slow S-SWF
MITAKA	05	0204 E	0226		S16	W06	5560	22 D	1+	1	0220	7.86	8.02	2.45	107	
MITAKA	05	0315 E	0325		S15	E20	5562	10 D	2	1	0320	5.90	6.37	1.78	183	
GOOD HOPE	05	0645	0701	0648	S16	W08	5560	16	1		0648	2.70	2.80			
CAPRI S	05	0956 E	1023 D		S15	E18	5562	27 D	1	1	1002	2.50	2.70			
GOOD HOPE	05	0956	1040	0957	S14	E17	5562	44	1		0957	1.70	1.80			
R O HERST	05	1350 E	1400	1350 E	N11	W50	5552	10 D	1	3	1351	1.90	3.60			Slow S-SWF
MITAKA	06	0306 E	0325		S17	W73	5551	19 D	1	1	0306	3.44		2.22		Slow S-SWF
GOOD HOPE	06	1222	1247		N11	W67	5552	25	1		1231	1.20	3.20			S-SWF
CAPRI S	06	1224 E	1241 D		N10	W65	5552	17 D	1	2	1227	2.00	4.90			
GOOD HOPE	06	1340	1346 D	1344	S13	W80	5551	6 D	1		1344	1.80				Slow S-SWF
GOOD HOPE	07	1013	1043	1019	N15	W78	5552	30	1		1028	.60				
UCCLE	07	1020 E			N13	W80	5552		1	3						
GOOD HOPE	07	1134	1215	1137	N14	W81	5552	41	2		1137	1.70				
UCCLE	07	1135			N12	W80	5552		2	4						
GOOD HOPE	08	0834	0906	0841	N14	W90	5552	32	1		0841	.30				
MITAKA	09	0115	0208	0125	S16	W33	5562	53	1	1	0121	2.75	3.30	2.50	134	
UCCLE	09	1045	1130	1058	S13	W45	5562	45	2	2	1058	7.00	10.00			
NIZAMIAH	10	0427	0434 D		S13	W50	5562	7 D	1	1	0427	1.82	2.93	1.50		S-SWF

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ATHENS	11	0750 E	0800		N12	E51	5570	10 D	1+			2.50	4.20			
MITAKA	13	0425	0447	0435	N13	E24	5570	22	1	1	0435	2.95	3.57	1.85	107	
GOOD HOPE	16	1129	1149	1132	N22	W65	5566	20	1		1132	.80	2.30			
MITAKA	20	0235	0259	0238	S20	E63	5580	24	2	1	0238	9.83	20.45	1.75	152	Slow S-SWF
MITAKA	20	0302 E	0331	0314	S20	E63	5580	29 D	1	1	0302	1.47	3.06	1.95	110	Slow S-SWF
KODAIKNL	20	0307 E	0313 D	0307	S20	E63	5580	6 D	1	2	0307	2.60	5.50	1.60	135	
GOOD HOPE	20	1054	1112	1102	N12	W69	5570	18	1		1102	1.60	4.90			
CAPRI S	20	1531 E	1546 D		N17	E90	5584	15 D	1	1	1538	2.00				
GOOD HOPE	21	0755	0817	0758	N14	W85	5570	22	1		0758	.70				
GOOD HOPE	21	1355	1411 D	1358	N18	W70	5570	16 D	1		1358	.90	3.10			
MITAKA	22	0313 E	0321		N04	E32	5581	8 D	1	1	0313	1.47	1.75	2.27	107	
GOOD HOPE	22	1352	1405 D	1400	N11	E41	5581	13 D	3		1400	12.00	17.00			S-SWF
MITAKA	23	0246 E	0253	0247	N08	E37	5581	7 D	1	2	0248	2.95	4.01	2.39	120	
MITAKA	23	0551	0646	0604	S20	E20	5580	55	1+	2	0551	4.92	5.56	3.32	146	Slow S-SWF
GOOD HOPE	23	0637 E	0722		S19	E22	5580	45 D	1		0640	3.10	3.40			
MITAKA	24	0121 E	0126 D		N07	E47	5584	5 D	1	1	0121	4.92	7.18	1.64	100	
NIZAMIAH	24	0435	0442	0437	N08	E15	5581	7	1	2	0437	2.43	2.60	1.50		
NIZAMIAH	24	0539	0546	0542	N08	E14	5581	7	1	2	0542	2.43	2.60	1.50		
NIZAMIAH	24	0930 E	0959	0953	N08	E15	5581	29 D	1	2	0953	2.43	2.60	1.50		
STOCKHOLM	24	1425 E	1435 D		S21	E06	5580	10 D	1	1	1525	2.50	2.60			
GOOD HOPE	26	0702	0808	0711 U	S19	W17	5580	66	2		0711	6.60	7.10			
ATHENS	26	0709 E	0835		S20	W16	5580	86 D	2+			11.20	11.70			
CAPRI S	26	0742	0845 D		S25	W15	5580	63 D	1	3	0746	4.80	5.30			
CAPRI S	27	0829 E	0852 D		S12	E62	5587	23 D	2	3	0845	4.00	8.00			
GOOD HOPE	27	1117	1137	1120	S21	W30	5580	20	1		1120	1.90	2.20			
CAPRI S	27	1426 E	1449 D		S12	E62	5587	23 D	2	1	1430	3.00	6.00			
CAPRI S	28	1020	1049 D		N11	W07	5584	29 D	1	3	1024	2.00	2.00			
CAPRI S	29	1324 E	1347 D		N22	E05	5586	23 D	1	3	1344	2.50	2.70			
CAPRI S	29	1522 E	1635 D		N22	E04	5586	73 D	1	2	1550	3.50	3.80			

These flare reports are addenda to the February 1960 flares published in CRPL-F 187 Part B, March 1960.

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KODAIKNAL KODAIKANAL
KRASNYA KRASNAYA PAKHRA
LOCKHEED LOS ANGELES

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

LOCKHEED OBSERVATIONS: ALL VALUES IN THE MAXIMUM INTENSITY COLUMN ARE ARBITRARY UNITS ON A SCALE OF 10 TO 40 - NOT PERCENT OF THE CONTINUOUS SPECTRUM.