

PART B
SOLAR - GEOPHYSICAL DATA

ISSUED
JULY 1962

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

SOLAR - GEOPHYSICAL DATA

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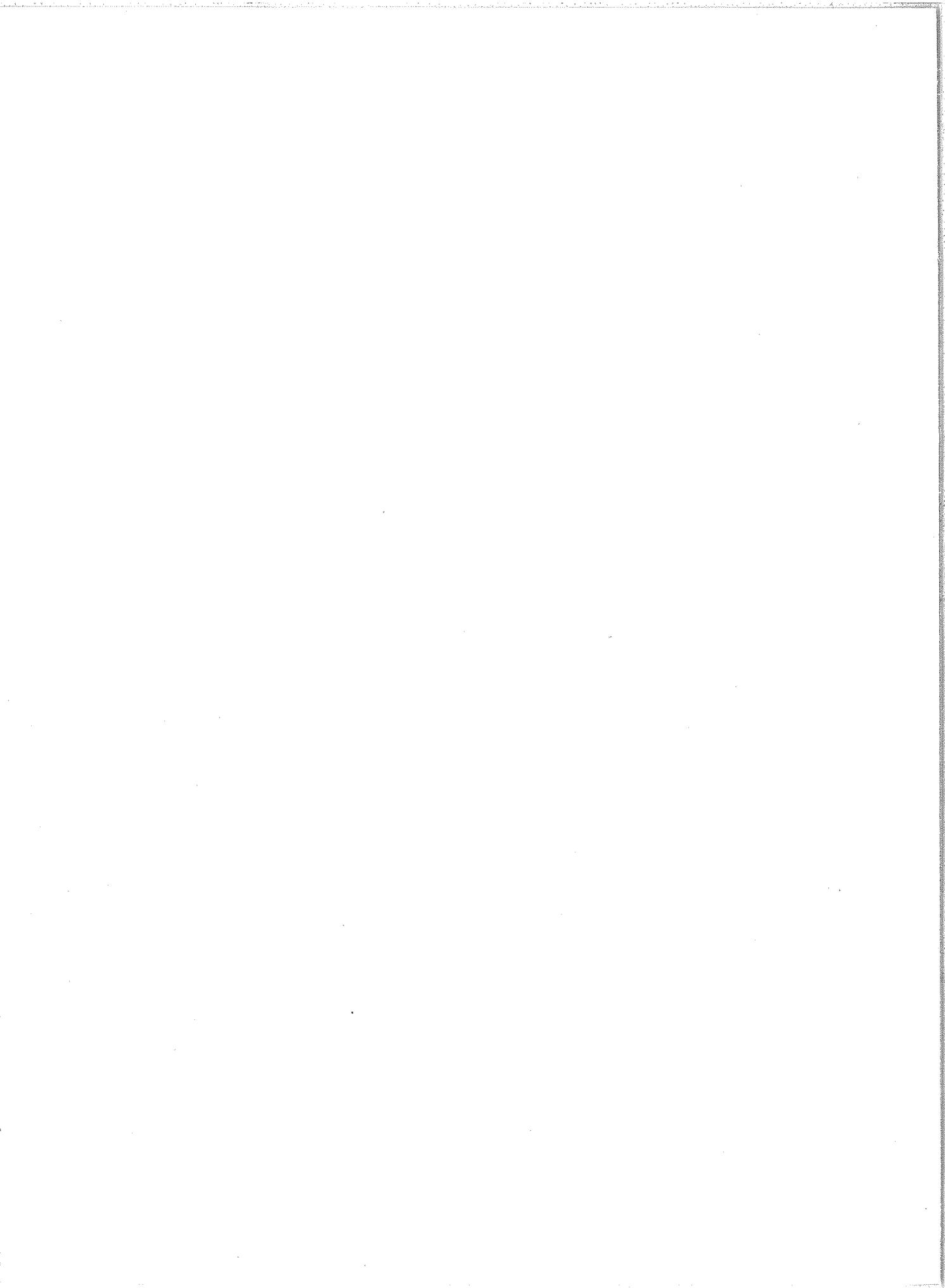
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The descriptive text was republished November 1961.
Addenda to the text were published February 1962.

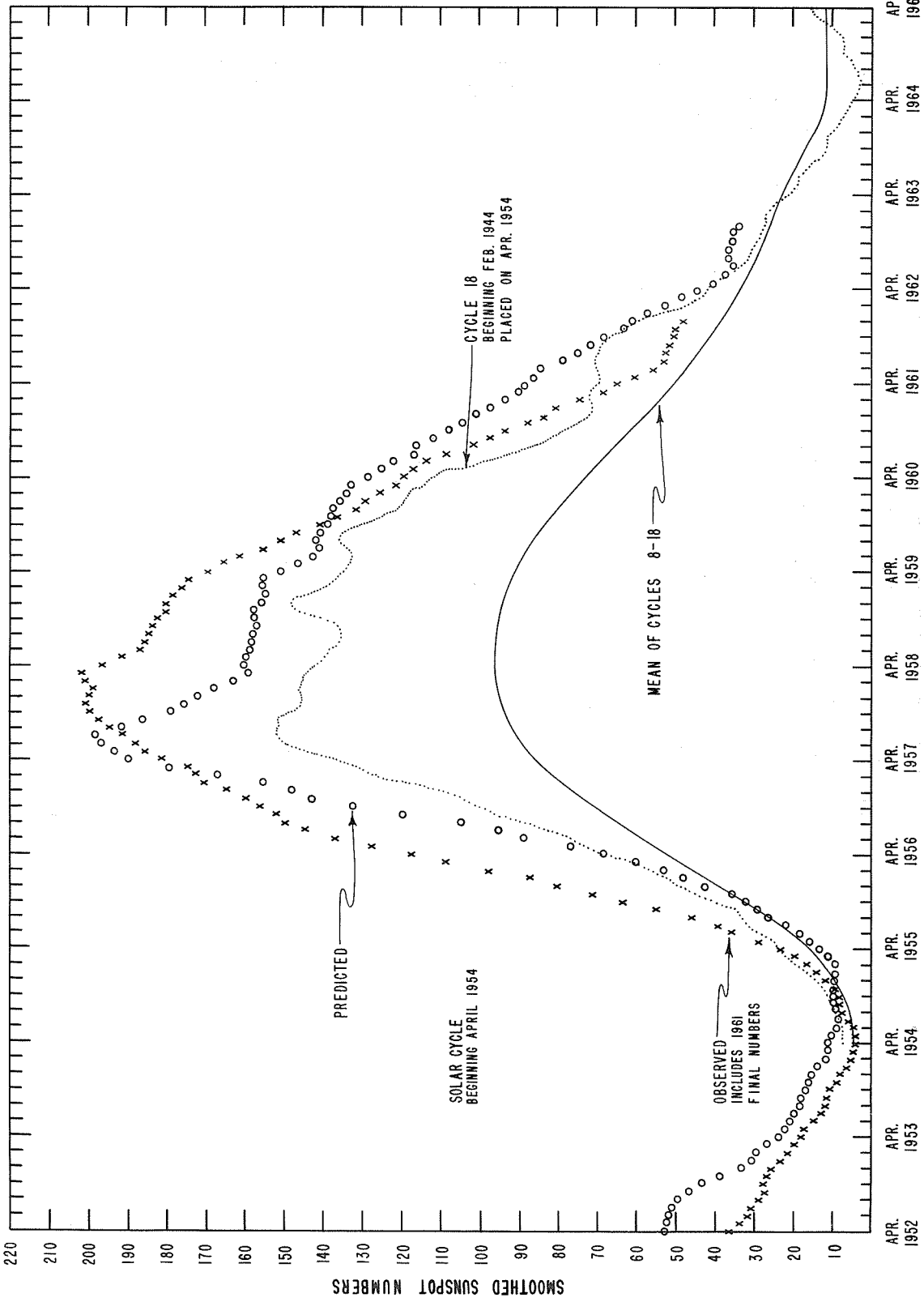
DAILY SOLAR INDICES

May 1962	American Relative Sunspot Numbers R _A '
1	34
2	48
3	40
4	44
5	31
6	35
7	18
8	17
9	38
10	45
11	39
12	39
13	24
14	17
15	13
16	16
17	26
18	22
19	23
20	32
21	42
22	44
23	41
24	44
25	47
26	46
27	42
28	42
29	49
30	39
31	33
Mean:	34.5

June 1962	Zürich Provisional Relative Sunspot Numbers R _Z	Daily Values Solar Flux at 2800 Mc, Ottawa, Canada Flux
1	34	98
2	30	92
3	25	87
4	21	85
5	23	85
6	33	87
7	32	92
8	32	90
9	46	91
10	41	90
11	40	89
12	39	88
13	39	89
14	40	89
15	59	93
16	58	95
17	70	98
18	68	97
19	62	98
20	44	96
21	35	90
22	46	90
23	38	86
24	30	87
25	43	90
26	46	92
27	36	93
28	44	91
29	44	*
30	49	*
Mean:	41.6	91.0

* No observations

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PREDICTED AND OBSERVED SUNSPOT NUMBERS

CALCIUM PLAGE AND SUNSPOT REGIONS

JUNE 1962

CMP June 1962	Lat	McMath Plage Number	Return of Region	Calcium Plage Data				Sunspot Data	
				CMP Values		History, Age	CMP Values		History
			Area	Int.			Area	Count	
02.4	N19	6431	6411	700	2	<i>l - l</i>	2		
03.5	S18	6432	6414	1800	3	<i>l - l</i>	2		
04.0	N04	6442	New	(600)	(1.5)	<i>b / l</i>	1		
05.9	N10	6436	New	1500	3	<i>l - l</i>	1	80	7
07.0	S04	6439	*	500	2	<i>l \ d</i>	1		<i>l \ d</i>
07.4	S13	6437	New	800	2.5	<i>l \ d</i>	1		
07.6	N14	6438	6412	1400	2.5	<i>l - l</i>	4		
07.6	N05	6448	New	(400)	(2.5)	<i>b / l</i>	1		
07.6	S17	6449	New	(100)	(1)	<i>b / l</i>	1		
08.8	N16	6454	New	(500)	(2)	<i>b / l</i>	1		
09.0	N05	6440	New	400	2	<i>l \ l</i>	1		
10.9	S08	6441	6416	2000	3	<i>l - l</i>	3	220	3
11.4	N12	6443	6417	1400	1.5	<i>l - l</i>	6		
12.8	S08	6446	New	800	1	<i>l - l</i>	1		
13.4	N10	6444	6417	(700)	(1.5)	<i>l \ d</i>	6		
14.0	N15	6447	6419	1400	2.5	<i>l - l</i>	6		
15.0	S13	6445	New	1800	3.5	<i>l - l</i>	1	130	3
15.6	N19	6451	6421	1700	2.5	<i>l - l</i>	6		
16.2	N08	6452	New	1400	3	<i>l - l</i>	1	70	4
17.0	S10	6455	New	600	3	<i>l / l</i>	1	160	3
17.3	N08	6453	6429	1100	2.5	<i>l \ l</i>	2		
17.5	N26	6457	New	1400	2	<i>b ^ d</i>	1		
19.1	N12	6456	6424	300	1.5	<i>l - d</i>	3		
22.4	N18	6458	6426	1200	3	<i>l - l</i>	3		
23.4	N14	6459	6426	4000	3.5	<i>l \ l</i>	3	220	5
24.1	S07	6460	6427	3500	3	<i>l \ l</i>	3	10	1
25.3	N16	6464	6428	1000	1	<i>l \ d</i>	4		
26.4	N05	6461	New	400	1.5	<i>l \ d</i>	1		
30.4	S00	6463	New	3000	3.5	<i>l - l</i>	1	510	4

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*New in position of 6415.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

11b

JUNE 1962

June 1962	Time Meas.	Lat.	Mer. Dist.	Type	June 1962	Time Meas.	Lat.	Mer. Dist.	Type
3	0005	N16 S17 N09	W14 E04 E35	a p a p a p	17	1720	S12 N12 N03 N09 S17 N14 N15 S09	W38 W32 W23 W17 W07 E57 E72 E80	β p a p β p a p β p a p β p a p
3	1645	N08 S06	E25 E46	a p β f					
5	1755	N07 S08	W01 E68	β p a p					
7	1920	N09 S07	W25 E41	a f β f	18	1655	S11 N05 S15 N16 S09	W53 W39 W21 E59 E67	β p a p β β γ a p
9	2345	S07 S12	E13 E62	β γ * β p					
10	1700	S07 S13	E03 E53	β * β p	20	1640	N10 N14 S11	W51 E31 E43	β β p β p
11	2340	S08 S13 S10	W14 E43 E42	β p* a p a p	24	1615	N16 S01	W23 E76	β p β p*
12	1620	S08 S10 N05	W24 E32 E60	β β p β p	25	2125	N06 N16 S01 S22	W75 W39 E58 E72	a p β β p* β p
13	1745	S08 S03 S00 N10 S11 N09 N04	W38 E00 E02 E07 E17 E36 E43	β f β f a p++ a f β p a p a p	26	1620	N11 S00 S21	W68 E48 E64	a f β p+ β p
					27	1820	S00 S18 S21	E35 E37 E48	β p+ β β p
16	1625	S11 N12 N02 N09 S16 N14	W24 W17 W08 W03 E07 E70	β p a p β f β p β γ a p	28	2310	S00 S20	E19 E28	β p+ β p
					29	2400	S00 S20	E06 E25	β p+ a p
					30	1625	S00 S22 S08	W03 E09 E49	β p+ β p β f

* Polarities reversed

+ Polarities correct for N hemisphere

PROVISIONAL CORONAL LINE EMISSION INDICES

JUNE 1962

CMP Jun 1962	North East Quadrant (observed 7 days earlier)				South East Quadrant (observed 7 days earlier)				South West Quadrant (observed 7 days later)				North West Quadrant (observed 7 days later)			
	G ₆	G ₁	R ₆	R ₁	G ₆	G ₁	R ₆	R ₁	G ₆	G ₁	R ₆	R ₁	G ₆	G ₁	R ₆	R ₁
1	10	15	4	8	7	9	4	6	x	x	x	x	x	x	x	x
2	7	12	x	x	17	26	x	x	30	70	30	50	14	34	36	42
3	18	28	3	5	29	60	0	1	24	45	48a	85a	9	14	44a	66a
4	x	x	x	x	x	x	x	x	23a	34a	45a	89a	10a	11a	56a	120a
5	7	15	21	48	6	16	23	32	x	x	x	x	x	x	x	x
6	43	73	x	x	22	53	x	x	4	8	6	7	9	16	5	7
7	x	x	x	x	x	x	x	x	1a	2a	7a	12a	34a	76a	17a	20a
8	1	3	9	10	0	0	8	10	6a	14a	3a	5a	13a	28a	4a	5a
9	29	45	x	x	23	53	x	x	23	61	5	20	17	27	2	8
10	43	59	12	17	53	120	27	60	43	98	7	12	27	36	5	8
11	56	87	x	x	48	115	x	x	52	135	13a	20a	55	98	13a	18a
12	1	2	0	0	1	5	1	2	40	62	29	48	47	62	15	28
13	x	x	x	x	x	x	x	x	51	87	x	x	77	134	x	x
14	22	28	16	44	17	27	5	8	59	115	x	x	71	126	x	x
15	62	109	2a	4a	24	34	1a	4a	x	x	x	x	x	x	x	x
16	70	120	34	68	17	20	20	48	x	x	x	x	x	x	x	x
17	43	87	19a	28a	5	8	22a	24a	x	x	x	x	x	x	x	x
18	42	62	10a	16a	9	14	21a	28a	8a	14a	23a	32a	x	x	14a	19a
19	x	x	x	x	x	x	x	x	6	14	15a	20a	36a	64a	16a	32a
20	6	8	4	5	2	4	4	7	x	x	33a	43a	27	31	36a	52a
21	38a	53a	14a	16a	14a	17a	9a	18a	4a	12a	7a	7a	27a	50a	4a	5a
22	38a	64a	4a	10a	3a	6a	4a	7a	x	x	x	x	x	x	x	x
23	53	87	9	22	18	45	9	22	x	x	x	x	45	67	x	20a
24	61	112	11	42	29	67	9	26	33	62	16a	32a	27	48	9a	7a
25	37	73	14	24	18	36	14	18	x	x	7a	7a	27	48	5a	7a
26	23	39	32	88	8	11	32	50	9	11	11a	19a	18	28	8a	15a
27	16	25	x	x	8	11	x	x	3	3	8a	10a	6	8	10a	20a
28	9	17	x	x	8	14	x	x	2	3	x	x	5	11	x	x
29	11	22	x	x	15	22	x	x	x	x	x	x	x	x	x	x
30	x	x	x	x	x	x	x	x	41	54	x	x	9	38	x	x

x = no observations

a = index computed from low weight data

* = yellow line observed

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SOLAR FLARES

JUNE 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		MAX. PHASE	LOCATION			DURATION - MINUTES	IM-PORTANCE	OBS. COND.	TIME - U T	MEASUREMENTS		PROVISIONAL IONOSPHERIC EFFECT
		START	END		APPROX. LAT.	MER. DIST.	MGMATH PLACE REGION					MEAS. AREA - Sq. Deg.	CORR. - Sq. Deg.	
KODAIKAL IKOMASAN BUCHAREST CAPRI S LOCKHEED SAC PEAK	01	0255	0300	NO FLARE	PATROL				1-					
	01	0355	0405	NO FLARE	PATROL				1-					
	01	0409	0410	D	S11 W61			20 D	1		0410	1.32	114	
	01	0415	0435	D	S08 W59			8 D	1		0415	1.10	95	
	01	0553	0601	D	N15 W75		6426		1		0553	1.30	100	
	01	0850	0854	D	N16 E80				2					
	01	1228	1256	D	S04 W62				3		1234	.40	10	
	01	1954	2010	D	S11 W69				2		1958	.70	18	
	01	1956	2007	E	S11 W70				2			.91	18	
	01	2006	2043	E	S08 W66		6427	37	2			5.92	18	
CAPRI S	02	0055	0135	NO FLARE	PATROL									
	02	0145	0230	NO FLARE	PATROL									
	02	0245	0623	NO FLARE	PATROL									
	02	0630	0700	NO FLARE	PATROL									
	02	0755	0826	D	N18 W90		6428	31 D	1		0817	2.00		
	02	0900	0945	NO FLARE	PATROL									
	02	0950	1035	NO FLARE	PATROL									
	03	0110	0515	NO FLARE	PATROL									
	03	0520	0600	NO FLARE	PATROL									
	03	0745	0750	NO FLARE	PATROL									
LOCKHEED	04	0000	0210	NO FLARE	PATROL									
	04	0215	0415	NO FLARE	PATROL									
	04	0450	0505	NO FLARE	PATROL									
	04	0510	0515	NO FLARE	PATROL									
	04	1015	1020	NO FLARE	PATROL									
	04	1050	1110	NO FLARE	PATROL									
	04	2110	2121	2115	N08 E22				1-		2115	.30	10	
	05	0120	0145	NO FLARE	PATROL									
	05	0350	0420	NO FLARE	PATROL									
	05	0425	0430	NO FLARE	PATROL									
BUCHAREST ARCETRI WENDEL WENDEL LOCKHEED	05	0740	0802	D	S08 E26		6439	22 D	1					
	05	0945	1025	D	N09 E04		6436	40 D	1					
	05	1010	1018	D	N08 E13		6436	8 D	1					
	05	1017	1018	D	S08 E73				1-					
	05	2352	2400	2356	N07 W05				1-		2356	.30	10	
	06	0000	0415	NO FLARE	PATROL									
	06	0540	0545	NO FLARE	PATROL									
	06	1249	1316	D	N08 W11		6436	27 D	1					
	06	1251	1306	D	N08 W10		6436		2		1253	.30		
	06	1331	1345	E	S08 E65		6441		2		1334	.20		
WENDEL MCNATH WENDEL MCNATH MCNATH WENDEL ONDREJOV SAC PEAK	06	1335	1352	D	S08 E74		6441	17 D	1					
	06	1432	1515	E	N09 W11		6436		2		1435	.40		
	06	1432	1515	E	N09 W11		6436		2					
	06	1450	1627	D	N08 W13		6436	97 D	1					
	06	1453	1506	D	N09 W12				1		1455	.43		
	06	1703	1723	E	S12 E62				3					

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SOLAR FLARES

JUNE 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION		DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	TIME — U.T.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END	APPROX. LAT.	MER. DIST.					MGRATH PLACE REGION	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
→ MCMATH	06	1714	1720	S08 E60		6441	1-	2	1716	.30	.60		
MCMATH	06	1821	1850 D	S08 E57		6441	1-	2	1829	.90	1.80		16
SAC PEAK	06	2035	2156	N10 E67			1-	3		.50	.87		17
	06	2059	2145	N06 W12			1-	3		.58	.56		
HONOLULU	06	2309	2330 D	S17 E04		6437	1-	1	2320	.41	.41		
	06	2309	2312 D	S08 E06		6441	1-	2	2311	.50	.50		20
LOCKHEED	06	2357	0034	S07 E50		6441	1	2	0010	2.00	2.50		
HONOLULU	06	2358	0050	S08 E54		6441	2	2	0012	3.92	5.40		
	07	1611	1623	S08 E45		6441	1-	2	1615	.40	.50		
MCMATH	07	1810	1830	S08 E43		6441	1-	2	1830	1.00	1.30		
SAC PEAK	07	1811	1846	S08 E43			1-	3		1.22	1.42		17
SAC PEAK	07	2007	2050	S08 E42			1-	3		.99	1.16		17
MCMATH	07	2016	2045	S08 E42		6441	1-	2	2026	.50	.70		
SAC PEAK	07	2256	2316 D	S09 E43		6441	1	3		2.87	3.30		21
	07	2315	2400	PATROL									
	08	0000	0015	PATROL									
	08	0025	0200	NO FLARE									
CAPRI F	08	0550 E	0554 E	N03 E10			1-	3	0551	1.00	1.00		
CAPRI S	08	1005 E	1033 D	S05 E33		6441	1	1	1011	1.60	2.10		
	08	1010 E	1028	S07 E35		6441	1	3	1014	3.00	4.00		
MCMATH	08	1145	1158	S08 E34		6441	1-	2	1148	.20	.20		
MCMATH	08	1302	1320	S08 E33		6441	1-	2	1307	.20	.20		
MCMATH	08	1330	1342	S08 E32		6441	1-	2	1332	.10	.10		
MCMATH	08	1745	1755	S08 E31		6441	1-	2	1745	.20	.20		
MCMATH	08	2100	2118	S08 E28		6441	1-	2	2104	.40	.40		
MCMATH	08	2257	2307	S10 E22		6441	1-	1	2258	.20	.20		
	09	0135	0200	PATROL									
KODAIKNI	09	0223	0226	S15 E72			1-	1	0223			1.52	114
	09	0325	0330	NO FLARE									
	09	0335	0340	NO FLARE									
ONDREJOV	09	0415 E	0442 E	S13 E70		6445	1	3	0415			2.70	
WENDEL	09	0503 E	0522 D	S14 E71		6445	1	2			4.00		
MCMATH	09	1347	1409 D	S07 E22		6441	1-	2	1359	.60	.70		
MCMATH	09	1420	1428 D	S07 E22		6441	1-	2	1427	.70	.80		
SAC PEAK	09	1903	1907	S08 E15			1-	3		.97	.95		16
SAC PEAK	09	2257	2302	S09 E18			1-	3		1.07	1.05		16
	10	0115	0205	NO FLARE									
	10	0330	0400	NO FLARE									
	10	0415	0435	NO FLARE									
	10	1100	1120	NO FLARE									
	10	1220	1235	NO FLARE									
	10	1250	1300	NO FLARE									
HONOLULU	10	1808	1816	N11 W65			1-	3	1810	.21	.35		
ONDREJOV	11	0749	0807 D	S09 W13			1-	3	0751			2.00	
MCMATH	11	1409 E	1420 D	N05 E78		6453	1-	1	1412	.20	.70		
SAC PEAK	11	1508	1541	N06 E76		6453	1	2		1.42	3.03		21

SOLAR FLARES

JUNE 1962

OBSERVATORY	DATE	OBSERVED TIME		LOCATION		DURA- TION MINUTES	OBS. COND.	TIME UT	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT				
		START	END	APPROX. LAT. MER. DIST.	MEMPHI PAGE REGION				MAX. PHASE	MAX. WIDTH Rg	MEAS. AREA Sq. Deg.		COBR. AREA Sq. Deg.	MAX. INT. %		
CAPRI S	11	1519	E	1546	D	N06 E75	6453	27	D	1	3	1521	.80	3.60		
MCMAH	11	1519	E	1548		N05 E78	6453	29		1	1	1525	2.10			
CAPRI F	11	1520	E	1543		N05 E76	6453	23	D	1	3	1522	1.00	3.00	18	
SAC PEAK	11	1559		1606		S08 W14				2	2		.76			
MCMAH	11	1601		1603		S07 W14	6441			1	2	1603	.40	.40		
MCMAH	11	1718		1720	D	S07 W18	6441			1	1	1719	.20	.20		
	11	2340		2400		NO FLARE										
	12	0145		0200		NO FLARE										
	12	0505		0540		NO FLARE										
CAPRI F	12	0545		0559		NO FLARE							.50	1.00		
ZURICH	12	0715	E	0803		N05 E67	6441	48		1	2	0551		3.00		
CAPRI S	12	0716	E	0830	D	S07 W23	6441	74	D	1	3	0736	2.40	2.60		
CAPRI F	12	0719	E	0738		S07 W25	6441	19		1	3	0733	2.50	3.00		
LOCARNO	12	0740	E	0820	D	S09 W24	6441	40	D	2	2		.68	1.05	19	
SAC PEAK	12	1434	E	1455		N25 E62				1	2		1.00	2.10		
CAPRI S	12	1438	E	1452		N07 E62	6453	14	D	1	3	1442	1.50	3.00		
CAPRI F	12	1440	E	1451		N04 E64	6453	11	D	1	4	1444	.30	.40		
MCMAH	12	1843		1853		S07 W32	6441			1	2	1848	.85	1.05	16	
SAC PEAK	12	1945		2028		N06 E47				1	2		.82	.99		
HONOLULU	12	2008	E	2010	D	N07 E46				1	1	2010	.82	.82	10	
HONOLULU	12	2100		2110		S06 W06				1	2	2102	.40	.40		
LOCKHEED	12	2242		2251		S07 W25				1	2	2245	9.90	10.00		
HONOLULU	12	2242		2320		S07 W26	6441	38		2	3	2250				
	13	0415		0420		NO FLARE										
CAPRI S	13	0621	E	0637	D	NO FLARE				1	3	0630	.70	.80		
ONDREJOV	13	0626	E	0634		S08 W33				1	3	0627		1.70		
WENDEL	13	1448		1500		S09 E21	6445	12		1	3		.78	3.00	20	
SAC PEAK	13	1451		1457		S12 E19				1	3		1.28	1.26	20	
SAC PEAK	13	1607		1620	U	S14 E18				1	3		2.00	2.00		
CAPRI F	13	1608		1623		S12 E17	6445	15		1	3	1613				
	14	0205		0245		NO FLARE										
	14	0315		0425		NO FLARE				1	2	0600	1.00	1.40		
	14	0435		0445		NO FLARE					3		.50	3.00		
	14	0505		0520		NO FLARE				1	3			.47		
	14	0545		0600		NO FLARE										
CAPRI S	14	0600	E	0615	D	N04 E41				1	2	0600	1.00	1.40		
CAPRI F	14	0932		0955		N06 E90	6458	23			3			3.00		
WENDEL	14	1408	E	1418		S11 E04	6445	10	D	1	3		.50	.47	17	
SAC PEAK	14	2049		2055		S14 W04				1	3					
	15	0653		0710		S13 W04	6445	17		1				3.00		
WENDEL	15	0656		0711		S12 W08	6445	15		1				3.00		
ONDREJOV	15	1006	E	1038	D	S14 W06	6445	32	D	1+	3	1009		2.80		
WENDEL	15	1008		1013		S12 W06	6445	18		1				4.00		
MCMAH	15	1121		1129		S13 W09	6445			1	2	1125	.30	.30		
WENDEL	15	1352	E	1400	D	N07 E08				1	2					
MCMAH	15	1413		1400		N08 E08	6452			1	2	1415	.20	.20		
MCMAH	15	1722		1736		S12 W12	6445			1	2	1725	.30	.50		

SOLAR FLARES

JUNE 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION		DURA-TION MINUTES	IM-POR-TANCE	OBS. COND.	MEASUREMENTS		MAX. WIDTH Hr	MAX. INT. %	PROVISIONAL LONGSPHERIC EFFECT
		START	END	APPROX. LAT.	MER. DIST.				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.			
[] HONOLULU	15	1836	1900	S14 W15	6445	24	1	2	3.10	3.10	3.10	18	
[] SAC PEAK	15	1840	1858	S13 W13	6445	1846	1-	3	.45	.43	.43		
[] MCMATH	15	1840	1902	S12 W13	6445	1846	1-	3	.60	.60	.60		
[] MCMATH	15	2013	2024	S13 W15	6445	2015	1-	2	.30	.30	.30	18	
[] SAC PEAK	15	2054	2120	S13 W14	6445	2107	1-	2	.80	.80	.80		
[] MCMATH	15	2055	2142	S11 W14	6445	2059	1-	2	.60	.60	.60		
[] MCMATH	15	2055	2142	S11 W14	6445	2109	1-	2					
[] SAC PEAK	15	2243	2311	S12 W16	6445	2109	1-	3	1.86	1.84	1.84	22	
[] HONOLULU	15	2244	2318	S12 W17	6445	2247	1	3	2.27	2.27	2.27		
[] MCMATH	15	2244	2320	S11 W15	6445	2247	1	2	2.00	2.10	2.10		
[] MCMATH	16	0155	0205	PATROL		NO FLARE							
[] SAC PEAK	16	0235	0240	PATROL		NO FLARE							
[] MCMATH	16	0245	0305	PATROL		NO FLARE							
[] MCMATH	16	0515	0600	PATROL		NO FLARE							
[] MCMATH	16	1050	1100	PATROL	6455	1535	1-	2	.30	.30	.30	18	
[] SAC PEAK	16	1624	1628	S15 E07	6455	1626	1-	3	.29	.29	.29		
[] MCMATH	16	1729	1736	N16 E90	6458	1730	1-	2	.60	1.50	1.50	16	
[] SAC PEAK	16	1834	1840	N16 E89	6458	1837	1-	3	.29	.29	.29		
[] HONOLULU	16	2040	2130	S14 W28	6458	2046	1-	2	.52	.52	.52		
[] MCMATH	16	2100	2113	S16 E04	6458	2105	1-	2	.80	.80	.80		
[] HONOLULU	16	2130	2252	N15 E90	6458	2150	1-	3	2.04	2.04	2.04	17	
[] SAC PEAK	16	2130	2314	N13 E73	6458	2150	1	3	2.15	2.15	2.15		
[] SAC PEAK	16	2130	2314	N14 E73	6458	2152	1	3	1.00	4.50	4.50	20	
[] MCMATH	16	2130	2314	N14 E75	6458	2306	1+	2	.20	1.00	1.00		
[] MCMATH	16	2132	2308	N14 E75	6458	2308	1-	2					
[] LOCKHEED	16	2333	2341	N18 E90	6458	2335	1-	2					
[] HONOLULU	17	0042	0204	S05 W90	6441	0130	1	2	1.34	4.70	4.70		
[] MITAKA	17	0046	0058	S07 W80	6441	0129	1	1	.41	.41	.41	20	
[] LOCKHEED	17	0126	0141	N16 E90	6459	0129	1-	1	.30	1.50	1.50		
[] HONOLULU	17	0126	0144	N15 E90	6459	0130	1	2	1.13	3.98	3.98		
[] KOMASAN	17	0203	0214	N18 W90	6443	0203	1	2	1.24	1.24	1.24	90	
[] KOMASAN	17	0237	0248	N18 W90	6443	0238	1	2	.83	.83	.83	80	
[] CAPRI F	17	0545	0554	S15 W32	6445	0549	1-	2	1.50	1.50	1.50		
[] WENDEL	17	0548	0618	S13 W31	6445	0549	1-	2	4.00	4.00	4.00		
[] ISTANBUL	17	0725	0733	S12 W35	6445	0725	1	3					
[] ARCTRI	17	0940	0950	N14 E90	6459	0940	1	3					
[] CAPRI F	17	1032	1128	S00 E90	6460	1032	1	3					
[] CAPRI F	17	1032	1038	S12 W31	6460	1038	1-	3	1.00	2.00	2.00	18	
[] CAPRI S	17	1312	1320	N15 E71	6459	1320	1-	1	.50	1.13	1.13		
[] SAC PEAK	17	1318	1322	N17 E75	6459	1322	1-	3	.50	1.30	1.30		
[] MCMATH	17	1318	1322	N16 E75	6459	1322	1-	2	1.0	.50	.50		
[] MCMATH	17	1400	1405	N16 E75	6459	1401	1-	2	.20	.43	.43	17	
[] MCMATH	17	1413	1426	N10 W34	6445	1426	1-	3	.41	.41	.41		
[] SAC PEAK	17	1413	1423	S11 W33	6445	1415	1-	3	.30	.30	.30		
[] MCMATH	17	1414	1540	N14 E72	6459	1520	1-	2	1.80	1.80	1.80		
[] MCMATH	17	1510	1540	N14 E72	6459	1520	1-	2	.50	.50	.50		
[] SAC PEAK	17	1511	1542	N13 E70	6459	1518	1-	3	.78	1.49	1.49	17	G-SWF
[] WENDEL	17	1520	1552	N14 E74	6459	1552	1	3	3.00	3.00	3.00		
[] WENDEL	17	1555	1605	N10 W14	6459	1605	1-	1	.60	.60	.60	10	
[] LOCKHEED	17	1716	1729	S11 W34	6459	1719	1-	2					

SOLAR FLARES

JUNE 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION			DURATION - MINUTES	DIR. POS. - RANGE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END	APPROX. LAT.	MGR. DIST.	MGR. PLAGE REGION				TIME - U.T.	MESS. AREA - SR. DRS.	CORR. AREA - SR. DRS.	
SAC PEAK	17 1717	1728	1721	S12 W37		6445	1-	3	066	072	18		
MCWATH	17 1718	1730	1720	S11 W36			1-	2	100	150			
WENDEL	17 1718 E	1731 D		S09 W33			1-						
HONOLULU	18 0102	0110	0104	S13 W42			1-	2	041	049			
HONOLULU	18 0104	0110	0106	N14 E71			1-	3	056	110			
CAPRI S	18 0606 E	0648 D		S09 W48			1-	3	100	150			
WENDEL	18 1203 E	1243 D		S12 W52	40 D	6445	1-						
SAC PEAK	18 1604	1619	1611	N14 E59			1-	3	031	045	16		
SAC PEAK	18 1618	1635	1622	S12 W54			1-	3	027	027	16		
SAC PEAK	18 1729	1743	1733	N15 E59			1-	3	058	085	16		
SAC PEAK	18 1902	1912	1907	S11 W57			1-	3	076	054	17		
SAC PEAK	18 2245	2302	2254	S15 W16			1-	2	021	023	17		
LOCKHEED	19 0031	0040	0034	N17 E50			1-	2	020	030	20		
WENDEL	19 0444 E	0450 D		N17 E48			1-						
KODAIKNL	19 0446	0449	0447	N16 E51			1-	2			114		
WENDEL	19 0848 E	0857 D		N17 E55			1-						
SAC PEAK	19 1538 E	1604	1541	N11 W42			1-	2	101	118	18		
ONDREJOV	19 1539 E	1546 D		N01 W46	7 D	6452	1-	1	120	170			
CAPRI S	19 1540 E	1555 D		N14 W41	13 D	6452	1-	1					
WENDEL	19 1542 E	1555 D		N13 W39			1-	1	030	040			
MCWATH	19 1547 E	1548 D		N11 W43			1-	2	041	074			
HONOLULU	19 1902 E	1902 D		S10 W65			1-	2	082	099	10		
HONOLULU	19 2058	2104	2100	N13 W47			1-	2	030	030			
LOCKHEED	19 2109	2119	2113	N17 E40			1-	2	041	074			
HONOLULU	19 2134	2142	2140	S12 W65			1-	2	103	130			
IKOMASAN	19 2224	2315 D		S11 W73	51 D	6445	1+	1	050	082	20		
LOCKHEED	19 2250	2320	2301	S11 W70			1-	2	100	100			
HONOLULU	19 2256	2326	2258	S09 W70			1-	2	082	082			
HONOLULU	19 2342	2344	2342	N11 W03			1-	2					
CAPRI S	20 1125 E	1140 D		S12 W74	15 D	6445	1	3	140	450			
CAPRI F	20 1128 E	1134 D		S11 W71			1-	4	100	200			
SAC PEAK	20 1414 U	1424	1419	S12 W77			1-	3	031	083	17		
SAC PEAK	20 1537	1548	1541	S16 W48			1-	3	050	062	17		
MCWATH	20 1836	1903	1856	N17 E31		6459	1-	1	040	050			
MCWATH	20 1946	1958	1844	N17 E31			1-	2	030	030	10		
LOCKHEED	20 1949	1958	1949	N16 E29			1-	2	030	030			
MCWATH	20 2002	2031 D		N17 E30	49 D	6459	1	2	200	230			
LOCKHEED	20 2002	2110	2020	N17 E31	68	6459	1	2	400	400	20		
SAC PEAK	20 2018 E	2059 D		N18 E34	41 D	6459	1	1	330	357	18		
LOCKHEED	20 2319	2345	2330	N12 E25			1-	2	040	040	20		
LOCKHEED	20 2354	0003	2357	S11 W79			1-	2	020	050	10		
CAPRI S	21 0621	0705 D		N16 E24	44 D	6459	2	2	550	630			
KODAIKNL	21 0627	0651	0651	N15 E24	24	6459	1	2	233	260	114		
CAPRI F	21 0628 E	0759 D		N18 E25	31 D	6459	2	2	800	900			
LOCARNO	21 0640 E	0655	0641	N16 E24	15 D	6459	1+	2					
ONDREJOV	21 0748 E	0756		N13 E20			1-	1					
WENDEL	21 0630 E	0705 D		N18 W21	35 D	6456	1+	1	500	500			

COMMERCE - STANDARDS - BOULDER

SOLAR FLARES

JUNE 1962

OBSERVATORY	DATE	OBSERVED TIME		LOCATION		DURA-TION — MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END	APPROX. LAT.	MER. DIST.				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _e	
MCMATH	21 JUNE 1962	1330	1337	N15 E21	6459	1-1	2	1332	.20	.20	.20	
MCMATH	21	1354	1400	N17 E21	6459	1-1	2	1357	.10	.10	.10	
MCMATH	21	1644	1700	N18 E18	6459	1-1	2	1648	.20	.20	.20	
	21	2210	2215	NO FLARE								
CAPRI S	22	0642 E	0657	S12 W73		1-1	3	0645	.60	2.00	2.00	
ZURICH	22	0828	0842	N14 E07	6459	1-1	3	0828	4.00	4.00	4.00	
CAPRI F	22	0832 E	0843	N15 E08		1-1	4	0934	.70	.70	.70	
WENDEL	22	0837 E	0900 D	N12 W76	6453	1-1	2		4.00	4.00	4.00	
LOCARNO	22	0840	0907	N11 W76	6453	1-1	2					
ARCETRI	22	0845 E	0911 D	N12 W74	6453	1-1	3					
CAPRI F	22	0847	0910	N00 W75	6453	1-1	4	0850	1.50	4.00	4.00	
ZURICH	22	0856	0930	N11 W87	6452	2-2	3	0856	6.00	6.00	6.00	
ONDREJOV	22	0849 E	1011	N13 E02	6459	8 D	3	0908	7.00	7.00	7.00	
WENDEL	22	0852 E	0900 D	N15 E03	6459	8 D	2					
LOCARNO	22	0859	0935	N14 E01	6459	1+1	2	0908	3.00	3.00	3.00	
ARCETRI	22	0901 E	0945 D	N15 E06	6459	4+4	3	0909	4.00	4.00	4.00	
CAPRI F	22	0902	0945	N16 E03	6459	4+3	4	0907	5.00	5.00	5.00	
ZURICH	22	0907	0940	N13 E03	6459	3-2	3	0906				
ONDREJOV	22	0905 E	0912 D	S12 W75	6455	7 D	1	1020				
ONDREJOV	22	1023	1037 D	N15 E06	6459	14 D	1					
ISTANBUL	22	1025	1034	N15 E08	6459	9	3	1029	1.00	1.00	1.00	
ZURICH	22	1029	1035	N14 E06	6459	6	3	1032	.50	.50	.50	
CAPRI F	22	1030 E	1035	N15 E07	6459	1-1	3					
WENDEL	22	1215 E	1230 D	N16 E09	6459	15 D	1					
WENDEL	22	1215 E	1244	N16 E13	6459	29 D	1					
SAC PEAK	22	1320	1334	N09 W68		1-1	3					
SAC PEAK	22	1328	1344	N14 E05		1-1	3					
MCMATH	22	1330	1355 D	N15 E05	6459	1-1	2	1332	.29	.29	.29	18
CAPRI F	22	1335 E	1342	N15 E06		1-1	2		.43	.43	.43	18
SAC PEAK	22	1536	1549	N18 E06		1-1	3		.41	.41	.41	19
WENDEL	22	1536	1551 D	N17 E03	6459	15 D	1		3.00	3.00	3.00	
MCMATH	22	1538	1550	N18 E05	6459	1-1	2	1539	.20	.20	.20	
LOCKHEED	22	1649	1704	N15 E23		1-1	2	1652	.10	.10	.10	10
SAC PEAK	22	1730	1744 U	N16 E04		1-1	2		1.01	.99	.99	18
LOCKHEED	22	1730	1753	N21 E08		1-1	2	1737	1.80	1.80	1.80	20
WENDEL	22	1732	1756	N18 E03	6459	1-1	2		4.00	4.00	4.00	
SAC PEAK	22	1734	1747 U	N22 E05		1-1	2		.64	.64	.64	17
WENDEL	22	1737	1751	N23 E04	6459	1-1	1	1739	3.00	3.00	3.00	
MCMATH	22	1738 E	1754	N20 E04	6459	1-1	1	2013	.50	.50	.50	
MCMATH	22	2009	2027 D	N18 E02	6459	1-1	2	2013	.50	.50	.50	17
SAC PEAK	22	2009	2031	N17 E03		1-1	2		.50	.50	.50	18
SAC PEAK	22	2126	2142 D	N17 E02		1-1	2		1.30	1.28	1.28	
MCMATH	22	2131 E	2201 D	N20 E02	6459	1-1	2	2144	2.00	2.10	2.10	
MCMATH	22	2131 E	2201 D	N20 E02		1-1	2					
	23	0220	0230	NO FLARE		PATROL						
	23	0335	0340	NO FLARE		PATROL						
	23	0350	0400	NO FLARE		PATROL						
WENDEL	23	0540	0612	N16 W02	6459	1-1	2	0548	4.00	4.00	4.00	
CAPRI F	23	0541	0614 D	N16 W03	6459	1-1	2					

SOLAR FLARES

JUNE 1962

OBSERVATORY	DATE JUNE 1962	OBSERVED UNIVERSAL TIME		MAX. PHASE	LOCATION			DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END		APPROX. LAT.	MEAS. DIST.	MONTH PLACE REGION				TIME — U T	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
I KOMASAN	23	0546	0606 D	0551	N16 W13	6458	20 D	1			2.27	3.00	1.34	100
WENDEL	23	0802	0828		S07 E07	6460	26	1			1.00	1.00		
CAPRI F	23	1446 E	1450 D		N14 W06			1-			.35	.34		16
SAC PEAK	23	1513	1514		N14 W08			1-			.10	.10		17
MCNATH	23	2121	2130		N15 W11	6459		1-			.43			
SAC PEAK	23	2308	2318 D		S01 E88			1-						
	24	0235	0245	NO FLARE	PATROL									
WENDEL	24	0255	0350	NO FLARE	PATROL									
MCNATH	24	0400	0410	NO FLARE	PATROL									
SAC PEAK	24	0430	0440	NO FLARE	PATROL									
WENDEL	24	0453	0508		S03 E02	6460	15	1			3.00	3.00		
MCNATH	24	0509	0521		N17 W15	6459	12	1-			.20	.40		15
SAC PEAK	24	1258	1305 D		N00 E80	6463		1-			1.01	.99		
	24	1324	1334		S07 W06			1-						
	25	0340	0455	NO FLARE	PATROL									
CAPRI F	25	0525	0528		N03 E72			1-			.50	1.00		
CAPRI S	25	1034 E	1042 D		S01 E67			1-			.50	1.20		
CAPRI S	25	1356 E	1423 D		S20 E80	6466	27 D	1			.43	3.20		19
SAC PEAK	25	1458	1506	1500	S22 E80			1-			.20	.50		
MCNATH	25	1500	1515	1503	S18 E82	6466		1-			.10	.20		20
LOCKHEED	26	0000	0018	0004	N15 W57			1-					1.60	114
KODAIKNL	26	0220	0230	NO FLARE	PATROL			1-						
	26	0240	0254	0242	N01 E55			1-						
	26	0300	0305	NO FLARE	PATROL			1-						
WENDEL	26	0548 E	0600 D		S03 E55			1-					1.40	10
ONDREJOV	26	0548 E	0605 D		N02 E54			1-						
CAPRI S	26	1021	1030	1023	S01 E47			1-						
LOCKHEED	26	1030 E	1050 D		N01 E53			1-						
MCNATH	26	1631	1645	1633	N01 E45			1-			1.20	2.00		
MCNATH	26	1709	1720	1712	N01 E48	6463		1-			.20	.20		
MCNATH	26	1853	1925 D		N01 E49	6463		1-			.30	.40		
MCNATH	26	2007	2040 D		N01 E43	6463		1-			.20	.30		
MCNATH	26	2007	2040 D		N00 E45	6463		1-			.70	1.00		
SAC PEAK	26	2306	2319 D	2307	N00 E42			1-			.43	.50		16
LOCKHEED	27	0151	0210 D	0157	N01 E40			1-			.70	.70		10
	27	0305	0310	NO FLARE	PATROL			1-						
	27	0315	0420	NO FLARE	PATROL			1-						
	27	0745	0750	NO FLARE	PATROL			1-						
ONDREJOV	27	0754	0804 D		N01 E34	6463	20 D	1			.39	.52	2.00	
KODAIKNL	27	0756	0810	0756	N02 E40			1-						
CAPRI F	27	0815	0820	NO FLARE	PATROL			1-						
SAC PEAK	27	0904 E	0916	NO FLARE	PATROL			1-			1.00	1.30		15
SAC PEAK	27	1327	1352	1329	N03 E38			1-			.29	.31		16
MCNATH	27	1602 E	1638	1602 U	N00 E37			1-			.66	.70		
MCNATH	27	1614	1619	1619	N01 E36	6463		1-			.30	.40		
MCNATH	27	1708	1747	NO FLARE	PATROL			1-			.20	.20		
	27	1800	1805					1-						

COMMERCE - STANDARDS - BOULDER

SOLAR FLARES

JUNE 1962

OBSERVATORY	DATE JUNE 1962	OBSERVED UNIVERSAL TIME		MAX. PHASE	LOCATION			IM- POB- TANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END		APPROX. LAT.	MCMATH PLAGE REGION	DURA- TION MINUTES			MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	
[SAC PEAK MCMATH SAC PEAK	27	2035	2049	2042	N02 E35		1-	2	1.01	1.07		18	
	27	2039	2053	2082	N02 E34	6463	1-	2	.60	.70		15	
	27	2143 E	2152 D	2147	S24 E43		1-	2	.43	.54			
[CAPRI S ONDREJOV	28	0625	0635	NO FLARE	PATROL			3					
	28	0700	0705	NO FLARE	PATROL			1					
	28	0715	0725	NO FLARE	PATROL			1					
	28	0750	0800	NO FLARE	PATROL			2					
	29	0200	0100	NO FLARE	PATROL			3					
	29	0200	0335	NO FLARE	PATROL			1					
	29	0340	0545	NO FLARE	PATROL			1					
	29	0620	0646 D	NO2 E14				1					
	29	0625 E	0632 D	N01 E16	6463		7 D	1	0.90	1.00	3.00		
	29	0740	0750	NO FLARE	PATROL			3	1.00	1.00			
CAPRI F	29	1008 E	1020 D	NO FLARE	N03 E16		1-	2					
	29	1905	1910	NO FLARE	PATROL		1-	2	.30	.30		10	
LOCKHEED	29	2239	2251	2244	S19 E16		1-	2	.60	.60		10	
	30	0200 E	0211	0200 U	S18 E16		1-	2	.60	.60		10	
ATHENS BAKOU CAPETOWN CAPE OF GOOD HOPE CAPRI F CAPRI S CAPRI, ITALY (GERMAN) CAPRI, ITALY (SWEDISH) CRIMÉE HERSTMONCEU	30	0200 E	0211	0200 U	S18 E16		1-	2	.60	.60		10	
	30	0235	0250	NO FLARE	PATROL			2					
	30	0325	0410	NO FLARE	PATROL			2					
	30	0435	0520	NO FLARE	PATROL			2					
	30	0525	0530	NO FLARE	PATROL			2					
	30	0555	0600	NO FLARE	PATROL			2					
	30	0615	0625	NO FLARE	PATROL			2					
	30	0615	0625	NO FLARE	PATROL			2					
	30	0615	0625	NO FLARE	PATROL			2					
	30	0615	0625	NO FLARE	PATROL			2					

ATHENS GREECE
 BAKOU USSR
 CAPETOWN ROYAL OBSERVATORY,
 CAPE OF GOOD HOPE
 CAPRI F CAPRI, ITALY (GERMAN)
 CAPRI S CAPRI, ITALY (SWEDISH)
 CRIMÉE SIMEIZ, USSR
 HERSTMONCEU ROYAL GREENWICH OBSERVATORY,
 HERSTMONCEUX, ENGLAND
 HONOLULU HAWAII, USA
 IKOMASAN KYOTO, JAPAN
 KIEV KO KIEV GAO, USSR
 KIEV KY KIEV UNIVERSITY, USSR
 LOCKHEED LOS ANGELES, CALIF., USA
 MCMATH MCMATH-HULBERT
 MOSCOU MOSCOW-GAISH, USSR
 NEREA NEDERHORST den BERGH,
 NETHERLANDS
 NIZMIR KRASNAYA PAKHRA, USSR
 SAC PEAK SACRAMENTO PEAK, N.MEX. USA
 SALTSJOBADEN STOCKHOLM, SWEDEN
 SCHAUTINS SCHAUTINSLAND, GFR
 TACHKENT TACHKENT, USSR
 WENDEL WENDELSTEIN, GFR

ALL VALUES IN THE MAXIMUM INTENSITY COLUMN FOR SAC PEAK ARE ARBITRARY UNITS (0-40) AND FOR LOCKHEED ARE ARBITRARY UNITS (10-40), NOT PERCENT OF CONTINUOUS SPECTRUM.

SEE DE RIPTIVE TEXT PUBLISHED NOVEMBER 1961 FOR DEFINITION OF CORRECTED AREA VALUES LISTED FOR CLIMAX, HAWAII, LOCKHEED AND SACRAMENTO PEAK.

E = LESS THAN D = GREATER THAN U = APPROXIMATE □ = NOT REPORTED.

Footnote:
 In the solar flare tables in CRPL-F 212 and 213 Part B the entry lines "NO FLARE REPORT" signified intervals of no flare patrol observations. Beginning with CRPL-F 214 Part B similar entries are listed more understandably as "NO FLARE PATROL". Patrol intervals have been reported to the nearest 15 minute period in earlier CRPL-F Reports but are now reported to the nearest 5 minute period. Since some observatories do not report their hours of flare patrol, flares may be found in the above listings during "no flare patrol" intervals.

Errata: Please note that pagination was incorrect in CRPL-F 214 Part B for IIIh through IIIh. The flares are correct as printed but the sheets are not in chronological order.

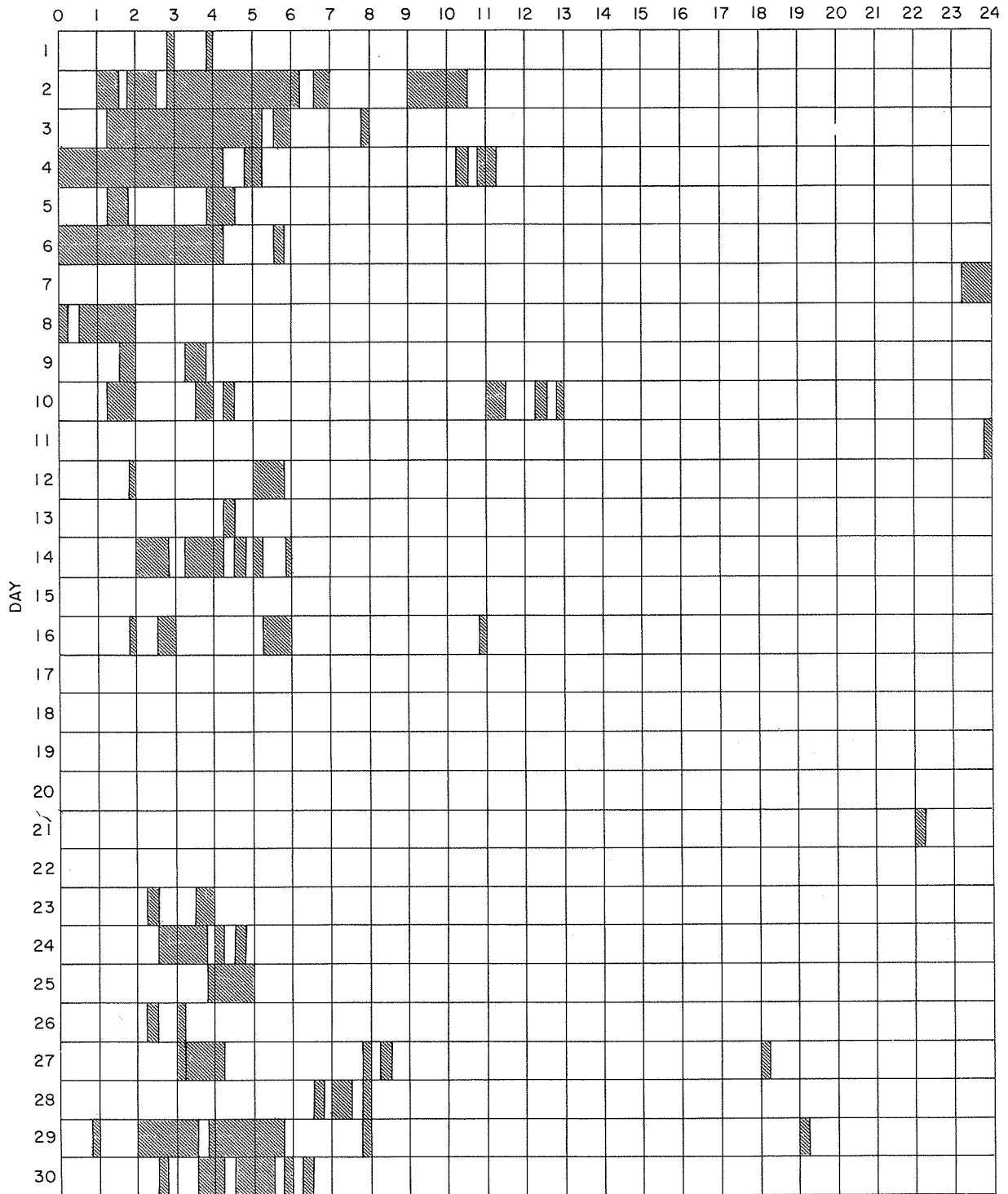
All flares designated as Meudon for January 1962 in CRPL-F 213 Part B should have been designated as Haute-Provence instead, Meudon observed no flares during their January 1962 hours of flare patrol. Haute-Provence should be added to the list of stations reporting hours of flare patrol.

INTERVALS OF NO FLARE PATROL OBSERVATIONS

III

JUNE 1962

HOUR-UT



COMMERCE - STANDARDS - BOULDER

Stations Include:

- | | | |
|------------------|----------------|-----------------|
| Arcetri | Honolulu | Ondrejov |
| Bucharest | Ikomasan | Sacramento Peak |
| Capri-F (German) | Kodaikanal | Wendelstein |
| Capri (Swedish) | McMath-Hulbert | |
| Herstmonceux | Mitaka | |

SOLAR FLARES

MARCH 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION		DURATION MINUTES	IM. POR. TANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE	APPROX. LAT.				MER. DIST.	MEAS. AREA Sq. Deg.	COBR. AREA Sq. Deg.	
VOROSHILOV	01	0019	0035	0024	S06 W31	1-	1-	2	.44			87
VOROSHILOV	01	0147	0201	0151	N08 E39	1-	1-	2	.90			56
KODAIKNI	01	0310	0347	0324	S13 W47	1	1	3	2.33	3.43	1.76	122
VOROSHILOV	01	0311 E	0408 D		S11 W49	1+	1+	2	1.89			87
ALMA ATA	01	0330 E	0418	0330	S14 W48	1+	1+	2	2.42			81
CAPETOWN	01	0657	0724	0708	S08 W32	1-	1-	2	0.78	1.40		57
ALMA ATA	01	0702	0724	0708	S09 W34	1-	1-	2	1.22			
CAPETOWN	01	1018	1033	1022	S08 W34	1-	1-	3	1.20	1.40		
KODAIKNI	01	1019	1100	1036	S13 W44	1	1	41	2.33	3.26		
ALMA ATA	01	1028	1050 D	1036	S13 W53	1+	1+	22 D	2.23			82
HTE-PROVEN	01	1029	1105	1040	S14 W53	1-	1-	1040	1.10	1.80		
CAPETOWN	01	1029	1109	1039	S12 W53	1	1	40	2.10	3.40		
CAPETOWN	01	1155	1221	1205	S08 W38	1-	1-	1205	1.20	1.50		
HTE-PROVEN	01	1157	1225	1205	S09 W48	1-	1-	1205	1.20	1.50		
HTE-PROVEN	01	1302	1330	1309	S14 W53	1-	1-	1309	.70	1.20		
CLIMAX	01	1635	1723	1643	S12 W58	2	2	48	8.00	11.20		
CLIMAX	01	1842	1849	1844	S07 W43	1-	1-		.70	.80		
CLIMAX	01	1943	1946	1944	S14 W59	1-	1-		.20	.30		
CLIMAX	01	1952	1958	1955	S10 W45	1-	1-		.30	.40		
CLIMAX	01	2152	2212	2157	S08 W46	1-	1-	2350	.60	.70		
CLIMAX	01	2348 E	0130 D		N03 W45	1-	1-		.10	.10		
VOROSHILOV	01	2350	0000	2355	S08 W45	1-	1-	2	.99			89
NIZAMIAH	02	0310 E	0321	0321	S09 W64	1+	1+	11 D	1.22	2.74	2.10	
NIZAMIAH	02	0357	0419	0407	S09 W64	1+	1+	22	1.22	2.74	2.20	
ALMA ATA	02	0445	0451 D		S10 W48	1-	1-	0446	1.22			55
CAPETOWN	02	0658 E	0706	0659	S08 W49	1-	1-	0659	1.00	1.50		
ABASTUMANI	02	0658 E	0712 D	0659	S08 W49	1-	1-		.90	1.40		
UCCLE	02	1021 E	1050 D		S13 W70	1-	1-	1041	1.00	2.20		
	02	1230	1300	NO FLARE	PATROL							
KODAIKNI	03	0309	0321	0314	N07 E22	1-	1-	2	.58	.63		
VOROSHILOV	03	0309	0337	0319	N09 E28	1-	1-	2	1.43			112
UCCLE	03	1113	1130 D	1123	S13 W84	1-	1-	3				
UCCLE	04	1300	1310	NO FLARE	PATROL							
UCCLE	04	1350	1400	NO FLARE	PATROL							
UCCLE	05	1400	1425	NO FLARE	PATROL							
UCCLE	06	0902	0913	0905	N14 E13	1-	1-	3				
UCCLE	06	0953	0955	0942	N14 E13	1-	1-	3				
UCCLE	06	1012	1055	1020	N14 E13	1-	1-	3				
UCCLE	06	1037	1057	1041	N14 E06	1-	1-	3				
UCCLE	06	1118	1121	1119	N14 E11	1-	1-	3				
UCCLE	06	1355	1405	NO FLARE	PATROL							
UCCLE	06	1413	1424	1416	N13 E11	1-	1-	3				
UCCLE	06	1415	1420	NO FLARE	PATROL							
UCCLE	06	2210	2235	NO FLARE	PATROL							
UCCLE	06	2300	2320	NO FLARE	PATROL							
UCCLE	06	2335	2400	NO FLARE	PATROL							

SOLAR FLARES

MARCH 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		MAX. PHASE	LOCATION			DURATION - MINUTES	IM. POR. TANCE	OBS. COND.	TIME - U T	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END		APPROX. LAT.	MER. DIST.	McMATH PLACE REGION					MEAS. AREA - Sq. Deg.	COBR. AREA - Sq. Deg.	MAX. WIDTH - Hg	
	MAR 1962														
UCCLE	07	0000	0010	NO FLARE	PATROL										
UCCLE	07	0020	0030	NO FLARE	PATROL										
UCCLE	07	0145	0200	NO FLARE	PATROL										
UCCLE	07	1050	1141	1056	N05 W54										
UCCLE	07	1152	1203		N14 W10										
UCCLE	07	1217	1226	1218	N05 W40										
UCCLE	07	1353	1456		N05 W40										
UCCLE	07	1443	1451		N05 W40										
UCCLE	07	1522	1538		N14 W10										
	07	1605	1610	NO FLARE	PATROL										
	07	1640	1655	NO FLARE	PATROL										
UCCLE	08	1517	1520		N03 W55										
	08	1600	1610	NO FLARE	PATROL										
	08	1830	1840	NO FLARE	PATROL										
	09	0030	0145	NO FLARE	PATROL										
	09	0805	0815	NO FLARE	PATROL										
UCCLE	09	1101	1121	D	N12 W34										
UCCLE	09	1130	1207		N13 W34										
UCCLE	09	1321	1329		N13 W34										
	09	1545	1810	NO FLARE	PATROL										
	11	1245	1325	NO FLARE	PATROL										
	11	1330	1450	NO FLARE	PATROL										
	11	2320	2400	NO FLARE	PATROL										
	12	0000	0015	NO FLARE	PATROL										
	12	0020	0030	NO FLARE	PATROL										
KODAIKNL	13	0238	0242	0240	N10 E70										
UCCLE	13	1124	1137	1130	N10 E67										
UCCLE	13	1140	1206		N10 E67										
UCCLE	13	1210	1240	1214	N10 E66										
UCCLE	13	1246	1330	1250	N10 E66										
UCCLE	13	1330	1353		N10 E65										
UCCLE	13	1407	1427	1416	N10 E65	6366									
UCCLE	13	1444	1518	D	N10 E67	6366									
UCCLE	13	1448	1640	D	N10 E65	6366									
UCCLE	13	1457	1523		N02 E65	6366									
UCCLE	13	1500	1521	1502	N04 E69										
UCCLE	13	1545	1617		N12 E67										
	15	0030	0045	NO FLARE	PATROL										
	15	1210	1215	NO FLARE	PATROL										
	15	1448	1455	D	N10 W40										
UCCLE															
ALMA-ATA	16	0350	0445	0357	N10 E31	6366									
KODAIKNL	16	0355	0450	0358	N13 E33	6366									
TACHKENT	16	0446	0516		N10 E29	6366									
UCCLE	16	1055	1101	1057	N13 E25	6366									

COMMERCE - STANDARDS - BOULDER

SOLAR FLARES

MARCH 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		MAX. PHASE	LOCATION		DURA-TION MINUTES	IM-POR-TANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END		APPROX. LAT.	MER. DIST.				McMATH PLAGE REGION	TIME U T	MEAS. AREA Sq. Deg.	
UCCLE	16	1102	1111	1109	N08 E55			1-	3				
UCCLE	16	1104	1107		N13 E25			1-	3				
UCCLE	16	1117	1134		N13 E25			1-	3				
UCCLE	16	1157	1205		N14 E24			1-	3				
UCCLE	16	1213	1235		N14 E24			1-	3				
UCCLE	16	1220	1227		N08 E55			1-	3				
UCCLE	16	1240	1251		N14 E24			1-	3				
UCCLE	16	1304	1324		N13 E24			1-	3				
UCCLE	16	1355	1425		N13 E24			1-	3				
UCCLE	16	1432	1446		N13 E24			1-	3				
UCCLE	16	1525	1530		N13 E25			1-	3				
UCCLE	16	1536	1542	1539	N13 E24			1-	3				
UCCLE	16	1558	1602 D		N13 E24			1-	3				
	17	0055	0115	NO FLARE	PATROL								
	17	0130	0150	NO FLARE	PATROL								
ABASTUMANI	17	0649 E	0717 D	0651	N12 E17			1-	1	1.44	1.64		
ZURICH	17	0658 E	0712		N12 E14	6366		1	3	0702	2.00		
CAPETOWN	17	1028	1115	1042	N13 E13	6366		1	2	1042	2.80		
LOCARNO	17	1030	1055		N11 E14	6366		1+	2	1040	2.00		
KODAIKUL	17	1034	1045	1039	N11 E13			1-	2	1.16	1.19		
NIZAMIAH	17	1040 E	1056	1048	N02 E25			1-	2	1048	.61	1.30	64
BAKOU	17	1043 E	1130	1043	N12 E13	6366		1+	2	1043	5.47	6.12	
CAPRI-F	17	1106 E	1140	1119	N10 E13	6366		1	3	1119	3.00	5.00	
	18	0050	0055	NO FLARE	PATROL								
	18	0120	0125	NO FLARE	PATROL								
CLIMAX	18	1638	1646	1642	N10 E60			1-	1	.20	.20		
CLIMAX	18	2101	2207 D	2112	N24 W05			1-	1	1.10	1.10		
	19	0754 E	0810	0759	N12 E51	6370		1	2	0759	1.37	2.48	50
BAKOU	19	0812 E	0905	0841	N11 W14	6366		1	2	0841	2.73	3.01	53
UCCLE	19	1215	1225	1220	S15 E70			1-	3				
UCCLE	19	1221	1223		N07 E88			1-	3				
UCCLE	19	1241	1306		S15 E70			1-	3				
UCCLE	19	1244	1249		N10 E50			1-	3				
UCCLE	19	1256	1315		N09 E57			1-	3				
UCCLE	19	1334	1351	1337	S15 E70			1-	3				
UCCLE	19	1342	1350	1344	N06 E75			1-	3				
UCCLE	19	1343	1355		N07 E88			1-	3				
UCCLE	19	1356	1404		S15 E70			1-	3				
UCCLE	19	1413 E	1422		S15 E70			1-	3				
UCCLE	19	1413 E	1422		N10 E50			1-	3				
UCCLE	19	1413 E	1422		S10 E70			1-	3				
UCCLE	19	1413 E	1422		N09 E55			1-	3				
UCCLE	19	1413 E	1515	1425	N04 E88			1-	3				
UCCLE	19	1413 E	1515		N08 E86			1-	3				
UCCLE	19	1426	1439		N06 E86			1-	3				
UCCLE	19	1444	1500		N11 E88			1-	3				
UCCLE	19	1450 E	1457 D	1450	N11 E74	6373		1-	2	1450	1.00	3.00	
CAPRI-F	19	1450 E	1503		N12 W18			1-	3				
UCCLE	19	1450	1515	1455	N09 E55			1-	3				

SOLAR FLARES

MARCH 1962

OBSERVATORY	DATE	OBSERVED TIME		MAX. PHASE	LOCATION		DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL LONGSHORIC EFFECT
		START	END		APPROX. LAT.	MATH PLAGE REGION				TIME UT	MEAS. AREA Sq. Deg.	COOR. AREA Sq. Deg.	
UCCLE	MAR 19 1962	1452	1635 D	1455	N10 E50		1-	3					
UCCLE	19	1455	1518		N11 E88		1-	3					
UCCLE	19	1510	1520		N10 W18		1-	3					
UCCLE	19	1535	1544 D		N10 E50		1-	3					
UCCLE	19	1545	1549		N10 E86		1-	3					
UCCLE	19	1614	1622		N10 W18		1-	3					
	19	1645	1650	NO FLARE	PATROL								
	19	2115	2125	NO FLARE	PATROL								
	19	2130	2140	NO FLARE	PATROL								
	19	2145	2345	NO FLARE	PATROL								
NIZAMIAH	20	0247	0321	0305	N07 E56	6373	2	2	0305	3.04	5.48	1.90	
KODAIKNI	20	0305	0330	0305	S10 E55	6369	1	3	0305	1.75	3.06	2.28	114
UCCLE	20	0836	0839		N10 E42		1-	3					
UCCLE	20	0839 E	0904 D		N10 E72		1-	3					
UCCLE	20	0924	0926	0925	N06 E64		1-	3					
UCCLE	20	0943	0950	0948	N10 E68		1-	3					
UCCLE	20	0959	1014		N11 E70		1-	3					
UCCLE	20	1028	1037		N10 E68		1-	3					
UCCLE	20	1054	1122 D		N10 E65		1-	3					
HTE-PROVEN	20	1119	1130	1121	N10 E68		1-	2	1121				
SCHAUTINS	20	1125	1129		N10 E63		1-	3					
UCCLE	20	1241	1246		N10 E65		1-	3					
UCCLE	20	1257	1303		N10 E65		1-	3					
UCCLE	20	1406	1417		S10 E55		1-	3					
UCCLE	20	1505	1511		N10 E68		1-	3					
UCCLE	20	1514	1542		N08 E68		1-	3					
UCCLE	20	1545	1617		N10 E68		1-	3					
UCCLE	20	1615	1621	1617	S13 E58		1-	3					
	20	2015	2020	NO FLARE	PATROL								
	20	2110	2150	NO FLARE	PATROL								
	20	2155	2205	NO FLARE	PATROL								
	20	2215	2400	NO FLARE	PATROL								
	21	0000	0045	NO FLARE	PATROL								
	21	0105	0240	NO FLARE	PATROL								
	21	0615	0625	NO FLARE	PATROL								
	21	0630	0635	NO FLARE	PATROL								
LOCARNO	21	1232	1305		N10 E19	6370	1	1	1245		1.00		
HTE-PROVEN	21	1234	1313	1247	N10 E30		1-	2	1247	2.40	2.70	2.00	
CAPTOWN	21	1243 E	1305		N11 E20	6370	1+	2	1248		4.00		
SCHAUTINS	21	1811	1819	1813	N24 W40		1-			.30	.40		
CLTMAX	21	1905	1930	NO FLARE	PATROL								
	21	2105	2115	NO FLARE	PATROL								
	21	2120	2150	NO FLARE	PATROL								
	21	2220	2235	NO FLARE	PATROL								
	21	2305	2320	NO FLARE	PATROL								
	21	2345	2350	NO FLARE	PATROL								
	22	0000	0050	NO FLARE	PATROL								

SOLAR FLARES

MARCH 1962

OBSERVATORY	DATE	OBSERVED UNIVERSAL TIME		LOCATION		DURA-TION - MINUTES	IM-PORTANCE	OBS. COND.	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT	
		START	END	APPROX. LAT.	MER. DIST.				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _z		MAX. INT. %
KODAIKNI	22 1962	0110		NO FLARE			1-	1	1.16	1.19	1.68		
		0125		NO FLARE			1-						
		0233	E	0233	N12 E12		1-						
		0250		NO FLARE			1-						
		0610		NO FLARE			1-						
		0800	E	0808	D	0804	1-	2	1.34	1.00		55	
		0801	E	0810	D		1-						
		0900		0930		S12 E33	1-						
		1015		1120		N10 E44	1-						
		1216	E	1231	D	N07 E40	1-	3	1.10	1.40			
		1313		1317	D	N08 E34	1-	3					
		1349	E	1409		N08 E34	1-	3					
		1423		1514		N08 E34	1-	3					
		1532		1537		N08 E34	1-	3					
LOCARNO	22 1549		1556		N08 E34	1-	3						
	22 1552		1559		N12 E12	1-	3						
	22 1555	E	1612		N06 E29	1-	1						
	22 1557	E	1606		N06 E31	1-	3		.40	.40			
	22 1558		1611		N27 E32	1-	1		.40	.40			
	22 1929		1945		N17 E35	1-	3						
	TACHKENT	23 0000		0010	NO FLARE			1+	3	1.92	2.20	2.20	65
		23 0040		0045	NO FLARE			1+					
		23 0055		0100	NO FLARE			1+					
		23 0125		0145	NO FLARE			1+					
23 0430			0448	0431	N08 E27		1+						
23 0620			0625	NO FLARE			1+						
23 0710			0720	NO FLARE			1+						
23 0725			0750	NO FLARE			1+						
23 0800			0805	NO FLARE			1+						
23 0813		E	0823		N11 E03		1	2		2.00	2.00		
23 0817		E	0825		N11 E05		1-						
23 1005			1020		NO FLARE		1-						
23 1030			1035		NO FLARE		1-						
23 1040			1045		NO FLARE		1-						
SCHAUINS	23 1055		1105	NO FLARE			1	2		3.00			
	23 1110		1125	NO FLARE			1						
	23 1135		1155	NO FLARE			1						
	23 1155	E		NO FLARE			1						
	23 1200		1220	NO FLARE			1						
	23 1230		1245	NO FLARE			1-	3					
	23 1249		1254	NO FLARE			1-	3					
	23 1257		1310	D	1258	N07 E28	1-	3					
	23 1301		1306		1303	N08 E24	1-	3					
	23 1320		1330	NO FLARE			1-						
CLIMAX	23 1335		1340	NO FLARE			1-	3					
	24 1410		1420	NO FLARE			1-		.20	.20			
	24 1557		1625	1611	S03 W07		1-		.50	.50			
	24 2337		0021	2352	N19 E10		1-		.73	.70	2.10	85	
TACHKENT	25 0326		0330	0327	N08 E09		1-	3					

SOLAR FLARES

MARCH 1962

OBSERVATORY	DATE	OBSERVED TIME		MAX. PHASE	LOCATION		DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS		MAX. WIDTH H _g	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
		START	END		APPROX. LAT.	MNTH PLAGE REGION				MEAS. AREA Sq. Deg.	COBR. AREA Sq. Deg.			
KODAIKNL UCCLE	25	1050	1058	1053	N07 E08	6373	9 D	1-	2	.58	.59			
	25	1051 E	1100	NO FLARE	N08 E05			1	3					
	25	1105	1120	NO FLARE	PATROL									
	25	1130	1140	NO FLARE	PATROL									
	25	1145	1150	NO FLARE	PATROL									
	25	1155	1250	NO FLARE	PATROL									
	25	1251 E	1445 D	1421	N07 W00	6373	45 D	1+	3	6.00	6.00			
	25	1400	1503 D	1426 U	N09 W05	6373	59 D	1	2	3.50	3.70			
	25	1404	1455		N08 W04	6373	42 D	1	2	3.70	6.00			
	25	1413 E	1500 D		N07 W03	6373	30 D	2	2					
25	1430 E	1505 D	1447	N09 W05	6373		1-		2.00	2.00				
25	1446 E	1629	1614	N17 W02			1-		.10	.10				
25	1611 E	1635	1620	N18 E02			1-		.20	.20				
25	1617	1909	1909	N21 E32			1-		1.40	1.50				
25	1904	1929	1912	N21 W38			1-		.30	.30				
25	1908	1924		N17 W00			1-							
26	0021 E	0058	0028	S05 W23			1-		1.10	1.10				
26	0808	0812	0808	N07 W02			1-		1.24	1.24				
26	0810	0832	0813	N08 W08			1-		1.10	1.10				
26	0811 E	0820 D	0812	N08 E06	6373	9 D	1+		3.16			70		
26	1148	1200		N10 W17			1-							
26	1305 E	1305 D		N08 W14			1-		1.00	1.00				
26	1426 E	1505 D		N18 W26			1-		.60	.60				
26	2124	2134	2127	N17 W15			1-		.20	.20				
27	1609	1618	1612	N18 W38			1-		.30	.30				
27	1845	1850	1847	N17 W39			1-		.10	.10				
28	1059 E	1101 D		N06 W48			1-							
28	1222 E	1459	1432	N10 W86			1-							
28	1426	1504		N07 E30			1-							
28	1501			N08 E32			1-							
29	0204	0212	0206	N12 W43			1-							
29	0205	0210	0206	N12 W43			1-							
29	0238	0244	0239	N12 W43			1-							
29	0600	0620	NO FLARE	PATROL			1-							
29	0700	0710	NO FLARE	PATROL			1-							
29	1315	1350	NO FLARE	PATROL			1-							
29	1400	1405	NO FLARE	PATROL			1-							
29	2205	2220	NO FLARE	PATROL			1-							
29	2225	2240	NO FLARE	PATROL			1-							
29	2255	2300	NO FLARE	PATROL			1-							
30	0010	0020	NO FLARE	PATROL			1-							
30	0030	0035	NO FLARE	PATROL			1-							
30	0145	0235	NO FLARE	PATROL			1-							
30	0550	0600	NO FLARE	PATROL			1-							
30	0605	0640	NO FLARE	PATROL			1-							
30	1100	1110	NO FLARE	PATROL			1-							
										.54	.85	1.52	76	
										.58			114	
										.63			62	

SOLAR FLARES

MARCH 1962

OBSERVATORY	DATE MAR 1962	OBSERVED UNIVERSAL TIME		LOCATION		DURA- TION — MINUTES	IM- POR- TANCE	OBS. COND.	TIME — U T	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT
		START	END	APPROX. LAT.	MER. DIST.					McMATH FLARE REGION	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	
	30	1115	1130	NO FLARE	PATROL	20	1			1.00	5.00		
	30	1135	1140	NO FLARE	PATROL	4 D	1	1	0245	.97	3.12	1.64	
	30	1155	1230	NO FLARE	PATROL	7	1	1	0653	1.10	1.50		
	30	1325	1405	NO FLARE	PATROL	27	1	1	0723	.50			
CLIMAX	30	2032	2052	2040	S17 W90	6369	1	2		1.26	5.27		57
KODAIKAL	31	0245 E	0249	0245	N08 W70	6373	1	1	0245	.90	3.00		S-SWF
CAPETOWN	31	0650	0701	0653	S08 E42	6373	1	1	0653				
—	31	0716	0743	0723	N08 W73	6373	1	1					
—	31	0718 E	0853 D	0839	N08 W73	6373	1	2					
—	31	0823 E	0847	0838	N10 W75	6373	1	2					
—	31	0833	0855	0839	N08 W73	6373	1	3	0839				
—	31	0835 E	0846	0841	N06 W85	6373	1	3					
—	31	0839 E	0848	0848	N09 W74	6373	1	2	0839				
—	31	0846	0853	0848	S07 E40	6379	1	2					
—	31	0847	0854	0854	S09 E45	6379	1	3					
—	31	0940	1047	1047 D	N10 W75	6373	1	1					
—	31	0950	1010	1004	N08 W73	6373	1	1	1004	.60			
—	31	0959 E	1019 D	1009	N06 W84	6373	1	3					
—	31	1036	1050	1050 D	N06 W84	6373	1	3					
—	31	1226 E	1238	1238	N08 W73	6373	1	1	1226	.90			
—	31	1230 E	1415 D	1415 D	N10 W76	6373	1	1					
—	31	1327	1349 D	1331	N08 W73	6373	1	3	1331	.6			
—	31	1643	1720 D	1649	N06 W80	6373	1	1		1.50	4.10		
—	31	1858	1949	1905	N06 W80	6373	2	1		2.60	7.00		
—	31	2022 E	2101	2042	N06 W80	6373	1	1		1.20	3.20		

These flare reports are addenda to the March 1962 flares published in CRPL-F 212 April 1962.

ATHENS, GREECE	HONOLULU	HAWAII, USA	NERA	NEDEHRORST den BERGH,
PIRCULLI, USSR	IKOMASAN	KYOTO, JAPAN		NETHERLANDS
BAKOU	KIEV KO	KIEV GAO, USSR		KRASNAYA PAKHRA, USSR
CAPETOWN	KIEV KY	KIEV UNIVERSITY, USSR		SAC PEAK
	LOCKHEED	LOS ANGELES, CALIF., USA		SACRAMENTO PEAK, N.MEX. USA
CAPRI F	MC MATH	MC MATH-HULBERT		STOCKHOLM, SWEDEN
CAPRI S		FONTLAC, MICH., USA		SCHAUTINSLAND, GFR
CRIMEE		MOSCOW-GAISH, USSR		TASHKENT, USSR
HERSTMONCEU		MOSCOU		WENDELSTEIN, GFR

ALL VALUES IN THE MAXIMUM INTENSITY COLUMN FOR SAC PEAK ARE ARBITRARY UNITS (0-40) AND FOR LOCKHEED ARE ARBITRARY UNITS (10-40), NOT PERCENT OF CONTINUOUS SPECTRUM.

SEE DESCRIPTIVE TEXT PUBLISHED NOVEMBER 1961 FOR DEFINITION OF CORRECTED AREA VALUES LISTED FOR CLIMAX, HAWAII, LOCKHEED AND SACRAMENTO PEAK.

E = LESS THAN D = GREATER THAN U = APPROXIMATE □ = NOT REPORTED.

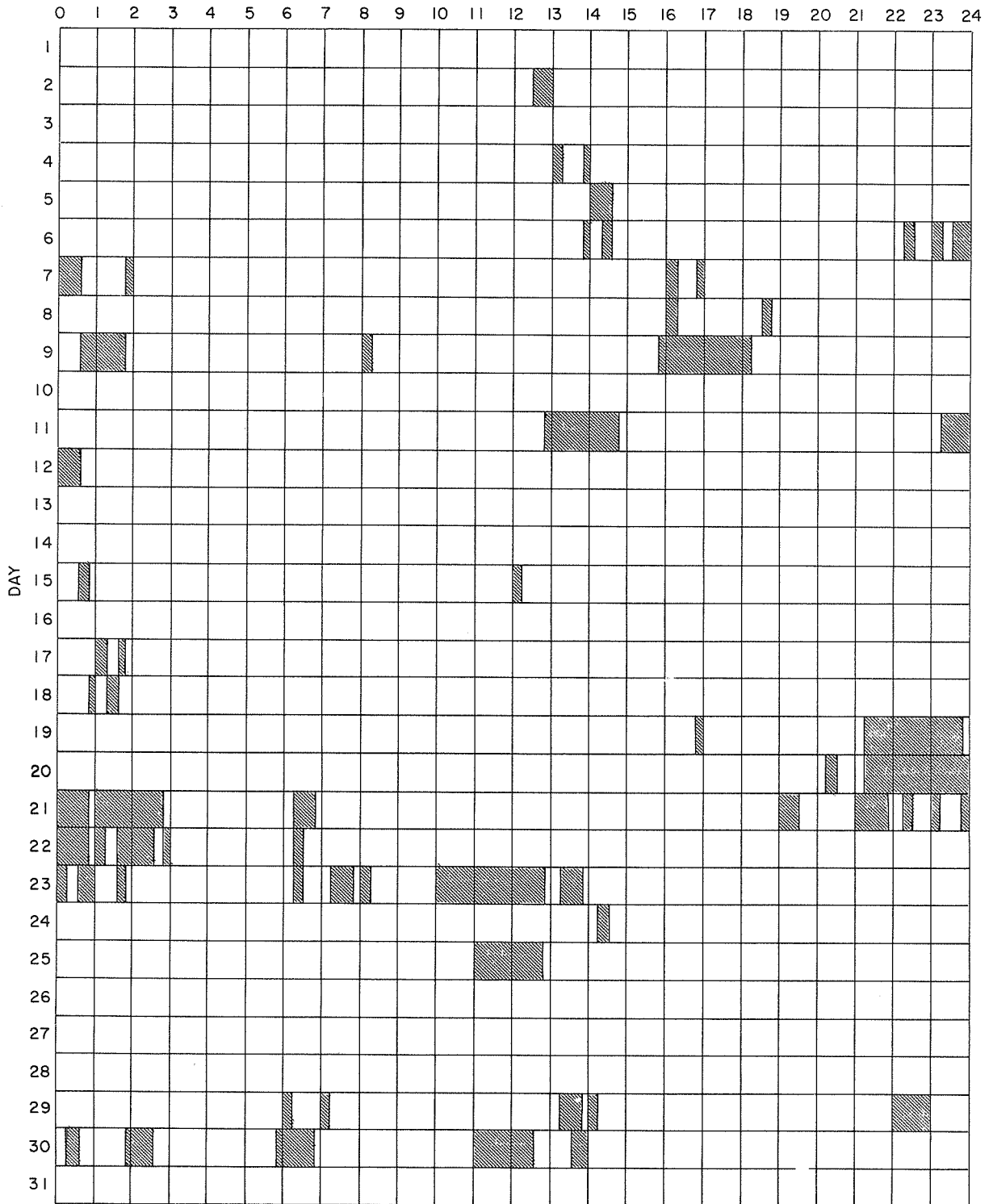
COMMERCE - STANDARDS - BOULDER

INTERVALS OF NO FLARE PATROL OBSERVATIONS

IIIq

MARCH 1962

HOUR-UT



Stations Include:

- | | | | | | |
|------------|----------|----------------|----------------|----------|-----------------|
| Abastumani | Capetown | Haute-Provence | Kiev KO | Mitaka | Sacramento Peak |
| Alma-Ata | Capri-F | Herstmonceux | Kodaikanal | Moscou | Schauinsland |
| Arcetri | Capri-S | Honolulu | Lockheed | Nizamia | Tachkent |
| Bakou | Climax | Huancayo | McMath-Hulbert | Nizmir | Uccle |
| Bucharest | Crimee | Ikoman | Meudon | Ondrejev | Voroshilov |
| | | | | | Wendelstein |

COMMERCE - STANDARDS - BOULDER NOON MAR 62

IONOSPHERIC EFFECTS OF SOLAR FLARES

SHORT WAVE RADIO FADEOUTS
 SUDDEN COSMIC NOISE ABSORPTION
 SUDDEN ENHANCEMENTS OF ATMOSPHERICS
 SUDDEN PHASE ANOMALIES
 SOLAR NOISE BURSTS AT 18 Mc

MAY 1962

MAY 1962	UNIVERSAL TIME			SWF TYPE	IMPORTANCE					WIDE SPREAD INDEX	STATIONS	KNOWN FLARE	
	START	END	MAX		IMP	ABS	SCNA	SEA	SPA				BUR
01	0643	0703		S 2							5	OK TO CW**	0642
01	0648	0724	0705				1				5	TY TR	0642
* 01	1252	1930		G 1							5	MC FM PR	1217
01	1916					X					5	BO CO HA MC	1915
01	1916	1940	1924					36			1	BO+	1915
01	1916	1942		S 1+							5	BE AN FM HU MC PR WS	1915
* 01	1916	2000	1924				2				5	A5 A1 A3 A5 A9 A10	1915
01	1919	1955								3	5	BO HA MC (Group of bursts)	1915
02	1513	2350								1	5	HA BO MC (Intermittent isolated bursts)	
02	1919	1945	1927				2				5	A1 A5 A10	1909
03	0642	0720		S 2							5	OK JU	0628
03	0647	0722						X			1	KU	0628
03	0650	0729					2				1	JU	0628
03	1956	1958								1	5	BO HA MC	
11	1612	1625								1	4	MC BO (Group of bursts)	1615
11	2103	2104								1	4	BO MC	2100
13	0852	1002						X			1	KU	0853E
13	0858	0933		SL 2							1	JU	0853E
* 13	2120	2200	2140		15	1					5	BO HA MC	2112
13	2120	2200		G 1+							5	MC AD BE HU PR WS	2112
13	2120	2230	2140					24			1	BO	2112
13	2122	2205	2138				1+				5	A9 A1 A3 A5	2112
13	2133	2135									5	BO HA MC	2112
18	1531	1535								1	4	MC BO (Group of bursts)	1530
23	1845	1848								1	4	BO MC	
25	1430	0030								2	5	BO HA MC (Noise storm)	
27	1517	1520								1	4	MC BO	1511
28	1630	1730	1642					30			1	BO	1555E
* 28	1637	1710	1650				1+				5	A5 A3 A9 A13	1555E
28	1640	1700		SL 1							5	MC AN BE FM HU PR	1555E
29	2352	2355								1	1	HA	2345
30	1637	1640								1	4	MC BO	1627
30	1805	1812								1	4	MC BO (Group of bursts)	
30	1837	1848								1	5	BO HA MC (Group of bursts)	
30	1839	1842								1	4	MC BO	
31	0155	0200								2	5	HA MC	0156E
* 31	1140	1930									5	MC DA JU PR	1050
31	1503	2230								1	5	BO HA MC (Noise storm)	

COMMERCE - STANDARDS - BOULDER

BO = Boulder recording NBA for SPA
 BO+ = Boulder recording NBA for SPA
 CW** = Somerton, England
 DA = Darmstadt, GFR
 JU = Juhlesruh, GDR

* Sudden Enhancement of Signal (NBA or NPM) observed by A1, A5 and A14.

Errata:

In table IIIo CRPL-F 213 Part B May 1962, add + = No Known Flare Patrol for the first entry March 01 at 1030 UT.

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

IVa

JUNE 1962

ARO-OTTAWA

2800 MC.

June 1962	Type	Start UT	Duration Hrs:Mins	Maximum			Record
				Time UT	Peak Flux	Mean Flux	
1	3 Simple 3	1950	1 20	2013	6	3.5	Maximum flux reached in this period.
1	3 Simple 3	2140	>1 40	indet.	10	-	
7	3 Simple 3 f	2250	45	2310	5	2.5	
13	1 Simple 1	1452	2	1453	2	1	
16	1 Simple 1	1105	7	1112.8	2	1	
16	3 Simple 3	1803	> 5 27	indet.	12	-	
17	3 Simple 3	1932	1 40	2015	3	1.5	
18	2 Simple 2	1440.3	1.8	1440.8	9	4	
20	3 Simple 3	2000	1 53	2018	5	2.7	
21	3 Simple 3	1240	2 55	1400	3	1.9	
22	3 Simple 3 A	1957	>3 33	2152	7	-	
	1 Simple 1	2130	4	2131	2.4	1.2	
25	1 Simple 1	1945	2.5	1945.5	2	1	
26	3 Simple 3 A f	1625	3 10	1708	10	5	
	1 Simple 1	1704	3.7	1705.5	5	3.3	
	2 Simple 2 f	1727.5	1.5	1728	32	5	

COMMERCE - STANDARDS - BOULDER

HOURS OF OBSERVATION: APRIL, MAY, JUNE 1962

OBSERVING PERIOD:

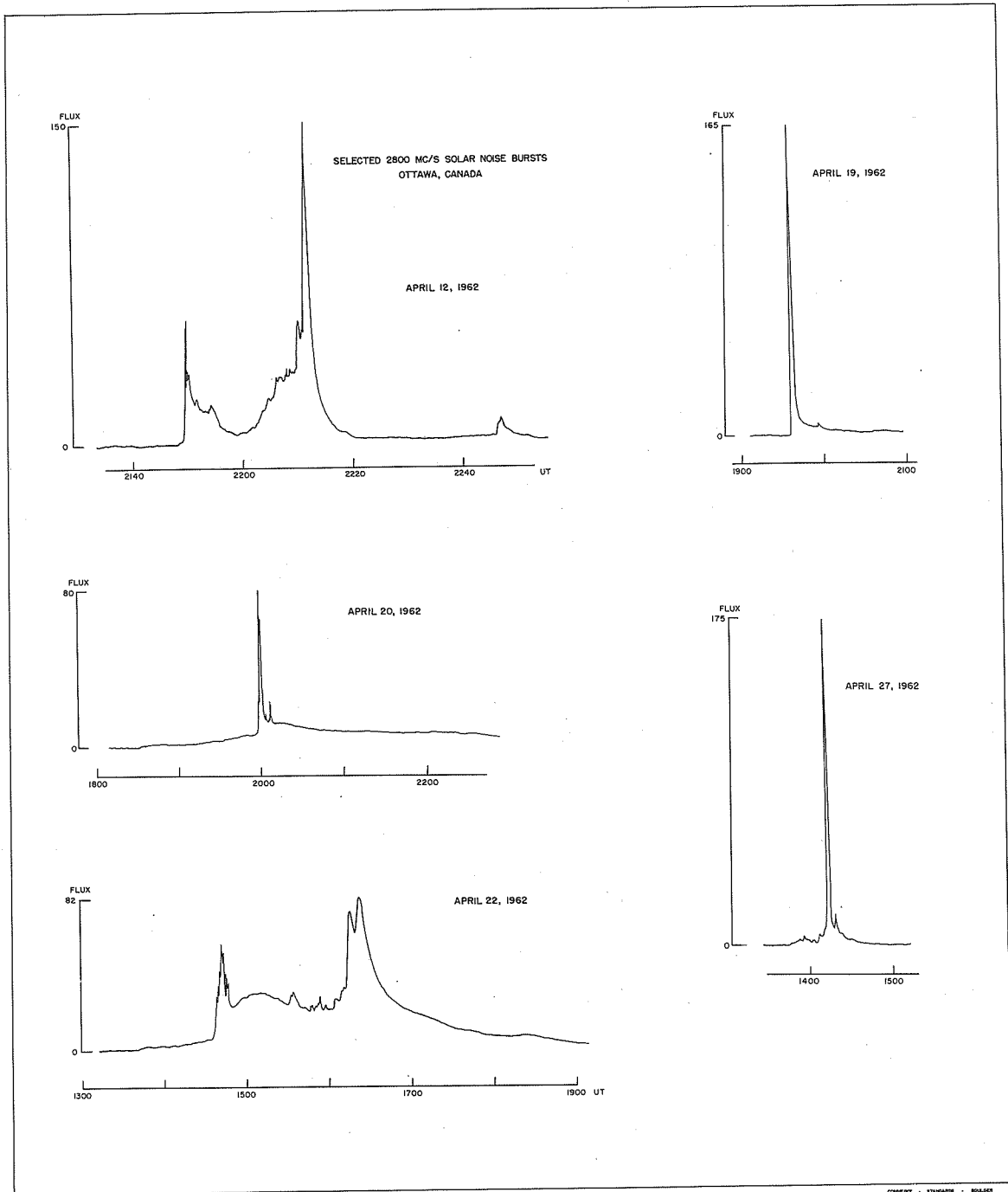
April 11:25 UT - 23:30 UT (approx)
 May 11:00 UT - 23:30 UT (approx)
 June 11:00 UT - 23:30 UT (approx)

with the following exceptions:

- (1) Observations commenced:
 - May 20 at 14:20 UT
 - June 1 at 15:15 UT
 - June 5 at 13:00 UT
 - June 9 at 13:15 UT
 - June 12 at 13:25 UT
 - June 18 at 13:10 UT
 - June 19 at 13:20 UT
 - June 20 at 13:10 UT
 - June 22 at 13:20 UT
- (2) No observations:
 - June 14 14:20-16:35 UT
 - June 29 All day
 - June 30 All day
- (3) Interruption of observations for calibrations purposes of approximately 20 minutes, usually in the period 16:00 UT - 17:00 UT, daily from May 16.

OTTAWA 2800 MC OUTSTANDING OCCURRENCES

APRIL 1962

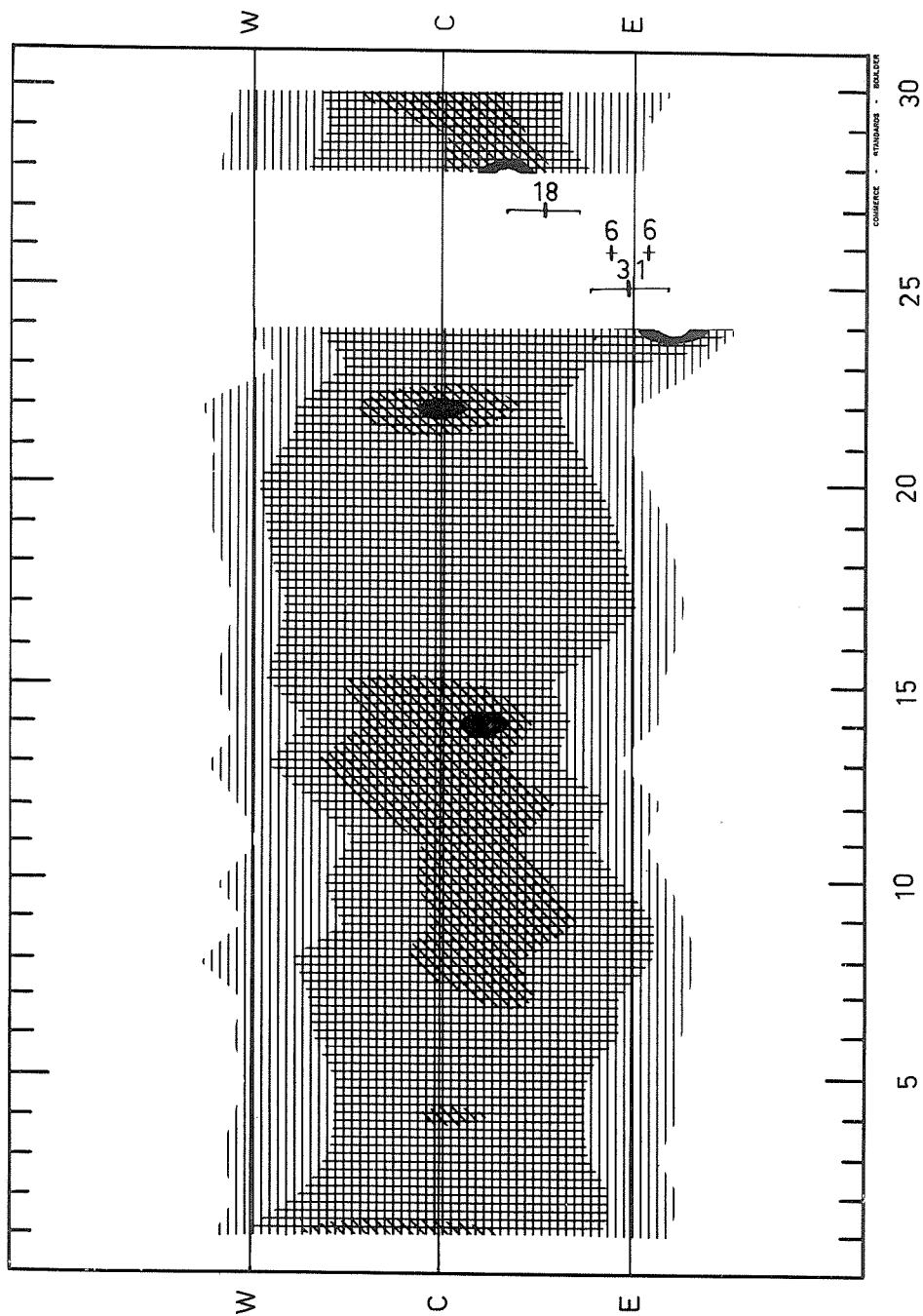


SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

169 Mc

JUNE 1962

Nançay



SOLAR RADIO EMISSION

JUNE 1962

BOULDER

108 Mc.

June 1962	Type	Start UT	Time of Maximum UT	Duration Minutes	Intensity
1	3	1204.6	1205.3	1.6	3
1	7	1507	1547	92	1
5	8	2351.9	2353.0	2.2	3
6	2	1620	1622.1	7	3
7*	8	0008.5		11.5	3
11	3	1602.2	1602.9	1.6	3
12	8	1927.9	1931.0	7.1	2
17	3	1718.0	1719.0	2.0	3
25	6	1137 E	1218	228 D	1
26	6	1137 E		138 D	1
26	3	1616.9	1617.5	1.0	3
26	7	1640		242	2
27	8	1229.4	1232.0	4.9	3

COMMERCE - STANDARDS - BOULDER

* Doubtful - heavy interference.

NOMINAL TIMES OF OBSERVATION

JUNE 1962

BOULDER

108 Mc.

June 1962	U.T.			June 1962	U.T.		
1	1138-0200	I	2010-2125; 0030-0200	16	1136-0208	I	1915-0000
2	1138-0201			17	1136-0208		
3	1138-0201	I	2200-2300; 0133-0201	18	1136-1630; 1826-0208		
4	1137-0202			19	1136-1444; 2245-0209	I	2245-0209
5	1137-0202	I	2153-0202	20	1136-0209	I	1826-0209
6	1137-0203	I	1137-1230; 2000-0203	21	1136-0209	I	2105-0120
7	1136-0204	I	1840-0204	22	1136-0209	I	1550-1730; 2130-0145
8	1136-1702; 1833-0204	I	1105-1330; 1832-2030	23	1136-0210	I	1905-0100
9	1136-0205	I	1325-1445	24	1137-0210	I	1750-0200
10	1136-0205			25	1137-0210	I	1740-2300
11	1136-0206	I	1940-2330	26	1137-0210		
12	1136-0206	I	1747-2300	27	1138-0210		
13	1135-0207	I	2115-0207	28	1138-0210	I	1800-0110
14	1135-0207	I	1700-1759; 2252-2258	29	1139-0210	I	1810-0210
15	1135-0207			30	1139-0210	I	1830-0210

COMMERCE - STANDARDS - BOULDER

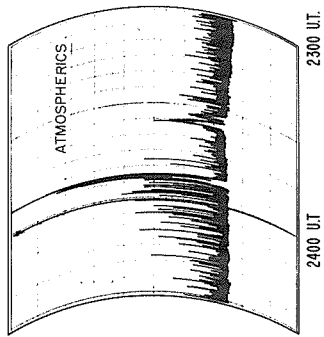
The interference is primarily from local thunderstorm activity.

SOLAR NOISE BURSTS

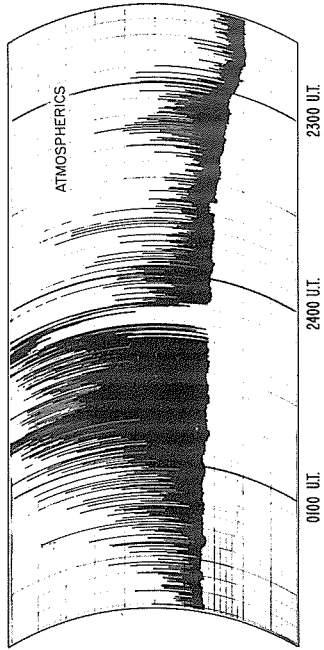
JUNE 1962

BOULDER

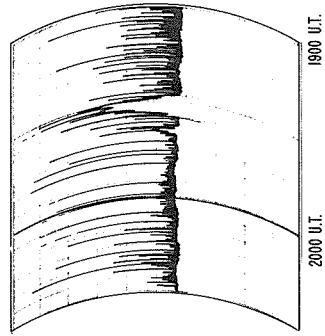
108 Mc



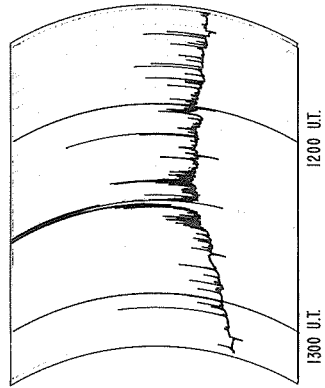
JUNE 5-6, 1962



JUNE 6-7, 1962



JUNE 12, 1962



JUNE 27, 1962

COMBEE - STUBBS - BAKER

SOLAR RADIO EMISSION SPECTRUM OBSERVATIONS

JUNE 1962

HAO BOULDER

7.6-41 MC

Date 1962	Bursts			Frequency Range (mc)	Date 1962	Bursts			Frequency Range (mc)
	Type	Time (U.T.)	Inten- sity			Type	Time (U.T.)	Inten- sity	
1 Jun	III	1205.15-1206.30	1+	17-41	13 Jun	III	1453.45-1454.30	1+	20-41
	III	1952.30-1953.15	1-	21-41	14	III	1439.45-1440	1	20-41
	III	1956-1957	1	21-41	III	2423.15-2423.30	1-	21-41	
	II	2005-2015	2	19-41	15	III	2139.15-2139.30	1-	21-41
	III	2008.30-2010	2-	19-41	III	2259.45-2300.30	1	20-41	
4	III	2206.30-2207.15	1	24-41	16	III	2029.45-2030.30	1	21-41
	III	1414-1414.30	1-	22-41	III	2059-2059.30	1-	23-41	
	III	1419-1419.30	1	22-38	III	2254.30-2255	1	29-41	
	III	1420.15-1420.45	1	22-38	III	2303-2303.45	1	23-29	
	III	1420.45-1421.30	1	22-38	III	2358.45-2359.15	1+	21-41	
	III	1422.15-1422.30	1	19-41	III	2416.45-2417.45	1	22-41	
5	III	1423.30-1423.45	1-	20-34	III	2423-2423.30	1	20-41	
	III	2111.30-2112.15	1-	20-41	III	1409-1409.45	1	21-41	
	III	2326.30-2328.30	1+	14-41	continuum	1417-1422	1-	23-41	
	III	2351.45-2355	2	10-41	III	1417-1417.45	1-	23-41	
	III	2355.15-2356.45	2-	14-41	III	1418.30-1418.45	1-	24-41	
6	III	2357.30-2358	1+	16-41	III	1421.30-1421.45	1	23-41	
	III	2358.15-2358.30	1	21-41	III	1555-1555.45	1+	11-41	
	III	2404.15-2405	1+	19-41	III	1718-1721.30	2	7.6-41	
	III	2412.15-2412.30	1	21-41	III	1720.45-1721.15	1-	21-41	
	III	2418.30-2419	1	21-41	III	1721.30-1721.45	1	21-41	
	III	2442.15-2443.45	2-	13-41	III	1722-1722.30	1+	16.5-41	
	III	2444-2445.30	2-	14-41	III	1723.15-1725.30	2	7.6-41	
	continuum	2100-2110	1-	19-41	III	2248.15-2249.15	2	20-41	
	III	2101.30-2101.45	1	18-41	19	III	2104.15-2105	1+	7.6-41
	III	2102-2102.30	1-	20-41	III	2110.45-2111.30	1	20-41	
7	III	2102.45-2103	1-	20-41	III	2111.45-2112	1-	22-37	
	III	2357.15-2357.45	1	21-41	III	2112.15-2112.45	1	20-41	
	III	2440-2440.15	1-	20-41	III	2118-2118.45	1-	20-41	
	III	2440.15-2441.30	1+	16-41	III	2138.30-2139.45	2-	7.6-41	
	III	2441.30-2442	1+	16-41	III	2151.15-2152	1-	20-41	
8	III	2442.30-2443.15	1+	16-41	III	2211-2211.45	1+	14-41	
	III	2443.30-2444	1+	16-41	III	2214-2214.30	1+	16-41	
	III	2445.15-2446.30	1	19-41	III	2215.15-2215.45	1-	22-41	
	III	1735.45-1736.15	1-	21-39	III	2226-2226.30	1+	16-41	
	III	1809.45-1810	1-	21-41	III	2230.15-2230.45	1	21-41	
10	III	1901.30-1902.30	1-	20-41	III	2233.30-2234.15	1	22-41	
	III	1938-1938.30	1-	18-41	III	2237.15-2238	2-	10-41	
	III	1425-1425.45	1	21-41	III	2246-2247	1+	12-41	
11	III	1538.30-1539	1+	8-41	III	2247-2247.45	1-	21-41	
	III	1600-1601.45	2	7.6-41	III	2311.15-2311.45	1	23-41	
12	III	1602-1603.30	2	7.6-41	III	2320.30-2321	1-	21-36	
	III	1603.45-1604.30	2-	8-41	III	2444.30-2445.15	1-	20-41	
	III	1806.45-1807.15	1	20-41	III	2453.15-2454	1	22-41	
	III	2112-2112.30	1-	21-41	20	III	1408.15-1409.15	1	19-41
	III	2335.30-2336	1	19-41	+	III	1409.15-1409.45	1-	20-41
	III	1919.15-1919.45	1	21-41	III	1409.45-1410.30	1-	20-41	
	III	2421.30-2422	1	22-41	III	2355-2355.45	1	19-41	

SOLAR RADIO EMISSION SPECTRUM OBSERVATIONS

IVg

JUNE 1962

HAO BOULDER

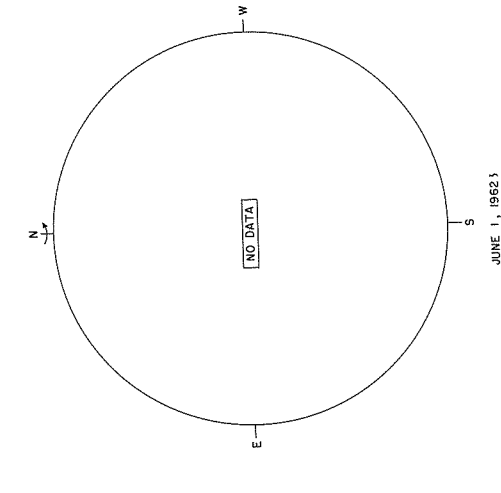
7.6-41 MC

Date 1962	Bursts				Date 1962	Bursts			
	Type	Time (U.T.)	Inten- sity	Frequency Range (mc)		Type	Time (U.T.)	Inten- sity	Frequency Range (mc)
23 Jun	III	2132.15-2133	1-	21-41	27 Jun	III	1421.15-1422.15	1-	15-41
	III	1903.45-1504.45	1-	21-41		III	1424.15-1424.45	1-	25-41
24	III	1514.15-1514.45	1-	20-41	III	1522-1523.30	1-	22-41	
	III	1848.15-1849	1-	21-41	III	1524.45-1525.15	1-	23-41	
25	III	1459-1502	1+	8-41	III	1528.30-1529	1-	22-41	
	III	1502.15-1502.30	1-	20-40	III	1535.45-1536.15	1	21-41	
26	III	1520.15-1521	1+	28-41	III	1542-1544.30	2	8-41	
	III	1521.30-1524	2-	8-41	III	1611.15-1611.30	1-	22-41	
	continuum	1806.45-1812.30	1	7.6-41	III	1619-1619.30	1-	25-36	
	III	1807.45-1810.15	2	7.6-41	III	1623.45-1624	1-	27-41	
	III	1811-1811.45	1	20-41	III	1630.45-1631.30	1-	26-41	
	III	1852.45-1853.30	2-	8-41	III	1643.15-1645	1+	7.6-41	
	III	1658.15-1659.15	1-	23-41	III	1646.45-1647.30	1	16-41	
	III	1700.15-1701	1-	22-41	III	1647.45-1648.15	1	24-38	
	III	1702-1702.45	1	21-41	III	1648.45-1649	1	24-41	
	III	1704.30-1706.45	1+	21-41	III	1651.30-1651.45	1-	19-41	
	continuum	1735-2000	1-	27-41	III	1658.30-1659.30	1-	21-41	
	III	1905-1907.15	1	19-41	III	1701.45-1702	1-	26-41	
	III	1907.30-1908	1	19-41	continuum	1710-1825	1-	21-41	
	III	1945.15-1945.45	1+	16.5-41	III	1719.30-1720.15	1	21-41	
	III	1946.45-1947.45	1	26-41	III	1720.45-1721.30	1	22-41	
	III	1948.15-1949.15	1+	16.5-41	III	1750.30-1751.15	1	20-41	
	III	1951.45-1953.15	1+	20-41	III	1801.15-1802	1+	7.6-41	
	III	2005.45-2006.15	1-	22-35	III	1804.30-1805.15	1	15-41	
	III	2023.30-2023.45	1	22-41	III	1812.15-1813.45	1+	8-41	
	III	2025-2025.15	1-	23-41	III	1819.45-1821.15	2-	7.6-41	
III	2028-2031.45	2	7.6-41	III	1839.30-1841.45	2-	7.6-41		
continuum	2031-2215	1-	24-41	continuum	1842-2045	1-	21-41		
III	2049.15-2051.30	2-	7.6-41	III	1903.15-1903.45	1+	15-41		
III	2104-2104.45	1+	20-41	III	1951.30-1952	1	16-41		
III	2125.45-2126.45	1	11-41	III	1956.30-1957.45	1+	7.6-41		
III	2149.30-2150	1+	20-41	III	2013.15-2014.30	1+	7.6-41		
III	2159.30-2200.15	2-	8-41	III	2124-2124.30	1-	16-36		
III	2242.15-2243	1	12-41	III	2136.30-2138.45	1	8-38		
III	2243.30-2244	1-	20-41	III	2144.45-2145.15	1	20-41		
III	2246.30-2247.30	1	12-41	III	2158.30-2159.15	1	12-41		
III	2306.30-2308	2-	7.6-41	III	2201.45-2202.30	1	11-41		
III	2308-2311.15	1	16.5-41	III	2205.45-2207	1	16-41		
III	2312-2312.15	1-	21-35	III	2353.30-2354	1-	21-35		
III	2318.15-2318.45	1-	20-35	III	2432.30-2434	1-	21-41		
III	2320-2321	1	16.5-41	III	2435.30-2436	1-	22-41		
continuum	2335-2520	1-	24-41	III	2454.45-2455	1-	20-37		
III	2335-2335.45	1+	16.5-41	III	2458.45-2459.15	1-	18.5-41		
III	2350-2350.30	1	20-41	III	1525-1525.45	1+	18.5-41		
III	2438.15-2439.45	2-	12-41	III	1528.45-1529.30	1	19-41		
III	2440-2440.45	1	16-41	III	1530.45-1531.30	1+	19-41		
III	2450.45-2451.15	1+	16-41	III	1751.30-1751.45	1-	26-41		
27	III	1416.15-1416.45	1-	22-41	28	III	1743.30-1744.30	1-	8-35
					29	III			

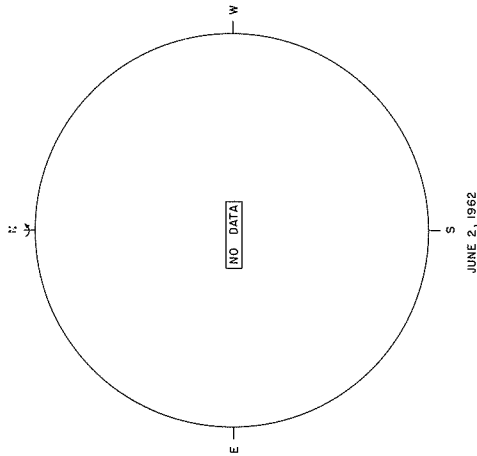
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

JUNE 1962

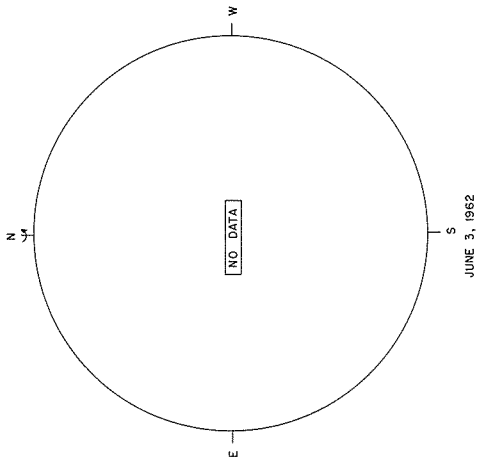
STANFORD



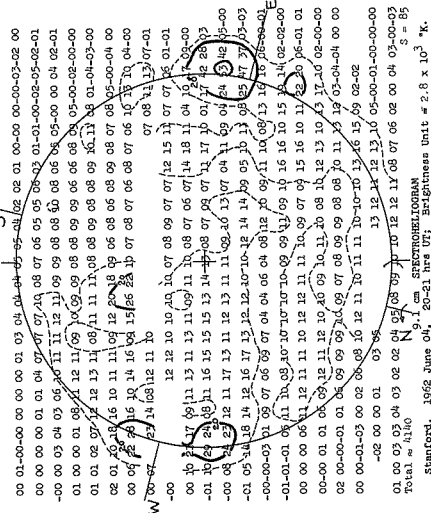
JUNE 1, 1962



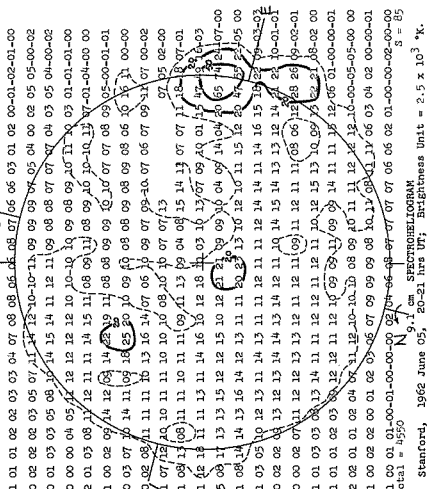
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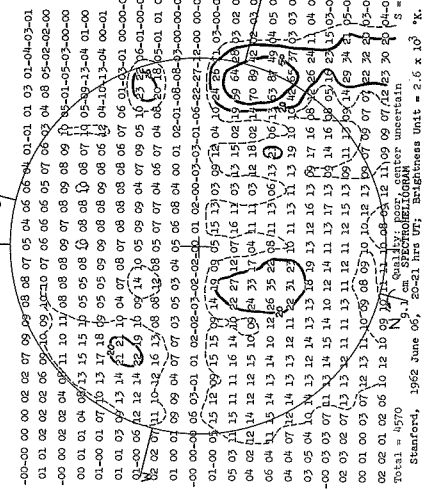
JUNE 3, 1962



JUNE 4, 1962



JUNE 5, 1962



JUNE 6, 1962

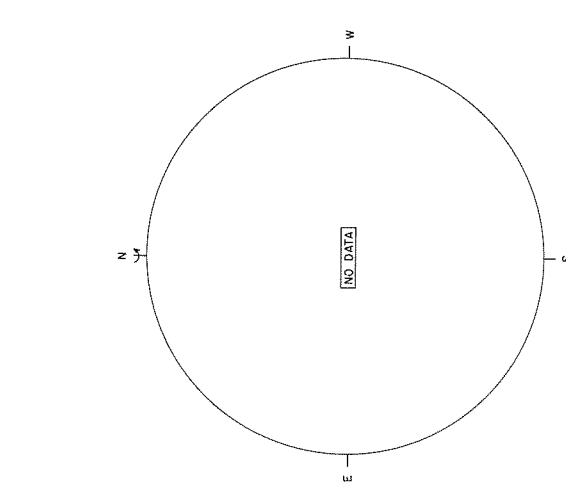
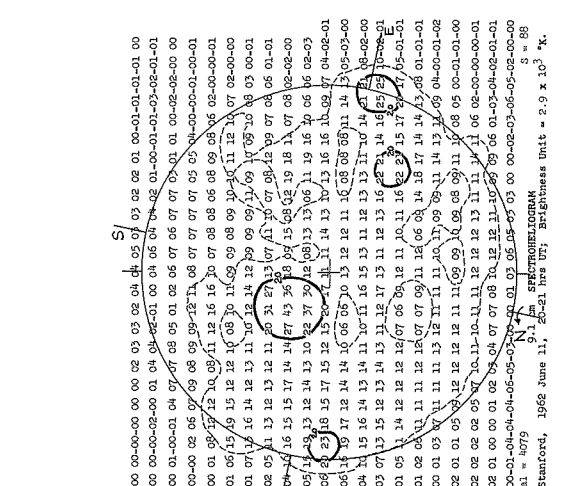
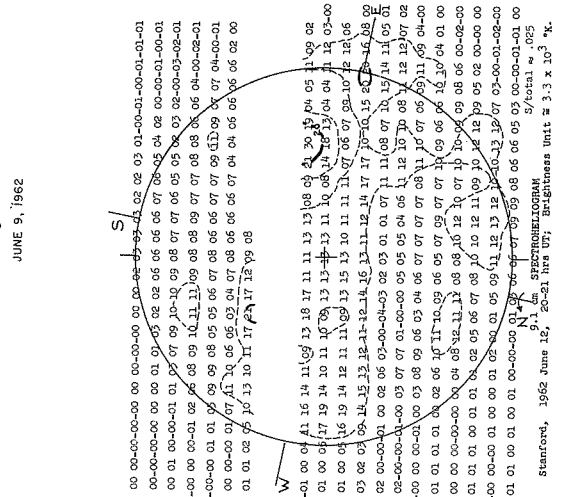
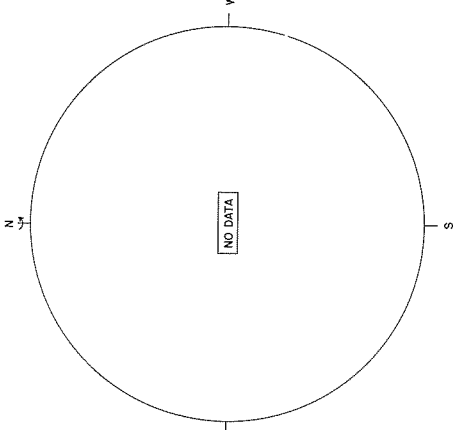
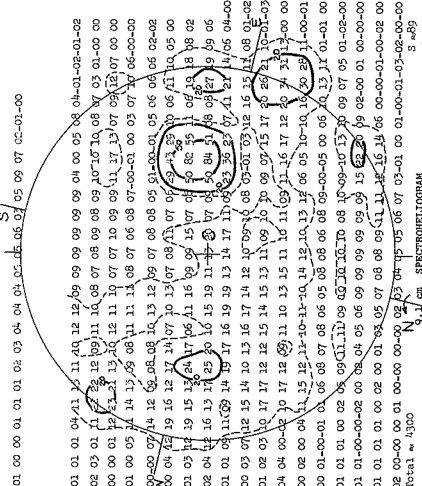
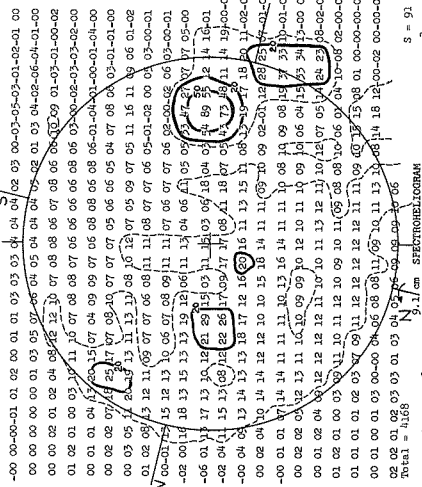
Stanford, 1962 June 04, 20-21 hrs UT; Brightness Unit = 2.8×10^3 *K.
 Total = 4160 S = 85
 N = 10
 W = 10
 E = 10
 S = 85
 N = 10
 W = 10
 E = 10
 S = 85

Stanford, 1962 June 05, 20-21 hrs UT; Brightness Unit = 2.5×10^3 *K.
 Total = 4550 S = 85
 N = 10
 W = 10
 E = 10
 S = 85
 N = 10
 W = 10
 E = 10
 S = 85

Stanford, 1962 June 06, 20-21 hrs UT; Brightness Unit = 2.6×10^3 *K.
 Total = 4570 S = 87
 N = 10
 W = 10
 E = 10
 S = 87
 N = 10
 W = 10
 E = 10
 S = 87

STANFORD
SOLAR RADIC EMISSION SPECTROHELIOGRAMS
JUNE 1962

9.1 cm

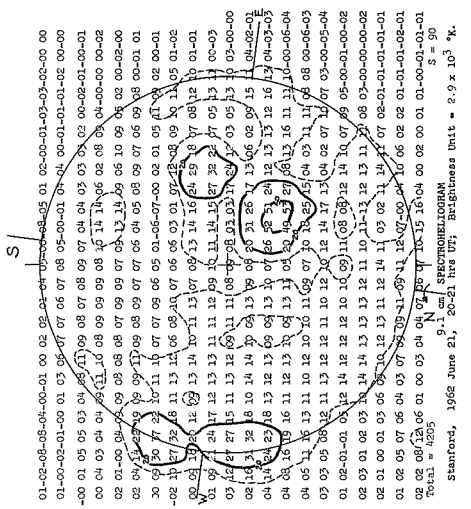
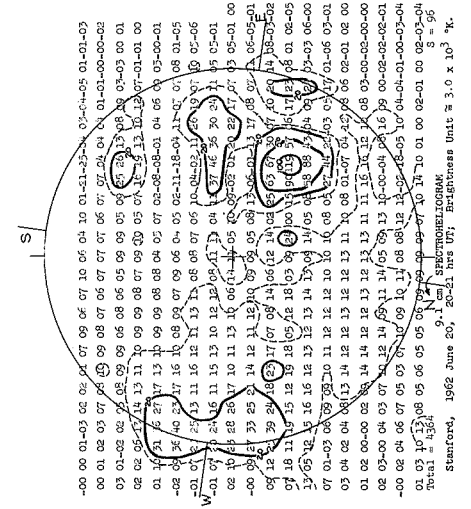
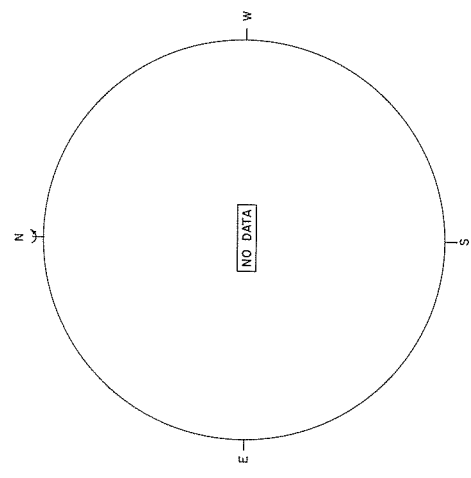


SOLAR RADIO EMISSION SPECTROHELIOGRAMS

JUNE 1962

STANFORD

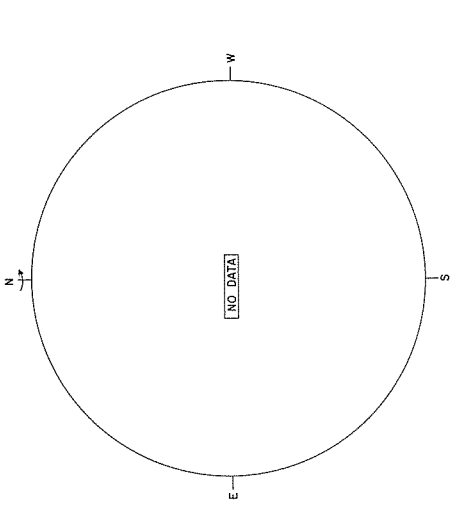
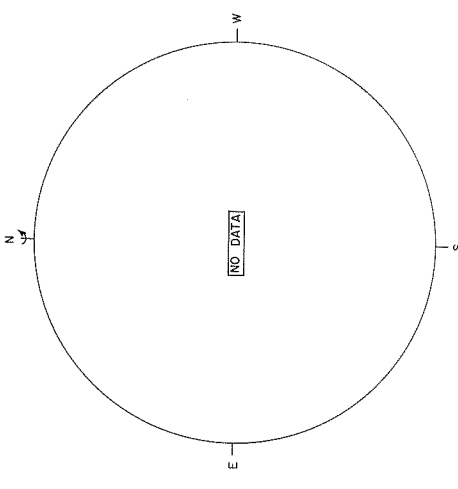
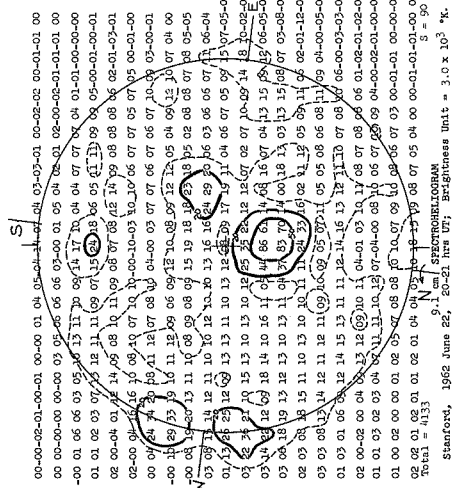
9.1 cm



JUNE 19, 1962

JUNE 23, 1962

JUNE 24, 1962

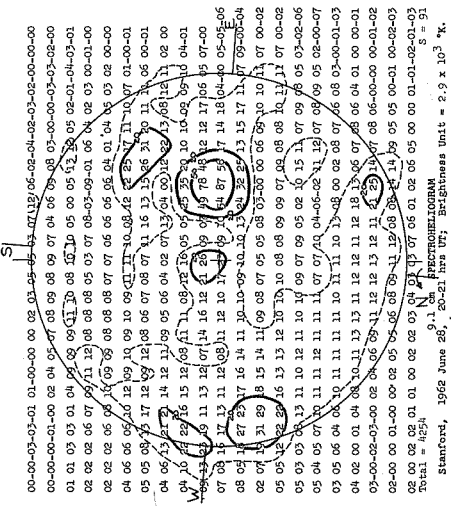
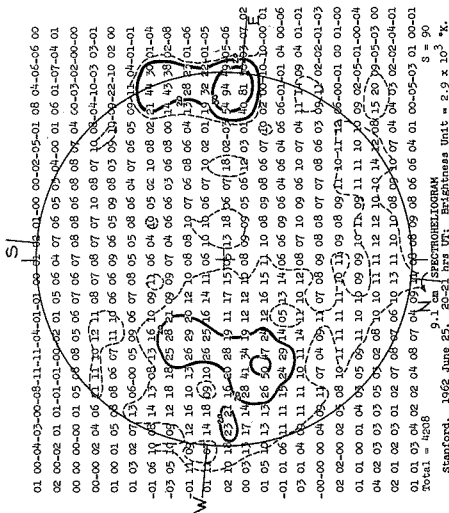
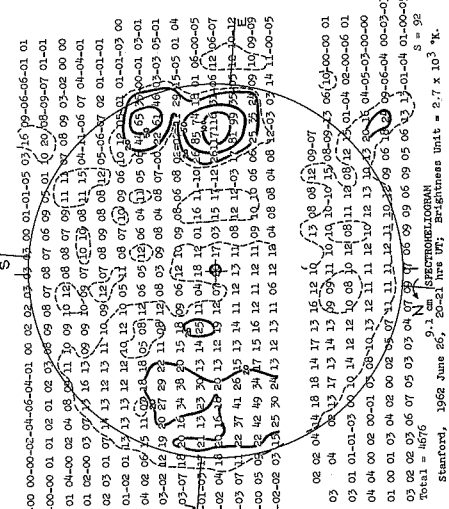
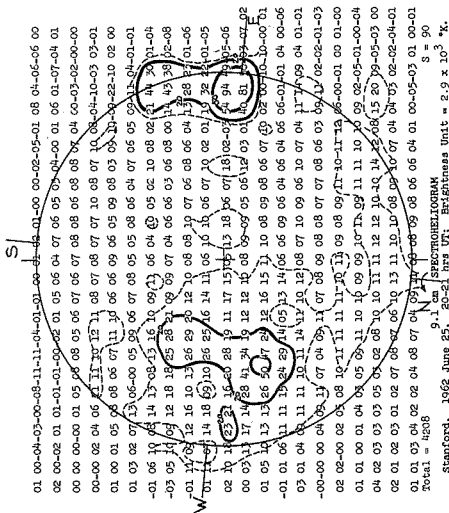


SOLAR RADIO EMISSION SPECTROHELIOGRAMS

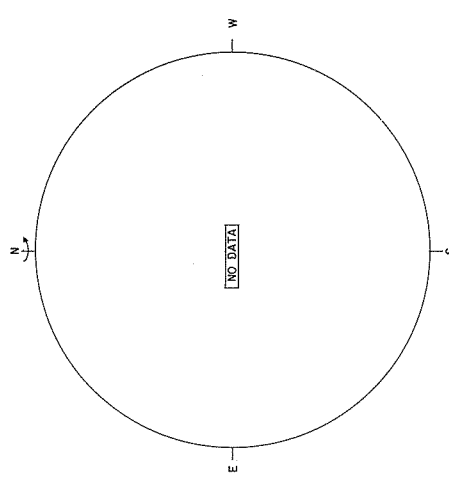
JUNE 1962

STANFORD

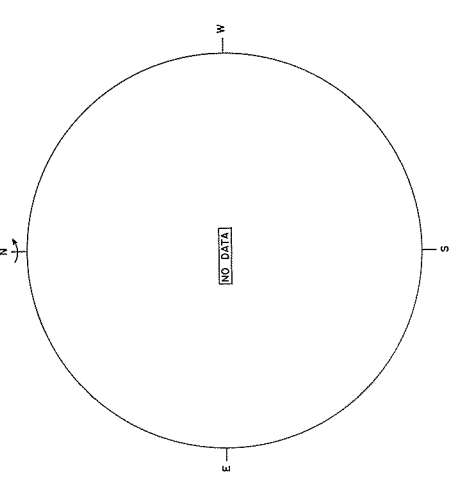
9.1 cm

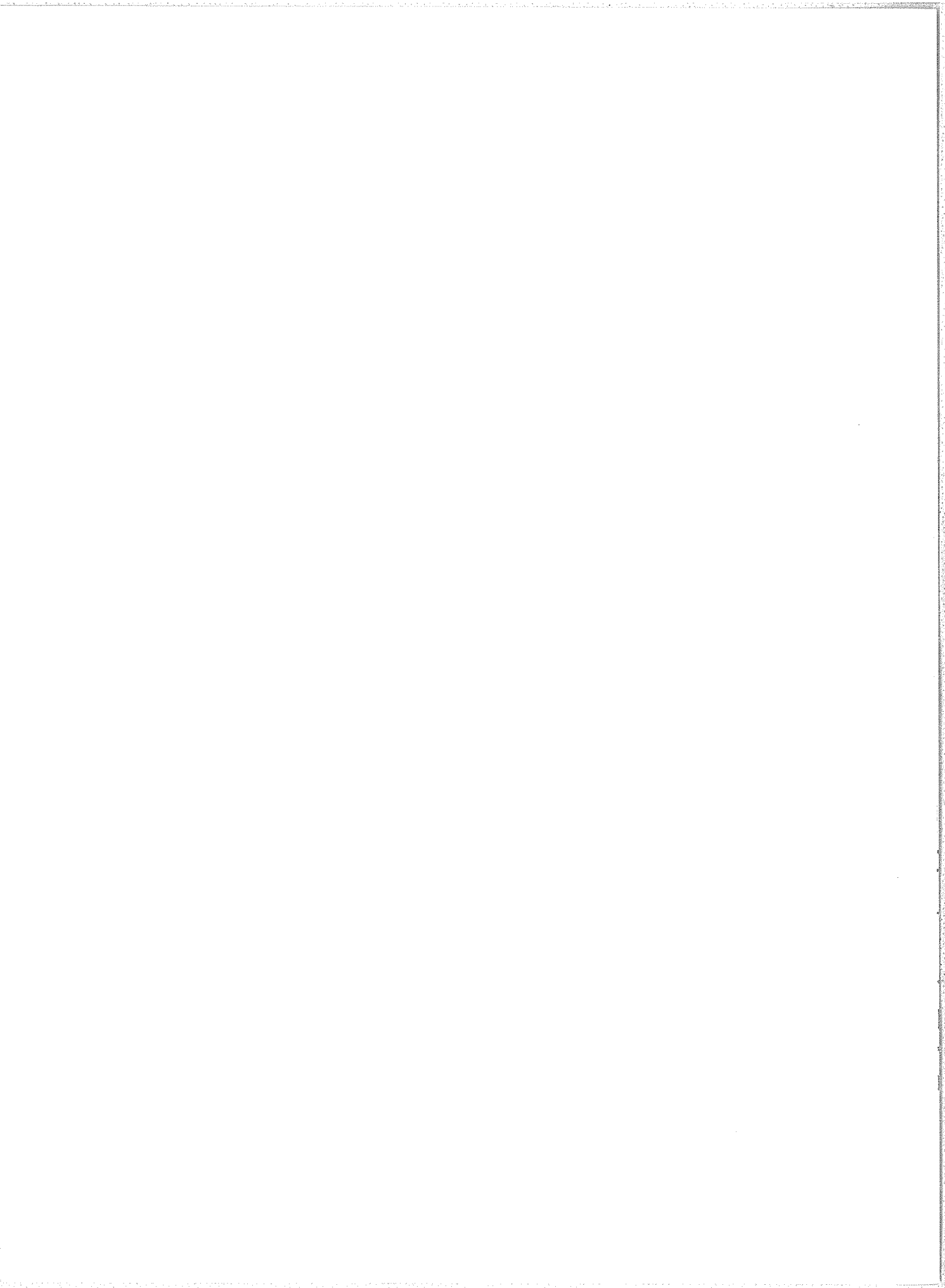


JUNE 27, 1962



JUNE 30, 1962





Va

COSMIC RAY INDICES

Climax Neutron Monitor

IGC STATION B 305

MAY 1962

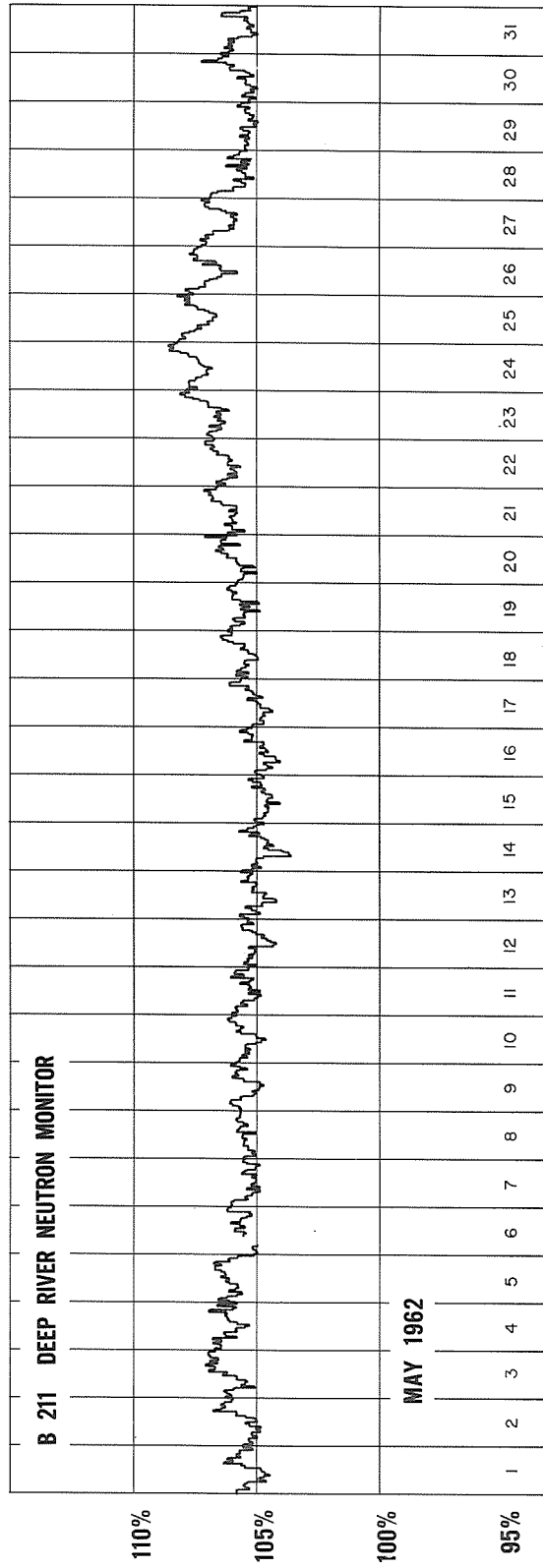
May 1962	Daily average counts/hr*	May 1962	Daily average counts/hr*
1	3060.6	17	3064.8
2	3056.1	18	3073.0
3	3066.7	19	3069.6
4	3059.4	20	3067.5
5	3053.2	21	3076.3
6	3037.0	22	3086.2
7	3048.8	23	3092.3
8	3053.3	24	3098.6
9	3048.6	25	3102.0
10	3046.2	26	3098.1
11	3046.6	27	3099.8
12	3049.8	28	3088.5
13	3061.7	29	3077.0
14	3063.2	30	3076.1
15	3062.8	31	3068.6
16	3068.8		

COMMERCE - STANDARDS - BOULDER

*Scaling Factor 128

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)



COMMERCE - STANDARDS - BOULDER

GEOMAGNETIC ACTIVITY INDICES

MAY 1962

May 1962	C	Values Kp								Sum	Ap	Final Selected Days
		Three hour Gr. interval										
		1	2	3	4	5	6	7	8			
1	0.6	4-	2-	1o	1o	1-	1-	3-	3o	14+	9	Five Quiet
2	0.6	2o	2+	3+	2o	2-	3-	2-	2+	18o	9	
3	0.4	3o	2+	2-	2o	1+	1-	2-	1o	14-	7	
4	0.0	1-	0o	1+	0o	0o	0o	0+	1o	3+	2	4
5	0.2	0o	0o	1-	0+	0+	1-	1+	3o	6+	4	18
6	1.2	2-	2o	1+	3+	4+	5o	5-	4+	27-	23	23
7	0.4	3+	2+	1+	1+	2-	1-	1+	2o	14o	7	24
8	0.2	2+	2o	1o	0+	1o	1o	1-	3-	11o	6	25
9	0.0	1+	1+	0o	1o	0o	0+	0+	0o	4+	2	
10	0.2	2-	2+	1+	2-	1+	2+	0+	0+	11+	6	
11	0.6	0+	2-	1+	0+	3o	3+	3o	3-	16-	9	Five Disturbed
12	0.1	1o	1-	1+	1o	0+	0+	1-	1o	6+	3	
13	0.8	1+	2+	2o	2+	4o	2o	3-	4o	21-	13	
14	0.8	3o	4-	3o	3+	3o	1+	3o	3+	24-	15	6
15	0.8	3o	3o	3o	2-	3-	4-	4+	1-	22o	15	13
16	0.4	1o	3o	2+	3+	2-	0+	2-	2-	15o	8	14
17	0.1	0+	1-	1-	1o	1-	1o	1o	1o	6+	3	15
18	0.0	1-	1o	0+	0+	1o	1-	0o	0+	4+	2	31
19	0.6	1-	1+	4-	3+	2o	3+	1+	2-	17+	10	
20	0.3	2-	2-	1+	1+	1+	2o	0+	0+	10o	5	
21	0.0	1o	0+	0+	0+	1+	0+	0+	1-	5-	3	Ten Quiet
22	0.0	1o	0+	0+	1o	1+	1o	0+	0+	6-	3	
23	0.0	0o	1o	1-	1-	1o	0+	0+	0+	4+	2	
24	0.0	1-	1o	0+	0+	0o	0+	0+	0+	3+	2	4
25	0.0	0o	0o	0o	0+	0+	0+	0+	1o	2+	2	9
26	0.1	0+	1-	1-	1-	1o	1-	1+	2+	8-	4	17
27	0.8	2o	3o	3-	2+	3o	4-	2o	3-	21-	12	18
28	0.4	1-	1o	1-	2-	2o	2o	3-	2+	13o	6	21
29	0.3	1+	2o	2+	2-	1+	1o	1+	1o	12o	6	22
30	0.1	0+	1o	1o	0+	1o	0o	1-	1o	5+	3	23
31	1.1	0+	2o	3+	5-	5o	4-	3-	4o	26-	22	24
												25
												25
												30
Mean:	0.36									Mean:	7	

DAYS IN SOLAR ROTATION INTERVAL

ROT.-
NR.

1760

Feb 19 20 25 28 31 1 5 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

1761

Mch 18 20 25 31 1 5 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

1762

Apr 14 15 20 26 30 1 5 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

1763

May 11 15 20 25 31 1 5 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

1764

Jun 7 10 12 15 20 25 31 1 5 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

KEY

▲ = sudden commencement

0 + - 1 - 2 - 3 - 4 + - 5 - 6 + - 7 - 8 + - 9

PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES

Kp till 1962 May 31
(Ks from Wingst and Göttingen till June 12)

J.B.

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

MAY 1962

NORTH ATLANTIC

NORTH ATLANTIC

MAY 1962	NORTH ATLANTIC QUALITY FIGURES				SHORT-TERM FORECASTS HOUR IN ADVANCE OF:			WHOLE DAY INDEX	ADVANCE FORECASTS WHOLE DAY ISSUED IN ADVANCE BY:	GEOMAGNETIC APR		NORTH PACIFIC QUALITY FIGURES		SHORT-TERM FORECASTS HOUR IN ADVANCE OF:		WHOLE DAY INDEX	ADVANCE FORECASTS WHOLE DAY ISSUED IN ADVANCE BY:	GEOMAGNETIC JUNE			
	00 TO 06	06 TO 12	12 TO 18	18 TO 24	00	06	12			18	1-7	1-3	1-7	DAYS DMS DMS DAYS DMS DMS DMS	0600			1800	1-7	1-3	1-7
01	6-	50	6+	60	6	5	6	6	6-	6	2	2	6	6	6	6	6	6	6	2	1
02	6-	5-	6+	6+	5	5	6	6	6-	6	3	3	6	6	7	5	6	6	6	2	2
03	5+	50	7-	6+	6	5	6	6	60	5	3	1	6	6	5	6	5	6	6	2	1
04	6+	50	6+	6+	6	6	6	6	60	4	1	1	6	6	6	6	6	6	6	0	0
05	7-	6-	60	6+	6	5	6	6	6+	4	0	2	6	6	6	6	7	4	4	0	1
06	6+	5+	6+	6-	6	5	6	6	60	4	3	3	6	6	4	4	4	4	4	2	(5)
07	50	50	6+	6+	4	4	6	6	6-	4	3	2	6	6	4	6	6	4	4	2	1
08	60	50	7-	6+	5	4	6	6	60	4	2	2	6	6	5	5	5	5	5	1	1
09	60	5-	7-	7-	6	5	6	6	6+	5	1	1	6	6	5	6	6	6	6	1	0
10	7-	6-	7-	7-	6	5	7	7	6+	6	2	1	6	6	7	5	6	6	6	2	1
11	7-	6-	7-	7-	7	6	7	6	6+	6	1	3	6	6	7	6	6	6	6	1	2
12	6-	6-	6+	7-	6	6	7	7	60	6	1	1	6	6	7	6	6	6	6	1	0
13	6+	6-	60	60	6	6	6	6	60	6	2	3	6	6	5	6	6	6	6	2	3
14	6-	40	5+	6+	6	5	6	6	50	6	3	3	6	6	6	5	6	6	6	3	2
15	6+	5-	6+	6+	6	6	6	6	6-	6	3	2	6	6	6	6	6	6	6	3	2
16	6+	6-	60	60	6	5	6	6	60	6	3	2	6	6	6	5	6	6	6	(4)	1
17	60	60	6+	6+	6	5	6	6	60	6	1	2	6	6	6	6	6	6	6	0	0
18	7-	6+	6+	6+	6	6	7	7	6+	6	1	1	6	6	6	6	6	6	6	0	0
19	6+	60	6+	7-	5	4	6	6	6+	4	3	3	6	6	6	6	6	6	6	2	2
20	7-	6+	7-	6+	6	6	6	6	7-	4	2	1	6	6	7	5	6	6	6	2	0
21	7-	6+	7-	7-	7	6	7	6	7-	5	1	1	6	6	7	5	6	6	6	0	0
22	7-	6-	6+	6+	7	6	7	7	6+	5	5	1	6	6	6	5	6	6	6	0	0
23	7-	6+	6+	6+	7	6	7	7	6+	6	1	0	6	6	6	5	6	6	6	0	0
24	7-	6+	6+	6+	7	6	7	7	6+	7	1	1	6	6	6	5	6	6	6	0	0
25	7-	6+	6+	7-	7	6	7	7	7-	7	0	0	6	6	8	5	6	6	6	0	0
26	7-	6+	7-	7-	7	6	6	7	7-	7	1	2	6	6	7	6	5	6	6	0	1
27	7-	6-	6+	7-	7	6	6	7	6+	7	3	3	6	6	6	5	6	6	6	2	2
28	60	5+	6+	6+	7	6	6	7	60	7	2	2	6	6	6	5	6	6	6	1	2
29	6+	5+	60	7-	6	5	6	6	60	7	3	2	6	6	6	6	5	6	6	2	1
30	6+	6+	6+	7-	6	6	6	7	6+	7	1	1	6	6	6	5	6	6	6	0	0
31	60	6+	60	60	7	6	7	7	60	6	3	3	4	4	5	5	6	6	6	(4)	(4)

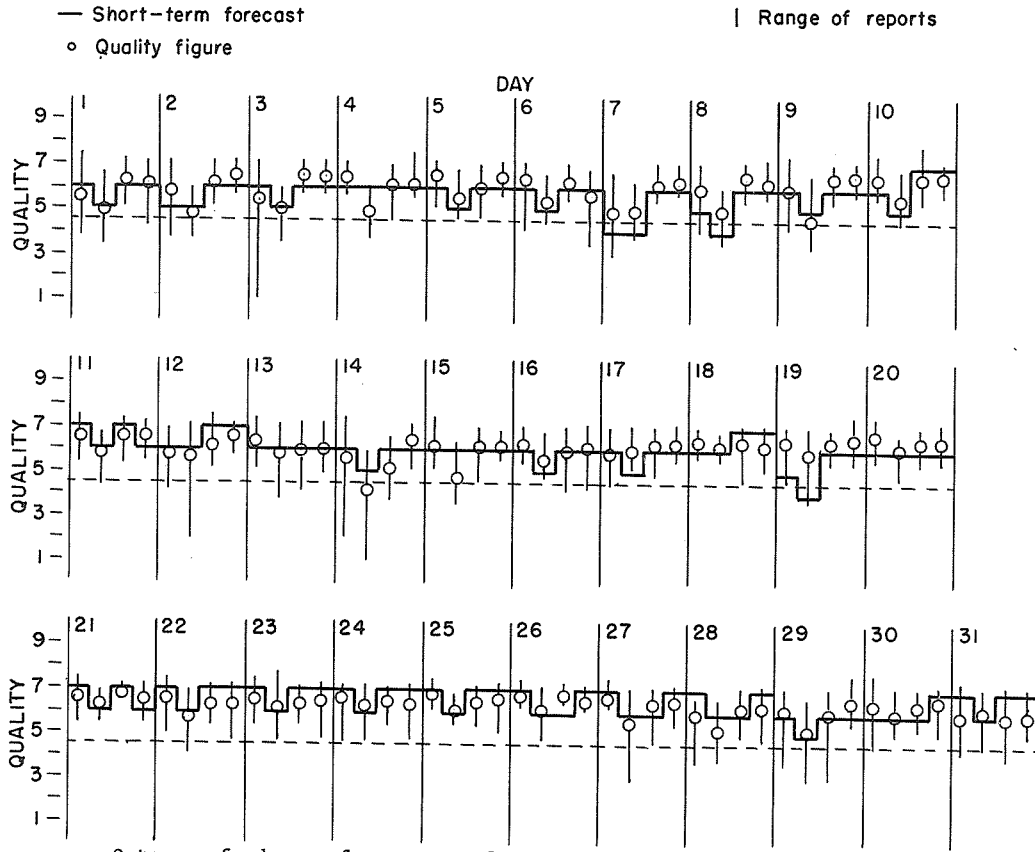
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 S 11 9 13 11
 U 0 0 0 0
 F 0 1 0 0
 Disturbed Periods P 0 0 0 0
 S 0 1 0 0
 U 0 0 0 0
 F 0 0 0 0

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

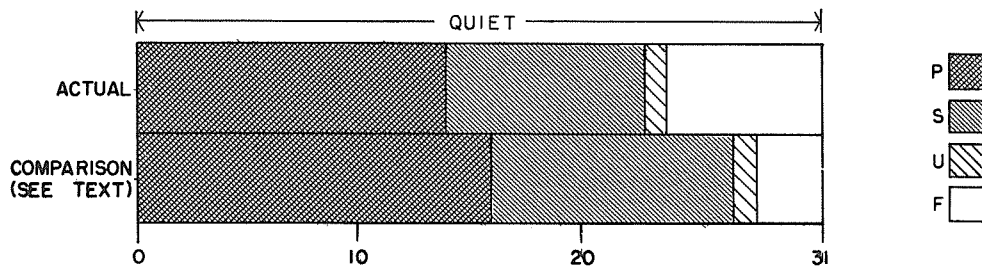
VIIb

NORTH ATLANTIC

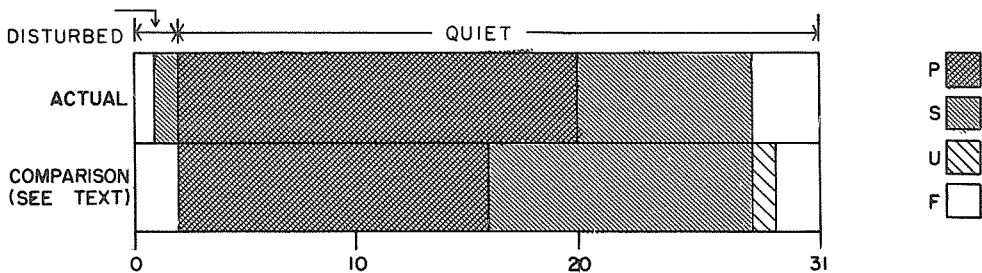
MAY 1962



OUTCOME OF ADVANCED FORECASTS FINAL ESTIMATE
 NORTH ATLANTIC

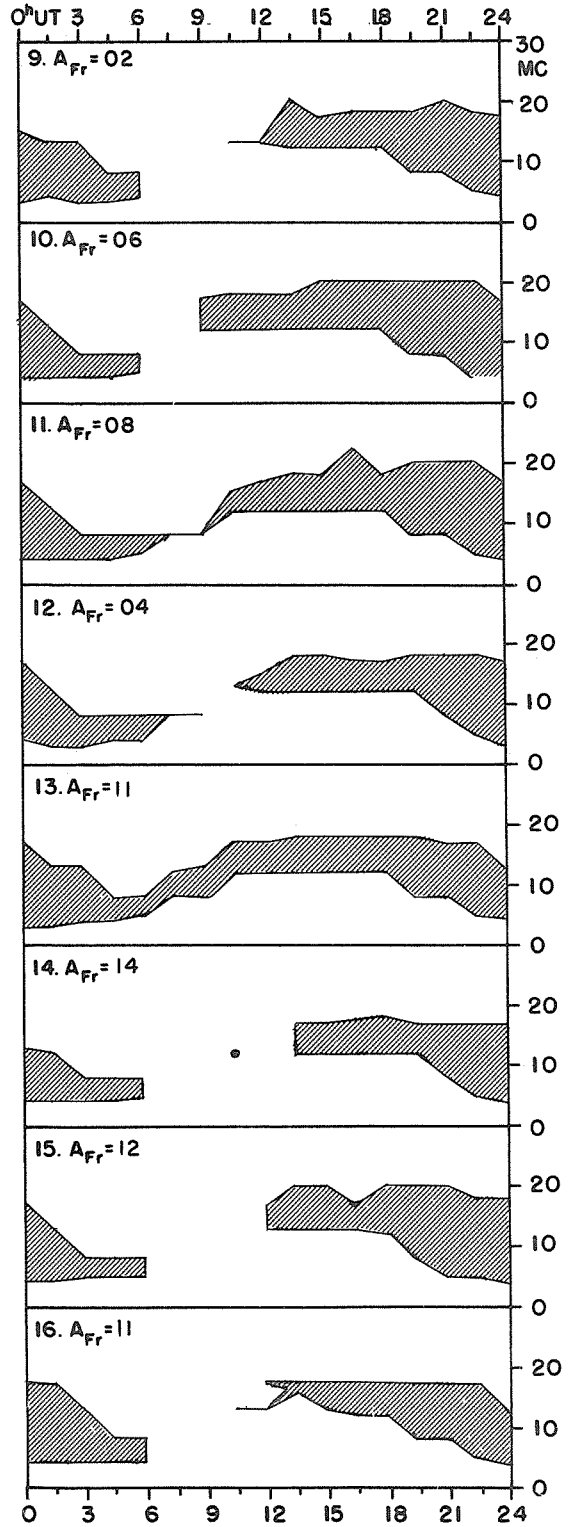
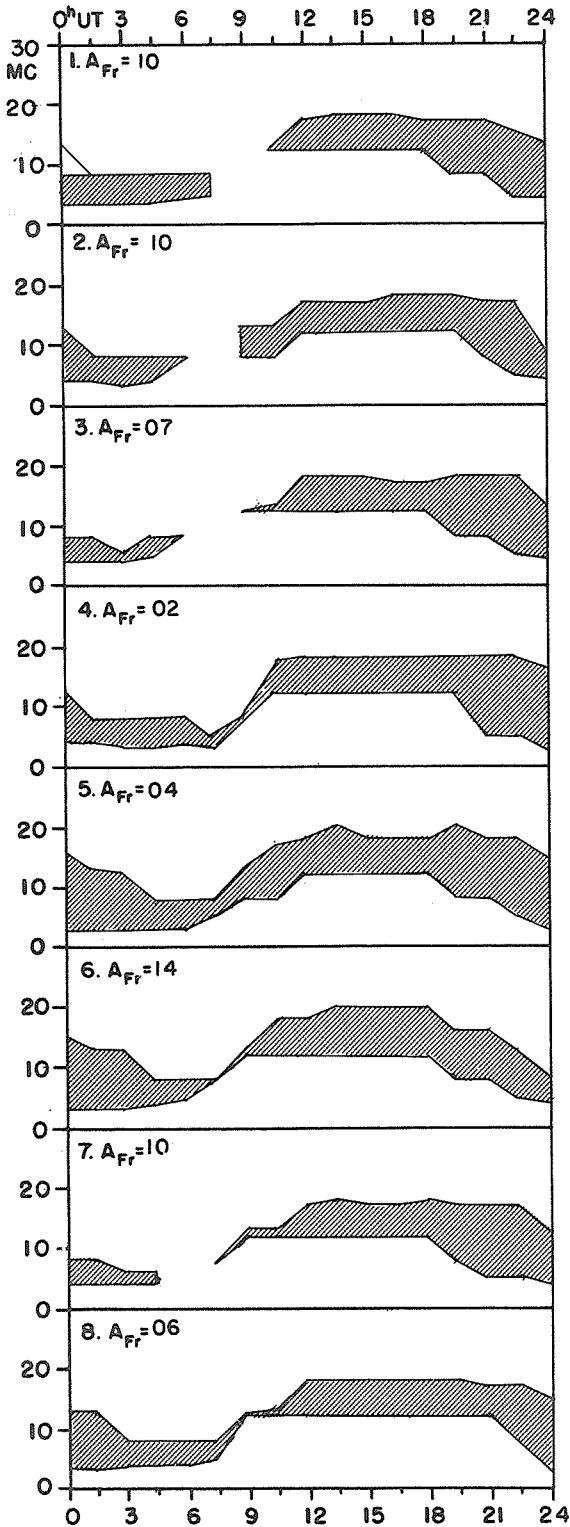


NORTH PACIFIC



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

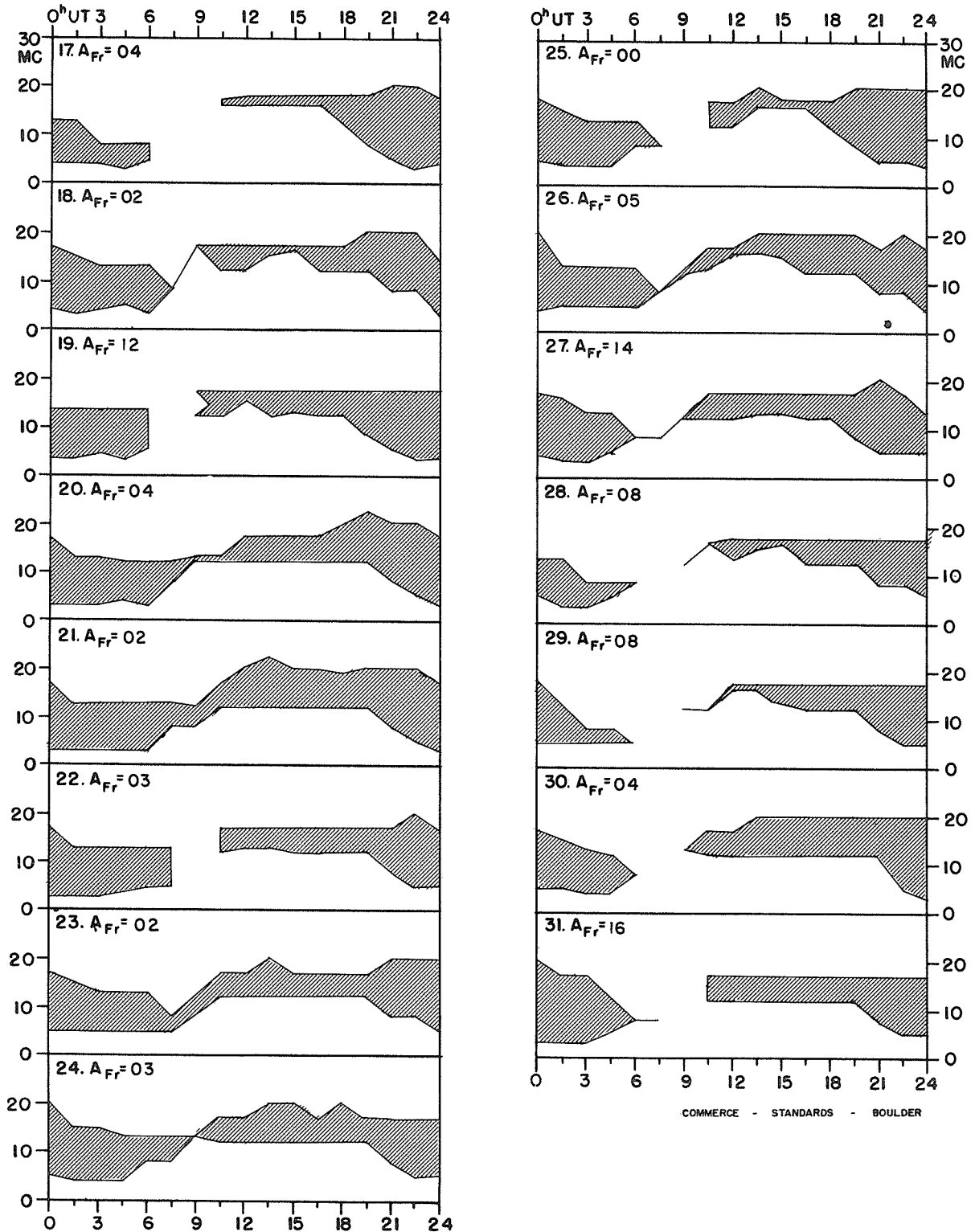
MAY 1962



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

VIII d

MAY 1962



COMMERCE - STANDARDS - BOULDER

Adapted from Observations by Deutsches Bundespost

VIIIa

ALERT PERIODS AND SPECIAL WORLD INTERVALS

INTERNATIONAL WORLD DAY SERVICE

JUNE 1962

Issued June 1962 Day/Time U.T.	Advance Geophysical Alert	No.	World-Wide Geophysical Alert	Special World Intervals
07/1345	Honolulu, Solar Flare, Two 06/2358Z			
13/1318	Honolulu, Solar Flare, Two 12/2242Z			
17/0018	Lockheed, Solar Flare, One Plus 16/2316Z			
20/2054	Lockheed, Solar Flare, Two 20/2030Z			

COMMERCE - STANDARDS - BOULDER