

CRPL-F 213 PART B

FOR OFFICIAL USE

PART B

SOLAR - GEOPHYSICAL DATA

ISSUED

MAY 1962

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

CRPL-F 213

PART B

NATIONAL BUREAU OF STANDARDS
CENTRAL RADIO PROPAGATION LABORATORY
BOULDER, COLORADO

Issued

31 May 1962

SOLAR - GEOPHYSICAL DATA

CONTENTS

I DAILY SOLAR INDICES

- (a) Relative Sunspot Numbers and 2800 Mc Solar Flux - March - April 1962
- (b) Graph of Sunspot Cycle

II SOLAR CENTERS OF ACTIVITY

- (a) Calcium Plage and Sunspot Regions - April 1962
- (b) Magnetic Classifications of Sunspots (Mt. Wilson) - April 1962
- (c-e) Final Coronal Line Emission Indices - January - February - March 1962
- (f) Provisional Coronal Line Emission Indices - April 1962

III SOLAR FLARES

- (a-i) Optical Observations - April 1962
- (j) Flare Patrol Observations - April 1962
- (k-m) Optical Observations - January 1962
- (n) Flare Patrol Observations - January 1962
- (o) Ionospheric Effects (SWF-SEA-SCNA-SPA-Bursts) - March 1962

IV SOLAR RADIO WAVES

- (a) 2800 Mc - Outstanding Occurrences (ARO-Ottawa) - April 1962
- (b) 169 Mc - Interferometric Occurrences (Nançay) - April 1962
- (c) 108 Mc - Outstanding Occurrences (Boulder) - April 1962
- (d) 108 Mc - Selected Outstanding Occurrences (Boulder) - Graphs
April 12, 27, 30, 1962
- (e-f) 7.6 - 41 Mc - Spectrum Observations (HAO-Boulder) - April 1962
- (g-i) 25-580 Mc - Fort Davis - January - February - March 1962
- (j-r) 9.1 cm - Spectroheliograms (Stanford) - February - March 1961,
April 1962

V COSMIC RAY INDICES

- (a) Climax Neutron Monitor - March 1962
- (b) Deep River Neutron Monitor - March 1962

VI GEOMAGNETIC ACTIVITY INDICES

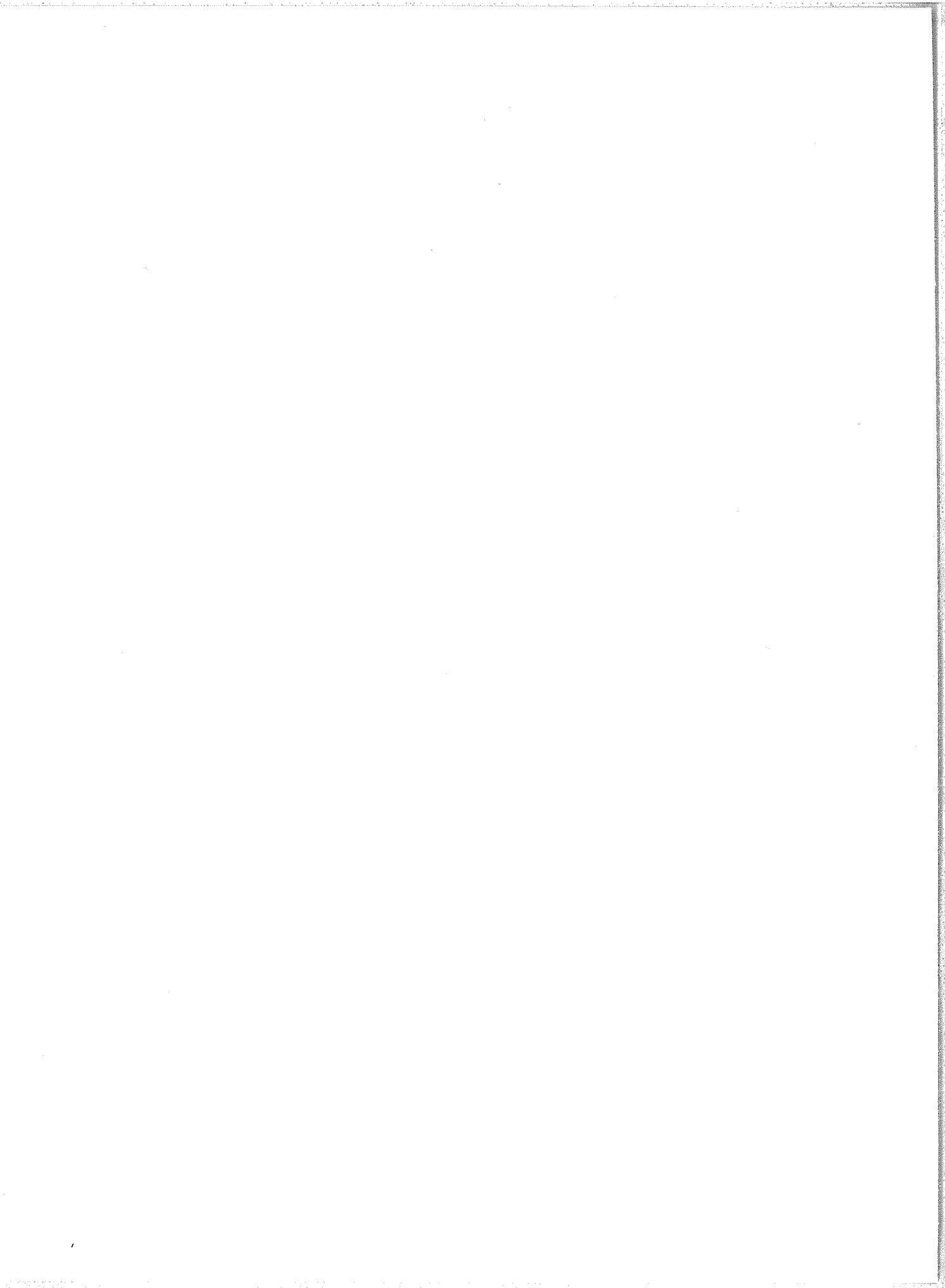
- (a) C, K_p, A_p and Selected Quiet and Disturbed Days - March 1962
- (b) Chart of K_p by Solar Rotations - 1962

VII RADIO PROPAGATION QUALITY INDICES

- (a) CRPL Quality Figures and Forecasts - North Atlantic and
North Pacific - March 1962
- (b) Graphs Comparing Forecasts and Observed Quality - North Atlantic
and North Pacific - March 1962
- (c-d) Graphs of Useful Frequency Ranges - March 1962

VIII ALERT PERIODS AND SPECIAL WORLD INTERVALS

- (a) Alerts and SWI - April 1962

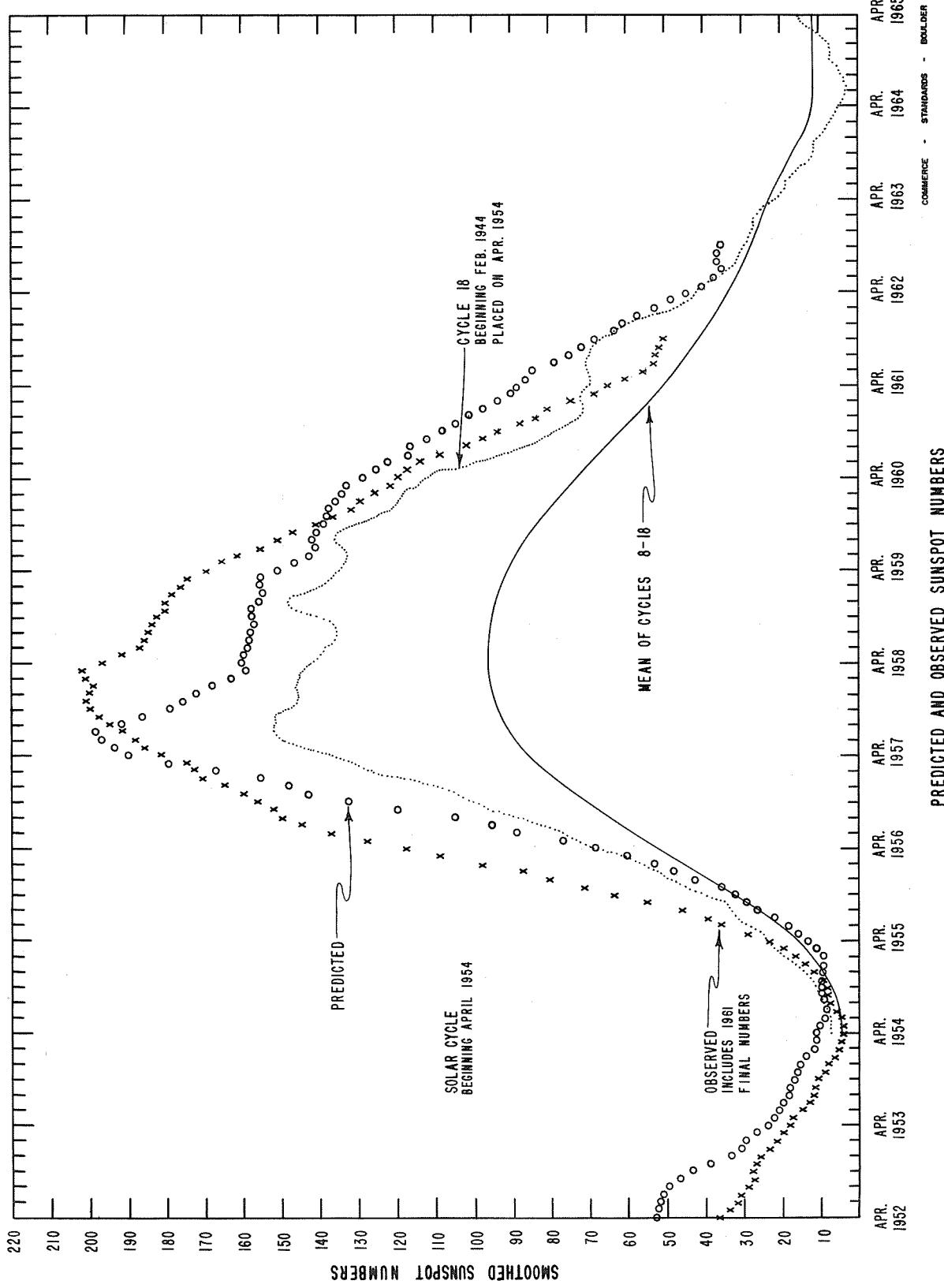


The descriptive text was republished November 1961.
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DAILY SOLAR INDICES

Mar. 1962	American Relative Sunspot Numbers R_A^*
1	80
2	76
3	51
4	21
5	21
6	29
7	21
8	23
9	4
10	0
11	0
12	8
13	15
14	14
15	16
16	24
17	25
18	29
19	56
20	55
21	69
22	68
23	60
24	45
25	49
26	46
27	38
28	27
29	25
30	32
31	26
Mean:	34.0

Apr. 1962	Zürich Provisional Relative Sunspot Numbers R_Z	Daily Values Solar Flux at 2800 Mc, Ottawa, Canada Flux
1	37	88
2	31	83
3	30	80
4	24	78
5	27	76
6	21	78
7	23	77
8	22	77
9	15	78
10	10	81
11	21	88
12	35	93
13	55	102
14	75	110
15	84	111
16	90	119
17	86	114
18	66	110
19	71	109
20	72	109
21	75	112
22	78	113
23	75	108
24	46	105
25	36	101
26	32	100
27	32	100
28	41	96
29	44	93
30	34	91
31		
Mean:	46.3	96.0



CALCIUM PLAGUE AND SUNSPOT REGIONS

APRIL 1962

CMP Apr. 1962	Lat	McMath Plage Number	Return of Region	Calcium Plague Data			Sunspot Data		
				CMP Values Area	Int.	History, Age	CMP Values Area Count		History
02.0	N12	6382	New	(400)	(2.5)	b ↘ l	1		
03.6	S07	6379	6357	1000	3	l — l	2		
03.7	N07	6380	6358	400	1.5	l — l	2		
04.2	S37	6383	*	(200)	(2)	b ↗ d	1		
04.4	N14	6385	New	(900)	(3)	b ↙ l	1	(60)	(2)
06.0	N04	6381	*	400	1	l ↘ d	1		
08.1	S14	6390	New	(100)	(2)	b ↘ l	1		
09.6	N05	6387	*	300	1	b ↗ d	1		
12.0	S12	6384	New	600	2.5	l — l	1		
14.1	N11	6386	6366	2400	3	l — l	2	480	7
14.4	S01	6388	*	1000	1.5	b ↘ l	1		
15.7	N15	6389	6368	600	1.5	l — l	8		
17.8	S07	6391	New	1500	3	l ↘ l	1	20	2
18.0	N25	6392	New	500	2	l — l	1		
19.0	N10	6393	6370	4700	3	l — l	4	480	13
20.0	S10	6394	6369	1200	2.5	l — l	3		
20.7	N08	6395	6373	3900	2.5	l — l	4	70	2
21.0	S10	6396	6369	800	2	l — l	3		
22.1	S14	6397	6369	1500	3	l — l	3	220	3
22.2	N13	6398	6373	3800	3	l — l	4		
23.9	S17	6399	*	200	1	b ↗ d	1		
24.4	N02	6409	*	(200)	(1.5)	b ↘ l	1		
26.1	N02	6400	6377	400	1.5	l — l	2		
27.5	S18	6402	6378	600	1	l ↗ d	2		
27.7	N06	6401	6377	600	1.5	l ↗ d	2		
29.5	N11	6406	New	400	2	b ↘ l	1		
29.7	S15	6410	*	100	1.5	b ↗ d	1		

*New and Ephemeral.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

IIb

APRIL 1962

Apr. 1962	Time Meas.	Lat.	Mer. Dist.	Type		Apr. 1962	Time Meas.	Lat.	Mer. Dist.	Type
1	1935	N16 N07 S06	W29 W17 E21	αp βf βp		15	1725	N10 S08 N07 N10 N10	W18 E25 E36 E47 E70	βγ βp αp βf βp
2	1945	N07 S06	W31 E06	β βp		16	2305	N10 S08 N06 N09 N09	W35 E10 E21 E30 E53	βf αp αp βγ βp
3	1715	N07 S06	W43 W06	βf βp						
4	1925	N07 S07	W57 W22	βp βp		17	1740	N10 S10 N06 N08 N10	W45 E03 E10 E20 E43	βf αf βp γ βp
5	1625	N07 S07	W70 W36	βp αp						
8	1825	N11	W58	β						
9	2245	N11	W73	βp	27	2405	N09	E42	γ	
11	1815	N11	E38	γ	28	1720	N10 N09	E13 E33	αp βγ	
12	1635	N10 S08 N08	E24 E68 E80	γ βf αp	29	1710	N09	E20	βγ	
13	1715	N10 S09 N07 N10	E08 E54 E64 E76	βγ βp βp βf	30	1840	S06 N09 N20	E04 E05 E76	βf βγ βf	
14	2345	N10 S08 N07 N10 N10	W10 E35 E47 E57 E80	γ αp αf βf αp						

FINAL CORONAL LINE EMISSION INDICES

JANUARY 1962

IIc

GMP Jan 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	57	104	42a	120a	21	25	12a	18a	23	29	4	6	36	61	7	11
2	45	72	x	x	11	12	x	x	x	7	4	6	x	20	1	2
3	31	26	19	32	7	4	6	16	10	11	17	28	18	21	24	24
4	15	36	19	30	5	6	19	37	7	11	3	4	19	25	12	30
5	23	20	14	20	10	11	12	8	11	18	8	11	20	20	14	22
6	27	40	14	5	5	x	9	11	11	11	8	11	33	49	10	21
7	x	56	15a	40a	x	9	11	17a	10	28	15	25	57	7	11	10
8	40	84	31a	60a	7	11	22	28a	11	28	18a	18	42	64	24	36a
9	36	31	14	16	11	21	24	11	20	32	12	17	53	106	22a	31
10	29	8a	5	7	1	2	5	5	22	35	7	11	13	61	12	36a
11	6a	x	x	x	x	x	x	x	17	24	6	11	37	60	10	19
12	x	x	x	x	x	x	x	x	15	21	5	11	20	24	4	8
13	x	x	x	x	x	x	x	x	15	21	5	11	29	12	12	17
14	x	x	x	x	x	x	x	x	15	21	5	11	29	x	x	x
15	x	x	x	x	x	x	x	x	15	21	5	11	29	17	x	x
16	x	34	12	20	x	8	11	12	18	22	7	10	15	20	7	10
17	x	118	165	114a	x	12	20	17	5a	10a	10	21	31	62	7	10
18	x	83	8	11	x	11	17	22	11	11	11	14	49	16	24	24
19	x	149	64	53	x	20	11	12	7	11	20	21	31	92	31	54
20	x	70	61	47	x	10	23	34	16	9	12	15	40	40	17	32
21	x	77	70	68	x	10	15	34	64	17	35	25	33	45	13	17
22	x	61	61	66	x	7	17	24	42	19a	6	7	25	38	8	15
23	x	81	81	98	x	4	8	33	39	4	37	6	7	52	29	36
24	x	147	69	2	x	11	17	34	66	6	37	6	12	64	7	27
25	x	138	138	138	x	14	14	14	20	11	50	5	3	64	36	7
26	x	61	61	61	x	19	47	5	50	11	13	15	13	52	32	27
27	x	84	84	50	x	23	48	5	62	x	12	9	29	55	100	x
28	x	38	38	38	x	17	17	17	17	7	33	9	33	53	101	x
29	x	31	31	31	x	12	12	12	17	7	64	9	32	56	12	15
30	x	31	31	31	x	25	25	25	25	76	11	11	19	40	129	16
31	x	31	31	31	x	35	35	35	35	64	11	11	19	51	129	17

x = no observations

a = index computed from low weight data

* = yellow line observed

COMMERCE - STANDARDS - BOULDER

FINAL CORONAL LINE EMISSION INDICES

FEBRUARY 1962

CMP Feb 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 ₁	G ₆	G ₁	R ₁	G ₆	G ₁	R ₁	G ₆	G ₁	R ₁	
1	x	36	64	x	12	14	x	17	21	20	34	34	8
2	36	14	20	49	20	40	4	8	15	25	10	12	7
3	40	40	40	64	18	12	7	8	22	20	18	92	25
4	29	65	65	64	18	12	5	8	13	9	18	55	25
5	21	51	29	70	3	6	25	35	9	x	x	x	x
6	21	31	22a	32a	7	8	27a	37a	11	x	x	x	x
7	8	11	24	25	15	20	16	22	8	x	x	x	x
8	6	8	28	32	3	6	28	37	x	x	x	x	x
9	5	6	12	15	2	4	12	15	x	x	x	x	x
10	16	20	24	32	16	22	18	27	6	8	10	12	24
11	11	14	17	14	12	11	13	16	12	17	13	14	18
12	13	13	37	7	10	12	11	8	9	13	7	18	18
13	26	30	59	11	28	10	11	7	11	12	10	11	20
14	15	15	56	15	27	5	8	14	10	13	15	14	20
15	18	72	113	76	12	21	25	56	10	12	13	x	x
16	18	47	x	x	56	13	22	50	x	x	9	5	7
17	18	47	x	x	56	12	21	50	x	x	10	16	10
18	19	47	x	x	56	13	22	50	x	x	16	28	10
19	20	47	x	x	56	12	21	50	x	x	16	16	10
20	134	215	x	x	56	13	22	50	x	x	16	48	10
21	22	64	x	x	56	13	22	50	x	x	16	32	8
22	55	x	x	x	56	13	22	50	x	x	16	30	10
23	x	x	x	x	56	13	22	50	x	x	16	58	10
24	x	x	x	x	56	13	22	50	x	x	16	67	10
25	41	66	10	21	57	98	31	46	85	115	42	89	33
26	42	57	21	66	70	99	32	71	65	89	22	40	22
27	40	56	19	38	65	98	25	36	33	56	36	76	22
28	30	38	12	18	34	55	13	16	33	37	7	38	10

x = no observations

a = index computed from low weight data

* = yellow line observed

commerce - standards - boulder

FINAL CORONAL LINE EMISSION INDICES

MARCH 1962

He

OMP Mar 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	27	31	17	24	22	35	12	18	19	26	6	10	32	36	6	8
2	8	20	x	35	4	x	x	x	x	x	x	x	x	x	x	x
3	x	x	x	26	x	x	6	18	x	x	x	x	x	x	x	x
4	15	14	26	70	3	2	4	11	20	x	x	x	x	x	x	x
5	6	8	13	x	25	2	5	10	x	9	20	6	10	16	7	13
6	7	5	9	12	x	15	7	8	12	7	11	6	32	8	39	8
7	8	6	12	5	10	5	5	8	9	15	3	20	8	11	29	6
8	9	5	8	x	x	x	x	x	x	30	42	5	16	30	6	31
9	x	x	x	x	x	x	x	x	x	11a	13a	2	12	2	4	25
10	x	x	x	x	x	x	x	x	x	6a	8	3	28a	10	11	37a
11	10a	11a	16a	16a	16a	6a	8	9	x	x	x	x	x	x	x	x
12	11a	17	6	9	x	5	6	7	x	x	x	x	x	x	x	x
13	10	17	x	x	36	6	8	16	19	x	x	x	x	x	x	x
14	32	36	6	10	10	14	20	7	7	9	5	5	38	55	11	15
15	25	35	x	x	x	x	x	x	x	20	26	x	x	x	x	x
16	x	x	x	x	x	x	x	x	x	x	23	x	x	x	x	x
17	x	x	x	x	x	x	x	x	x	x	x	15	x	x	x	x
18	x	x	x	x	x	x	x	x	x	x	x	11	x	x	x	x
19	x	x	x	x	x	x	x	x	x	x	x	5	7	x	x	x
20	x	x	x	x	x	x	x	x	x	x	x	20a	x	x	x	x
21	38	54	x	7	15	x	x	x	x	x	x	x	38	x	x	x
22	22	58	81	19a	36a	40	59	28a	14a	14	30a	6	26a	8	18	60a
23	23	55	25	8	10	19	40	7	10	5	12	14	5	13	x	32
24	24	24	8	5	5	5	12	5	5	49	67	49	20	30	16	27
25	25	x	x	x	x	x	x	x	x	x	x	x	x	77	109	40
26	49	61	x	95a	95a	50	46a	98a	x	x	x	x	x	x	x	x
27	27	49	x	7	5	6	4	5	x	x	x	x	x	x	x	x
28	28	11	67	87	x	29	53	28	40	x	19	42	x	x	x	x
29	29	14	48	57	x	37	x	x	x	x	x	x	x	x	x	x
30	30	57	x	x	x	20	x	x	x	x	x	x	x	x	x	42
31	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

x = no observations

a = index computed from low weight data

* = yellow line observed

COMMERCE - STANDARDS - BOULDER

PROVISIONAL CORONAL LINE EMISSION INDICES

APRIL 1962

CMP Apr 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	18a	31a	7	12	16a	22a	16	22	x	x	x	x	x	x	x	x
2	20	53	8a	11a	11a	22a	12a	18a	18	36	x	x	24	x	x	x
3	x	14	x	22a	5	36a	x	21a	x	x	x	x	x	x	x	x
4	4	7	6	7	5	5	8	3	12	20	5	8	x	x	16	28
5	x	3	11	15	x	x	x	11	7	11	4	8	31	39	18	24
6	7	8	11	25	x	x	3	4	x	16	2	8	21	31	9	57
7	x	9	x	x	x	x	6	6	x	x	x	x	x	x	x	40a
8	10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	20a
9	x	11	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
11	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
14	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
16	11	22	x	x	10	14	38	15	x	15	78	x	x	57	76	10a
17	x	x	12a	57	90	54	87	29	x	29	70	x	x	101	118	20a
18	x	83	193	11a	54	90	13a	18a	x	31	70	x	x	84	109	x
19	x	x	x	x	x	x	x	x	x	x	x	x	x	50	76	x
20	118	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
21	61	98	x	x	x	x	x	x	x	x	x	x	x	x	x	x
22	59	90	x	x	x	x	x	x	x	x	x	x	x	x	x	x
23	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
24	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
25	21	25	12	16	x	x	x	x	x	11	14	18	x	x	x	x
26	13a	22a	13a	18a	13a	20a	15a	18a	x	x	x	x	x	x	x	x
27	25	50	2	4	11	22	8	14	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
29	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
30	x	28	42	13	20	31	11	20	x	x	x	x	x	x	x	x

x = no observations

a = index computed from low weight data * = yellow line observed

SOLAR FLARES
APRIL 1962

OBSERVATORY	DATE APR 1962	OBSERVED TIME		MAX. PHASE	APPROX. LAT.	LOCATION	DURA- TION MINUTES	IN- POR- TANCE	OBS. COND.	TIME UT	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT	
		START	END								MER. DIST.	MEATH PLACE REGION	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. INT. %
LOCKHEED	01	0115	0230	NO FLARE	REPORT					1-	1	1658	.50	.50	G-SWF
SAC PEAK	01	0300	0315	NO FLARE	REPORT	N15 W25				1-	3	1737	1.22	1.20	20
LOCKHEED	01	1654	1710	1658	REPORT	S09 E20				1-	1	1737	.80	.80	10
SAC PEAK	01	1729	1747	1738	REPORT	S08 E21				1-	3	1737	.89	.87	16
LOCKHEED	01	1732	1747	1737	REPORT	S09 E19				1-	2	2208	.20	1.00	10
SAC PEAK	01	1917	1925	1920	REPORT	N06 W90									
LOCKHEED	01	2202	2216	2208	REPORT										
SAC PEAK	02	0115	0200	NO FLARE	REPORT										
HONOLULU	02	0630	0645	NO FLARE	REPORT										
SAC PEAK	02	1030	1115	NO FLARE	REPORT										
HONOLULU	02	1130	1230	NO FLARE	REPORT										
SAC PEAK	02	2352	0008	0000	REPORT	N10 W30				1-	3	0000	.41	.42	18
WENDEL	03	0200	0530	NO FLARE	REPORT	N08 W31				1-	2	0000	.12	.14	
MCMATH	03	1004	E	1009	D	REPORT									
HONOLULU	04	0100	E	0150	D	0140									
HONOLULU	04	0200	E	0245	D	NO FLARE	REPORT								
HONOLULU	04	0300	E	0800	D	NO FLARE	REPORT								
HONOLULU	04	0815	E	0900	D	NO FLARE	REPORT								
HONOLULU	04	1200	E	1445	D	NO FLARE	REPORT								
HONOLULU	04	1645	E	1730	D	NO FLARE	REPORT								
HONOLULU	04	1840	E	1946	D	NO FLARE	REPORT								
LOCKHEED	05	0200	E	1315	NO FLARE	REPORT									
LOCKHEED	05	1345	E	1400	NO FLARE	REPORT									
LOCKHEED	05	2148	E	2159	NO FLARE	REPORT									
CAPRI S ARCTRI	06	0200	E	0315	NO FLARE	REPORT									
CAPRI S ARCTRI	06	0853	E	0917	NO FLARE	REPORT									
CAPRI S ARCTRI	06	0900	E	1300	NO FLARE	REPORT									
CAPRI S ARCTRI	06	1530	E	1545	NO FLARE	REPORT									
LOCKHEED	06	1832	E	1840	NO FLARE	REPORT									
HONOLULU	06	2130	E	2150	NO FLARE	REPORT									
LOCKHEED	06	2210	E	2223	NO FLARE	REPORT									
LOCKHEED	06	2225	E	2304	NO FLARE	REPORT									
HONOLULU	06	2230	E	0020	D	2240									
LOCKHEED	07	0130	E	0400	NO FLARE	REPORT									
MCMATH	07	1955	E	1505	NO FLARE	REPORT									
MCMATH	07	1542	E	1617	D	1548	NO9 W42	6385	1-	2	1410	.30	.50		
MCMATH	07	1819	E	1906	D	1822	NO9 W42	6385	1-	1	1548	.40	.60		
MCMATH	07	1933	E	2025	D	1950	NO9 W43	6385	47	1+	2	1822	.30	.50	
MCMATH	07	2050	E	2147	D	2000	NO10 W44	6385	1-	2	2000	.80	1.50		
MCMATH	08	0000	E	0015	NO FLARE	REPORT									

SOLAR FLARES

APRIL 1962

OBSERVATORY	DATE APR 1962	OBSERVED UNIVERSAL TIME			MAX. PHASE	DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	TIME U T	MEASUREMENTS			PROVISIONAL IONOSPHERIC EFFECT	
		START	END	APPROX. LAT.						PAGE	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hr	
WENDEL	08	0030	0045	No Flare	Report									
	08	0200	0245	No Flare	Report									
	08	0345	0400	No Flare	Report									
	08	0600	0615	No Flare	Report									
	08	0953 E	1006 D	N11 W48										
	09	0230	0245	No Flare	Report									
	09	0300	0345	No Flare	Report									
	09	0430	0500	No Flare	Report									
	09	0545	0600	No Flare	Report									
	09	0730	0830	No Flare	Report									
ONDREJOV	09	0845	0915	No Flare	Report									
	09	0930	0945	No Flare	Report									
	09	1000	1045	No Flare	Report									
	10	0345	0415	No Flare	Report									
	10	0705	0732	No Flare	Report									
	10	0845	0900	No Flare	Report									
	10	0915	0930	No Flare	Report									
	10	1000	1030	No Flare	Report									
	11	0230	0245	No Flare	Report									
	11	0515	0530	No Flare	Report									
WENDEL	12	0000	0015	No Flare	Report									
	12	0045	0100	No Flare	Report									
	12	0115	0130	No Flare	Report									
	12	0215	0230	No Flare	Report									
	12	0445	0530	No Flare	Report									
	12	0645 E	0705 D	N10 E27	6386	20	D	1-						
	12	0851 E	0901 D	N09 E31										
	12	0853 E	0905 D	N08 E67	6393	12	D	1-						
	12	0853 E	0905 D	N08 E75	6393	12	D	1-						
	12	1129 E	1152	N09 E27										
CAPRI S	12	1137 E	1143 D	N10 E24	6386	6	D	1-						
	12	1426	1436	N06 E90	6393	1-								
	12	1426	1439	N07 E90	6393	1-								
	12	1627	1637	N25 E64										
	12	1740 E	1751 D	N11 E21	6386	1-								
	12	2149	2244	N11 E19	6386	55	1-							
	12	2152	2230 D	N12 E19										
	13	0145	0200	No Flare	Report									
	13	0315	0400	No Flare	Report									
	13	0415	0430	No Flare	Report									
CAPRI S	13	0600	0615	No Flare	Report									
	13	0630	0645	No Flare	Report									
	13	0815	0845	No Flare	Report									
	13	1045	1100	No Flare	Report									
	13	2117	2130	N13 E10	6393	17	D	2	1	0853	2.50	10.00	.58	15
														Slow S-SWF
														COMMERCE - STANDARD - COLDSPUR

SOLAR FLARES

APRIL 1962

OBSERVATORY	DATE APR 1962	OBSERVED UNIVERSAL TIME		APPROX. LAT. PHASE	LOCATION	DURA- TION MINUTES	IM- POR- TANCE	MEASUREMENTS				PROVISIONAL IONOSPHERIC EFFECT
		START	END					MAX.	MER. DIST.	MATH. PLATE REGION	TIME — UT	
SAC PEAK	13	2253	2320	2302	N10 E04	1-	1-	2	2257	1.55	1.55	1.7
HONOLULU	13	2254	2306	2257	N10 E05	1-	1-	1	2259	.50	.50	2.0
LOCKHEED	13	2257	E	2310	2259	N12 E04	1-	3		.62	.83	16
SAC PEAK	13	2302	2320	2310	N15 E52	1-	1	1	2320	.30	.40	10
LOCKHEED	13	2306	E	2340	N18 E53	1-						
	14	0145		0215	NO FLARE	REPORT						
KODAIKNL	14	0230		0245	NO FLARE	REPORT						
KODAIKNL	14	0304	E	0307	D	0307	N06 E65	1-	1	0304	.50	1.44
	14	0317	E				N10 E03	1-				
	14	0330		0345	NO FLARE	REPORT						
	14	0400		1030	NO FLARE	REPORT						
	14	1130		1300	NO FLARE	REPORT						
SALTJOBADN	14	1219	E	1230	D	1219	N11 W07	1-	3	1219	1.00	
MCMATH	14	1300	E	1320	D	1302	N10 W04	6386	1-	3	1302	1.20
MCMATH	14	1300	E	1320	D	1307	N10 W04		1-			
LOCKHEED	14	1614		1626	1617	N10 E61	1-	1	1617	.40	.60	1.0
LOCKHEED	14	1738		1749	1742	N10 E61	1-	1	1742	.30	.50	2.0
LOCKHEED	14	1910	E	2005	1924	N07 E80	55 D	1-	1	1924	.40	4.10
SAC PEAK	14	1914		1950	1921	N08 E90	1-	2		8.89		22
HONOLULU	14	1918	E	1938	D	1922	N07 E85	6395	20 D	2	1922	1.86
MCMATH	14	1955	E	1958	D	1956	N09 E90	6395	1-	2	1956	5.56
SAC PEAK	14	1955	E	2013	1956	N08 E90	1-	1	2			23
LOCKHEED	14	2352		0007	0000	N11 E55	1-	1	0000	.40	.60	10
	15	0025		0041	0030	NO FLARE	N16 E39	1-	1	0030	.20	.20
KODAIKNL	15	0533	E	0548	D	0533	N05 E50	6393	15 D	1	0533	1.56
WENDEL	15	0540	E	0615	D		N07 E53	6393	35 D	1+		6.00
WENDEL	15	0630	E	0643	D		N07 E50					
LOCKHEED	15	1108	E	1120	D	1120	N08 W10	1-	1	1633	.30	
WENDEL	15	1630		1641	1633	N12 W15	1-	1	1720	.70		10
LOCKHEED	15	1715		1731	1720	N10 W19	1-	1		1.16		19
SAC PEAK	15	1719	E	1727	1721	N08 W19	1-	3	1740	.80	1.00	10
LOCKHEED	15	1733		1802	1740	N09 E46	1-	1	1745	.70	.90	20
LOCKHEED	15	1835		1854	1845	N09 E46	1-	1	1844	1.65	1.98	
HONOLULU	15	1838		1850	1844	N08 E47	1-	3				
SAC PEAK	15	1839		1845	1841	N08 E47	1-	3				
SAC PEAK	15	1929		2007	1951	N09 W22	6386	38	1-	3		
HONOLULU	15	1932	E	1938	1932	N07 W21	1-	1	1938	1.55	1.55	24
HONOLULU	15	1942		1956	D	1950	N07 W21		1-	1950	1.34	
LOCKHEED	15	1930		2011	1951	N10 E21	1-	1	1951	.70		
SAC PEAK	15	2051		2058	2053	N11 W22	1-	3				
HONOLULU	15	2052	E	2056	2052	N07 W22	1-	2	2052	1.65	1.65	20
SAC PEAK	15	2153		2158	2155	N10 W22	1-	3				
HONOLULU	15	2156	E	2200	2156	N06 W21	1-	2	2156	1.24	1.24	22
SAC PEAK	15	2241		2252	2245	N10 W23	6386	11	3			
HONOLULU	15	2244	E	2250	2244	N07 W22	1-	2	2244	1.45	1.45	
SAC PEAK	15	2329		2343	D	2341 U	N11 W24	1-	3			
	16	0130		0145	NO FLARE	REPORT						

SOLAR FLARES

APRIL 1962

OBSERVATORY	DATE APR 1962	OBSERVED UNIVERSAL TIME			MAX. PHASE	LOCATION APPROX.	DURA- TION MINUTES	IM- POR- TANCE			MEASUREMENTS			PROVISONAL IONOSPHERIC EFFECT	
		START	END	LAT.				MER. DIST.	PLAGE REGION		TIME	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		
										UT	0237	0318	0.50	.56	
KODAK KNL	16	0235	E	0240	D	0318	N08	W24	16 D	1-	2	0.25	.28	114	
KODAK KNL	16	0318	E	0320	D	0318	N08	W24	N04 E61	1-	3	0912	.90	3.00	
WENDEL	16	0906	E	0922	D	0923	N05	E63	16 D	1-	3	1009	1.00	2.00	
CAPRI S	16	0952	E	1010	D	1005	N07	E36	N10 W28	28 D	1-	1010	3.00	1.30	
SALTSJOBADN	16	1005	D	1033	D	1010	N10	W28	6386	28 D	1-	1025	3.00	3.40	
CAPRI S	16	1010	D	1028	D	1020	N08	E31	6393	16 D	1-	1020	1.50	1.80	
SALTSJOBADN	16	1012	D	1028	D	1020	N08	W23	6386	22 D	1-	1020	1.50	1.80	
WENDEL	16	1128	E	1150	D	1152	N08	W25	6386	18 D	1-	1136	3.50	4.00	
CAPRI S	16	1134	E	1149	D	1140	N10	W29	N10 W27	6386	1-	1140	1.00	1.20	
SALTSJOBADN	16	1135	D	1330	D	1313	N10	W27	6386	28 D	1-	1313	.40	.50	
MCMATH	16	1305	D	1330	D	1337	N08	W25	6386	5 D	1-	2	4.00		
WENDEL	16	1309	E	1337	D	1316	D	W26	6386	1-	3				
ONDREJOV	16	1311	D	1330	D	1313	N11	W27	N11 W27	1-	3				
SAC PEAK	16	1350	E	1727	D	1731	N10	W32	N10 W32	1-	3				
SAC PEAK	16	1812	E	1820	D	1816	N08	E30	N08 E29	1-	3				
SAC PEAK	16	2145	E	2153	D	2147	N09	E29	6393	1-	2	2147	.50	.60	
MCMATH	16	2146	D	2154	D	2148	U	N08 E31	NO FLARE REPORT	1-	2				
SAC PEAK	16	2315	D	2400	D	NO FLARE REPORT									
	17	0000		0015		NO FLARE REPORT									
	17	0045		0100		NO FLARE REPORT									
	17	0130		0145		NO FLARE REPORT									
KODAK KNL	17	0516	E	0522	D	0516	N09	W41	N10 W46	6386	29	1	3	2.45	
	17	0830	D	0845	D	NO FLARE REPORT									
SAC PEAK	17	1444	E	1513	D	1446	N10	W46	N03 E11	1-	3	1.24	3.03	2.5	
SAC PEAK	17	1521	D	1529	D	1525	N12	E14	N12 E14	1-	2	2247	.20	1.22	
LOCKHEED	17	2243	D	2251	D	2247	N09	W49	N13 W49	1-	1	2256	1.00	.20	
LOCKHEED	17	2252	D	2313	D	2256	N13	W49	N07 E13	1-	1	0.15	.40	1.0	
LOCKHEED	18	0109	D	0126	D	0115	NO FLARE REPORT								
	18	0130	D	0145	D	NO FLARE REPORT									
	18	0415	D	0715	D	NO FLARE REPORT									
	18	0745	D	0900	D	NO FLARE REPORT									
	18	0915	D	1030	D	NO FLARE REPORT									
	18	1045	D	1230	D	NO FLARE REPORT									
SAC PEAK	18	1734	E	2129	D	1804	N09	E03	6393	235	3	3	22.09	21.70	
LOCKHEED	18	1740	D	1815	D	1757	N11	E08	6393	35	1	1757	2.00	2.00	
LOCKHEED	18	1813	E	2013	D	1845	N08	E04	6393	120 D	2	1834	8.00	8.00	
LOCKHEED	18	1923	E	2027	D	1936	N12	E06	6393	64 D	1	1926	4.90	4.90	
LOCKHEED	18	2024	D	2056	D	2037	N12	W58	N12 W58	1-	1	2037	.40	.60	
SAC PEAK	18	2035	D	2054	D	2038	N10	W59	N12 W57	1-	1				
HONOLULU	18	2146	D	2200	D	2150	N12	W57	N12 W58	1-	1	2150	.62	.86	
LOCKHEED	18	2147	D	2158	D	2150	N12	W58	N12 W58	1-	1	2150	.30	.40	
LOCKHEED	18	2209	D	2222	D	2211	N06	W05	N06 W05	1-	1	2211	.40	.40	
	19	0130	D	0215	D	NO FLARE REPORT	N08	W08	N10 W02	N10 W03	1-	1			
WENDEL	19	0716	E	0731	D	0906	E	0906	D						
WENDEL	19	0748	E	0803	D										
WENDEL	19	0856	E	1056	D										

SOLAR FLARES

APRIL 1962

OBSERVATORY	DATE APR 1962	OBSERVED UNIVERSAL TIME		APPROX. LAT.	MAX. PHASE	LOCATION	DURAT. MINUTES	IM. POR-TANCE -	OBS. COND.	TIME U.T.	MEASUREMENTS			MAX. WIDTH H _e	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
		START	END								MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	3.00			
WENDEL	19	0906	E	0934	D	N09 W08	6393	28	D	1	2	0925	6.00	1.70		
ONDREJOV	19	0925	E	0932	D	N07 E21	6395	36	D	1+	3	0934	.58	.66		
WENDEL	19	0929	E	1005	D	N07 E20	6395	19	D	1+	1					
ONDREJOV	19	0932	E	0951	D	N07 E20	6395	19	D	1-						
KODAIKNL	19	0945	E	0952	D	N07 E25	6393	19	D	1-						
WENDEL	19	1139	E	1158	D	N11 W04	6393	19	D	1-	2	1330	.70	.70		
WENDEL	19	1256	E	1315	D	N08 E19	6395	33	D	1+						
MCMATH	19	1315	E	1408	D	N09 E19	6395	33	D	1+						
WENDEL	19	1321	E	1354	D	N11 W05	6395	33	D	1+						
WENDEL	19	1508	E	1516	D	N07 W08	6395	1-	D	1-						
WENDEL	19	1556	E	1604	D	N07 W10	6395	1-	D	1-						
SAC PEAK	19	1556	E	1606	D	N08 W10	6395	1-	D	1-						
SAC PEAK	19	1734	E	1818	D	N08 W11	6395	1-	D	1-						
HONOLULU	19	1752	E	1802	D	N08 W11	6395	56	D	1-	3	1752	.82	.82		
SAC PEAK	19	1935	E	2031	D	N08 W11	6393	34	D	1-	3	13.28	13.10	33	S-SWF	
HONOLULU	19	1936	E	2010	D	N07 W09	6393	34	D	1-	2	1940	2.90	2.90		
MCMATH	19	1944	E	2030	D	N08 W10	6393	46	D	1-	2	1944	5.00	5.20		
SAC PEAK	19	1942	E	2000	D	N07 E14	6395	18	D	2	3	12.25	12.07	29		
LOCKHEED	19	2035	E	2053	D	S09 W13	6393	11	D	1-	1	2038	1.20	1.20		
SAC PEAK	19	2036	E	2042	D	S09 W02	6393	11	D	1-	1	2037	.30	.30		
MCMATH	19	2037	E	2041	D	S09 W03	6393	1-	D	1-	1	2105	.30	.30		
LOCKHEED	19	2056	E	2118	D	S13 E33	6393	1-	D	1-	2	2342	1.60	1.60		
HONOLULU	19	2342	E	2350	D	S07 E13	6393	1-	D	1-	1	2345	1.90	1.90		
LOCKHEED	19	2343	E	0007	D	S09 E12	6393	1-	D	1-	1	3.32	3.26	19		
LOCKHEED	20	0122	E	0130	D	S12 E30	6393	6	D	1-	1	2037	.30	.30		
HONOLULU	20	0128	E	0134	D	S09 W30	6393	6	D	1-	1	2105	.30	.30		
KODAIKNL	20	0233	E	0240	D	S0234	6393	6	D	1-	2	2342	1.60	1.60		
KODAIKNL	20	0316	E	0328	D	S0316	6393	92	D	1+	2	2345	1.90	1.90		
WENDEL	20	0618	E	0750	D	S12 W17	6393	22	D	1+	3	0730	7.00	2.70		
ONDREJOV	20	0719	E	0741	D	S0730	6393	14	D	1-	1	2105	.30	.30		
WENDEL	20	0731	E	0744	D	S07 W15	6393	6	D	1-	2	2345	1.60	1.60		
ONDREJOV	20	0849	E	0900	D	S10 W21	6393	6	D	1-	2	2345	.58	.58		
WENDEL	20	0914	E	0928	D	S07 W17	6393	1-	D	1-	2	2345	.58	.58		
WENDEL	20	1023	E	1037	D	S10 W18	6393	14	D	1-	3	0730	7.00	2.70		
WENDEL	20	1031	E	1053	D	S07 W18	6393	22	D	1+	3					
KODAIKNL	20	1119	E	1134	D	S1035	6393	1-	D	1-	2	0124	.50	.50		
WENDEL	20	1127	E	1139	D	S07 W20	6393	6	D	1-	2	0128	2.60	2.60		
MCMATH	20	1242	E	1310	D	S1332	6393	28	D	1-	2	0234	.58	.58		
MCMATH	20	1314	E	1432	D	S1417	6393	78	D	1+	2	0234	.58	.58		
MCMATH	20	1314	E	1432	D	S1417	6393	22	D	1+	3	0730	7.00	2.70		
CAPRI S	20	1322	E	1430	D	S1134	6393	1-	D	1-	2	1242	2.90	3.20		
ONDREJOV	20	1327	E	1344	D	S1134	6393	17	D	1-	2	1332	1.30	1.40		
SAC PEAK	20	1341	E	1435	U	S1355	6393	48	D	1+	2	1334	1.65	1.65		
WENDEL	20	1400	E	1448	D	S1656	6393	48	D	1+	2	1334	7.00	2.70		
WENDEL	20	1848	E	1857	D	S15 W31	6393	1-	D	1-	3	1852	.62	.62		
HONOLULU	20	1920	E	1934	D	S1922	6393	40	D	1-	2	1922	.30	.30		
MCMATH	20	1958	E	2038	D	S2002	6393	42	D	1-	2	2002	5.50	5.70		
LOCKHEED	20	1958	E	2040	D	S2002	6393	42	D	2+	2	2002	9.50	9.50		

COMMERCIAL - STANDARDS - SOLAR

S-SWF

SOLAR FLARES
 APRIL 1962

OBSERVATORY	DATE APR 1962	OBSERVED UNIVERSAL TIME		MAX. PHASE	LOCATION	IM- POR- TANCE	DURA- TION MINUTES	OBS. COND.	TIME UT	MEAS. AREA	CORR. AREA	MAX. WIDTH He	MAX. INT. %	PROVISIONAL IONOSPHERIC EFFECT
		START	END											
LOCKHEED	22	1810	1830	1818	N15 W56	6393	20	1	2	1818	1°50	2°20	10	
SAC PEAK	22	1811	1824	1815	N13 W56			1-	3		1°26	1°75	19	
SAC PEAK	22	1919	1925	1922	N06 W49			1-	3		°41	°52	19	
LOCKHEED	22	1940	1946	1943	N00 W03			1-	2	1943	°10	°10	10	
LOCKHEED	22	2044	2055	2048	N08 W49			1-	2	2048	°40	°50	10	
LOCKHEED	22	2259	2315	2307	N08 W50			1-	2	2307	°50	°50	10	
LOCKHEED	22	2359	0008	0003	S05 E05			1-	2	0003	°20	°20	10	
WENDEL	23	1336	E	1346	D									
WENDEL	23	1349	E	1402	D									
WENDEL	23	1357	E	1407	D									
WENDEL	23	1430	E	1443	D									
WENDEL	23	1453	E	1516	D									
SAC PEAK	23	1517		1527		1519								
WENDEL	23	1520	E	1528	D									
SAC PEAK	23	1556		1603		1559								
MCMATH	23	1620	E	1750										
SAC PEAK	23	1647	E	1709	U	1647								
WENDEL	23	1655	E	1704	D									
HONOLULU	23	1854	E	1930		1908								
LOCKHEED	23	1920		1932		1924								
LOCKHEED	23	1944		2012		1950								
SAC PEAK	23	1944		2017		1937								
HONOLULU	23	1944		2028		1946								
MCMATH	23	1946		2007		1949								
MCMATH	23	2133		2150		2135								
LOCKHEED	23	2257	E	2314		2303								
	24	0145		0230		NO FLARE	REPORT							
	24	0245		0330		NO FLARE	REPORT							
ONDREJOV	24	0715		0745										
WENDEL	24	0723		0813										
CAPRI S	24	0724	E	0747	D									
MCMATH	24	1209		1220		1215								
WENDEL	24	1212		1250										
WENDEL	24	1217	E	1234	D									
MCMATH	24	1338		1350										
ONDREJOV	24	1520	E	1532	D									
MCMATH	24	2023	E	2132	D	2028								
SAC PEAK	24	2230		2246		2233								
LOCKHEED	24	2230		2400		2338								
LOCKHEED	24	2243		2302		2250								
MCMATH	24	2248		2300	D	2250								
	25	0045		0200		NO FLARE	REPORT							
ONDREJOV	25	0602		0638										
WENDEL	25	0834	E	0848	D									
WENDEL	25	0916	E	0947	D									
MCMATH	25	1047	E	1124	D									
MCMATH	25	1245		1257		1250								
MCMATH	25	1530		1543		1536								

SOLAR FLARES
APRIL 1962

OBSERVATORY	DATE APR	OBSERVED UNIVERSAL TIME			APPROX. MER. DIST.	LOCATION	DURH. MINUTES	IM- POR- TANCE	MEASUREMENTS				PROVISONAL IONOSPHERIC EFFECT
		START	END	MAX. PHASE					MEAS. AREA Sq. Deg.	CORR. Sq. Deg.	MAX. WIDTH Hz	MAX. INT. %	
MCMATH	25	1818	1825	1821	N09 W90	6393	1-	2	1821 UT 2104 2141	*30 *20 *20	50 50 50		
MCMATH	25	2058	2125	2141	N13 E67	6403	1-	2					
MCMATH	25	2136	2150	2400	NO FLARE	REPORT	23 D	1-					
WENDEL	26	0000	0145	NO FLARE	N05 E65	6403	23 D	1-					
WENDEL	26	0532	E 0538	D	N07 E70	6403	23 D	1-					
KODAKNL	26	0715	0738	D	N07 E75	6403	23 D	1-					
WENDEL	26	1008	E 1013	D	N06 E66	6403	26 D	1+					
ONDREJOV	26	1008	E 1015	D	N10 E65	6403	28						
ONDREJOV	26	1205	E 1231	D	N08 E62	6403	26 D	1+					
MCMATH	26	1205	E 1233	D	N05 E64	6403	28						
HONOLULU	26	1828	1840	1838	N08 E61	6403	1-	1	1838	*41	4000	1.60	3.50
MCMATH	26	1830	1844	1834	N10 E62	6403	1-	2	1834	*30	66		
MCMATH	26	1846	1852	1847	S16 W68	6396	1-	2	1847	*20	70		
	27	0145	0200	NO FLARE	REPORT								
	27	0545	0600	NO FLARE	REPORT								
	27	1030	1200	NO FLARE	REPORT								
MCMATH	27	1350	1440	1413	N08 E48	6403	50	2	1413	*20	9000		
MCMATH	27	1647	E 1648	D	N13 E61	6405	50	1-	1	1648	*20	40	
SAC PEAK	27	2246	E 2247	D	N11 E57	6403	50	1-	2	1648	*76	109	
LOCKHEED	27	2300	E 2315	D	N12 E46	6403	50	1-	1	2305	*40	50	
SAC PEAK	27	2306	E 2310	D	N08 E45	6403	4	1	2	2305	*23	66	
	28	0045	0200	NO FLARE	REPORT								
	28	0245	0330	NO FLARE	REPORT								
	28	0630	0645	NO FLARE	REPORT								
	28	0715	0800	NO FLARE	REPORT								
	28	1000	1130	NO FLARE	REPORT								
	28	2023	2041	2029	N04 E29	6403	18	1	1	2032	*82	3.30	
SAC PEAK	28	2032	E 2040	D	N02 E28	6403	1-	1	1	2038	*30	85	
HONOLULU	28	2035	E 2038	D	N03 E29	6403	1-	1	1	2038	*30	85	
HONOLULU	29	0034	0148	D 0058	N09 E38	6403	18	1	1	2032	*82	3.30	
HONOLULU	29	0230	0245	NO FLARE	REPORT								
HONOLULU	29	0330	0400	NO FLARE	REPORT								
HONOLULU	29	0415	0430	NO FLARE	REPORT								
HONOLULU	29	0445	0500	NO FLARE	REPORT								
HONOLULU	29	0515	0700	NO FLARE	REPORT								
HONOLULU	29	0730	0815	NO FLARE	REPORT								
HONOLULU	29	0830	0930	NO FLARE	REPORT								
HONOLULU	29	1030	1215	NO FLARE	REPORT								
HONOLULU	29	1704	1732	D	N13 E32	6403	1-	1	1	1707	*20	20	
HONOLULU	29	1801	1803	1803	N03 E16	6403	1-	1	1	1707	*93	93	
MCMATH	30	0700	0715	NO FLARE	REPORT								
MCMATH	30	1115	1200	NO FLARE	REPORT								
MCMATH	30	1202	E 1240	D	N12 E21	6403	38 D	1	3	1214	*80	2.00	
MCMATH	30	1259	E 1328	D	N11 E22	6403	29	1	3	1214	*31	35	
SAC PEAK	30												

SOLAR FLARES

APRIL 1962

OBSERVATORY	DATE APR 1962	OBSERVED UNIVERSAL TIME		LOCATION APPROX. LAT. MAY. PHASE	DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS			PROVISONAL IONOSPHERIC EFFECT
		START	END					MEAS. AREA Sq. Deg.	MAX. WIDTH Ra	MAX. INT. %	
→ MCMAUTH SAC PEAK	30 30	1301 2209	1340 D 2230	N12 E21 N11 E16	1306 2211	6403	1-	2	1306 1.69	1.40 1.71	16

COMMERCIAL - STANDARDS - BOULDER

Errata:
 Flares reported by Sacramento Peak for July 20, 1961 at 1633E-1726 and 1832E-1924U should be importance 2 instead of 3+.
 These were published in CRPL-F 204B, August 1961 page 111e.

ATHENES	ATHENS, GREECE	HONOLULU	HAWAII, USA	NERA	NEDERHORST den BERGH, NETHERLANDS
BAKOU	PIRGULL, USSR	IKONASAN	KYOTO, JAPAN	NIZMIR	KRASNAYA PAKHA, USSR
CAPETOWN	ROYAL OBSERVATORY,	KIEV KO	KIEV, USSR	SAC PEAK	SACRAMENTO PEAK, N.MEX. USA
	CAPE OF GOOD HOPE	KIEV KY	KIEV, USSR	SALTSJÖBÄDEN	STOCKHOLM, SWEDEN
CAPRI F	CAPRI, ITALY (GERMAN)	LOCKHEED	LOS ANGELES, CALIF., USA	SCHAUTINS	SCHAUTINS LAND, GFR
CAPRI S	CAPRI, ITALY (SWEDISH)	MCMAUTH	MCNAUL-HUBERT	TACHKENT	TASHKENT, USSR
CRIMEE	SIMEIZ, USSR	PONTIAC	PONTIAC, MICH., USA	WENDEL	WENDELSTEIN, GFR
HERSTMONCEUX	ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX, ENGLAND	MOSCOW	MOSCOW-GAISCH, USSR		

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.

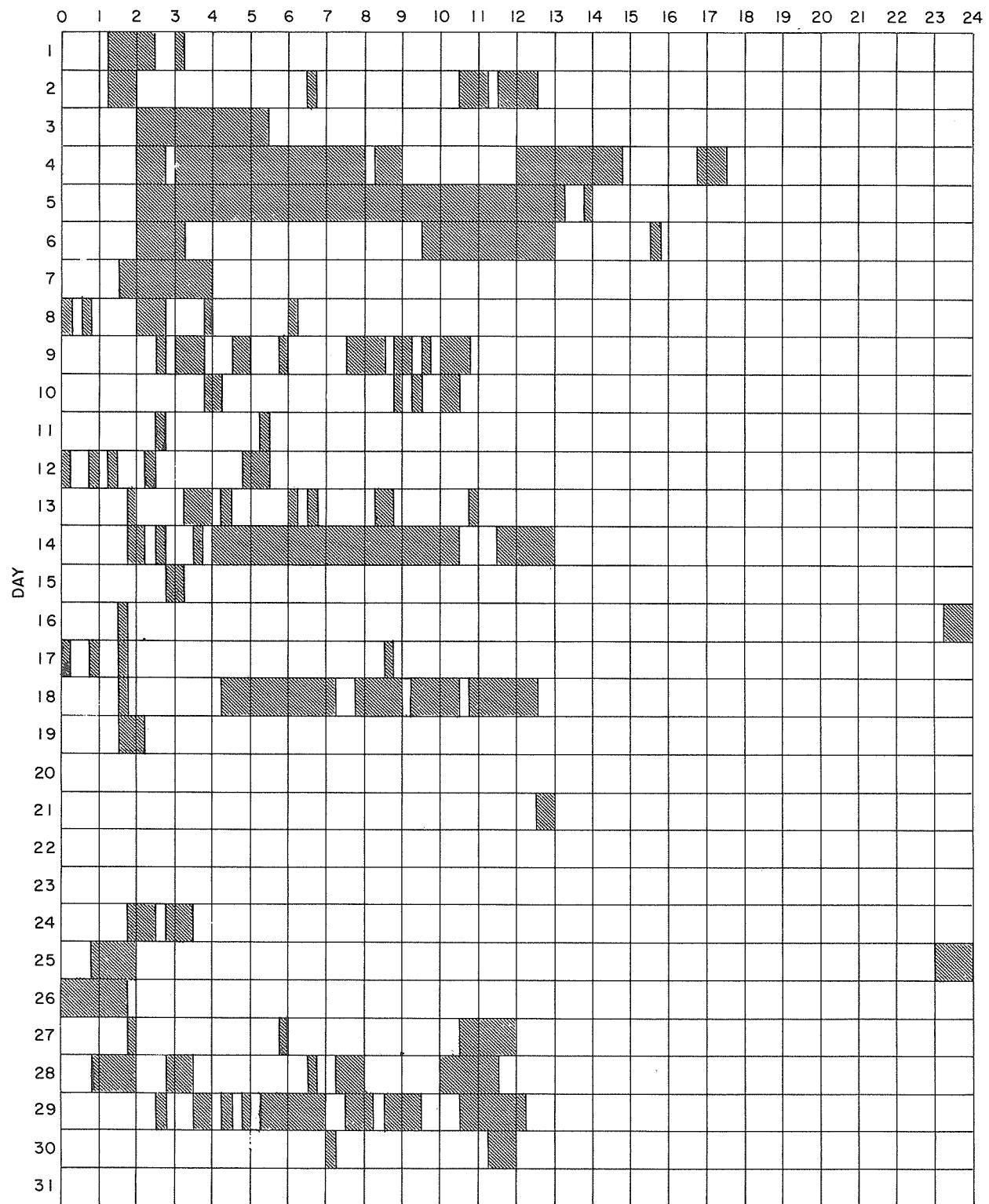
E = LESS THAN D = GREATER THAN U = APPROXIMATE = NOT REPORTED.

INTERVALS OF NO FLARE PATROL OBSERVATIONS

IIIj

APRIL 1962

HOUR-UT



COMMERCE - STANDARDS - BOULDER

Stations Include:

Arcetri
Capri (Swedish)
Honolulu

Kodaikanal
Lockheed
McMath-Hulbert

Ondrejov
Sacramento Peak
Wendelstein

SOLAR FLARES

JANUARY 1962

OBSERVATORY	DATE JAN 1962	OBSERVED UNIVERSAL TIME			APPROX. LAT. MER. DIST.	LOCATION MEATH PLACE REGION	DURA- TION MINUTES	IM- POR- TANCE	OBS. COND.	MEASUREMENTS			MAX. INT. %
		START	END	MAX. PHASE						MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	
CAPETOWN	02	0030	0145	NO FLARE	REPORT	N12 W71	6302	13	1-	0916	.60	1.80	
CAPETOWN	02	0904	0930	0916	REPORT	N12 W71	6302	13	1-	1057	.70	2.10	
CAPETOWN	02	1055	1108	1057	NO FLARE	N12 W71	6302	13	1-				
CAPETOWN	02	1315	1515	NO FLARE	REPORT	N12 W71	6302	13	1-				
MITAKA	03	0342	E	0355	NO FLARE	REPORT	N18 W85	6303	13	D	1	0345	3.93
MITAKA	04	1500	1515	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	06	1530	1615	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	06	1930	1945	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	07	0545	0615	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	07	1045	1100	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	08	0130	0145	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	09	0145	0200	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	10	0045	0130	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	10	0545	0600	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	12	1315	1345	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	12	1400	1515	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	12	2245	2345	NO FLARE	REPORT	N18 W85	6303	13	D	1			
MITAKA	13	1330	1500	NO FLARE	REPORT	N04 W66	6310	41	1	1		2.356	.98
MITAKA	13	2333	0014	0001	NO FLARE	N16 E78	6319	19	D	1+	2		
BAKOU	14	0637	E	0656	0647	N16 E78	6319	19	D	1+	2		
BAKOU	14	1100	1115	NO FLARE	REPORT	N16 E78	6319	19	D	1+	2		
BAKOU	14	1430	1500	NO FLARE	REPORT	N16 E78	6319	19	D	1+	2		
NIZAMIAH	16	0340	E	0504	D	N13 W79	6312	84	D	1	2	0349	3.04
CAPETOWN	16	0633	E	0639	D	N12 W87	6312	6	D	1-	3	0633	1.20
ARCETRI	16	0810	E			N01 W80							
CAPETOWN	16	0829		0843		N12 W87							
CAPETOWN	16	0928		0930		N16 E38							
BAKOU	16	0937	E	0950	0940	N15 E35	6319	30	D	1	3	0832	.30
BAKOU	16	1000	E	1007	1003	N16 E36	6319	13	D	1	3	0930	2.60
CLIMAX	16	1554		1607	1558	N20 E23	6319	7	D	1-	3	0940	3.98
CLIMAX	16	2315		2330	NO FLARE	REPORT	N20 E23	7	D	1-	3	1003	1.41
TACHKENT	18	0115		0230	NO FLARE	REPORT	N18 E86						
TACHKENT	18	0245		0430	NO FLARE	REPORT	N18 E86						
TACHKENT	18	0501	E	0800	D	0706							
TACHKENT	18	1200		1215	NO FLARE	REPORT	N18 E86						

SOLAR FLARES

JANUARY 1962

OBSERVATORI	DATE JAN 1962	OBSERVED UNIVERSAL TIME			LOCATION		IM- MAG- NITUDE MINUTES	DURA- TION MINUTES	OBS. COND.	MEASUREMENTS			PROVISONAL IONOSPHERIC EFFECT	
		START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.				MEAS. AREA Sq. Deg.	MAX. WIDTH H _a	MAX. INT. %		
VOROSHILOV ALMA ATA	19 19	0146 0755	0201 0835	0152 0803	N07 N07	E70 E68	6324	40	1-	2	0803	*54 1•80	80 59	
VOROSHILOV	20 20	0122 2245	0136 2400	0129 NO FLARE	N07 N07	E56 REPORT	6324	18	D	1+	2	1•07	98	
BAKOU	21 21	0857 2245	0915 D 2300	0904 NO FLARE	N05 N05	E40 REPORT	6324	18	D	1+	2	0904	7•07	9•95 56
CLIMAX	22 22	1615 2027	1630 2040	NO FLARE 2028	N05 N05	E18 E18	6324	1-				*70	*70	
	23 23	0215 1445	0230 1515	NO FLARE NO FLARE	REPORT REPORT	NO FLARE NO FLARE	6324	8	D	1-	2	*80 *40	*50 *70	
	23 23	2100 2145	2115 2200	NO FLARE NO FLARE	REPORT REPORT	NO FLARE NO FLARE	6324	1-						
	23 23	2230	2330	NO FLARE	REPORT	NO FLARE	6324	1-						
VOROSHILOV CLIMAX CLIMAX	24 24	0159 1608	0207 D 1614	0201 1610	N10 N10	E80 E65	6326	8	D	1-	2	*80 *40	*50 *70	78
CAPETOWN	25 25	1530 1630	1615 1645	1713 1713	N11 N11	E70 E70	6326	1-						
	25 25	1737 1745	1328 1800	NO FLARE NO FLARE	REPORT REPORT	NO FLARE NO FLARE	6326	8	D	1-	2			
	25 25	1915	1930	NO FLARE	REPORT	NO FLARE	6326	1-						
ALMA ATA	26 26	0833	0844	0838	N10	E48	6326	11	1	1	1	0838	1•41	54
ALMA ATA KIEV KO	27 27	0429	0432	0430	N22	W32	6325	10	D	1-	1	0430	*62 1•55	57
CAPETOWN CAPRI F	27 27	1016 E	1026 D	1018	N23	W37	6325	10	D	1-	1	1018	*90	1•20
CAPRI F CLIMAX	27 27	1020 E	1036	1019	N34	W35	6325	19	D	1-	2	1022	*90	3•00
CAPETOWN CLIMAX	28 28	1428 E	1436 D	1022	N19	W35	6325	19	D	1-	2	1430	*90	3•00
	27 27	1613	1618	1430	N12	E24	6326	8	D	1-	2	*20	*20	
	28 28	1221	1302	1226	N11	E15	6326	41	1	1	1	1226	2•10	2•30
	28 28	1445	1515	NO FLARE	REPORT	NO FLARE	6326	1-						
	28 28	2048	2140	2102	N05	W53	6326	1-						
	28 28	2137	2154	2144	N10	E11	6326	1-						
	28 28	2214	2228	2217	N18	E22	6326	1-						
MITAKA MITAKA	29 29	0048	0107	0053	N05	W53	6324	19	1	1	1	0102	1•47	107
VOROSHILOV CLIMAX	29 29	0255 E	0259	0257	N10	E13	6326	4	D	1	1	0257	1•18	120
	29 29	0256	0259	0258	N10	E12	6326	1-			2		*54	81
	29 29	0645	0700	NO FLARE	REPORT	NO FLARE	6326	1-						
	29 29	1655	1707	NO FLARE	REPORT	NO FLARE	6326	1-						
MITAKA MITAKA	30 30	0043 E	0112	0043	N09	W02	6326	29	D	1	1	0043	2•26	149
	30 30	0415 E	0434	0420	N09	W04	6326	19	D	1	1	0415	1•97	107

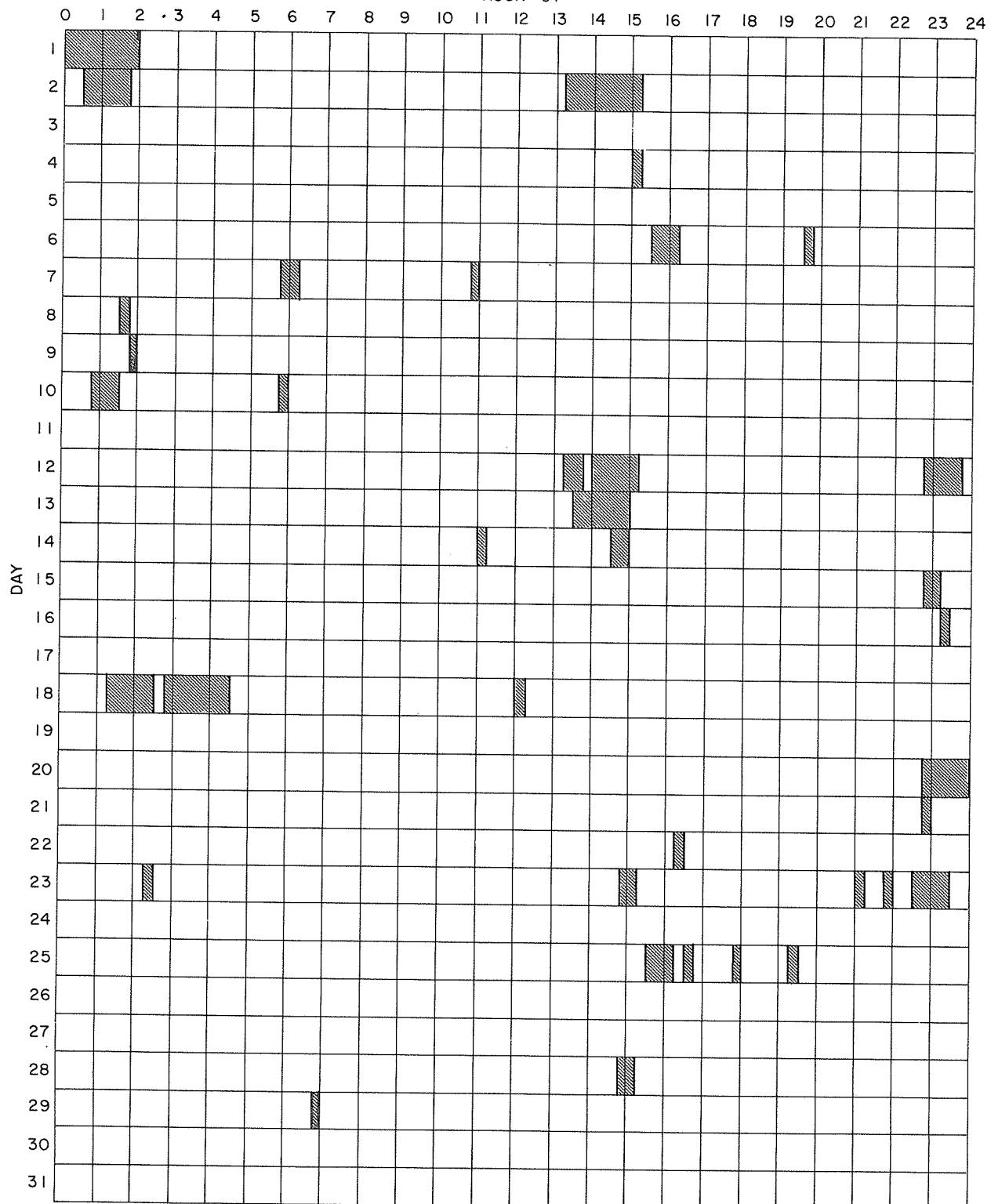
STANDARDS - SCULBER

INTERVALS OF NO FLARE PATROL OBSERVATIONS

III

JANUARY 1962

HOUR-UT



Stations Include:

COMMERCE - STANDARDS - BOULDER

Abastumani	Capetown	Crimee	Ikomasan	McMath-Hulbert	Nizmir	Uccle
Alma-Ata	Capri (German)	Herstmonceux	Kiev KO	Meudon	Ondrejov	Voroshilov
Arcetri	Capri (Swedish)	Honolulu	Kodaikanal	Mitaka	Sacramento Peak	Wendelstein
Bakou	Climax	Huancayo	Lockheed	Nizamiah	Tachkent	

**SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES**

IVa

APRIL 1962

ARO--OTTAWA

2800 MC.

Apr. 1962	Type	Start UT	Duration Hrs:Mins	Maximum			Remarks
				Time UT	Peak Flux	Mean Flux	
1	3 Simple 3	1715	2 30	1740	3	1.5	
12	3 Simple 3 A	1719	46	Indet.	1.3	0.7	
	1 Simple 1	1720	1.5	1720.8	1.5	0.8	
12	6 Complex f	2148	33	2212	150	21	
	4 Post Increase A		39		2	1	
	1 Simple 1 f	2246	4	2247	7	3.5	
14	3 Simple 3 A	1902	1 48	1933	7	4	
	2 Simple 2 f	1913	17	1919	59	9	
15	1 Simple 1 f	1329	4	1331	4	2	
15	6 Complex f	1716.5	6	1719.3	10	3	
15	1 Simple 1	1943	4	1944.3	5	2	
15	1 Simple 1 f	2241	5	2243.8	4	1.3	
17	2 Simple 2	1444.7	2.6	1445.9	10	4	
17	2 Simple 2	2252.5	7.5	2253.2	55	11	
18	3 Simple 3 A f	1734	4 54	1845	25	12	
	2 Simple 2	1800	11	1803.5	20	5	
18	2 Simple 2 f	1852.8	4.2	1854.8	10	4	
18	2 Simple 2 f	1901	4	1903.5	9	5	
19	3 Simple 3 A	1710	1 08	1746	3	1.5	
	1 Simple 1	1742.3	1.7	1742.7	5	2	
19	2 Simple 2	1935	8	1936.3	165	32	
	4 Post Increase A		2 32		5	2	
	1 Simple 1	1955	2	1955.3	3	1	
20	3 Simple 3	1328	16	1335	2	1.2	
20	3 Simple 3 A	1832	4 28	2017	12	-	
	2 Simple 2 f	1957.3	11.7	1959	72	13	
21	3 Simple 3	2002	1 25	2035	4	2.7	
22	3 Simple 3 A f	1342	6 06	1624	37	15	
	6 Complex f	1437	13	1443.5	42	17	
	1 Simple 1 f	1532	9	1535.5	7	4	
	6 Complex	1613.5	29.5	1624.2	45	23	
25	1 Simple 1	1133.5	1.5	1134	3	1	
25	3 Simple 3 f	1253	13	1255	3	1.4	
25	1 Simple 1	2058.5	2.5	2059.7	2	1	
25	1 Simple 1	2155	2	2156	2	1	
26	6 Complex	1205	12	1209.8	13	3	
27	3 Simple 3 A f	1344	1 07	1356	4	2	
	2 Simple 2 f	1405	24	1413	175	17	
28	3 Simple 3 A f	2021	23	2030	3	1.3	
	1 Simple 1 f	2026.8	1	2027.3	7	2.5	
30	3 Simple 3 f	1155	50	1222	2	1.4	
30	3 Simple 3	1252	53	1304	2	1	

COMMERCIAL - STANDARDS - BOULDER

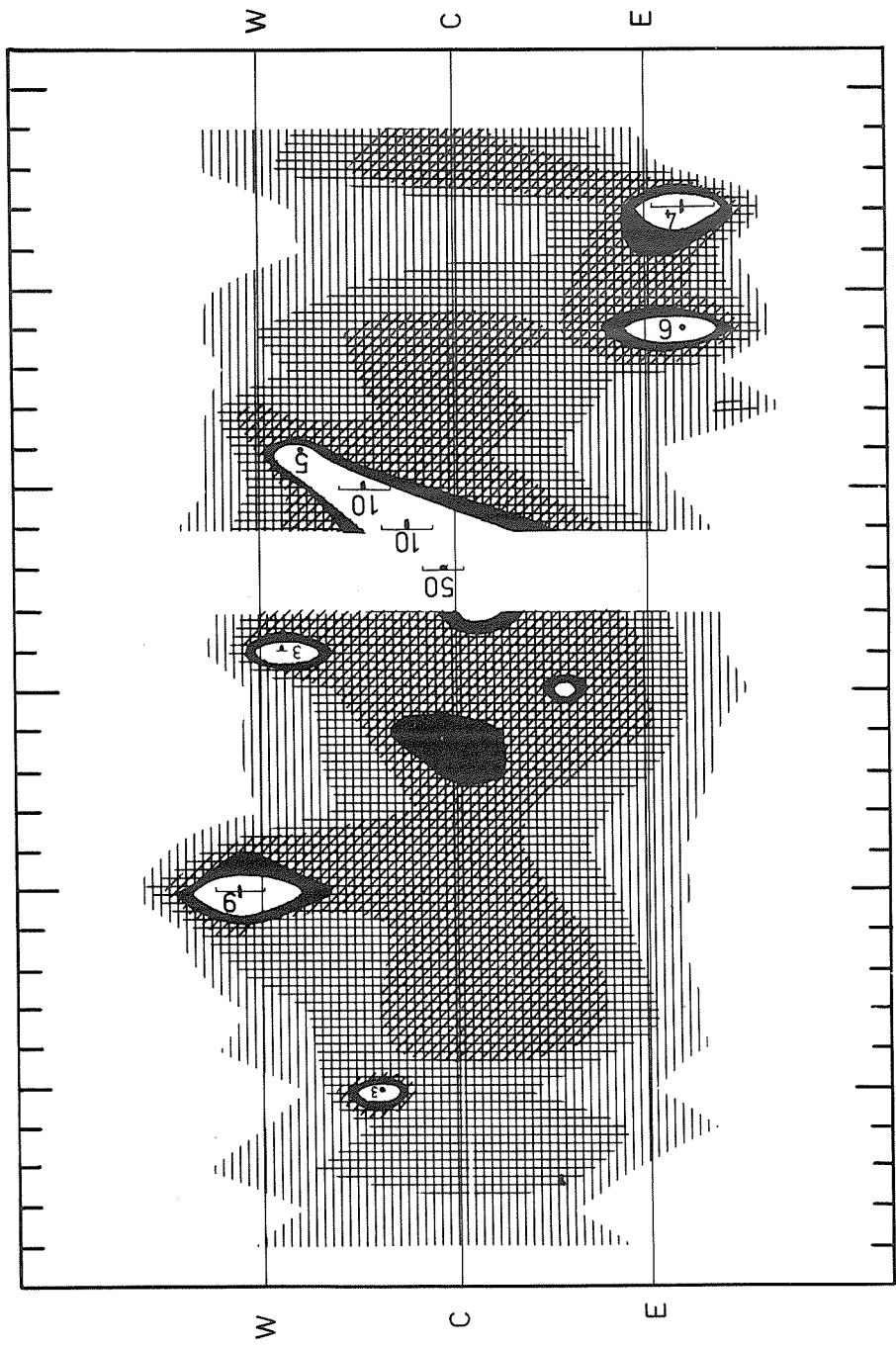
IVb

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

APRIL 1962

169 Mc

Nancay



COMMERCE - STANDARDS - BUREAU

SOLAR RADIO EMISSION

IVc

APRIL 1962

BOULDER

108 Mc.

Apr. 1962	Type	Start UT	Time of Maximum UT	Duration Minutes	Intensity
1	3	0039.1	0040.0	1.8	3
1	3	0043.1	0044.0	1.0	2
1	3	2304.0	2304.8	0.9	1
2	3	0024.8	0025.2	0.8	1
2	3	2127.8	2127.8	0.3	1
3	3	0001.1	0001.2	0.8	2
6	3	2345.4	2346.0	0.7	2
10	1	1235 E	-	763 D	2
10	3	1243.7	1243.9	0.9	2
10	3	2317.9	2318.0	1.3	3
11	3	0017.2	0017.4	0.7	2
11	3	0035.0	0035.5	0.9	3
12	3	1719.2	1720.9	2.2	2
12	9a	2147.8	2150.9	11.1	3
12	9b	2158.9	2212.3	14.6	3
12	6	2214	-	186 D	2
13	2	2136.2	2137.2	2.1	2
16	6	1500 E	-	624 D	2
17	1	1438 E	-	647 D	2
17	2	1525.5	1526.2	3.3	2

	Type	Start UT	Time of Maximum UT	Duration Minutes	Intensity
18	6	1223 E	1630	783 D	3
19	1	1222 E	-	241 D	1
19	6	1623	1103.4	580 D	2
19	3	1743.1	1743.7	1.5	2
19	8	2339.0	2344.8	7.4	3
20	6	1220 E	-	788 D	2
20	8	2001.5	2006.0	6.7	3
21	6	1219 E	-	790 D	2
21	8	1920.0	1920.1	6.0	2
21	9a	2224	-	11	3
21	9b	2235	-	23	3
21	3	2309	2310.8	4.8	3
21	3	2316.2	2316.9	2.8	2
22	4	1511.0	1511.6	126	2
25	3	1526.2	1527.0	2.8	2
27	9	1412.3	-	50.7	3
27	2	2300.5	2304.3	6.1	2
28	4	1556.5	1557.1	122	2
28	2	2023.5	2027.2	7.5	2
30	8	2238.9	2242.4	6.1	3

COMMERC - STANDARDS -- BOULDER

NOMINAL TIMES OF OBSERVATION

APRIL 1962

BOULDER

108 Mc.

Apr. 1962	U.T.	Apr. 1962	U.T.
1	1250-0109	16	1500-0124
2	1248-0110	17	1438-0125
3	1246-0111	18	1223-0126
4	1245-0112	19	1222-0127
5	1243-0113	20	1220-0128
6	1242-0114	21	1219-0129 I 2115-2154
7	1240-0115	22	1510-0130
8	1239-0116	23	1216-0131
9	1237-0117	24	1215-0132 I 1710-1757
10	1235-0118	25	1213-0133
11	1234-0119	26	1212-0134
12	1232-0120	27	1211-0135
13	1231-2338	28	1209-0136
14	- -	29	1607-0137
15	- -	30	1207-0138

COMMERC - STANDARDS - BOULDER

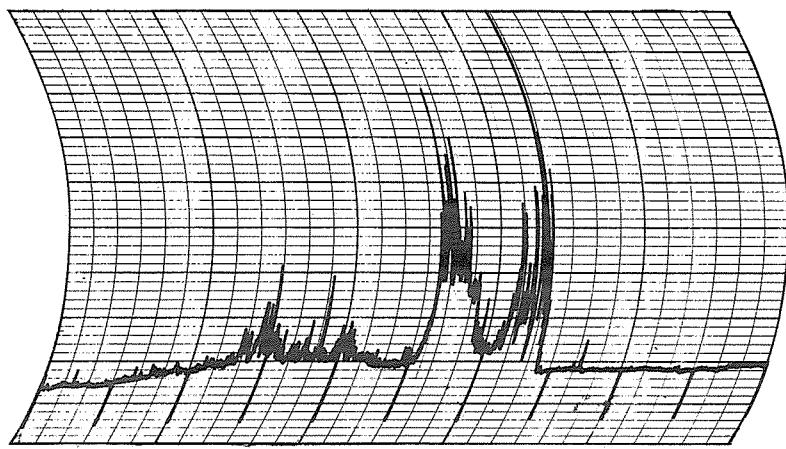
IVd

SOLAR NOISE BURSTS

APRIL 1962

BOULDER

108 Mc.



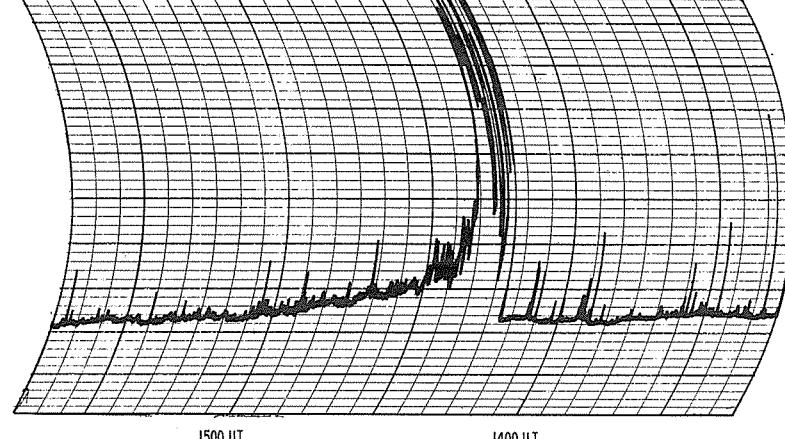
2300 U.T.

2200 U.T.

2100 U.T.

APRIL 12, 1962

BOULDER

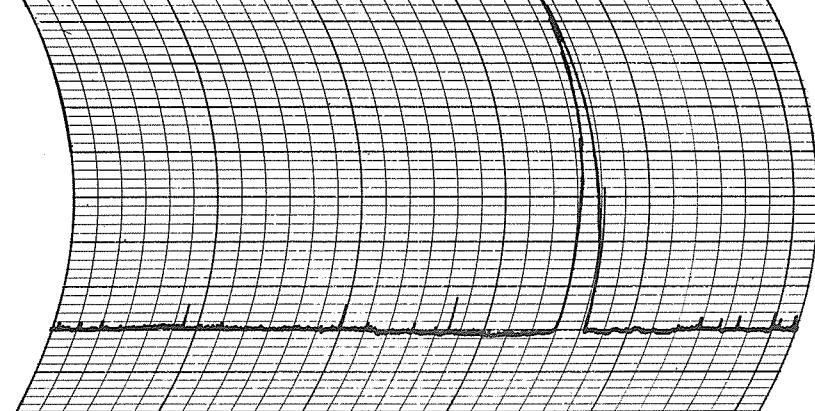


1500 U.T.

1400 U.T.

APRIL 27, 1962

BOULDER



2400 U.T.

2300 U.T.

2200 U.T.

APRIL 30, 1962

**SOLAR RADIO EMISSION
SPECTRUM OBSERVATIONS**

IVg

JANUARY-FEBRUARY 1962

Fort Davis

25-580 Mc.

1962 OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
	TYPE	TIMES U.T.	INT.		
Jan. 1		1417-2350			
Jan. 2		1414-2350			
Jan. 3		1414-2350			
Jan. 4		1414-2355			
Jan. 5		1414-2355			
Jan. 6		1415-2355			
Jan. 7		1415-2355			
Jan. 8		1414-2355			
Jan. 9		1415-2355			
Jan. 10		1415-2355			
Jan. 11		1413-2400			
Jan. 12		1413-2400			
Jan. 13		1414-2400			
Jan. 14		1413-2400			
Jan. 15		1413-2400			
Jan. 16		1413-2400			
Jan. 17		1413-2400			
Jan. 18		1413-2400			
Jan. 19		1413-1732 1734-2400			2226 V
Jan. 20		1414-2400			
Jan. 21		1414-2400			Weak I throughout day
Jan. 22		1413-2400			Weak I throughout day
Jan. 23	II	1500.2-1506	2	75-<50	Weak I during day. ~1600-1956 Many III 50-25 Mc
Jan. 24		1413-2400			
Jan. 25		1549-2400			
Jan. 26		1413-2400			
Jan. 27		1413-2400			
Jan. 28		1413-2400			
Jan. 29	I	1720-~1820	1	300-100	
Jan. 30	IIIG IIIG	2156.5-2200 2319-2322	2 2-3	300-100 400-50	
Jan. 31		1400-2400			
Feb. 1	I	1400-2400	1	250-50	
Feb. 2	IIIG	2217-2218	2	580-400	
Feb. 3	I	1401-~1700	1-2	580-50	Weak I throughout day
Feb. 4		1551-1730 2012-2400			
Feb. 5		1400-2400			
Feb. 6	IIIG IV** I	1625-1626 2113-2200 2156-2247	2-3 1-3 1-2	450-100 450-150 250-25	**Pulsating structure
Feb. 7		1400-1703 1846-2400			
Feb. 8		1400-2400			
Feb. 9		1400-2400			
Feb. 10		1402-2400			
Feb. 11		1400-2400			
Feb. 12		1400-2400			
Feb. 13		1400-2400			
Feb. 14		1400-2400			

IVh

**SOLAR RADIO EMISSION
SPECTRUM OBSERVATIONS**

FEBRUARY - MARCH 1962

Fort Davis

25-580 Mc.

1962 YEAR-MONTH-DAY	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
Feb. 15	1400-2400					
Feb. 16	1400-2400					
Feb. 17	1401-2400					
Feb. 18	1400-2400					
Feb. 19	1400-2400					
Feb. 20	1400-2400	IIIG	2304-2307	2	150-25	
Feb. 21	1400-2400	IIIG	1832-1834	2-3	500-25	
		IIIG	1918-1923	2-3	500-25	
		IIIG	2200-2202	3	580-25	
		IIIG	2207-2210	3	580-25	
Feb. 22	1401-2400	IIIG	1928-1931	2-3	75-25	Weak I throughout day
Feb. 23	1346-2400	I	1354-1700	1-2	200-100	
		I	~ 2000-2400	1-3	200-25	IV is possibly high frequency component of noise
		IV	2201-2400	2	580-320	storm (RXB inoperative)
Feb. 24	0000-0020	I	0000-0020	2	200-50	
	1346-2400	IV	0000-0017	2	580-320	
		I	1352-2400	2-3	250-25	
Feb. 25	1345-2400	I	1350-2400	2-3+	500-25	
		IIIG	1641-1642	2	150-25	
		IIIG	1911-1913	2	200-25	
		IIIG	2259-2300	3	580-250	
Feb. 26	1345-2400	I	1345-~1840	1-2	250-50	Weak I throughout day
		IIIG	1633-1637	2	580-50	
Feb. 27	1345-2400	I	1345-~2116	1-2	300-50	Weak I throughout day
		IIIG	1359-1403	2	300-50	
		IIIG	1522-1523	2	400-180	
		IIIG	1716-1719	2	580-100	
		IIIG	2142-2148	1-2	580-50	
		IIIG	2256-2259	2-3+	580-100	
Feb. 28	1345-2400	IIIG	1807-1810	2	580-25	
Mar. 1	1345-2400	IIIG	1636-1642	2-3+	580-25	
		II	1641.1-1659	3	320-<25	
		IV	1753-1828	2-3	250-125	
Mar. 2	1345-2400	IIIG	1353.5-1356	2	200-50	1354 V
		IIIG	2342-2344	2-3	280-45	
Mar. 3	1345-2400	I	1345-~1620	1	300-50	Weak I throughout day
Mar. 4	1345-2400					1946 V
Mar. 5	1345-2400					
Mar. 6	1345-1830					
	1856-2400					
Mar. 7	1345-2400					
Mar. 8	1600-2400					
Mar. 9	1331-2208					
	2221-2400					
Mar. 10	1330-2400					
Mar. 11	1331-2400					
Mar. 12	1330-2400					
Mar. 13	1330-2400	IIIG Uncl.	1430-1458 1456-1500	2-3 2	580-25 150-50	
Mar. 14	1330-2400					
Mar. 15	1330-2400					
Mar. 16	1330-2400					Weak I throughout day
Mar. 17	1331-2400	I	~ 1520-~1620	1	300-100	Weak I throughout day
		IIIG	1558-1559	2	220-20	
		IIIG	1607-1610	2	220-25	
		IIIG	1640-1641	2	200-25	
		IIIG	2307-2312	3	250-25	2308 V
Mar. 18	1330-2400	IIIG	2129-2134	3	350-220	Weak I throughout day
		IIIG	2138-2140	3	280-50	
		I	2220-2300	1	280-150	
Mar. 19	1330-2400					Weak I throughout day
Mar. 20	1330-2400					
Mar. 21	1330-2400					Weak I throughout day

**SOLAR RADIO EMISSION
SPECTRUM OBSERVATIONS**

IV₁

MARCH 1962

Fort Davis

25-580 Mc.

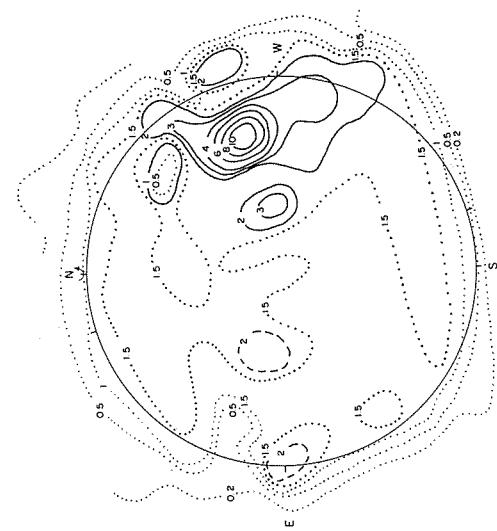
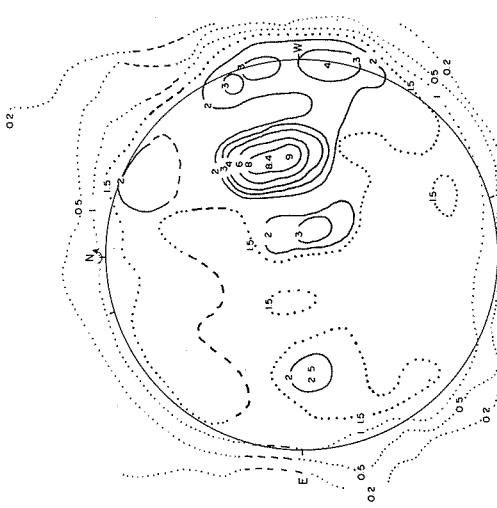
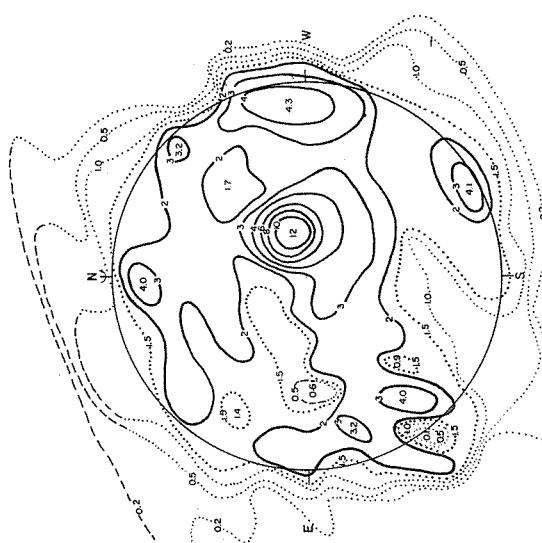
1962 USCIRAN-MSC-N	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
Mar.22	1330-2400	IIIG IIIG IIIG IIIG	1559-1602 1605-1606 1732-1742 2301-2304	3 3 3 2-3	580-60 580-50 300-25 280-50	
Mar.23	1330-2355					Weak I throughout day
Mar.24	1330-2209 2314-2400					Weak I throughout day
Mar.25	1330-2400					1906 V
Mar.26	1331-2400	IIIG	1424-1429	2-3	240-50	
Mar.27	1330-2400	IIIG IIIG IIIG IIIG	1609-1610 1615-1617 1948-1949 2323-2325	2 2 2 2	500-220 400-75 560-240 560-400	
Mar.28	1331-2046 2158-2400					
Mar.29	1315-2400					
Mar.30	1315-2400					
Mar.31	1315-2400					

COMMERCE - STANDARDS - BOULDER

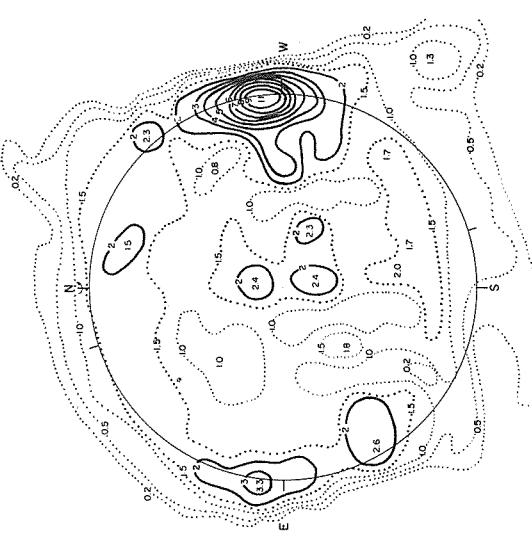
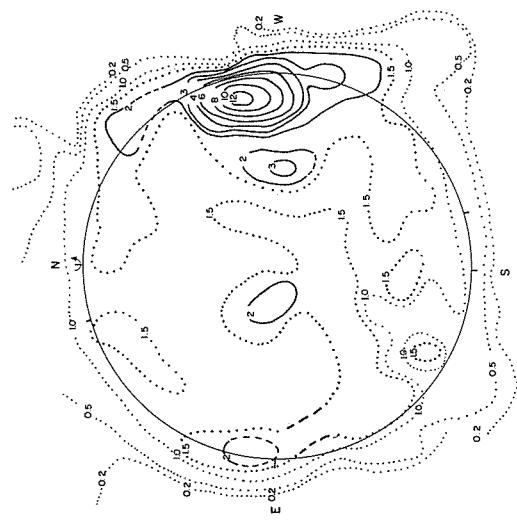
IVj

STANFORD
FEBRUARY 1961
SOLAR RADIC EMISSION SPECTROHELIOPHOTOGRAMS

9.1 cm



1961 FEBRUARY 13, 19^h - 20^h UT
CONTOUR BRIGHTNESS UNIT = 17,400°K



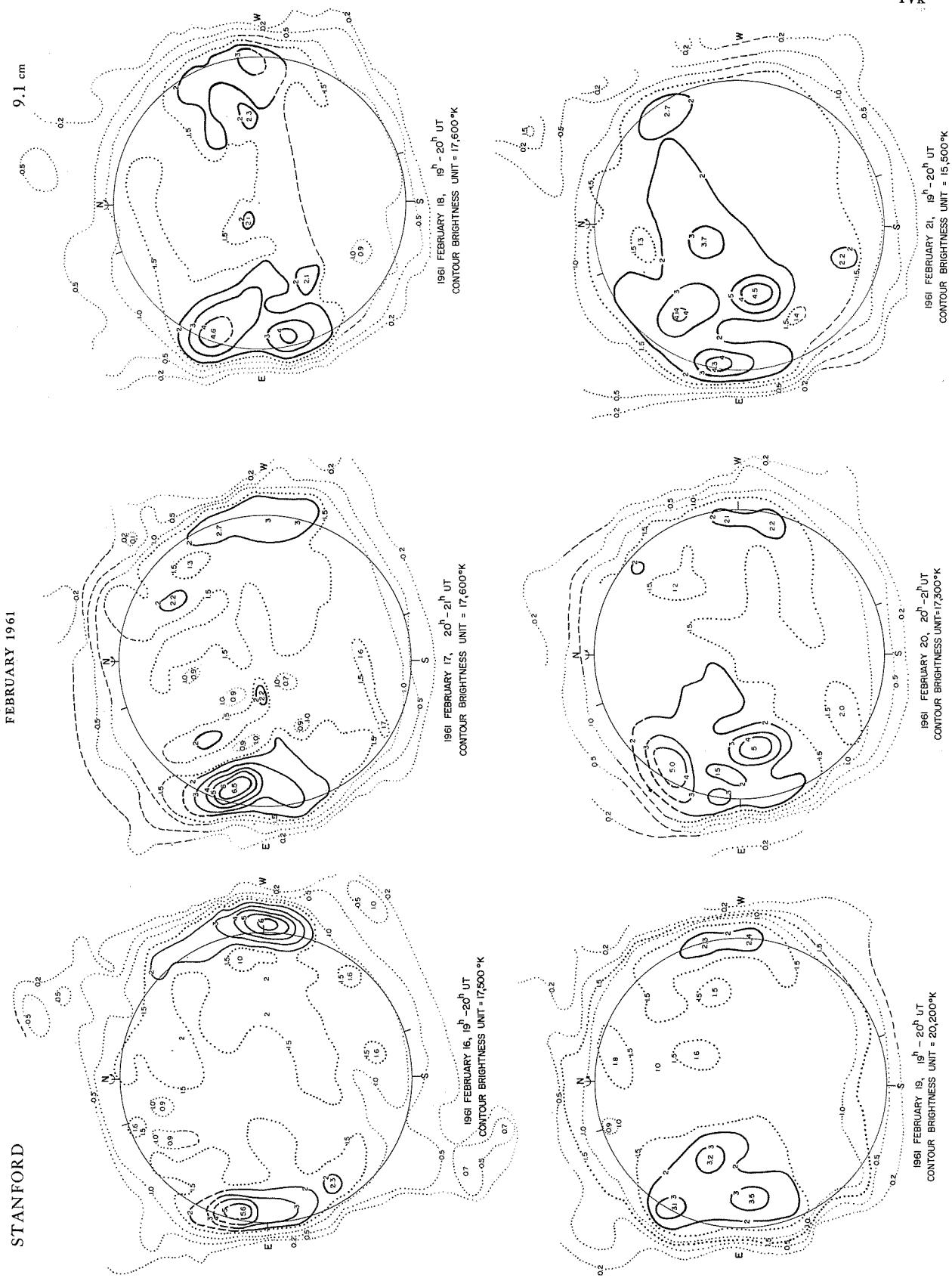
1961 FEBRUARY 16, 19^h - 20^h UT
CONTOUR BRIGHTNESS UNIT = 17,400°K

SOLAR RADIO EMISSION SPECTROHELIOPHOTOGRAMS

FEBRUARY 1961

STANFORD

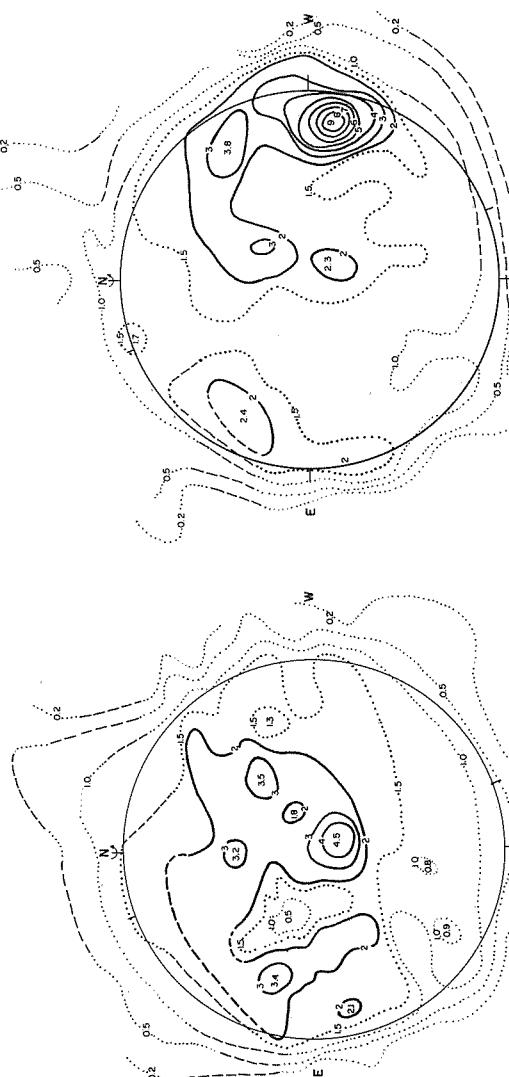
9.1 cm



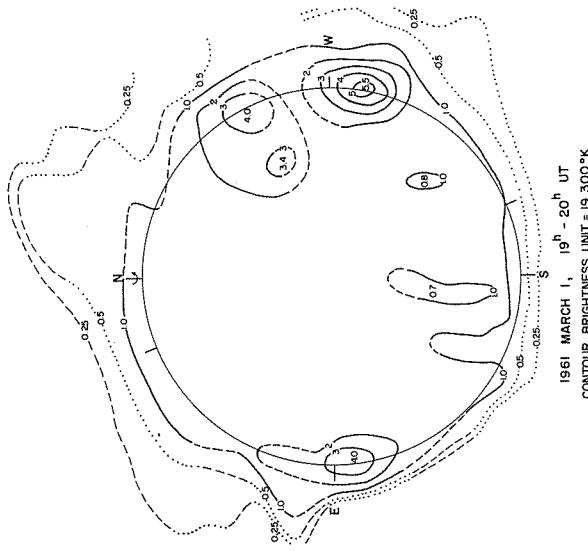
SOLAR RADIO EMISSION SPECTROHELIOPHOTOGRAMS
FEBRUARY — MARCH 1961

STANFORD

9.1 cm

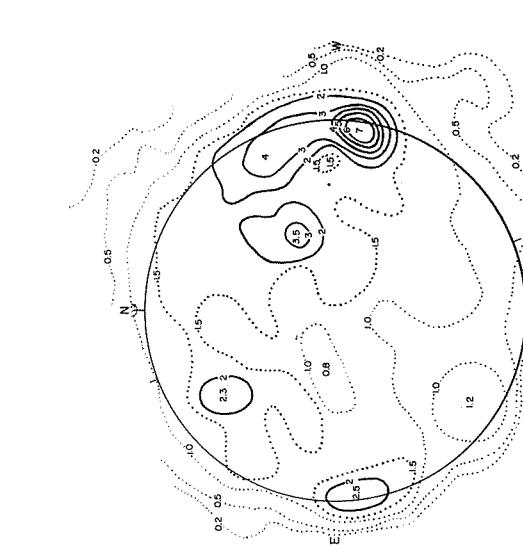


1961 FEBRUARY 23, 19^h - 20^h UT
CONTOUR BRIGHTNESS UNIT = 19,300 °K

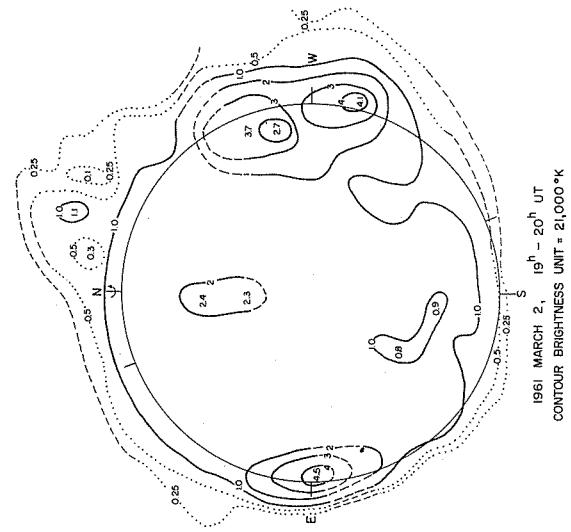


1961 MARCH 1, 19^h - 20^h UT
CONTOUR BRIGHTNESS UNIT = 19,300 °K

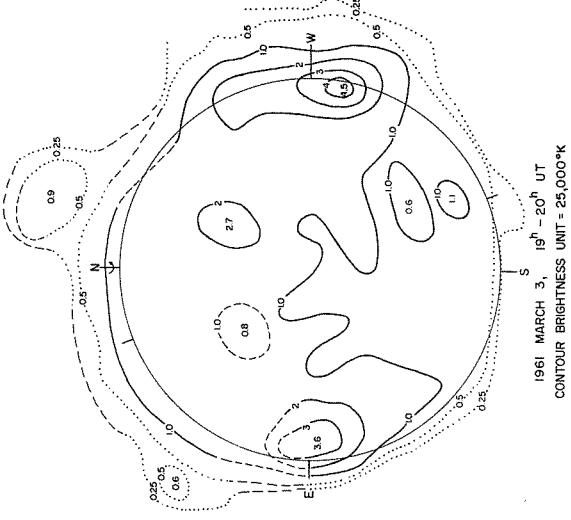
FEBRUARY — MARCH 1961



1961 FEBRUARY 27, 19^h - 20^h UT
CONTOUR BRIGHTNESS UNIT = 19,300 °K



1961 MARCH 2, 19^h - 20^h UT
CONTOUR BRIGHTNESS UNIT = 21,000 °K

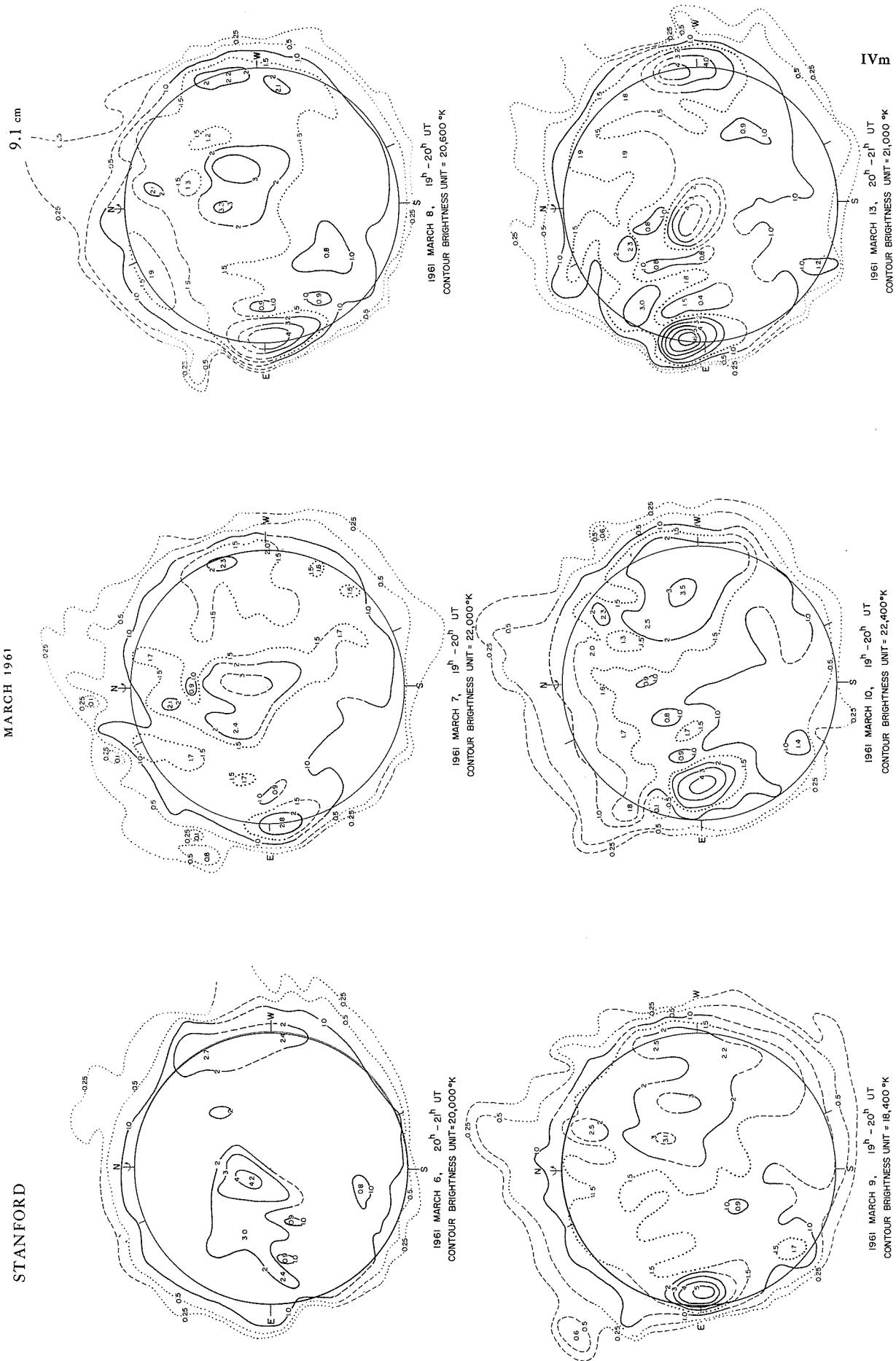


1961 FEBRUARY 28, 19^h - 20^h UT
CONTOUR BRIGHTNESS UNIT = 20,400 °K

SOLAR RADIO EMISSION SPECTROHELIOPHOTOGRAMS

MARCH 1961

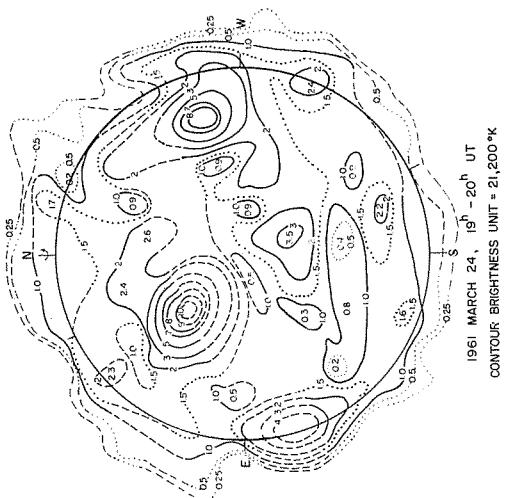
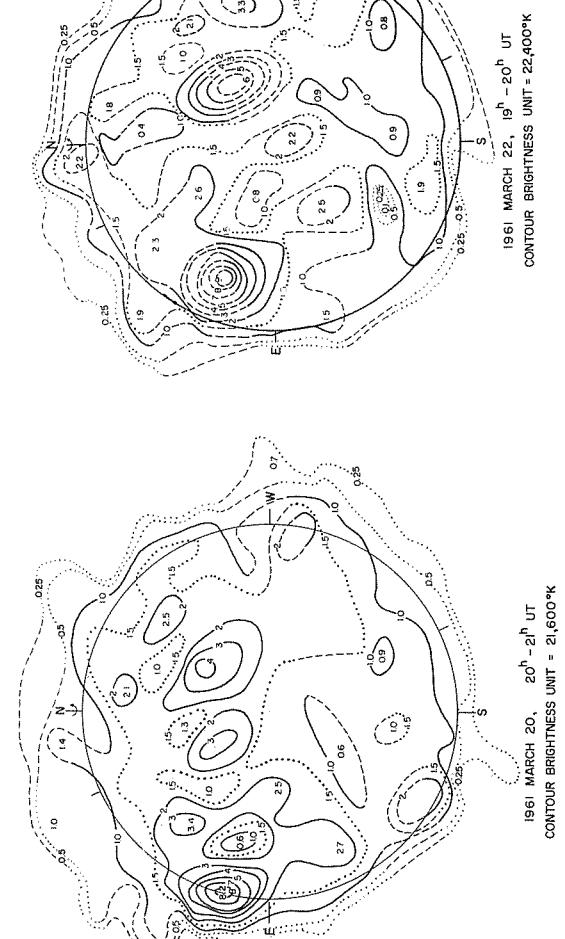
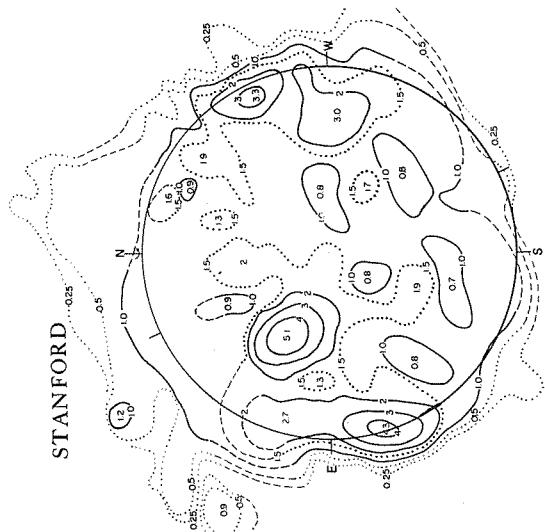
STANFORD



SOLAR RADIO EMISSION SPECTROHELIOPHOTOGRAMS

MARCH 1961

9.1 cm



STANFORD
APRIL 1962

SOLAR RADIO EMISSION SPECTROHELIograms

9.1 cm

Stanford, 1962 April 1, 9.1 cm SPECTROHELIogram, Brightness Unit = 2.7×10^3 *K.
 Total = 3307
 Stanford, 1962 April 2, 20-21 hrs UT; Brightness Unit = 2.9×10^3 *K.
 Total = 3345

Stanford, 1962 April 3, 20-21 hrs UT; Brightness Unit = 2.4×10^3 *K.
 Total = 3348

Stanford, 1962 April 4, 20-21 hrs UT; Brightness Unit = 2.7×10^3 *K.
 Total = 768

Stanford, 1962 April 5, 20-21 hrs UT; Brightness Unit = 2.4×10^3 *K.
 Total = 3372

Stanford, 1962 April 6, 20-21 hrs UT; Brightness Unit = 2.4×10^3 *K.
 Total = 775

SOLAR RADIO EMISSION SPECTROHELIOPHOTOGRAMS

APRIL 1962

STANFORD

9.1 cm

Stanford, 1962 April 10th, 20th 1 hr WVA, Brightness Unit = 3.8 x 10³ *K.
 (Note: Position N of Photographic circle estimated using data of day)
 Total = 4739, S = 80

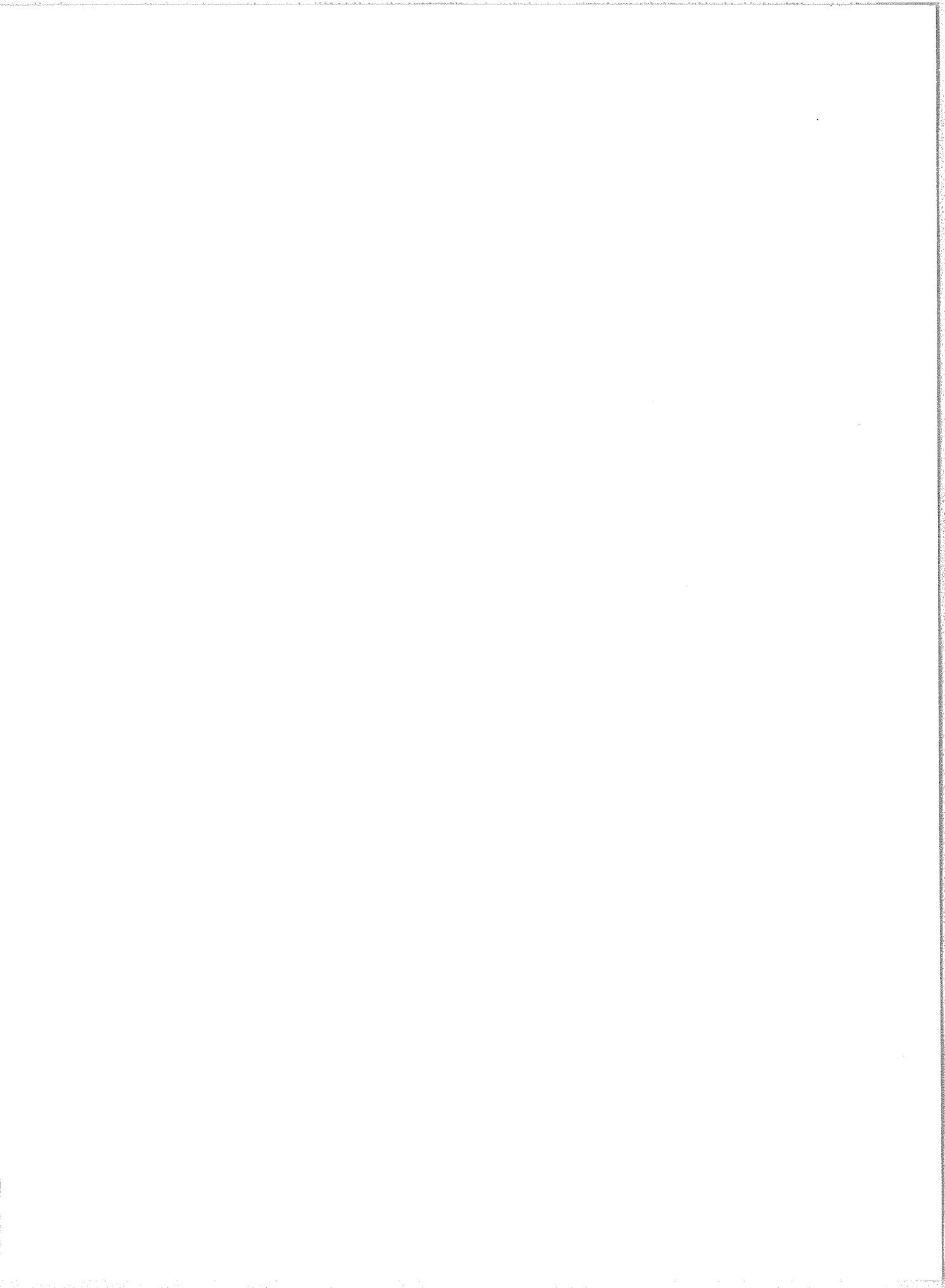
Stanford, 1962 April 11, 1 hr WVA, Brightness Unit = 3.3 x 10³ *K.
 Total = 3219, S = 88

Stanford, 1962 April 11, 1 hr WVA, Brightness Unit = 3.3 x 10³ *K.
 Total = 3219, S = 88

Stanford, 1962 April 12, 20th 1 hr WVA, Brightness Unit = 2.6 x 10³ *K.
 Total = 4525, S = 96

IVP

Stanford, 1962 April 12, 20th 1 hr WVA, Brightness Unit = 2.6 x 10³ *K.
 Total = 5311, S = 114



Va

COSMIC RAY INDICES

Climax Neutron Monitor

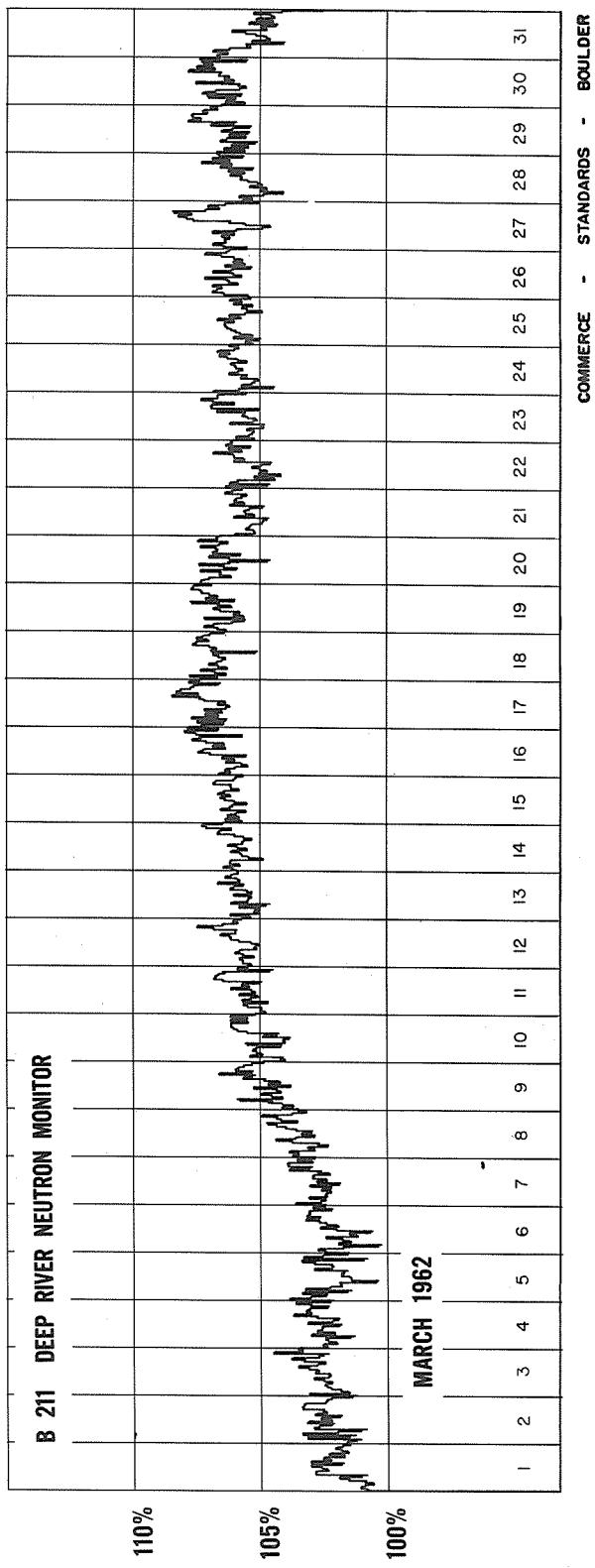
IGC STATION B 305

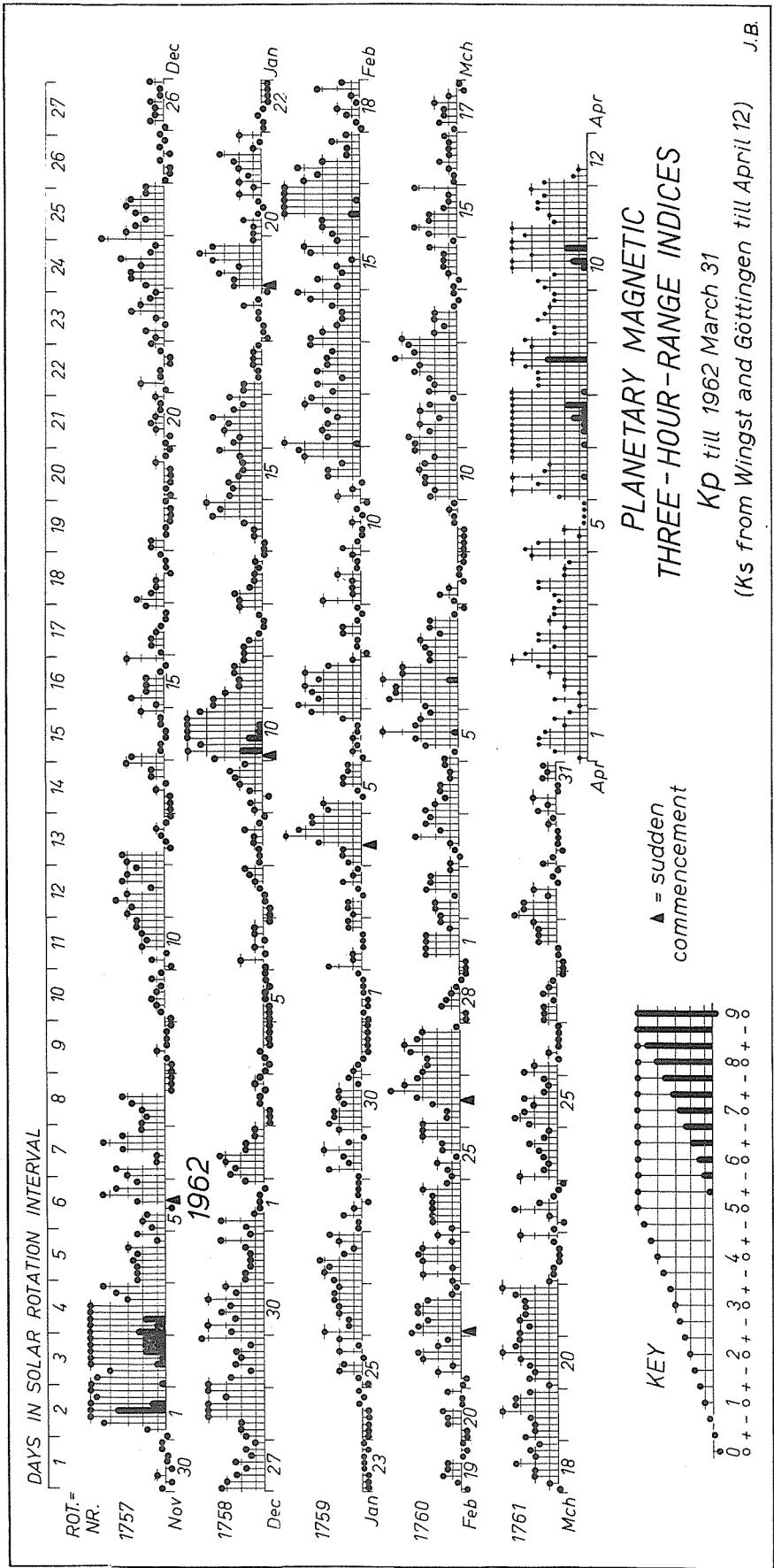
MARCH 1962

Mar. 1962	Daily average counts/hr.*	Mar. 1962	Daily average counts/hr*
1	3018.0	16	3099.6
2	3037.1	17	3105.6
3	3053.7	18	3097.0
4	3049.0	19	3099.9
5	3030.0 (36 hrs.)	20	3107.0
6	3020.9	21	3083.8
7	3037.0	22	3066.7
8	3058.3	23	3074.1
9	3093.5	24	3072.9
10	3116.3	25	3059.5
11	3101.3	26	3063.9
12	3091.2 (30 hrs.)	27	3053.2
13	3111.0 (12 hrs.)	28	3047.5
14	3102.3	29	3084.9
15	3099.0	30	3082.6
		31	3028.2

COMMERCE - STANDARDS - BOULDER

COSMIC RAY INDICES
(Pressure Corrected Hourly Totals)

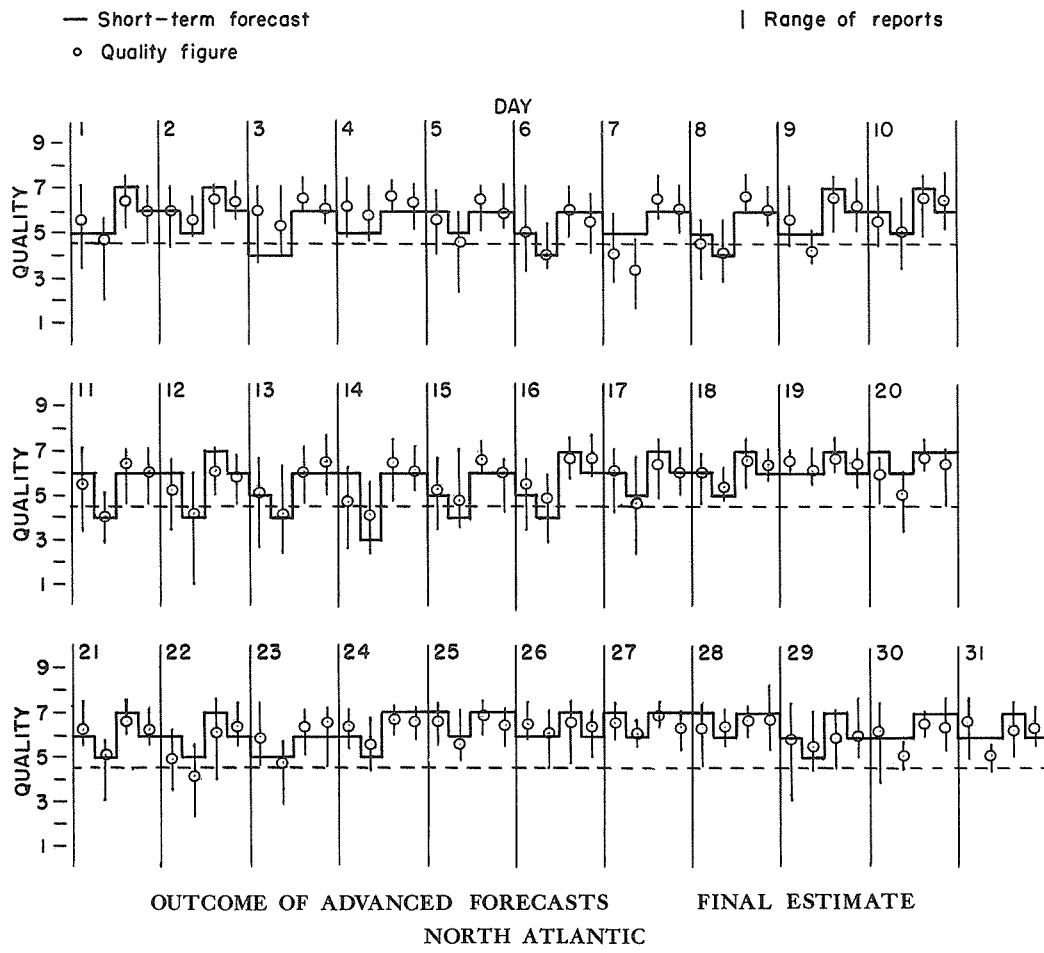




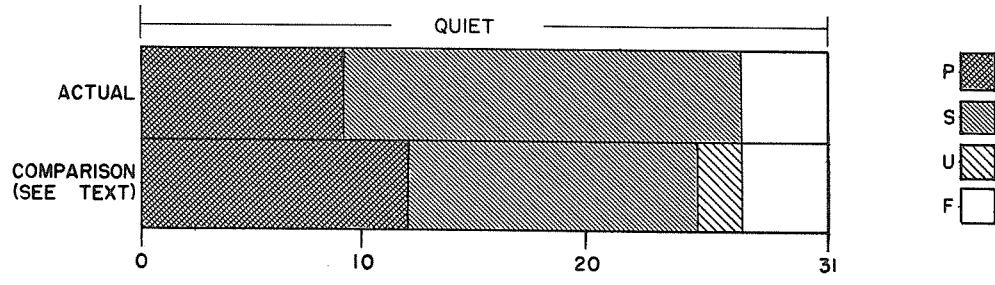
CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS
NORTH ATLANTIC

VII b

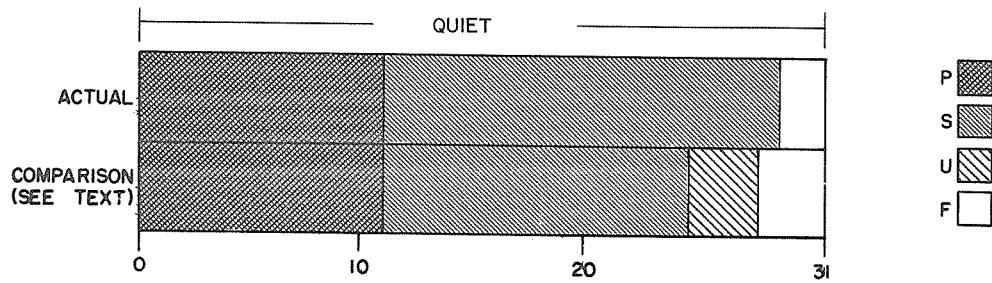
MARCH 1962



OUTCOME OF ADVANCED FORECASTS FINAL ESTIMATE
NORTH ATLANTIC



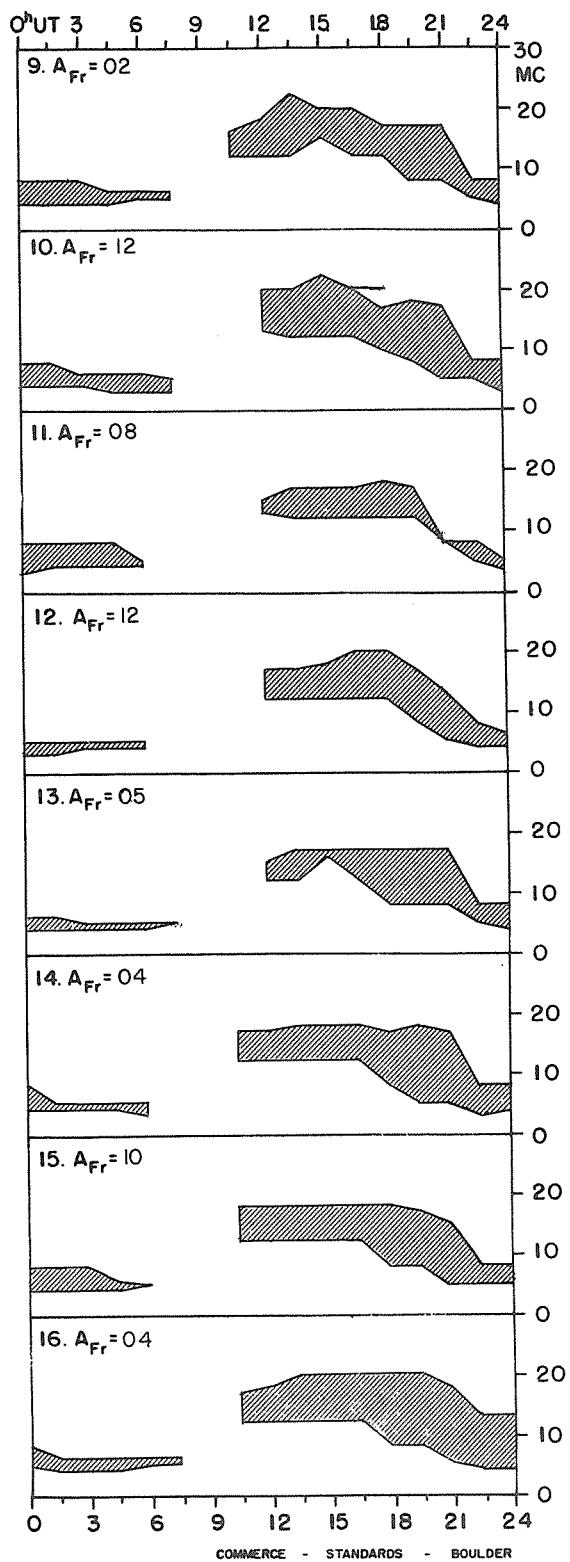
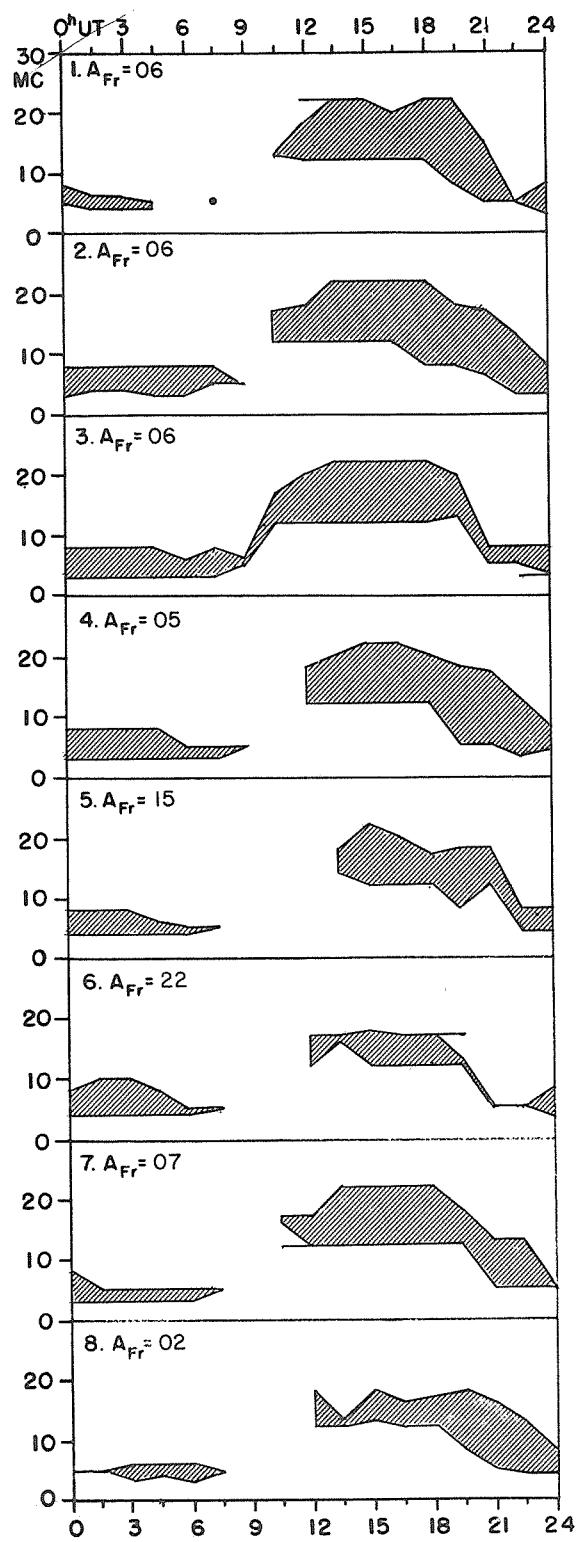
NORTH PACIFIC



VII c

USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

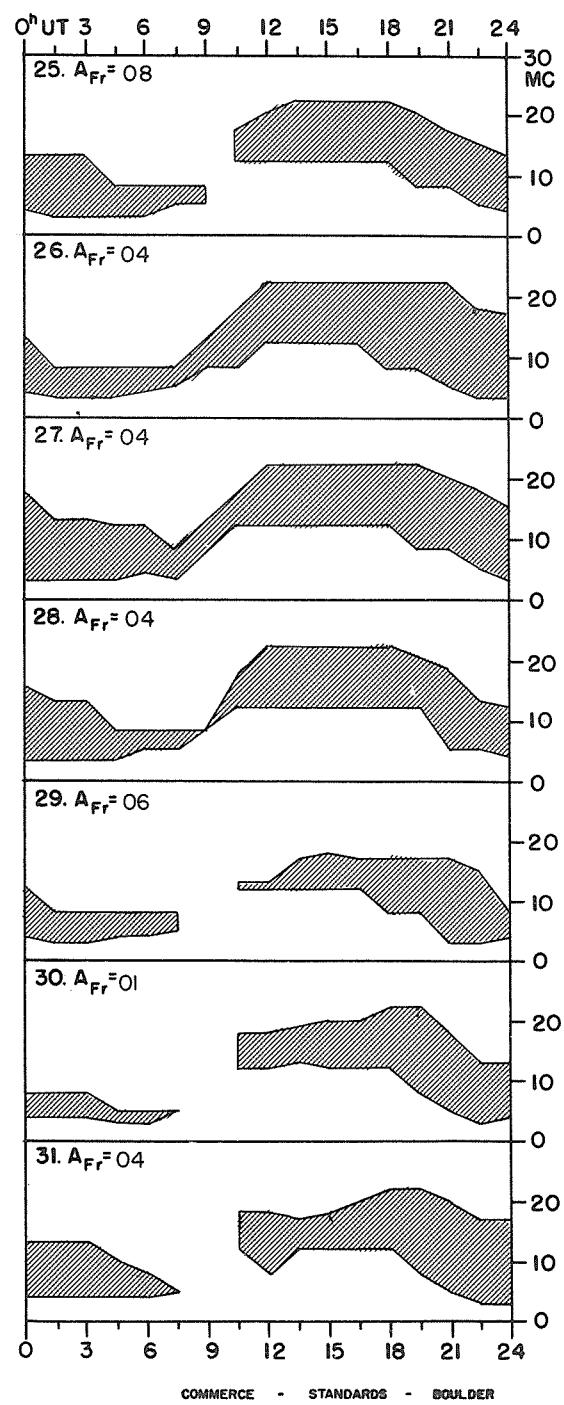
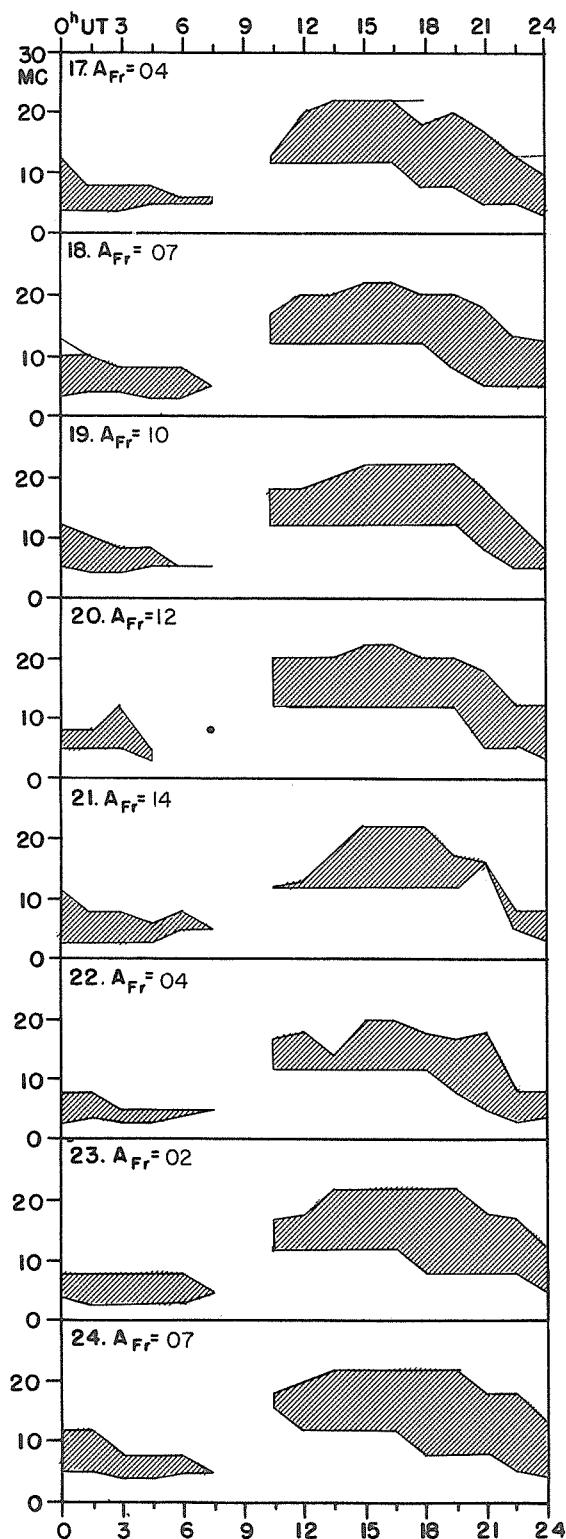
MARCH 1962



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

VII d

MARCH 1962



Adapted from Observations by Deutsches Bundespost

VIIIa

ALERT PERIODS AND SPECIAL WORLD INTERVALS

INTERNATIONAL WORLD DAY SERVICE

APRIL 1962

Issued April 1962 Day/Time U.T.	Advance Geophysical Alert	No.	World-wide Geophysical Alert	Special World Intervals
07/0335	Ft. Belvoir, Magnetic Storm 06/19XXZ			
07/1600		165	Magnetic Storm 06/19XXZ	Start
08/1600		166		Finish
13/0230	Climax, Solar Flare, One plus 12/2150Z			
18/1930	McMath, Solar Flare, Two 18/1814Z			
19/2100	McMath, Solar Flare, One Plus 19/1943Z			
20/2100	Lockheed, Solar Flare, Two 20/1955Z			
21/2005	Lockheed, Solar Flare, One plus 21/1925Z			
22/1520	Sac Peak, Solar Flare, Two 22/1444Z			
22/1600		167	Magnetic Storm 21/15XXZ	Start
23/1600		168		Finish
27/1700	Climax, Solar Flare, Two 27/1410Z			

COMMERCE - STANDARDS - BOULDER