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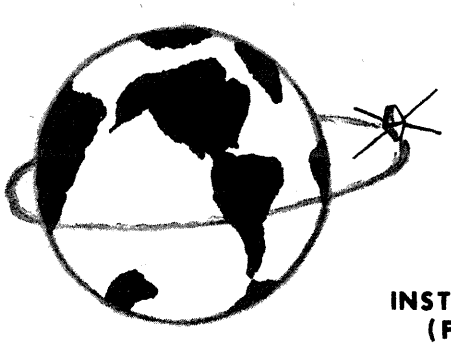
SOLAR-GEOPHYSICAL DATA

Issued: March 1966



U. S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
INSTITUTE FOR TELECOMMUNICATION SCIENCES AND AERONOMY
(FORMERLY CENTRAL RADIO PROPAGATION LABORATORY)
BOULDER, COLORADO

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ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
INSTITUTE FOR TELECOMMUNICATION SCIENCES AND AERONOMY
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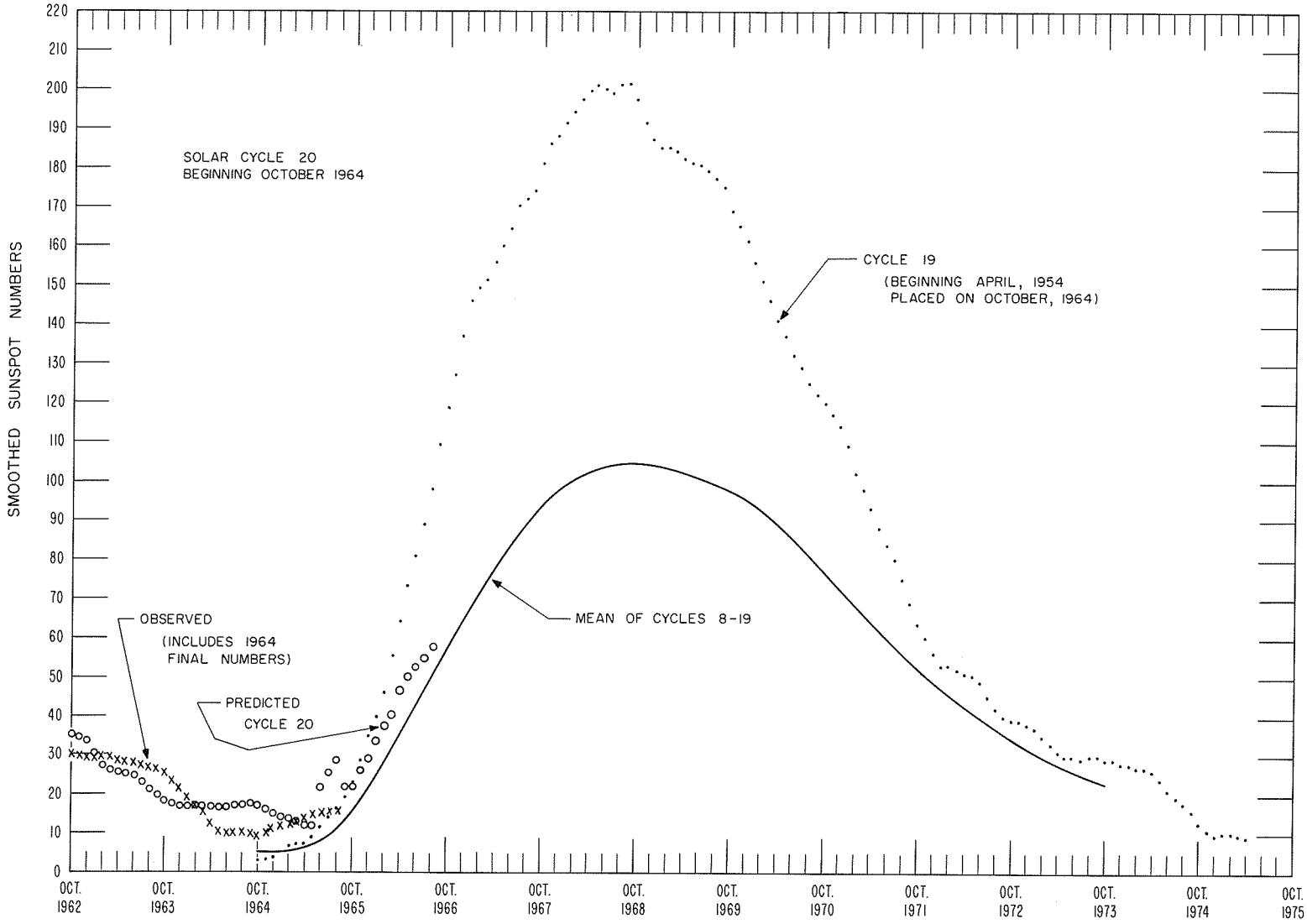
CONTENTS

The revised descriptive text was published in January 1966.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

RELATIVE SUNSPOT NUMBERS

ZÜRICH, R_Z

1965 1966

Day	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.
1	16	0	0	9	18	0	20	52	29	13	18	7
2	7	0	14	24	20	0	20	63	28	8	17	9
3	0	0	8	36	19	15	21	60	20	8	16	20
4	8	0	8	38	17	14	22	62	13	8	15	17
5	13	0	7	34	8	0	22	55	13	8	8	17
6	26	0	0	30	17	16	19	39	29	8	7	17
7	26	0	11	32	22	7	23	27	40	8	7	16
8	7	0	15	24	29	31	22	7	46	15	13	13
9	0	0	9	23	33	12	18	8	38	7	13	10
10	12	0	0	9	29	14	15	13	41	7	7	11
11	9	0	0	7	35	16	19	8	40	0	8	14
12	18	9	15	0	30	13	17	9	26	0	0	8
13	16	9	21	0	23	8	17	8	17	14	17	16
14	17	15	15	14	12	7	8	7	16	0	30	12
15	12	27	30	0	11	0	8	0	10	14	36	16
16	9	18	36	0	8	0	16	7	9	22	57	13
17	11	17	55	12	7	0	8	0	7	21	50	19
18	22	8	72	25	0	7	9	0	0	20	64	24
19	17	7	75	16	0	7	7	10	0	18	68	32
20	19	7	72	21	0	7	0	12	0	15	63	39
21	9	9	70	19	0	7	0	15	0	10	52	41
22	0	15	62	14	0	0	0	26	7	11	44	50
23	0	17	50	7	0	0	11	23	0	9	38	55
24	7	10	43	7	0	8	17	16	7	8	41	42
25	17	7	30	7	7	0	13	24	0	12	27	37
26	10	11	22	7	0	8	17	17	7	23	19	36
27	18	10	7	8	7	14	24	17	0	29	16	35
28	12	8	0	23	0	12	23	9	8	64	14	31
29	9	0	0	18	0	16	37	8	8	64	19	
30	9	0	0	14	9	15	50	8	15	44	28	
31	8		0		7	22		14		38	15	
Mean:	11.7	6.8	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0	26.7	23.5

All Zürich Sunspot Numbers, Rz, for 1965 are Final. The numbers for 1966 are Provisional.

AMERICAN, R_A

1965 1966

Day	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.
1	6	0	0	14	12	0	15	33	29	10	25	0
2	1	0	3	20	9	0	17	39	27	10	21	12
3	1	0	4	29	6	7	19	50	20	10	19	14
4	5	0	1	39	6	2	19	43	11	9	13	16
5	6	0	1	33	3	0	16	37	1	10	7	17
6	5	0	0	33	13	0	21	26	29	12	1	15
7	8	0	9	34	22	7	21	16	43	9	0	14
8	0	0	10	21	20	6	19	5	34	2	1	13
9	1	0	4	13	22	9	19	10	38	3	0	12
10	12	0	0	2	19	10	18	11	43	0	0	14
11	10	5	1	0	20	10	17	11	38	0	0	15
12	20	10	7	0	25	14	21	9	24	0	0	11
13	20	11	10	0	15	1	18	10	15	0	19	12
14	20	12	4	0	14	1	12	2	16	0	30	14
15	21	17	29	0	11	0	11	0	14	18	37	13
16	16	12	37	0	11	0	10	0	12	21	31	16
17	19	14	57	10	4	0	5	0	0	18	43	13
18	23	8	55	17	0	3	4	0	0	19	43	25
19	23	0	65	15	0	1	2	8	0	16	55	24
20	14	1	55	13	0	2	1	12	0	0	55	33
21	2	13	48	11	0	0	0	14	0	7	41	36
22	0	19	43	5	0	0	0	22	0	8	34	43
23	0	18	39	0	0	0	14	20	3	10	36	55
24	3	10	30	0	0	0	14	21	4	6	31	47
25	13	10	23	0	0	0	12	16	0	17	18	47
26	11	16	14	1	0	3	15	11	0	20	14	47
27	12	12	1	6	0	16	13	12	0	35	15	32
28	8	3	0	6	0	12	21	11	6	44	14	28
29	1	0	0	8	1	3	35	11	9	55	20	
30	0	0	0	13	5	12	41	11	10	47	21	
31	0		0		0	19		12		28	3	
Mean:	9.1	6.4	17.7	11.4	7.7	4.5	15.0	15.6	14.2	14.3	20.9	22.8

DAILY SOLAR FLUX AT 2800 Mc/s

OTTAWA-ARO

OBSERVED FLUX, S

Day	1965 Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.
1	76.5	71.2	71.1	70.8	76.0	72.0	75.4	92.0	78.8	75.4	82.0	79.9
2	75.3	71.6	70.8	73.7	75.6	73.0	75.9	93.2	79.5	75.0	78.9	79.2
3	75.0	71.3	70.7	75.2	76.2	77.3	76.6	96.0	81.1	74.9	78.5	79.8
4	75.0	71.0	69.7	78.2	75.9	78.4	76.7	97.5	79.8	74.5	80.5	81.3
5	76.1	70.7	69.0	78.3	75.4	76.3	78.7	91.6	78.0	75.4	80.0	82.9
6	76.7	70.9	70.4	78.4	78.5	78.8	77.1	85.2	80.7	76.2	79.7	84.5
7	77.0	70.7	71.4	77.2	81.5	79.6	77.7	83.6	85.2	75.3	80.9	85.1
8	74.5	70.5	72.0	78.4	81.0	77.3	78.6	82.8	80.4	76.7	80.6	84.6
9	73.0	71.7	72.4	79.0	81.4	77.6	76.1	83.3	82.0	75.0	80.1	85.2
10	73.1	73.1	72.1	78.3	80.3	76.1	75.6	80.4	84.1	75.3	79.8	86.0
11	71.9	73.7	71.1	76.5	79.9	76.7	75.7	76.0	84.2	75.6	80.9	85.8
12	73.5	73.3	71.8	76.0	78.2	75.9	75.3	74.8	80.8	75.9	84.0	85.4
13	75.6	73.6	74.4	76.8	76.3	74.8	75.0	75.8	77.3	74.0	87.2	86.1
14	74.6	75.3	75.4	76.1	74.7	73.7	75.2	74.7	76.0	74.7	93.2	86.1
15	72.7	75.0	80.5	76.7	74.5	72.5	74.9	73.8	76.5	76.8	101.9	85.4
16	71.3	74.6	86.3	76.0	72.1	73.8	73.7	72.3	74.0	77.6	106.0	84.7
17	71.6	73.2	91.1	76.3	71.9	72.4	73.8	72.5	74.3	78.4	101.7	84.1
18	75.0	73.0	90.4	78.2	71.9	73.2	73.0	72.2	75.0	78.4	104.8	84.1
19	77.0	74.1	92.4	74.9	72.5	74.3	72.8	71.8	73.4	76.8	108.6	83.0
20	74.4	72.4	94.7	76.0	73.0	73.7	72.8	72.7	72.7	74.5	102.3	84.7
21	74.0	73.0	92.8	75.9	72.6	73.6	72.5	73.3	72.2	74.1	98.9	87.6
22	72.7	72.7	92.2	78.2	71.5	72.9	71.2	76.2	71.8	72.3	94.7	87.9
23	73.0	73.2	86.2	80.2	70.9	73.0	71.8	78.7	71.3	72.7	93.5	84.5
24	72.5	70.8	85.1	78.1	70.1	72.7	76.1	76.3	71.2	71.2	91.8	83.7
25	73.8	69.6	81.0	79.3	70.0	72.2	75.8	77.9	70.6	72.1	88.1	80.9
26	73.3	69.1	77.9	78.7	69.4	72.0	77.0	78.2	71.8	76.9	85.4	84.8
27	72.1	69.2	76.0	77.7	70.0	74.5	78.4	78.0	74.1	83.7	82.4	84.8
28	71.7	69.5	74.5	76.7	70.6	73.2	80.5	77.2	77.0	83.8	80.5	85.7
29	72.0	70.2	73.7	76.4	71.1	74.2	87.3	76.7	73.9	84.7	80.7	
30	71.4	69.9	74.0	77.0	71.1	75.0	89.0	76.2	75.1	81.9	78.7	
31	71.6		71.6		70.7	74.9		78.1		80.8	77.7	
Mean:	73.8	71.9	78.1	77.0	74.3	74.8	76.3	79.6	76.8	76.5	87.9	84.2

FLUX ADJUSTED TO 1 A.U., S_0

Day	1965 Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.
1	75.1	71.1	72.2	72.8	78.6	74.2	76.8	92.2	77.6	73.3	79.3	77.6
2	74.0	71.5	71.9	75.8	78.2	75.2	77.3	93.3	78.2	72.9	76.3	76.9
3	73.7	71.3	71.9	77.4	78.8	79.6	77.9	96.1	79.8	72.7	75.9	77.5
4	73.8	71.1	70.9	80.5	78.5	80.7	78.0	97.5	78.4	72.3	77.8	79.0
5	74.8	70.8	70.2	80.6	78.0	78.5	80.0	91.6	76.7	73.2	77.4	80.6
6	75.5	71.0	71.7	80.7	81.2	81.1	78.3	85.1	79.2	74.0	77.1	82.1
7	75.8	70.8	72.7	79.5	84.3	81.8	78.9	83.5	83.7	73.0	78.2	82.8
8	73.4	70.7	73.4	80.7	83.8	79.5	79.8	82.6	78.9	74.4	77.9	82.3
9	71.9	71.9	73.8	81.4	84.1	79.8	77.2	83.0	80.4	72.7	77.4	82.9
10	72.1	73.4	73.5	80.7	83.0	78.2	76.7	80.1	82.4	73.0	77.2	83.8
11	70.9	74.1	72.5	78.9	82.6	78.8	76.7	75.7	82.5	73.2	78.2	83.6
12	72.6	73.7	73.3	78.4	80.8	77.9	76.3	74.5	79.1	73.5	81.2	83.2
13	74.6	74.0	76.0	79.2	78.8	76.7	75.9	75.4	75.7	71.7	84.3	83.9
14	73.7	75.8	77.0	78.5	77.2	75.6	76.1	74.3	74.4	72.4	90.1	83.9
15	71.9	75.5	82.3	79.1	77.0	74.4	75.7	73.3	74.8	74.4	98.5	83.3
16	70.5	75.1	88.3	78.4	74.5	75.6	74.5	71.8	72.4	75.1	102.6	82.7
17	70.8	73.8	93.2	78.7	74.3	74.2	74.5	72.0	72.6	75.9	98.4	82.1
18	74.3	73.7	92.6	80.8	74.3	75.0	73.7	71.6	73.3	75.9	101.4	82.2
19	76.3	74.8	94.6	77.4	74.9	76.1	73.4	71.2	71.6	74.3	105.1	81.1
20	73.8	73.1	97.0	78.5	75.4	75.5	73.4	72.0	70.9	72.1	99.0	82.8
21	73.4	73.7	95.1	78.4	75.0	75.3	73.1	72.6	70.5	71.7	95.7	85.7
22	72.1	73.5	94.5	80.7	73.9	74.6	71.7	75.4	70.0	70.0	91.8	86.0
23	72.5	74.0	88.4	82.8	73.2	74.6	72.3	77.9	69.5	70.3	90.6	82.7
24	72.0	71.6	87.3	80.7	72.4	74.3	76.6	75.5	69.3	68.8	88.9	81.9
25	73.4	70.4	83.1	81.9	72.3	73.8	76.2	77.0	68.8	69.7	85.4	79.3
26	73.0	70.0	80.0	81.4	71.7	73.5	77.4	77.3	69.9	74.4	82.7	83.1
27	71.8	70.2	78.1	80.3	72.3	76.0	78.7	77.0	72.1	80.9	79.9	83.2
28	71.4	70.5	76.5	79.3	72.9	74.7	80.8	76.2	74.9	81.0	78.1	84.1
29	71.7	71.2	75.8	79.0	73.4	75.7	87.6	75.6	71.9	81.9	78.3	
30	71.2	70.9	76.1	79.6	73.4	76.4	89.3	75.1	73.0	79.2	76.3	
31	71.4		73.6		73.0	76.3		76.9		78.1	75.4	
Mean:	73.0	72.4	79.9	79.4	76.8	76.6	77.2	79.1	75.1	74.1	85.0	82.1

CALCIUM PLAGE AND SUNSPOT REGIONS

FEBRUARY 1966

FEB. 1966	LAT.	McMATH PLAGE NUMBER	RETURN OF REGION	CALCIUM PLAGE DATA						SUNSPOT DATA		
				CMP VALUES		HISTORY	AGE (ROTATIONS)	DATE FIRST SEEN	DURATION (DAYS)	CMP VALUES		HISTORY
				AREA	INT.					AREA	COUNT	
1.3	N32	8153	New	(200)	(1.0)	b - d	1	1/29	3			
2.1	N26	8149(1)	New	(100)	(1.0)	b - d	1	1/27	1			
4.0	N17	8156(1)	New	(100)	(1.0)	b - d	1	1/31	1			
4.8	N25	8154	New	1500	3.0	ℓ - ℓ	1	1/29	≥ 12	(10)	(1)	b - d
6.7	N25	8157(3)	8117	(400)	(1.0)	ℓ ∧ d	3	1/31	10			
7.1	N06	8159	New	(100)	(1.0)	b - d	1	2/3	2			
7.3	N26	8158	New	2000	3.0	ℓ ∧ ℓ	1	1/31	14	100	8	b ∧ d
8.4	N25	8160(3)	8117	(500)	(1.0)	ℓ⌒d	3	< 2/3	> 8			
9.4	N17	8167	New	(100)	(1.5)	b ⌒ ℓ	1	2/13	3			
11.9	N17	8169(1)	New	(100)	(1.0)	b - d	1	2/15	1			
15.7	N19	8161(4)	8131	1500	2.0	ℓ ∧ ℓ	2	2/9	13			
16.2	N32	8165(1)	New	(300)	(1.0)	b - d	1	2/12	1			
16.6	N24	8162(4)	8131	1200	2.0	ℓ - ℓ	2	< 2/11	> 11			
17.0	N12	8163	8132	1300	2.5	ℓ ∧ ℓ	3	2/11	13			
18.8	N31	8166(5)	8133	(2000)	(3.5)	ℓ ∧ ℓ	2	2/12	13	(60)	(5)	b ∧ d
19.7	N34	8170(5)	8133	300	1.5	ℓ⌒d	2	< 2/15	> 9			
21.4	N22	8171(2)	New	1700	3.5	ℓ ∨ ℓ	1	2/15	13	120	28	b ∧ ℓ
21.7	S24	8172	8139	300	1.0	ℓ - d	2	2/15	9			
23.0	N21	8174	New	(800)	(3.5)	b ⌒ ℓ	1	2/20	10	16	14	b ∨ ℓ
23.1	N33	8178	New	(400)	(1.5)	b - d	1	2/25	3			
24.1	N45	8175(1)	New	(200)	(1.5)	b - d	1	2/20	1			
24.3	N09	8183(1)	New	(100)	(1.5)	b - d	1	2/26	1			
24.7	S07	8176	New	(200)	(1.5)	b - d	1	2/21	3			
24.8	S24	8173	New	(500)	(1.5)	b ∧ ℓ	1	2/19	12			
26.3	N20	8179(1)	New	(100)	(1.5)	b - d	1	2/25	1			
27.3	N18	8180	New	(200)	(1.0)	b - d	1	2/25	4			
27.7	N28	8177	New	800	2.5	b⌒ℓ	1	≤ 2/23	> 9	1	1	b ∧ d
28.2	S26	8181	New	(100)	(2.0)	b - d	1	2/25	2			
28.3	N25	8185	New	200	1.0	b - d	1	2/28	2			

(1) These small and ephemeral plages were seen on the disk for only one day.
(2) Region 8171 is a new plage that has developed in the same position as the small and short-lived plage region 8150, of the previous rotation.
(3) Regions 8157 and 8160 are parts of region 8117.
(4) Regions 8161 and 8162 are parts of region 8131.
(5) Regions 8166 and 8170 are parts of region 8133.

Note: No calcium plage observations were secured at the McMath-Hulbert Observatory on February 2, 6, 8, 10, 18, 22, and 24, 1966.

FEBRUARY 1966

FEB. 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	No Obs.				
2	1820	N36	E58	βγ	15992
3	1845	N36	E45	βf	15992
4	No Obs.				
5	1715	N36	E20	βf	15992
6-7	No Obs.				
8	2315	N35	W17	αf	15992
9	1615	N35	W27	αf	15992
10	No Obs.				
11	1700	N34	W56	βf	15992
12	No Obs.				
13	1715	N31	E66	βp	15993
14	1930	N30	E51	βγ	15993
15	1725	N31	E41	βp	15993
16	No Obs.				
17	1645	N31 N26	E12 E54	βp αf	15993 15994
18	2320	N31 N23	W05 E37	αp βp	15993 15994
19	1800	N31 N23	W12 E26	βp βp	15993 15994
20	1800	N31 N23 N22	W24 E12 E33	βp βγ β	15993 15994 15995
21-26	No Obs.				
27	1830	N23	W64	βp	15995
28*	1705	N23	E61	βp	15996

* No. 15995 on west limb on Feb. 28, but not measured.

PROVISIONAL CORONAL LINE EMISSION INDICES

FEBRUARY 1966

CMP Feb 1966	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	14	25	x	x	3	6	12	23	x	x	x	x	x	x	x	x
2	17	31	x	x	5	7	x	x	x	x	x	x	x	x	x	x
3	22	44	17	27	3	4	15	20	x	x	x	x	x	x	x	x
4	30	67	14	32	2	5	12	16	x	x	x	x	x	x	x	x
5	35	63	10	15	1	5	x	x	0	0	39	53	65	97	38	56
6	18	30	20	25	0	0	21	25	0	0	6	8	42	70	14	30
7	x	x	x	x	x	x	x	x	0	0	16	22	65	122	18	25
8	x	x	x	x	x	x	x	x	1	8	17	23	45	75	28	33
9	x	x	x	x	x	x	x	x	0	0	x	x	34	47	27	44
10	8	10	14	16	5	15	23	25	0	3	11	16	15	18	13	16
11	6	9	19	31	4	9	23	25	x	x	47	60	x	x	39	56
12	x	x	x	x	x	x	x	x	x	x	0	0	x	x	21	30
13	x	x	x	x	x	x	x	x	0	0	43	49	22	32	46	54
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	0	0	22	28	91	138	32	47
16	x	x	x	x	x	x	x	x	x	x	15	18	91	139	19	27
17	x	x	x	x	x	x	x	x	21	64	6	13	141	174	8	17
18	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
20	36	56	11	22	3	6	9	14	x	x	x	x	x	x	x	x
21	24	38	23	52	18	85	18	40	7	15	18	24	84	179*	60	87
22	14	18	32	73	21	69	34	49	7	17	12	18	85	165*	50	96
23	6	12	14	32	25	64	25	51	x	x	x	x	x	x	x	x
24	4	11	22	41	30	100	23	44	x	x	x	x	x	x	x	x
25	x	x	22	28	x	x	x	x	6	18	12	20	22	28	30	43
26	x	x	6	13	x	x	8	16	8	15	9	10	8	47	11	13
27	3	10	x	x	0	0	52	73	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x	5	8	13	17	45	12	12	16

x = no observation * = yellow line emission a = index computed from low weight data

SOLAR FLARES

FEBRUARY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 FEB	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
HALE	01	0040	0047	0041	N36	E85		8158		7	SF	1	C	0041	.10				H
HALE	01	1916	1924	1917	N39	E85		8158		8	SN	2	C	1917	.20				
KANZ	02	0737E	0814D		N35	E63		8158		37D	1N			0742			2.30		
WEND	02	0758E	0816		N36	E63		8158		18D	1N		VP		5.16				
CAPS	02	0801E	0830		N35	E68		8158		29D	2F	3		0815	2.50	7.00		153	
KANZ	02	0935E	0946D		N35	E63		8158		11D	1N								
KANZ	02	1043	1059		N35	E62		8158		16	SN								D
CAPS	02	1316	1326		N35	E66		8158		10	1N	2		1318	1.00	2.60		161	DGL
KANZ	02	1344E	1412		N35	E60		8158		28D	SN								E
HUAN	02	1506	1607	1525	N28	E28		8154		61	1N		C	1525	2.58	2.95			
SACP	02	1512	1620U	1524	N26	E27		8154		68U	1N		C		3.41	3.86			
CAPS	02	1514	1544		N21	E25		8154		30	1N	3		1527	3.10	3.90		194	EFGKL
HUAN	02	1514	1520	1516	N36	E61		8158		6	SF		C	1516	.62				D
HUAN	02	1734	1739	1736	N35	E60		8158		5	SF		C	1736	.26				D
LOCK	02	1830	1900	1840	N32	E22		8154		30	SN		C	1840	.20	.30		10	H
HALE	02	1832	1910	1839	N29	E25		8154		38	SF	2	C	1839	.20	.30			
HALE	02	2257	2311	2303	N35	E58		8158		14	SN	1	C	2303	.60				
HALE	02	2326	2359	2338	N38	E60		8158		33	1N	2	C	2338	.80				
HALE	03	0032	0040	0034	N35	E56		8158		8	SF	1	C	0034	.10				J
KANZ	03	0930E	0946		N35	E51		8158		16D	1N								
MANI	03	0932	0950D	0935	N36	E59		8158		18D	SN	2		0935	.52	1.10			
KANZ	03	0951	1014D		N35	E51		8158		23D	SN								EH
HUAN	03	1419	1424		N36	E50		8158		5	SF		P	1420	.21	.31			D
MANI	04	0542	0551	0544	N36	E47		8158		9	SN	2		0544	.31	.53			
IKOM	05	0125E	0225D	0135	N35	E33		8158		60D	SF		V	0135	.52	.80		75	D
OTTA	05	1529	1536D	1532	N18	E83				7D	1F		C	1532	1.00				
HALE	05	2047	2114	2101	N16	E80				27	SN	1	C	2101	.52				
SACP	05	2052	2109	2100	N14	E77				17	SF		C						
HALE	05	2106	2122	2109	N35	E18		8158		16	SF	1	C	2109	.10	.10			
KAND	07	1224	1242		N37	E03		8158		18	SF		C						
OTTA	07	1558	1713	1628	N27	W40		8154		75	1N		C	1628	1.78	2.74			JL
OTTA	07	1559	1650	1630	N25	W36		8154		51	SN		C	1630	.78	1.11			JL
MCMA	07	1605E	1700		N29	W38		8154		55D	1B		CV	1622	1.39	2.20			FJ
HUAN	07	1607E	1639D		N28	W40		8154		32D	SN		P	1621	1.25	1.55			C
KANZ	08	0923	0939		N36	W12		8158		16	SF								E
LOCK	08	1959	2005	2001	N24	W57		8154		6	SN		C	2001	.20	.40		10	
MCMA	09	1550	1601	1552	N20	E76		8161		11	SF		CV	1552	.21				D
HALE	09	1854	1908	1859	N37	W27		8158		14	SN	2	P	1859	.60	.90			H
KANZ	10	0734E	0806		N34	W39		8158		32D	1N								FH
CAPS	10	0758E	0810		N34	W37		8158		12D	1N	2		0804	1.20	2.00		167	B
ARCE	10	0912E	0935D		N35	W38		8158		23D	SN		C	0935	.34	.57			EH
CAPS	10	0946E	1006		N33	W37		8158		20D	2F	1		1002	4.50	7.40		159	BE
KANZ	10	1010E	1027		N33	W44		8158		17D	SF								D
HUAN	10	1600	1621	1613	N32	W40		8158		21	SN		C	1613	.31	.41			D
HUAN	10	1759	1833		N32	W40		8158		34	SF		C	1810	.21	.27			D
HALE	10	1805	1829	1810	N35	W42		8158		24	SN	2	C	1810	.60	1.10			
LOCK	10	1810	1828	1814	N33	W42		8158		18	SN		C	1814	.50	.90		10	
HALE	10	2109	2119	2112	N33	W45		8158		10	SN	1	C	2112	.31	.60			
MANI	11	0125	0157	0130	N35	W51		8158		32	SN	2		0130	.62	1.10			
KAND	11	1234	1302D		N30	W50		8158		28D	SF		V						
HUAN	11	1440	1455	1446	N33	W59		8158		15	SF		C	1446	.42				E
ARCE	11	1444E	1458D		N33	W57		8158		14D	SN		C	1445	.49	1.16			
CAPS	11	1444	1504		N34	W51		8158		20	2N	2		1455	2.40	5.30		180	G
SACP	11	1641	1700D	1654	N32	W57		8158		19D	1N		P			2.73			
OTTA	11	1641	1718D		N31	W59		8158		37D	2		C	1655	3.92				E
HUAN	11	1641	1725	1653	N33	W60		8158		44	1F		C	1653	1.35				E
MCMA	11	1645	1720	1700	N33	W57		8158		35	1N		CV	1700	1.44				F
LOCK	11	1645E	1735	1652	N32	W58		8158		50D	1N		C	1652	2.00	4.80		10	
LOCK	11	2335	0007	2343	N33	W60		8158		32	1N		C	2343	2.80	6.40		20	
MANI	11	2339	2359	2344	N35	W65		8158		20	1B	2		2344	2.49	5.22			
OTTA	12	1331	1347	1333	N32	E90		8166		16	1B		C	1333	.68				T
MCMA	12	1354E	1416	1403	N33	E90		8166		22D	SB		CV						E
OTTA	12	1402	1412	1404	N32	E90		8166		10	SB		C	1406	.23				
OTTA	12			1406															
MCMA	12	1428	1439	1433	N33	E90		8166		11	SB		CV						E
SACP	12	1429	1439U	1433	N31	E86		8166		10U	SN		C						
OTTA	12	1430	1437	1432	N32	E90		8166		7	1B		C	1432	.51				J
MCMA	12	1454	1503	1456	N33	E90		8166		9	SN		CV						E
MCMA	12	1526	1535	1529	N33	E90		8166		9	SN		CV						E
OTTA	12	1529	1536	1529	N30	E80		8166		7	SN		C	1529	.17				

SOLAR FLARES

FEBRUARY 1966

OBSERVATORY	OBSERVED UT DATE 1966 FEB	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
LOCK	12	1600E	1725	1600	N30	E85		8166		85D	SN		C	1600	.40	1.40		10	K
LOCK	12			1640															
MCMA	12	1620	1656	1638	N33	E90		8166		36	SB		CV						D
LOCK	12	1732	1807	1745	N30	E85		8166		35	SN		C	1745	.40	1.40		10	
LOCK	12	1820	1900	1840	N30	E85		8166		40	SN		C	1840	.40	1.40		10	
LOCK	12	1915	2005	1930	N30	E85		8166		50	SN		C	1930	.40	1.40		10	
MCMA	12	1953	1959	1955	N33	E88		8166		6	SN		CV						D
LOCK	12	2118	2135	2125	N30	E85		8166		17	SN		C	2125	.30	1.00		10	
HALE	12	2356	0012	0000	N32	W75		8158		16	1N	1	C	2400	.62				
MANI	13	0122	0132	0124	N28	E82		8166		10	SN	2		0124	.21	.50			
HALE	13	0354	0414D	0401	N33	W75		8158		20D	1B	1	P	0401	1.08				
ARCE	15	0835E	0940D	0850	N30	E46		8166		65D	SN		C	0850	.28	.50			H
KANZ	16	0923E	0931		N29	E31		8166		8D	SF								
ARCE	16	0925	0948	0935	N17	W90		8167		23	1N		C	0935	.35	2.02			
KANZ	16	1401E	1412D		N19	E08		8163		11D	SN								D
SACP	17	1555	1630	1608	N23	E53		8171		35	SF		C			.62			
HALE	17	1854	1903		N31	E14		8166		9	SN	1	P	1856	.26	.30			F
HALE	18	0102	0113	0105	N22	E49		8171		11	SN	1	C	0106	.31	.50			
KANZ	18	0854E	0915		N22	E42		8171		21D	1N								
KAND	18	0857	0925D		N24	E47		8171		28D	SN		C	0902		.72			
MANI	18	0906	0915	0908	N22	E46		8171		9	SN	2		0908	.31	.50			
OTTA	18	1409	1507	1418	N22	E39		8171		58	1N		C	1442	2.48	4.16			FHL
OTTA	18			1442															
KANZ	18	1432E	1500		N22	E38		8171		28D	1F								
MANI	19	0509	0517	0511	N31	W03		8166		8	SF	2		0511	.26	.31			
LOCK	19	2022	2029	2025	N34	W16		8166		7	SN		C	2025	.20	.30		10	
CAPS	20	1136E	1201		N23	E25		8171		25D	SF	1		1142	.60	.70		158	G
CAPF	20	1324E	1350D	1324	N21	E12		8171		26D	1N		SP	1324	4.12	4.78			
ONDR	20	1325	1347		N22	E10		8171		22	1N		V	1331			3.00		C
CAPS	20	1330	1337		N23	E24		8171		7	SF	1			.40	.50			
MCMA	20	1405E	1450		N22	E10		8171		45D	SN		CV	1405	.69	.80			BFHT
MCMA	20	1537	1730	1546	N22	E10		8171		113	SN		CV	1546	1.96	1.90			FHT
LOCK	20	1915	1952	1920	N34	W31		8166		37	SN		C	1934	.40	.60		10	HK
LOCK	20			1934															
MCMA	20	1920	2027D	1934	N22	E08		8171		67D	SF		CV	1934	.73	.70			EK
MCMA	20			2005															
LOCK	20	2335	2345	2338	N23	E07		8171		10	SN		C	2338	.20	.20		10	
LOCK	20	2352	0005	2357	N21	W02		8171		13	SN		C	2357	.40	.40		10	
SACP	21	0000	0024	0007	S27	E48		8173		24	SN		C			1.25			
MANI	21	0010E	0030	0012	S25	E48		8173		20D	SN	2		0012	.36	.60			
LOCK	21	1838	1850	1842	N19	W08		8171		12	SN		C	1842	.20	.20		10	
LOCK	21	2238	2249	2241	N17	E15		8174		11	SN		C	2241	.30	.30		10	H
LOCK	21	2342	2358	2345	N25	W06		8171		16	SN		C	2345	.20	.20		10	
MANI	22	0617E	0622D		N22	W11		8171		5D	SB	1		0618	1.13	1.10			
KANZ	22	0902E	0928D		N28	E70		8177		26D	1N								E
KANZ	22	0902E	0928D		N20	E09		8174		26D	1N								E
KANZ	22	0948E	0955		N23	W06		8171		7D	SN								D
KANZ	22	1009E	1035D		N28	E70		8177		26D	1N								E
KANZ	22	1016E	1033D		N31	W47		8166		17D	SF								D
KANZ	22	1020E	1103D		N20	E09		8174		43D	1N								
KANZ	22	1055E	1103D		N23	W06		8171		8D	SN								E
KANZ	22	1421E	1432D		N28	E68		8177		11D	□								
KANZ	22	1427E	1432D		N20	E05		8174		5D	SF								
LOCK	22	1857	1920	1903	N21	E04		8174		23	SN		C	1903	.40	.40		10	
LOCK	22	1915	1921	1917	N21	W24		8171		6	SN		C	1917	.50	.60		10	H
LOCK	22	2010	2035	2020	N31	E63		8177		25	SN		C	2020	.50	1.20		10	
LOCK	22	2110	2220	2130	N23	W24		8171		70	SN		C	2130	.20	.30		10	
LOCK	22	2126	2150	2133	N31	E63		8177		24	SN		C	2133	.30	.70		10	
LOCK	22	2151	2211	2158	N31	E63		8177		20	SN		C	2158	.20	.50		10	
LOCK	22	2259	0020	2310	N21	E02		8174		81	SN		C	2339	.90	1.00		10	K
LOCK	22			2339															
LOCK	22	2259	2320	2303	N29	E61		8177		21	SN		C	2307	1.10	1.60		20	K
LOCK	22			2307															
MANI	22	2307	2330	2311	N30	E70		8177		23	SN	2		2311	.52	1.15			
LOCK	23	0014	0028	0019	N30	E61		8177		14	SN		C	0019	.40	.90		20	
MANI	23	0143	0202	0149	N29	E69		8177		19	SN	2		0149	.36	.76			
CAPF	23	1243E	1310D	1243	N19	W03		8174		27D	1N		SP	1243	2.93	3.30			
MCMA	23	1455E	1515		N21	W08		8174		20D	SN		CV	1456	.52	.60			F
MCMA	23	1632	1700	1634	N21	W10		8174		28	SN		CV	1634	1.24	1.40			FT
ARCE	24	0845E	0915D	0900	N20	W22		8174		30D	SN		C	0900	.50	.60			H
ARCE	24	0850E	0905D	0855	N18	W11		8174		15D	SN		C	0855	.34	.39			D
MONT	24	0852	0930	0913	N22	W11		8174		38	SB								
CATA	24	0907E	1050D	0957	N21	W11		8174		103D	SN		C	0957	.35	.30		150	
ARCE	24	0930E	1000D	0940	N18	W11		8174		30D	SN		C	0940	.25	.28			
MONT	24	0953	1046	1000	N22	W11		8174		53	SB								
MONT	24	1109	1200		N22	W08		8174		51	1N								
HUAN	24	1351	1446D		N20	W22		8174		55D	SF		P	1424	1.25	1.31			E
CLMX	24	1508	1513	1509	N20	W17		8174		5	SF		C	1509	.40	.40			
SACP	24	1508	1516	1510	N19	W17		8174		8	SF		C			.52			
CLMX	24	1528	1541	1532	N21	W16		8174		13	SF		C	1532	.30	.30			

SOLAR FLARES

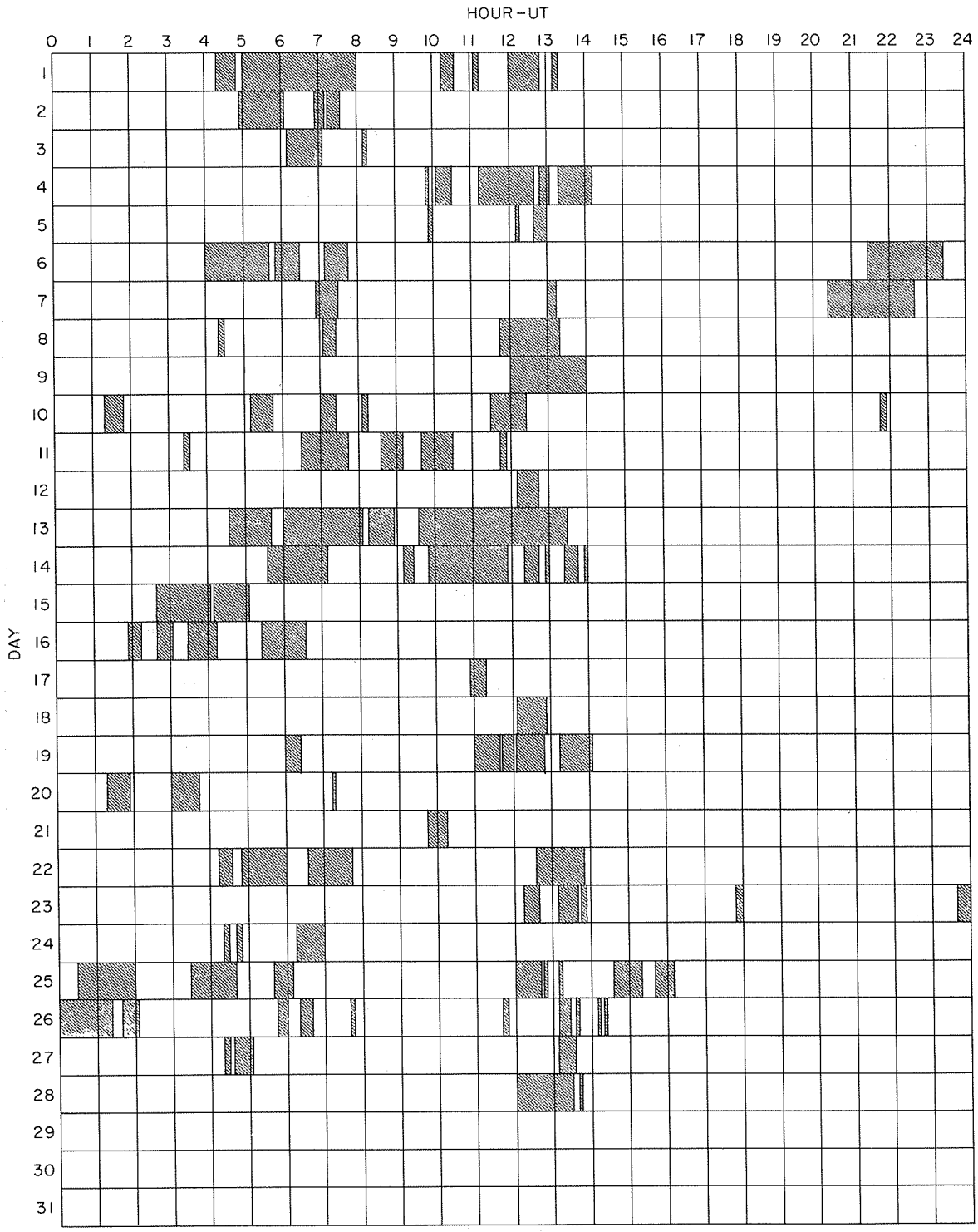
FEBRUARY 1966

OBSERVATORY	OBSERVED UT DATE 1966 FEB	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
HUAN	24	1650	1711D		N20	W26		8174		21D	SF		P	1655	.52	.55			E
LOCK	24	1818	1825	1821	N20	W20		8174		7	SN		C	1821	.20	.20		10	
IKOM	25	0610	0735D	0700	N30	W90		8166		85D	1B		V	0700			3.23	80	
KAND	25	1054	1100		N21	W24		8174		6	SN		VP						
KANZ	25	1326E	1333		N21	W61		8171		7D	SF								
HUAN	25	1411	1434		N19	W37		8174		23	SN		P	1416	.57	.66			F
CAPS	25	1420	1441D		N19	W32		8174		21D	SB	2		1424	.90	1.30		201	DK
LOCK	25	1655	1740	1715	N21	W64		8171		45	SN		C	1715	.40	.90		10	H
LOCK	25	1713	1727	1720	N21	W36		8174		14	SN		C	1720	.50	.70		20	
LOCK	25	2131	2155	2137	N21	W36		8174		24	SN		C	2137	.40	.60		10	
LOCK	25	2335	0000D	2352	N20	W39		8174		25D	SN		C	2352	.80	1.20		20	
KANZ	26	0809E	0834		N20	W46		8174		25D	SF								E
KAND	26	0818	0824		N19	E42				6	SF		P						
KAND	26	0827	0833		N19	E41				6	SN		C						
KAND	26	0831	0858		N17	E46				27	SF		C						
KAND	26	1000	1028		N19	E44				28	SB		C	1012		1.87			
ARCE	26	0937E	0959D	0952	N20	W51		8174		22D	SN		C	0952	1.00	1.78			H
ARCE	26	0937E	0959D		N22	W46		8174		22D	SN		C	0959	.48	.76			E
CAPF	26	1004E	1015D	1004	N21	W48		8174		11D	1N		SP	1004	1.76	3.20			
CAPS	26	1008E	1029		N18	W44		8174		21D	SB	2		1014	.80	1.10		288	F
CATA	26	1009E	1035D	1010	N19	W48		8174		26D	1B		C	1010	1.63	2.80		220	
KANZ	26	1010E	1014D		N21	W46		8174		4D	SB								D
HUAN	26	1326E	1332D		N19	W52		8174		6D	SF		VP	1326	.21	.29			D
LOCK	26	1920	1931	1926	N20	W48		8174		11	SN		C	1926	.20	.30		10	
LOCK	26	2008	2022	2013	N18	W56		8174		14	SN		C	2013	.40	.80		10	
MCMA	26	2017E	2022D		N19	W53		8174		5D	SN		PS	2018	.52	1.00			E
LOCK	26	2105	2118	2110	N20	W68		8171		13	SN		C	2110	.30	.60		10	
LOCK	26	2105	2200	2118	N17	W58		8174		55	SN		C	2118	.40	.80		10	
LOCK	26	2315	2339	2323	N18	W57		8174		24	SN		C	2323	.40	.80		10	
LOCK	26	2351	0002	2354	N18	W57		8174		11	SN		C	2354	.30	.60		10	
MANI	27	0044	0100	0047	N22	W52		8174		16	SB	2		0047	1.03	1.10			
KANZ	27	1345E	1404		N20	W60		8174		19D	1F								E
HUAN	27	1356E	1611D		N22	E72		8184		135D	□			1435	.31				
HUAN	27	1419E	1434D		N20	W60		8174		15D	SF		P	1425	.52	.83			E
HUAN	27	1453E	1518		N20	W63		8174		25D	SF		P	1501	.36				D
HUAN	27	1543	1548D		N20	W60		8174		5D	SF		P	1545	.42	.67			E
LOCK	27	1600E	1615	1602U	N21	W63		8174		15D	SN		C	1602	.30	.70		10	
LOCK	27	1705	1725	1715	N25	E77		8184		20	SN		C	1715	.30	.90		10	
OTTA	27	1706	1723	1709	N22	E64		8184		17	SF		C	1709	.28				JT
MCMA	27	1711E	1712D		N24	E80		8184		1D	SN		PS	1712	.21				D
OTTA	27	1735	1745	1739	N23	E65		8184		10	SF		C	1739	.29				JKT
OTTA	27			1741															
LOCK	27	1735	1747	1739	N25	E77		8184		12	SN		C	1739	.20	.60		10	
LOCK	27	1745	1755	1749	N18	W67		8174		10	SN		C	1749	.50	1.20		10	
LOCK	27	1805	1830	1817	N25	E77		8184		25	SN		C	1817	.20	.60		10	
LOCK	27	1930	1950	1935	N19	W66		8174		20	SN		C	1935	.20	.50		10	
LOCK	27	1935	2000	1940	N25	E77		8184		25	SN		C	1940	.30	.90		10	
LOCK	27	2107	2115	2110	N22	W90		8171		8	SN		C	2110	.40	1.60		10	
LOCK	27	2107	2155	2115	N24	E75		8184		48	SN		C	2115	.50	1.50		10	
LOCK	27	2128	2143	2136	N20	W68		8174		15	SN		C	2136	.30	.70		10	
LOCK	27	2145	2213	2153	N20	W68		8174		28	1N		C	2153	.90	2.20		20	
LOCK	27	2240	2300	2248	N24	E75		8184		20	SN		C	2248	.40	1.20		10	
MANI	27	2331E	2410	2341	N23	E77		8184		39D	1N	2		2341	1.50	3.57			
IKOM	28	0040	0250		N21	E70		8184		130	1N		V	0145	1.24	4.00	1.46	95	D
MANI	28	0045	0107	0051	N23	E76		8184		22	SN	2		0051	.60	1.40			
MITK	28	0351	0425	0403	N17	W70		8174		34	1N		C	0403	.93				
MANI	28	0352	0513	0404	N22	W70		8174		81	2N	2		0404	2.50	5.50			
IKOM	28	0455	0720		N21	E70		8184		145	1F		V	0515	1.03	3.30		80	DH
KAND	28	0755E	0828		N20	W66		8174		33D	SN		C						
CATA	28	0805E	0830D	0806	N21	W70		8174		25D	SN			0806	.38			150	
ARCE	28	0815E	0825D	0820	N22	W75		8174		10D	SN		C	0820	.12	.34			D
MANI	28	0816	0848D	0822	N22	W72		8174		32D	1F	2		0822	1.40	3.10			
ARCE	28	0840E	0900D		N22	W75		8174		20D	SN		C	0900	.12	.34			D
KANZ	28	0843E	0910D		N20	W70		8174		27D	SB			0848			2.40		D
KAND	28	0851	0906		N19	W66		8174		15	SN		C						
KANZ	28	0939E	1022		N20	W70		8174		43D	1N			0941			2.00		
MONT	28	1001	1005D	1005	N24	W72		8174		4D	1N								
MONT	28	0955	1016	0956	N29	W10		8177		21	1N								
HUAN	28	1405E	1408D		N20	W80		8174		3D	SF		P	1406	.31				E
KANZ	28	1507E	1529		N20	W73		8174		22D	1N								
MCMA	28	1517	1528	1522	N20	W80		8174		11	SN		CV	1522	.42				D
LOCK	28	1610	1645	1620	N19	W85		8174		35	SN		C	1620	.30	1.00		10	
LOCK	28	1650	1715	1657	N18	W85		8174		25	1N		C	1657	1.00	3.00		20	H
MCMA	28	1654	1656D		N20	W80		8174		2D	SN		PS	1655	.42				D
LOCK	28	1745	1810	1755	N19	W85		8174		25	SN		C	1755	.30	1.00		10	H
CLMX	28	1833	1847	1840	N24	W87		8174		14	SN		C	1840	.50	1.35			
LOCK	28	1841E	1848	1841E	N18	W85		8174		7D	SN		C	1841	.50	1.70		10	H
LOCK	28	1930	2000	1940	N19	W85		8174		30	SN		C	1940	.50	1.70		10	H
LOCK	28	2025	2047	2032	N19	W85		8174		22	1N		C	2032	.60	2.00		20	H
CLMX	28	2027	2043	2034	N22	W86		8174		16	SN		C	2034	.50	1.35			
LOCK	28	2050	2117	2107	N18	W85		8174		27	1N		C	2107	.80	2.70		20	H
CLMX	28	2102	2115	2111	N22	W86		8174		13	SN		C	2111	.40	1.08			
CLMX	28	2128	2142	2134	N22	W86		8174		14	SN		C	2134	.40	1.08			
LOCK	28	2128	2144	2134	N18	W85		8174		16	SN		C	2134	.40	1.40		10	H
CLMX	28	2142	2220	2157	N22	W86		8174		38	SN		C	2157	.30	.81			
LOCK	28	2148	2218	2153	N18	W85		8174		30	1N		C	2201	.70	2.40		20	HK
LOCK	28			2201															
MANI	28	2257E	0010	2304	N22	W85		8174		73D	1N	2		2304	1.67	5.05			

IIId

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

FEBRUARY 1966



Observatories included:

Arcetri	Haleakala	Istanboul	Manila	Monte Mario
Capri F (German)	Herstmonceux	Kandilli	McMath-Hulbert	Ondrejov
Catania	Huancayo	Kanzelhöhe	Meudon	Ottawa
Climax	Ikomasan	Lockheed	Mitaka	Sacramento Peak
				Wendelstein

SOLAR FLARES

NOVEMBER 1965

OBSERVATORY	DATE 1965 NOV	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION McMATH PLAGE REGION	LOCATION CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT.	REMARKS
	01	0455	0500	NO FLARE PATROL															
MANI	01	0513	0543	0517	N09	W08		8042			1-	2		0517	.20	.20			
LOCA	01	1350E	1405		N33	E73		8051		15D	1		S						
HUAN	01	1353E	1359		N31	E80		8051		6D	1-		P	1355	.45				CE
SACP	01	1353	1400	1354	N33	E74		8051			1-		C		.68	1.45		19	
MCMA	01	1354	1404	1355	N33	E78		8051			1-	2	C	1355	.30	1.50			
KANZ	01	1455E	1515		N33	E73		8051			1-								
	02	0110	0150	NO FLARE PATROL															
	02	0230	0235	NO FLARE PATROL															
	02	0315	0420	NO FLARE PATROL															
	02	0440	0630	NO FLARE PATROL															
MANI	02	0513E	0514D		N09	W24		8042			1-	1		0514	.40	.40			
KANZ	02	0749E	0820D		N08	W22		8042			1-								
KANZ	02	0915	0930D		N08	W22		8042			1-								
KANZ	02	0943E	0950D		N09	W23		8042			1-								
KAND	02	1106E	1206		N09	W23		8042			1-			1135		.49			
HUAN	02	1121	1149	1140	N09	W24		8042		28	1-		C	1140	.95	.95			E
CATA	02	1124	1150	1134	N08	W24		8042		26	1-		C	1134	1.07	1.18		148	
CAPS	02	1135	1143		N10	W26		8042		8	1	3		1140	2.50	2.80		140	FI
KANZ	02	1440E	1517D		N09	W27		8042		37D	1								
MANI	02	2216	2243	2220	N09	W35		8042			1-	2		2220	.40	.40			
MANI	03	0017	0026	0020	N12	W38		8042			1-	2		0020	.30	.30			
CULG	03	0719	0745D	0727	N08	W35		8042			1-		P	0727	.80	1.00			
ONDR	03	0723E	0747		N09	W37		8042		24D	1	3		0725			2.00		C
MANI	03	0724	0758	0730	N12	W42		8042			1-	2		0730	1.40	1.60			
MANI	03			0742															
CAPS	03	0734E	0750		N08	W36		8042			1-	3		0740	1.20	1.50		147	
KAND	03	0740E	0910		N09	W34		8042			1-			0745		.80			
UCCL	03	1035E	1156		N10	W43		8042		81D	1-	2							EK
HUAN	03	1258E	1348D		N10	W50		8042		50D			C	1318	.30	.39			
HUAN	03	1407	1428	1413	N09	W28		8042		21	1-		C	1413	.57	.57			E
CAPS	03	1410	1425D		N08	W40		8042			1-	1		1417	1.00	1.30		190	F
MCMA	03	1412	1421	1415	N11	W40		8042			1-	1	C	1415	.50	.70			E
OTTA	03	1413	1420D		N11	W40		8042			1-	1	C	1419	1.02	1.15			
OTTA	03	1635	1640	1636	N10	W41		8042			1-	1	C	1636	.58	.66			
HUAN	03	1711	1721	1714	N10	W50		8042		10	1-		C	1714	.20	.26			D
UCCL	04	1146	1148		N10	W57		8042		2	1-	3							D
LOCK	04	2333	2350	2338	N27	E27		8051			1-		C	2338	.40	.40		10	
CULG	04	2335	2345	2338	N28	E29		8051			1-		C	2338	.40	.50			G
SACP	04	2335	2347U	2338	N28	E29		8051			1-		C		.72	.78		19	
	05	0010	0025	NO FLARE PATROL															
	05	0430	0440	NO FLARE PATROL															
	05	0445	0455	NO FLARE PATROL															
MCMA	05	1420	1625		N28	E19		8051			1-	2	C	1515	.40	.40			EHK
OTTA	05	1445E	1451D		N27	E18		8051			1-	1	C	1449	.23	.24			
CAPS	05	1447	1505		N28	E18		8051			1-	3		1452	.30	.30		180	G
	06	0620	0630	NO FLARE PATROL															
WEND	06	0704E	0752		N27	E09		8051		48D	1				4.00				
CAPE	06	0713	0734	0720	N28	E10		8051		21	1-			0720	1.20	1.30			
ONDR	06	0713	0838		N25	E09		8051		85	1+	2		0724			2.10		CFHJK
CAPS	06	0729E	0738		N28	E09		8051		9D	1	2		0735	1.80	2.00		158	BI
ARCE	06	0842E	0906D		N28	E08		8051		24D	1-	2		0848	.59	.66			
UCCL	06	0956	1022		N29	E13		8051		26	1-	3							E
CAPS	06	1003	1015		N30	E10		8051			1-	3		1012	.30	.30		200	EI
MCMA	06	1424E	1425D		N28	E07		8051			1-	2	P	1425	.20	.20			DH
OTTA	06	1724	1745D		N28	E07		8051			1-	1	C	1744	.91	.92			
LOCK	06	1727U	1745	1735	N27	E05		8051			1-		C	1735	.30	.30		10	
LOCK	06	1755	1840	1816	N27	E05		8051			1-		C	1816	.70	.70		10	K
SACP	06	1757	1838	1820	N28	E04		8051		41	1		C		2.95	2.97		20	
LOCK	06	1817	1830	1820	N30	E40		8056			1-		C	1820	.20	.20		10	
LOCK	06	1900	1912	1905	N30	E40		8056			1-		C	1905	.30	.30		10	
MCMA	06	1914E	1941D		N28	E10		8051			1-	2	P	1928	.70	.80			EH
LOCK	06	2035	2100	2042	N28	E15		8051			1-		C	2042	.60	.60		20	
HALE	06	2037E	2102	2040	N28	E03		8051			1-	1	P	2040	.40	.40			F
CULG	06	2041	2101D	2043	N30	E03		8051			1-		P	2043	.40	.44			H
SACP	06	2044E	2054D	2048	N29	E03		8051			1-		C		1.09	1.10		14	
LOCK	06	2050	2110	2055	N29	E02		8051			1-		C	2055	.20	.20		10	
CULG	06	2053	2101D	2058	N30	E40		8056			1-		P	2058	.30	.42			GH
LOCK	06	2215	2245	2225	N28	E01		8051			1-		C	2225	.50	.50		10	
LOCK	06	2317	2335	2322	N30	E38		8056			1-		C	2322	.40	.40		20	
CULG	06	2322	2335	2327	N29	E38		8056			1-		C	2327	.30	.43			GH
LOCK	06	2352	0007D	2359	N28	E02		8051			1-		C	2359	.80	.80		20	
	07	0055	0110	NO FLARE PATROL															
CULG	07	0110E	0150D	0141	N26	E03		8051			1-		P	0141	.90	.99			FKLT

SOLAR FLARES

NOVEMBER 1965

OBSERVATORY	DATE 1965 NOV	OBSERVED UT START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
MANI	07	0113	0123D	0120	N27	E02		8051		10D	1	1		0120	3.70	3.70			
	07	0125	0210	NO FLARE PATROL															
CULG	07	0241	0248	0242	N30	E00		8051			1-		C	0242	.30	.33			HT
	07	0305	0355	NO FLARE PATROL															
CULG	07	0355	0440	0404	N28	W02		8051			1-		P	0404	.40	.44			LT
CULG	07	0445	0625	0612	N26	W03		8051			1-		C	0612	.80	.88			HKLT
CULG	07	0710	0734D	0714	N27	W04		8051		24D	1+		P	0714	2.20	2.42			T
CAPE	07	0710	0738	0713	N28	W04		8051		28	1			0713	3.40	3.70			
MANI	07	0713E	0716D		N27	W01		8051		3D	1	1		0716	2.60	2.60			
CAPE	07	0826	0837	0828	N28	W05		8051		11	1-			0828	1.20	1.30			
KANZ	07	0826E	0843D		N26	W06		8051		17D	1								F
ARCE	07	0830E	0835D		N30	W01		8051		5D	1-	2		0830	.69	.77			
CAPS	07	1000	1007		N26	W06		8051			1-	3		1003	.30	.30		135	I
KANZ	07	1000E	1010D		N25	W05		8051		10D	1								
UCCL	07	1001	1011		N28	W03		8051		10	1-	3							D
MEUD	07	1002	1026	1007	N27	W04		8051			1-		C	1007	.70	.80			
UCCL	07	1018	1020		N30	W06		8051		2	1-	3							D
UCCL	07	1040	1052		N33	W00		8051		12	1-	3							D
MEUD	07	1042	1100	1046	N30	E01		8051			1-		C	1046	.60	.70			
UCCL	07	1050	1059		N30	W04		8051		9	1-	3							D
KANZ	07	1050E	1108		N33	E01		8051			1-								D
KANZ	07	1050E	1124D		N28	W03		8051			1-								D
MEUD	07	1110	1125	1111	N26	W09		8051			1-		C	1111	.40	.50			E
UCCL	07	1116	1122		N30	W04		8051		6	1-	3							D
UCCL	07	1116	1122		N29	W06		8051		6	1-	3							D
KANZ	07	1116E	1124D		N26	W05		8051			1-								E
KANZ	07	1116E	1124D		N26	W09		8051			1-								D
MEUD	07	1144	1152	1146	N28	W06		8051			1-		C	1146	1.30	1.50			
HUAN	07	1246	1306	1247	N28	W03		8051		20	1-		C	1301	.87	.87			D
HUAN	07			1301															
MEUD	07	1247	1255	1250	N26	W05		8051			1-		C	1250	1.80	2.00			
MEUD	07	1302	1335D	1310	N27	W07		8051			1-		C	1310	1.60	1.80			
KANZ	07	1317E	1329D		N26	W06		8051			1-								D
KANZ	07	1340	1350D		N33	W01		8051			1-								D
HUAN	07	1341	1403	1344	N32	W05		8051		22	1-		C	1344	.25	.25			D
MEUD	07	1342	1355	1352	N34	W05		8051			1-		C	1352	.70	.80			
HUAN	07	1410	1416	1413	N28	W07		8051		6	1-		C	1413	.37	.37			D
MEUD	07	1412	1420	1413	N27	W08		8051			1-		C	1413	.60	.70			
HUAN	07	1434	1438	1436	N27	W07		8051		4	1-		C	1436	.32	.32			D
KANZ	07	1435E	1522D	1456	N26	W05		8051		47D	1			1456			2.20		F
MEUD	07	1436	1510D	1451	N28	W08		8051		34D	1		C	1451	2.00	2.20			
HUAN	07	1445	1503D	1449	N28	W07		8051		18D	1-		P	1449	1.00	1.00			E
SACP	07	1446U	1522	1452U	N28	W06		8051			1-		C		1.13	1.14		21	
CAPS	07	1451E	1526D		N28	W06		8051		35D	1	1		1456	2.00	2.20		250	I
HUAN	07	1527E	1536D		N28	W09		8051		9D	1-		P	1530	1.30	1.30			E
SACP	07	1558	1629D	1606	N27	W09		8051		31D	1		C		3.70	3.74		23	
HUAN	07	1602E	1633D		N28	W09		8051		31D	1		P	1609	1.80	1.80			E
LOCK	07	1605E	1640	1605U	N27	W09		8051			1-		C	1605	1.10	1.10		20	
MCMA	07	1615E	1638D		N28	W10		8051		23D	1	2	P	1620	2.00	2.20			E
HUAN	07	1704	1752D	1707	N28	W08		8051		48D	1		C	1730	2.20	2.20			E
HUAN	07			1730															
LOCK	07	1705U	1805	1725	N27	W10		8051			1-		C	1725	2.00	2.00		20	K
SACP	07	1728E	1800U	1736U	N27	W08		8051			1-		P		1.84	1.86		20	
MCMA	07	1732E	1758D		N28	W10		8051		26D	1	2	P	1733	2.70	3.00			E
SACP	07	1853	1911	1901	N27	W11		8051			1-		C		.62	.63		17	
HUAN	07	1854	1911	1858	N29	W11		8051		17	1-		C	1858	.30	.30			D
LOCK	07	1855	1915	1900	N27	W11		8051			1-		C	1900	.50	.50		20	
SACP	07	1921	1941U	1933	N28	W09		8051			1-		C		.84	.85		18	
CLMX	07	1959	2031D	2015	N28	W09		8051		32D	1		C	2015	2.40	2.40			
CULG	07	2000E	2029D	2015	N27	W11		8051		29D	1+		P	2015	2.80	3.08			T
LOCK	07	2000U	2045	2015	N27	W11		8051			1-		C	2015	2.00	2.00		20	
SACP	07	2001E	2045U	2019U	N27	W10		8051		44D	1		P		3.20	3.24		20	
CULG	07	2111	2128	2115	N28	W07		8051			1-		C	2115	.60	.66			HT
CULG	07	2159	2315	2238	N26	W12		8051			1-		C	2238	1.80	1.98			HKT
LOCK	07	2230	2310U	2240U	N27	W11		8051			1-		C	2240	1.50	1.50		20	
SACP	07	2234	2304U	2241	N27	W11		8051		30U	1		C		2.77	2.80		20	
CLMX	07	2234	2306D	2234	N28	W09		8051		32D	1		C	2234	2.30	2.30			
LOCK	07	2330	2345D	2338	N27	W13		8051			1-		C	2338	.80	.80		20	
HALE	07	2330E	2352		N28	W13		8051			1-	1	P	2336	.60	.60			F
VORO	07	2331	2343	2333	N26	W15		8051		12	1+		C	2333	1.62	1.81		89	DJ
CULG	07	2331	2400D	2332	N26	W14		8051		29D	1		P	2332	2.40	2.52			KT
MANI	07	2343E	2400		N27	W16		8051		17D	1	2		2345	3.00	3.00			
SACP	07	2344E	2346D	2344U	N27	W14		8051			1-		P		.60	.61		18	
VORO	08	0006	0042	0016	N26	W15		8051		36	1+		C	0016	1.80	2.02		89	DJ
MANI	08	0008	0033	0020	N27	W16		8051		25	1	2		0020	3.00	3.00			
CULG	08	0013E	0118D	0015	N27	W15		8051		65D	1		P	0015	2.00	2.10			T
MANI	08	0237	0303	0244	N27	W16		8051			1-	2		0244	1.70	1.70			
CULG	08	0243	0312	0245	N27	W14		8051			1-		C	0245	.60	.66			FT
CATA	08	0805E	0815D	0808	N29	W16		8051		10D	1-	3		0808	.57	.65		174	

SOLAR FLARES

NOVEMBER 1965

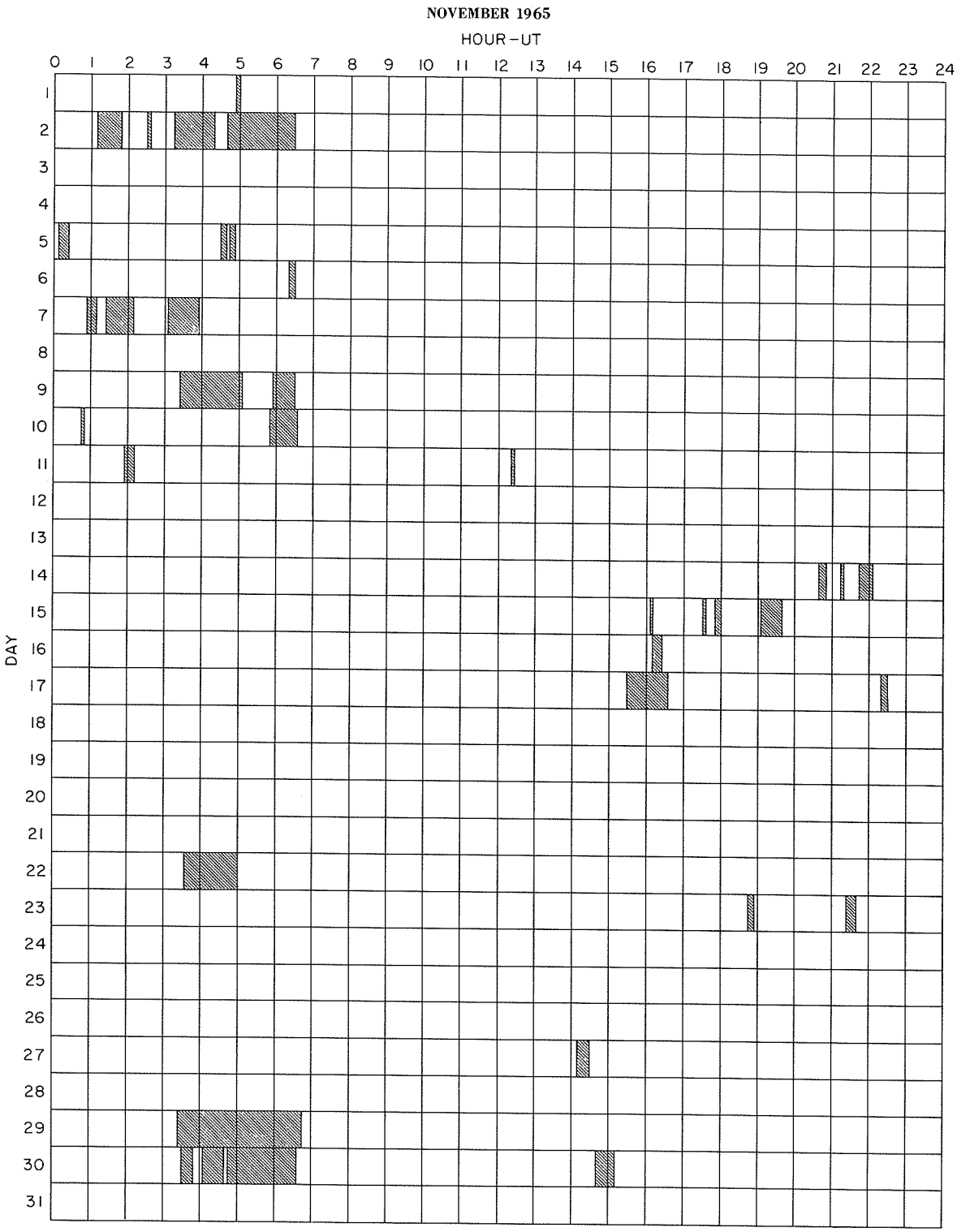
OBSERVATORY	DATE 1965 NOV	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT.	REMARKS
CAPE	08	0807	0826	0811	N29	W17		8051		19	1-			0811	1.60	1.80			
BUCA	08	0808	0822		N28	W17		8051		14	1	2				2.53			
ARCE	08	0810E	0825D		N29	W12		8051		15D	1-	3		0810	.52	.59			
ARCE	08	0810E	0825D		N29	W18		8051		15D	1-	3		0810	.59	.69			
KANZ	08	0845	0852		N27	W14		8051			1-								D
UCCL	08	0929	0934		N27	W23		8051		5	1-	3							D
UCCL	08	1007	1017D		N18	W19		8058		10D	1-	3							D
KAND	08	1015E	1021D		N30	W11		8051			1-								
KANZ	08	1031E	1053		N26	W20		8051			1-								EH
KAND	08	1048	1110		N28	W18		8051			1-			1057		.55			
KAND	08	1052	1124		N31	W14		8051			1-			1100		.68			
KANZ	08	1053	1058D		N31	W16		8051			1-								DH
CAPS	08	1110	1118D		N27	W15		8051			1-	3		1114	.30	.30		155	I
UCCL	08	1111	1115D		N20	W16		8058		4D	1-	2							D
KAND	08	1234	1304D		N28	W13		8051			1-			1238		.48			
CAPS	08	1313E	1322		N28	W15		8051			1-	3		1316	.20	.20		145	I
CAPE	08	1313	1322	1315	N29	W18		8051		9	1-			1315	1.10	1.30			
LOCA	08	1316E	1327		N28	W15		8051		11D	1		S						
KANZ	08	1353	1401D		N29	W15		8051			1-								D
KANZ	08	1412	1417		N29	W15		8051			1-								D
KANZ	08	1428	1505		N26	W20		8051		37	1								EH
LOCK	08	2028	2045	2032	N32	W19		8051			1-		C	2032	1.50	1.50		10	
CLMX	08	2031	2038	2032	N32	W20		8051		7	1-		C	2032	.60	.66			
LOCK	08	2154	2210	2157	N28	W21		8051			1-		C	2157	.30	.30		20	E
MANI	09	0156E	0158		N28	W21		8051			1-	1		0157	.20	.20			
	09	0325	0505	NO FLARE PATROL															
	09	0555	0630	NO FLARE PATROL															
ARCE	09	0805E	0815D		N29	W31		8051		10D	1-	1		0805	.69	.89			
BUCA	09	0807	0818		N28	W27		8051		11	1-	1				.68			
MANI	09	0808	0818	0811	N28	W24		8051			1-	2		0811	1.00	1.00			
KAND	09	0830	0845		N27	W25		8051			1-								
KANZ	09	1342E	1357D		N24	E25		8056		15D	1								DH
	10	0045	0050	NO FLARE PATROL															
	10	0550	0635	NO FLARE PATROL															
ABST	10	0741E	0808D	0747	N25	E16		8056		27D	1-		C	0747	3.90	2.20			DJ
KAND	10	0815	0857		N24	E18		8056		42	1			0825		1.64			
KAND	10	1002	1008		N27	W49		8051			1-								
KAND	10	1158	1208		N29	W39		8051			1-			1201		.32			
KAND	10	1212	1235D		N25	W44		8051			1-								
HUAN	10	1617	1627	1620	N28	W44		8051		10	1-		C	1620	.37	.44			E
LOCK	10	1646	1702	1654	N53	W43					1-		C	1654	.20	.30		10	
LOCK	10	1736	1755	1741	N28	W44		8051			1-		C	1741	.70	.70		10	
HUAN	10	1737	1744	1738	N28	W44		8051		7	1-		C	1738	.20	.24			D
LOCK	10	1907	1921	1911	N28	W44		8051			1-		C	1911	1.60	1.60		20	
LOCK	10	2130	2152	2140	N26	E06		8056			1-		C	2140	.20	.20		10	
	11	0155	0210	NO FLARE PATROL															
MANI	11	0311	0321	0315	N27	W55		8051			1-	2		0315	.20	.30			
MANI	11	0523	0540	0528	N26	W56		8051			1-	2		0528	.20	.30			
MANI	11	0733	0738	0735	N27	W50		8051			1-	2		0735	.40	.60			
ISTA	11	0810	0840		N29	W49		8051		30	1+								
KAND	11	0816	0821		N31	W49		8051			1-			0820		.77			
MANI	11	0831	0839	0834	N27	W50		8051			1-	2		0834	.40	.60			
ARCE	11	0945E			N28	W55		8051			1-	2		0945	.32	.56			
ARCE	11	0945E	1000D		N28	W60		8051		15D	1-	2		0945	.56	1.06			
HUAN	11	1053	1102	1057	N29	W53		8051		9	1-		C	1057	.30	.42			E
LOCA	11	1059E	1105		N30	W51		8051		6D	1		S						H
HUAN	11	1146	1209	1150	N26	E02		8056		23	1-		C	1150	.72	.72			E
CATA	11	1148	1214	1156	N27	E02		8056		26	1-		C	1156	.22	.24		128	
	11	1220	1225	NO FLARE PATROL															
HUAN	11	1426	1439	1432	N25	E03		8056		13	1-		C	1432	.32	.32			D
MANI	12	0113	0120	0115	N28	W60		8051			1-	2		0115	.40	.70			
IKOM	12	0116			N28	W61		8051			1		P						DO
MITK	12	0845E	0848		N30	W55		8051		3D	1		V	0845	.49	.92	1.95	85	DH
SACP	12	1403	1410	1408	N27	W69		8051			1-		C		.38	.72		18	
HUAN	12	1406	1410	1408	N27	W73		8051		4	1-		C	1408	.25				E
HUAN	12	1521	1539		N02	E85		8061		18	1-		C	1530	.30				D
SACP	12	1521	1543	1530	N02	E78		8061			1-		C		.50	1.27		18	
SACP	12	1804	1856U	1822	N26	W20		8056			1-		C		.46	.47		18	
HUAN	12	2013	2024	2014	N25	W77		8051		11	1-		C	2016	.37				D
CULG	13	0358	0414D	0403	N32	E02					1-		P	0403	.20	.23			G
CULG	13	0534	0552	0536	N33	E01					1-		C	0536	.20	.23			G
MANI	13	0542	0552	0544	N32	W01					1-	2		0544	.30	.30			
CULG	13	0553	0608	0601	N26	W23		8056			1-		C	0601	.20	.23			
MANI	13	0555	0608	0600	N24	W22		8056			1-	2		0600	.50	.50			
CULG	13	0613	0633	0621	N26	W23		8056			1-		C	0621	.80	.92			

SOLAR FLARES

NOVEMBER 1965

OBSERVATORY	DATE 1965 NOV	OBSERVED UT START	OBSERVED UT END	MAX. PHASE	LOCATION APPROX. LAT.	LOCATION MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT.	REMARKS
MANI	13	0617	0626	0621	N24	W22		8056			1-	2		0621	1.10	1.10			
MANI	13	0816	0821	0818	N32	W03					1-	2		0818	.20	.20			
ARCE	13	0915E	0925D		N26	W35		8056		10D	1-	1		0920	.65	.86			
ARCE	13	0915E	0940D		N27	W22		8056		25D	1-	1		0940	.85	1.01			
CULG	14	0119	0139D	0121	N08	W57					1-		P	0121	.20	.36			GL
MANI	14	0303	0314	0306	N27	W90		8051		11	1	2		0306	1.00	5.00			
ARCE	14	0800E	0810D		N32	W90		8051		10D	1-	2		0800	.20	1.14			
ARCE	14	0915E	1000D		N32	W90		8051		45D	1	2		0950	.45	2.56			
	14	2040	2050	NO FLARE PATROL															
	14	2115	2120	NO FLARE PATROL															
	14	2145	2205	NO FLARE PATROL															
ARCE	15	0805E	0820D		N23	W67		8056		15D	1-	2		0805	.23	.51			
	15	1605	1610	NO FLARE PATROL															
	15	1730	1735	NO FLARE PATROL															
	15	1750	1800	NO FLARE PATROL															
	15	1905	1940	NO FLARE PATROL															
CULG	15	2115	2212	2121	N26	W55		8056			1-		C	2121	.80	1.52			
HUAN	15	2125E	2134D		N27	W56		8056		9D	1-		P	2125	.76	1.10			E
	16	1610	1625	NO FLARE PATROL															
CULG	16	2010E	2022	2015	N26	W70		8056			1-		P	2015	.40	1.20			
CULG	17	0434	0506	0453	N21	W77		8056					C	0453	.20				G
CAPS	17	1242E	1300		N08	W80		8063		18D	1	1		1250	.50				G
	17	1530	1635	NO FLARE PATROL															
	17	2220	2230	NO FLARE PATROL															
HALE	19	0027	0050	0036	N02	E40		8070			1-	1	C	0036	.40	.40			H
CULG	19	0031	0100	0037	N02	E40		8070			1-		C	0037	.20	.26			DGH
OTTA	19	1644	1653	1649	N19	E87		8073			1-	1	C	1649	.11				
LOCK	19	1710E	1800U	1715U	N27	E90		8073			1-		C	1715	.20	1.00		10	
MANI	20	0436	0448	0438	N10	W45		8067			1-	2		0438	.20	.20			
CULG	20	2335	2400D	2341	N20	W19					1-		P	2341	.20	.23			CG
	22	0335	0500	NO FLARE PATROL															
HALE	22	1903	1916	1911	N22	E40		8073			1-	1	C	1911	.50	.60			F
UCCL	23	1152	1313D		N22	E32		8073		81D	1-	3							E
	23	1845	1855	NO FLARE PATROL															
CULG	23	2044	2117D	2100	N23	E24		8073			1-		P	2100	.40	.46			H
	23	2125	2140	NO FLARE PATROL															
ARCE	24	0835E	0850D		N22	E18		8073		15D	1-	1		0845	1.01	1.06			
CULG	24	2249	2304D		S38	W65					1-		P	2304	.20	.80			G
CULG	25	0334	0351	0339	S50	W40					1-		C	0339	.20	.45			G
CULG	26	0218	0233	0224	S22	E31					1-		C	0224	.20	.26			G
CAPS	27	0923E	0940D		N29	E90		8075		17D	1	3		0931				150	
	27	1410	1430	NO FLARE PATROL															
LOCK	27	2100	2150	2125	S28	E61					1-		C	2125	.20	.40		10	
LOCK	27	2240	2335	2254	N28	E90		8075		55	1		C	2254	.80	4.00		20	
HUAN	28	1302E	1333		N29	E85		8075		31D	1-		P	1309	.30				E
HUAN	28	1504	1528	1511	N28	E85		8075		24	1-		C	1511	.20				D
CLMX	28	1506	1533	1515	N29	E85		8075		27	1-		C	1515	.30	.81			
SACP	28	1514E	1543	1517	N29	E81		8075			1-		P		.29			17	
LOCK	28	1830	1852	1836	S18	E90		8078			1-		C	1836	.20	1.00		10	
LOCK	28	1851	1859	1854	N31	E80		8075			1-		C	1854	.40	1.20		10	
LOCK	28	2138	2210U	2142	N29	E80		8075		32U	1		C	2142	.70	2.10		20	
HALE	28	2140	2159	2142	N27	E85		8075			1-	1	C	2142	.60				F
HALE	28	2209	2213	2210	N27	E78		8075			1-	1	C	2210	.20				
HALE	29	0011	0022	0015	N28	E80		8075		11	1	1	C	0015	1.20	3.10			FH
HALE	29	0102	0115	0106	S18	E90		8078			1-	1	C	0106	.20				F
HALE	29	0103	0128	0116	N28	E83		8075		25	1	1	C	0116	.80	2.00			F
HALE	29	0133	0148	0139	N27	E77		8075			1-	1	C	0139	.10	.20			
HALE	29	0143	0159	0150	S18	E90		8078			1-	1	C	0150	.20				F
HALE	29	0202	0211	0206	S18	E90		8078			1-	1	C	0206	.10				
HALE	29	0237	0242	0238	S18	E90		8078			1-	1	C	0238	.10				
HALE	29	0318	0325	0322	S18	E90		8078			1-	1	C	0322	.10				
	29	0325	0645	NO FLARE PATROL															
CATA	29	0930	0945	0939	N28	E69		8075		15	1-	3	C	0939	.37	1.09		145	
KAND	29	0930E	1000		N29	E70		8075			1-								
HALE	29	1725	1744	1733	S17	E75		8078			1-	1	C	1733	.20	.20			
OTTA	29	1737E	1754		S18	E78		8078			1-	1	C	1738	.22	.53			
HALE	29	2015	2020	2016	S17	E74		8078			1-	1	C	2016	.10	.20			
HALE	29	2051	2124	2058	S17	E74		8078			1-	1	C	2058	.20	.30			
LOCK	29	2230	2250	2238	S62	E40					1-		C	2238	.30	.60		10	
MANI	30	0024	0029	0026	N29	E60		8075			1-	2		0026	.20	.30			
	30	0330	0350	NO FLARE PATROL															
	30	0405	0440	NO FLARE PATROL															
	30	0445	0635	NO FLARE PATROL															
UCCL	30	1005	1006		S23	E70		8078		1	1-	3							D
	30	1440	1510	NO FLARE PATROL															
SACP	30	1644	1700	1649	N29	W81		8079			1-		C		1.25			16	

INTERVALS OF NO FLARE PATROL OBSERVATIONS



Observatories included:

Abastumani	Catania	Ikomasan	Locarno	Monte Mario	Tortosa
Arcetri	Climax	Istanboul	Lockheed	Ondrejov	Uccle
Bakou	Culgoora	Kandilli	Lvov	Ottawa	Voroshilov
Bucharest	Haleakala	Kanzelhöhe	Manila	Sacramento Peak	Wendelstein
Capetown	Herstmonceux	Kharkov	McMath-Hulbert	Salonique	Wroclaw
Capri-F (German)	Honolulu	Kiev-Ko	Meudon	Simeis	Zürich
Capri-S (Swedish)	Huancayo	Kodaikanal	Mitaka	Tachkent	

IONOSPHERIC EFFECTS OF SOLAR FLARES

SHORT WAVE RADIO FADEOUTS — SUDDEN PHASE ANOMALIES
SUDDEN COSMIC NOISE ABSORPTION — SUDDEN ENHANCEMENTS OF SIGNAL
SUDDEN ENHANCEMENTS OF ATMOSPHERICS — SUDDEN FREQUENCY DEVIATIONS
SOLAR NOISE BURSTS AT 18 Mc/s

JANUARY 1966

JAN. 1966	UNIVERSAL TIME			TYPE SWF	IMPORTANCE						BUR	WIDE SPREAD INDEX	STATIONS	KNOWN FLARE
	START	END	MAX	IMP	ABS	SCNA	SEA	SPA	SES	SFD				
14	1902	1908	1904							005		1	BO(WWV10-0.5,WWV15-0.3)	1849
14	1904	2010	1930					150				5	BO(CYZ80-150,NSS88-95, NAA18-20,NPG18-18), HA(WWVL20-58)	
14	1918	1930	1920	S 1								5	BO BE HU MC	
14	2228	2230									1	1	HA(DOUBLE BURST)	2219
15	2132	2134									1	5	HA BO	
17	1801E	1806	1801							010		1	BO(WWV15-1.0)	1800
17	2134	2141	2135D							014		3	BO(WWV10-1.4,WWV15-1.0, KKE3-0.7,KKE4-0.5)	2128
17	2134	2200	2136					35				1	BO(NPM26-35)	
18	2258	0001		G 2								5	TO MA NZ OK	2253
18	2259	2304									1	1	HA	
18	2300	0130	2345					64				1	AN(NPM26-61), MA(NPG18-120)	
18	2304	2305									1	1	HA	
18	2305	2306									1	1	HA	
18	2306	2308									1	1	HA	
18	2308	2311									1	1	HA	
18	2311	2313									1	1	HA	
18	2318	2319									1	1	HA	
18	2321	2322									1	1	HA	
18	2325	2448	2335						2+			1	A3	
18	2326	2330									1	1	HA	
18	2330	2344									1	1	HA(SERIES OF BURSTS)	
20	0020	0045	0023	S 2								5	OK CA MA TO	0023E
20	0023	0036	0025E							022		1	BO(WWVH15-2.2)	
20	0024	0120	0027					60				5	BO(NPM26-60), MA(NPG18-76)	
20	0300	0340	0309	SL 1								5	OK MA	0305
20	0300	0340	0305									1	MA(NPG18-36)	
20	0450	0521	0505	SL 1								5	MA CA OK	*
20	0454	0527	0513									1	MA(NPG18)	*
20	1710	1815	1730					25				1	BO(NPM26-25)	
23	1556	1557									1	4	MC BO	
23	1612	1614									1	1	BO	
23	1616	1620									1	1	MC	
26	0122	0217	0140	G 1+								5	OK CA	

RIOMETER EVENTS

JANUARY 1966

GREAT WHALE RIVER

30 Mc/s

JAN. 1966	START UT	END UT	MAX UT	MAX. ABSORP. db, (tenths)	NO. OF PEAKS
2	0416	0934	0501	3	2
2	1340	0706	1437	8	6
3	1656U	2240	1924	8	3
4	0848	1138	1020	6	1
4	1744	2315	1840	13	3
7	0221	1241	0309	10	3
7	2236	1150	0013	15	6
8	1552	2255	1818	3	1
9	1650	2324	1918	4	3
17	0220	0428	0243	3	2
18	1941	0100	2027	11	2
19	0710	1430	0730	14	3
20	0728				
21		2214	1440	76	18
22	0159	2120	1530	72	8
23	0016	2345	1530	50	12
24	0404	2305	0613	25	8
25	0200	1042	0657	26	4
25	1300	0052	1614	36	5
26	0332	2313	1834	56	6
27	0133	0643	0229	8	2
28	1030	2044	1242	10	3
29	0511	0120	1921	14	2
30	1420	2338	1857	11	3

No data is currently available for January 10-16. The charts have been lost en route.

SOLAR NOISE OBSERVATIONS

FEBRUARY 1966

PENNSYLVANIA STATE UNIVERSITY

10700, 2700, 960, 328 Mc/s

FEB. 1966	FRE-QUENCY	TYPE	STARTING TIME UT	TIME OF MAX. UT	DURA-TION MINUTES	FLUX DENSITY $10\text{-}22_{wm}\text{-}2$ (C/S)-1 PEAK	MEAN
11	10,700	Simple 3	1614.0		76	8	6
	960	Simple	1715.5	1716.8	2.7	2.5*	1.2
	328	Simple	1716.6	1716.8	1.0	157	79
	960	Simple	1746.5	1749.5	3.6	4.0*	2
	328	Simple	1748.9	1749.5	1.2	157	79
12	960	Simple	1938.5	1938.8	0.8	18.6*	9.3
	328	Simple	1938.5	1938.8	0.8	160	80
	960	Simple	2019.7	2020.1	0.8	1.0*	0.5
	328	Simple	2019.9	2020.3	0.7	189	95
	960	Simple	2027.9	2028.0	0.2	0.3*	0.2
	328	Simple	2027.7	2028.0	0.6	172	86
	328	Simple	2039.1	2039.5	1.6	213	69
	960	Simple	2059.2	2059.9	1.0	0.5*	0.3
	328	Complex	2057.5	2059.7	3.0	333	58
14	960	Simple	1943.1	1943.7	7.0	2.5*	1.3
	328	Complex	1943.5	1944.1	7.2	76	35
15	960	Simple	1942.6	1942.8	0.4	0.5*	0.3
	328	Simple	1952.6	1952.8	2.2	69	34
	960	Simple	1957.4	1957.6	0.4	0.1*	<.1
	328	Simple	1956.8	1957.8	1.2	28	1
16	960	Simple	1634.0	1635.5	1.9	0.1*	<.1
	328	Simple	1634.7	1635.5	1.2	30	15
17	960	Simple	1859.4	1859.6	0.4	0.4*	0.2
	328	Simple	1858.8	1859.4	0.8	100	50
	960	Simple	2019.5	2019.6	0.2	0.2*	0.1
	328	Simple	2019.5	2019.6	0.2	12	6
	960	Simple	2028.7	2028.8	0.2	0.2*	0.1
	328	Simple	2028.7	2028.8	0.2	15	9
	2,690	Simple 1	2029.8	2029.8	0.2	4	1
	960	Simple	2048.3	2048.3	0.2	0.6*	0.3
	328	Simple	2048.2	2048.4	0.4	16	8
	960	Simple	2147.1	2147.2	0.2	0.5*	0.3
	328	Simple	2147.0	2147.1	0.2	6	3
	960	Simple	2152.3	2153.3	2.0	0.5*	0.3
	328	Complex	2152.3	2153.3	2.0	37	11
18	960	Simple	1730.8	1731.1	0.8	0.8*	0.4
	328	Simple	1730.8	1731.1	0.8		
	960	Simple	1948.2	1948.4	0.4	<.1	<.1
	328	Simple	1948.2	1948.4	0.8		
	960	Simple	2037.1	2037.2	0.3	0.1*	<.1
	328	Simple	2037.0	2037.2	0.4		
20	960	Simple	2019.2	2019.3	0.2	0.4*	0.2
	960	Simple	2029.5	2029.6	0.2	0.7*	0.4
21	960	Simple	1935.4	1935.6	0.4	0.1*	<.1
	328	Simple	1935.4	1935.6	0.4	21	13

* Flux at 960 Mc/s is given in terms of mean solar flux just prior to event.
Observing Period 1200UT-2200UT.

SOLAR NOISE OBSERVATIONS

FEBRUARY 1966

PENNSYLVANIA STATE UNIVERSITY — 10700, 2700, 960, 328 Mc/s

FEB. 1966	FREQUENCY	TYPE	STARTING TIME UT	TIME OF MAX UT	DURATION MINUTES	FLUX DENSITY $10\text{-}22_{wm}\text{-}2$ (C/S)-1 PEAK	FLUX DENSITY MEAN
22	960	Simple	1447.6	1447.9	1.6	0.2*	0.1
	328	Simple	1447.8	1448.0	0.6	20	13
	960	Simple	1627.0	1627.2	0.4	0.2*	0.1
	328	Simple	1627.0	1627.2	0.4	42	18
	960	Simple	1929.6	1929.7	0.2	0.3*	0.1
	328	Simple	1929.6	1929.7	0.2	3	1
	2,690	Simple 1	1952.0	1952.1	0.2	4	3
	960	Simple	1952.0	1952.1	0.4	0.2*	0.1
	328	Simple	1952.0	1952.1	0.4	18	9
	960	Simple	1956.8	1956.9	0.3	0.1*	<.1
	328	Simple	1956.8	1956.9	0.3	21	10
	960	Simple	2033.0	2033.1	0.2	0.1*	<.1
	328	Simple	2033.0	2033.1	0.2	20	10
23	960	Simple	1441.1	1441.5	1.0	0.3*	0.2
	328	Complex	1440.9	1445.5	5	68	16
	328	Simple	1507.6	1507.7	0.2	28	14
	960	Simple	1510.1	1510.2	0.2	0.1*	<.1
	960	Simple	2005.6	2005.7	0.2	0.1*	<.1
	328	Simple	2005.6	2005.7	0.2	10	5
24	960	Simple	1329.1	1329.3	0.9	0.1*	<.1
	328	Simple	1329.3	1329.8	0.7	24	15
	2,690	Simple 3	1654.2	1657.6	11.4	1	0.7
	960	Simple	2121.5	2121.7	0.5	0.1*	<.1
	328	Simple	2121.5	2121.7	0.5	12	6
26	960	Simple	2012.8	2012.9	0.2	0.1*	<.1
	328	Simple	2012.8	2012.9	0.2	7	4
	960	Simple	2057.9	2058.1	0.5	0.1*	<.1
	328	Simple	2057.9	2058.1	0.5	15	8
28	960	Simple	1622.2	1622.8	0.8	0.1*	<.1
	328	Simple	1622.6	1622.8	1.0	15	8
	960	Simple	2014.6	2014.7	0.2	0.1*	<.1
	328	Simple	2014.6	2014.7	0.2	5	3
	960	Simple	2020.6	2021.3	1.1	0.9*	0.5
	328	Simple	2020.6	2021.5	1.1	37	26
	960	Simple	2031.6	2031.6	0.1	<.1*	<.1
	328	Simple	2031.6	2031.7	0.2	5	3
	960	Simple	2129.4	2129.6	0.4	0.1*	<.1
	328	Simple	2129.4	2129.6	0.5	11	5
	960	Simple	2150.6	2151.7	1.2	0.2*	0.1
	328	Simple	2150.6	2151.7	1.2	11	5
	328	Simple	2210.6	2211.1	0.8	16	11

Errata: In Table IVa, CRPL-FB-258, issued February 1966, the definitions in the type column were misinterpreted. For the 10700 and 2700 Mc/s observations they should be corrected as follows:

"simple 2" replaces "series of bursts"
"simple 3" replaces "group of bursts"
"simple 1" replaces "rise in base level"

These are the same as the ARO-Ottawa definitions.

For the 328 Mc/s observations "minor burst" should replace "rise in base level". This is the same as the ESSA-Boulder definition.

IVc

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

FEBRUARY 1966

ARO-OTTAWA 2800 Mc/s
DRAO-PENTICTON 2700 Mc/s

FEB. 1966	URANE	DESCRIPTIVE TYPE	START UT	DURATION HRS. MIN.	MEAN FLUX	MAXIMUM TIME	MAXIMUM FLUX	REMARKS
2	3	Simple 3	15 05	2 50	3.3	Indet.	6.6	
7	-	Rise	15 45	1 05	-	-	3.0	
10	3	Simple 3	17 00	2 20	1.1	18 15	2.2	
11	3	Simple 3A	16 40	2 45	1.8	17 15	3.6	
	1	Simple 1	16 50	4	1.5	16 51	2.4	
11	6	Complex F	23 40	14	9.2*	23 43.5	14.8	
20	3	Simple 3	13 25	1 25	1.2	Indet.	2.4	
20	1	Simple 1	15 36	1.5	0.5	15 36.5	1.0	
20	3	Simple 3	16 00	2 00	1.0	Indet.	2.0	
20	3	Simple 3	18 20	3 30	1.5	20 30	3.0	
21	1	Simple 1	15 25.3	1.3	0.6	15 26	1.2	
21	1	Simple 1F	16 23	0.8	0.6	16 23.2	1.0	
23	3	Simple 3	16 30	1 50	1.1	17 20	2.2	
25	3	Simple 3	21 05	1 40	1.2	22 17	2.4	
25	3	Simple 3	22 50	1 50	2.8	Indet.	5.6	
27	2	Simple 2	00 42	2	5.0**	00 43	10.0	
28	3	Simple 3	20 20	2 30	1.5	22 05	3.0	
	1	Simple 1	21 56	1	1.0	21 56.5	2.0	
28	2	Simple 2F	23 03	5	4.2	23 06	8.4	
	4	Post B.I.	23 08	1 00	1.0		2.0	

* in sunset oscillations

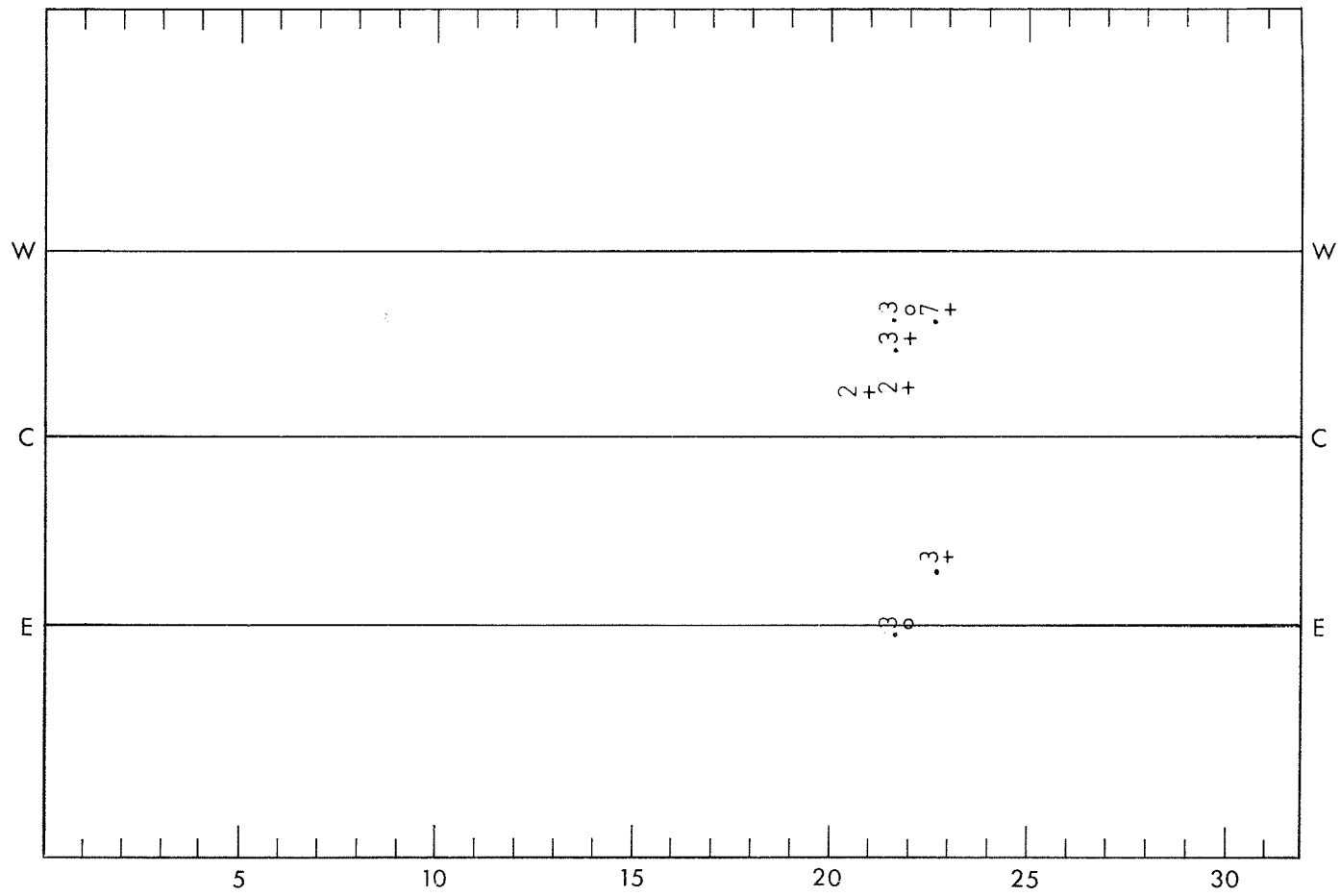
** probable error in timing

OBSERVING PERIOD: February 1 to 28: 1300 to 0030 UT.

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

FEBRUARY 1966

NANÇAY **408 Mc/s**



FEBRUARY 1966

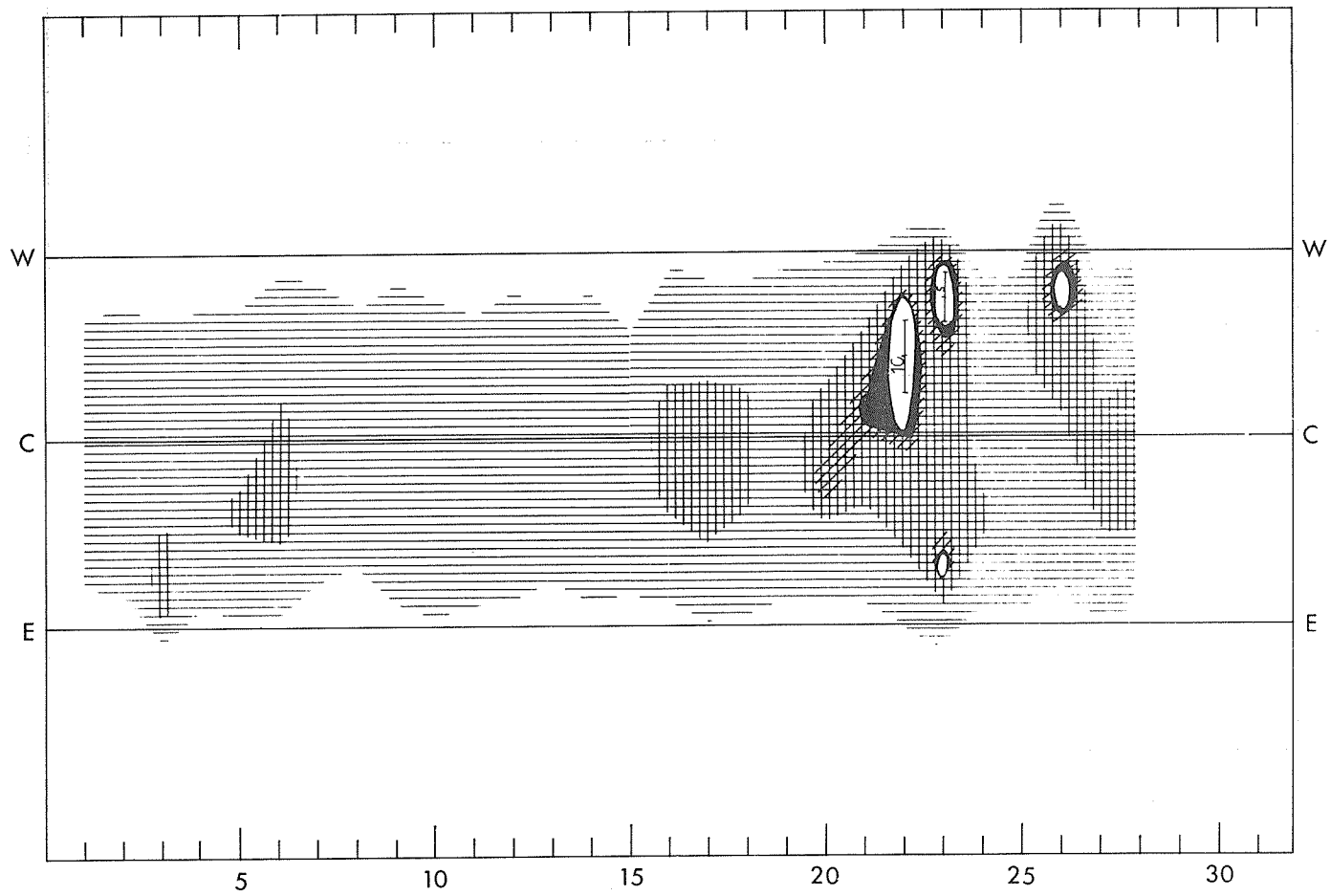
PAI

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

FEBRUARY 1966

NANÇAY

169 Mc/s



FEBRUARY 1966

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

FEBRUARY 1966

ESSA BOULDER **108 Mc/s**

FEB. 1966	TYPE	START UT	TIME OF MAXIMUM UT	DURATION MINUTES	INTENSITY
11	8	2349	2350	4.8	2
25	3	2215	2215	1.2	2

NOMINAL TIMES OF OBSERVATION

FEBRUARY 1966

ESSA BOULDER **108 Mc/s**

FEB. 1966	HOURS OF OBSERVATION U.T.	HOURS OF INTERFERENCE U.T.	FEB. 1966	HOURS OF OBSERVATION U.T.	HOURS OF INTERFERENCE U.T.
1	1414-0004	1707-1847	16	1357-0022	
2	1413-0005		17	1356-0023	
3	1412-0006		18	1354-0024	
4	1411-0008		19	1353-0025	
5	1410-0009		20	1352-0026	
6	1409-0010		21	1350-0028	
7	1408-0011		22	1349-0029	
8	1407-0012		23	1348-0030	
9	1406-0014		24	1346-0031	
10	1404-0015	2038-2150	25	1345-0033	
11	1403-0016		26	1343-0033	
12	1402-0017	1730-1855	27	1342-0034	
13	1401-0018		28	1340-0036	
14	1400-0019				
15	1358-0021				

FEBRUARY 1966

HALEALAKA **107 Mc/s**

No observations were made at the Haleakala Observatory during February because of equipment failure.

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

FEBRUARY 1966

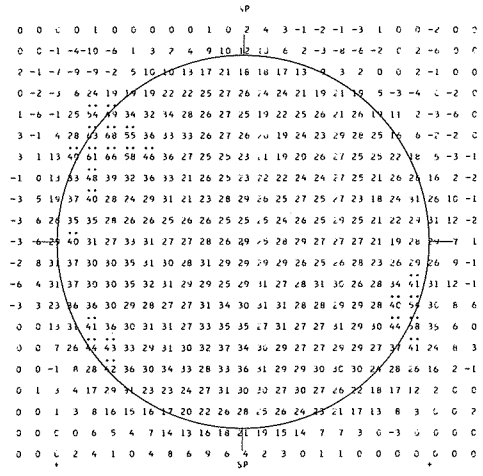
UNIVERSITY OF COLORADO

7.6-41 Mc/s

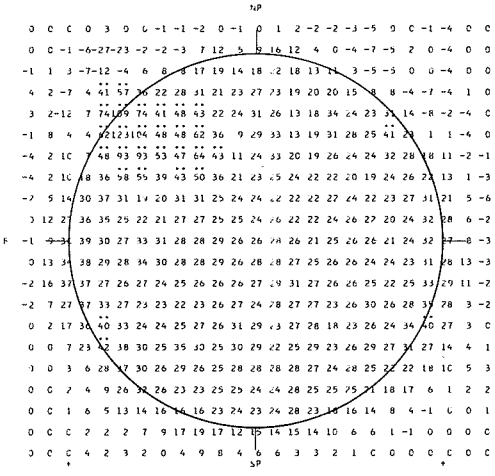
Date Feb 1966	Bursts				Date Feb 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
1	no observ.	1805-2258			15	no observ.	2150-2350		
2	II	a1514, b1518-1548	3	16-41	16	no observ.	1320-1739.		
	IV	1543-1559	1	18-41			2000-2315		
3	no observ.	1545-2247			19	III	1553:45-1554:45	2	27-41
5	III	1530:45-1533:15	2	22-41		III	1844:15-1844:30	1-	31-41
	III	1554:45-1555:15	2	23-41		III	1844:45-1845	1-	31-41
	III	2232-2232:30	1-	22-41		no observ.	1845-2400		
7	II	1645-1703	2	22-39	22	no observ.	2130-2400		
8	III	1844:15-1844:45	1-	33-39	24	III	1953:30-1954:15	1	16-41
9	III	1408:45-1409:15	1-	27-39	26	III	1434:15-1435:30	1	22-41
	III	1442:15-1442:45	1	23-41		III	1910:45-1911:15	1	32-41
	III	1550:45-1551:15	1	24-39	28	III	1603:45-1604	1-	20-35
	III	1551:45-1552:45	1	25-41		III	1612:30-1612:45	1-	24-41
15	III	1545:45-1546	1-	29-38		III	1631-1631:30	1-	24-41
	III	1546-1546:30	1	24-38		III	1645-1645:15	1-	22-35

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

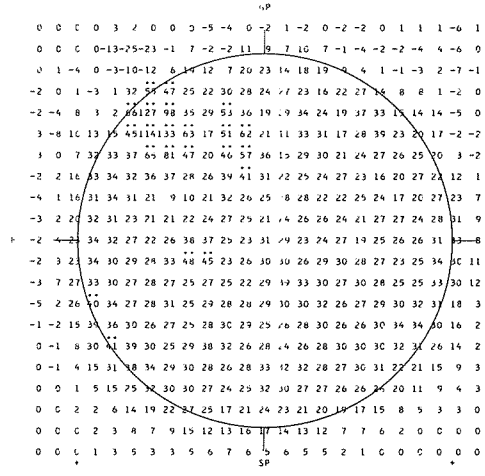
STANFORD — **FEBRUARY 1966** — **9.1 cm**



9.1 CM SPECTROHELIOGRAM
STANFORD, C1 FEB 1966 20-21 HRS UT. S = 86(NRC) BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, C2 FEB 1966 20-21 HOURS UT. S = 79 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
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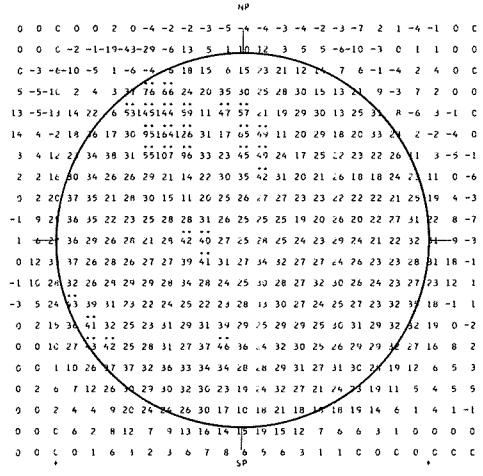

9.1 CM SPECTROHELIOGRAM
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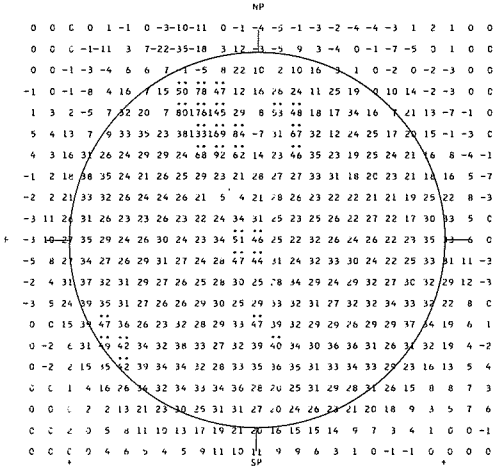

9.1 CM SPECTROHELIOGRAM
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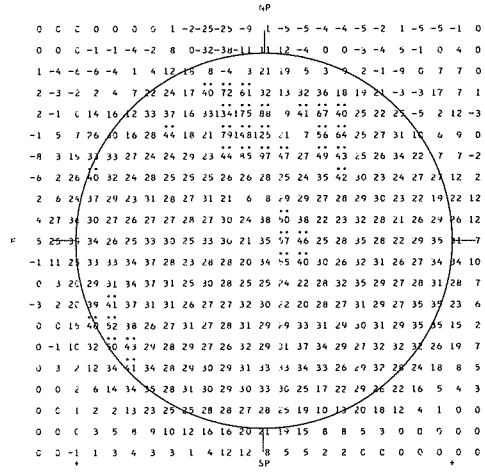
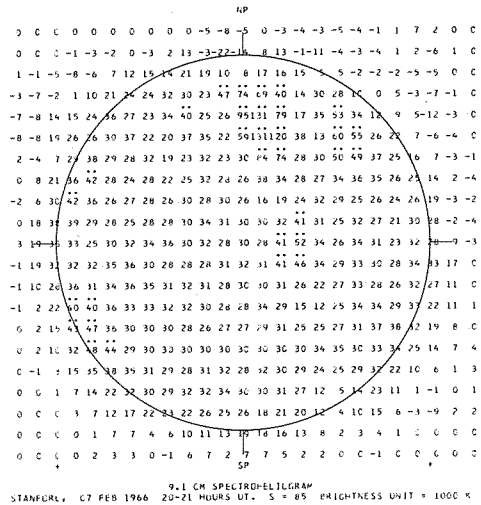
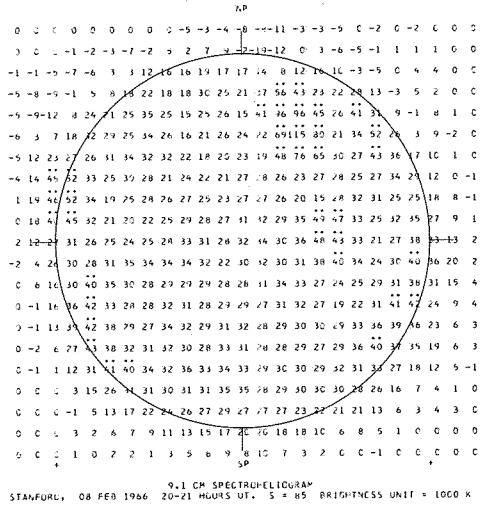


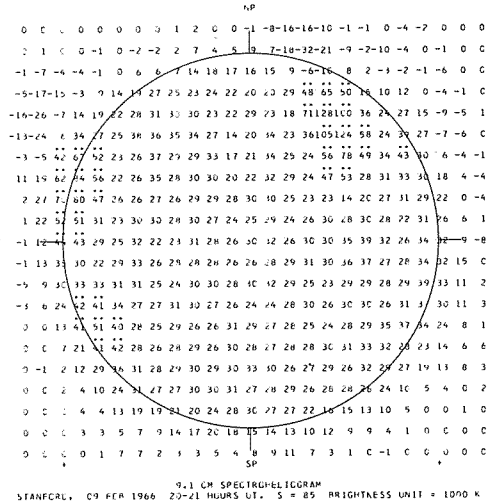
9.1 CM SPECTROHELIOGRAM
STANFORD, C6 FEB 1966 20-21 HOURS UT. S = 85 BRIGHTNESS UNIT = 1000

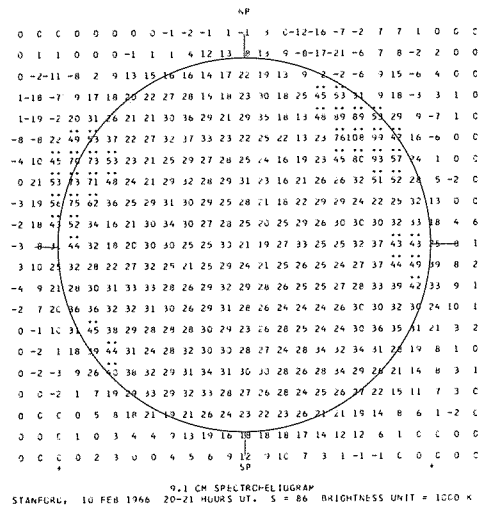
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

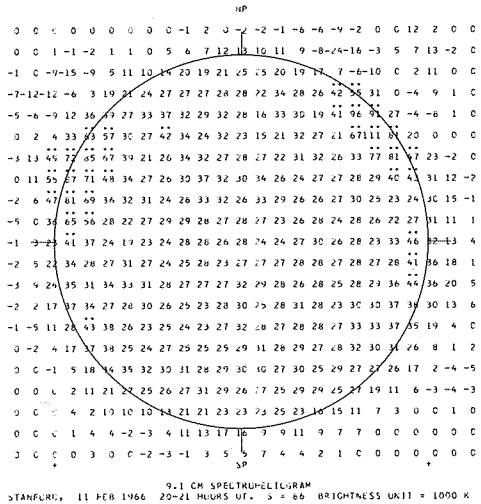
STANFORD — **FEBRUARY 1966** — **9.1 cm**

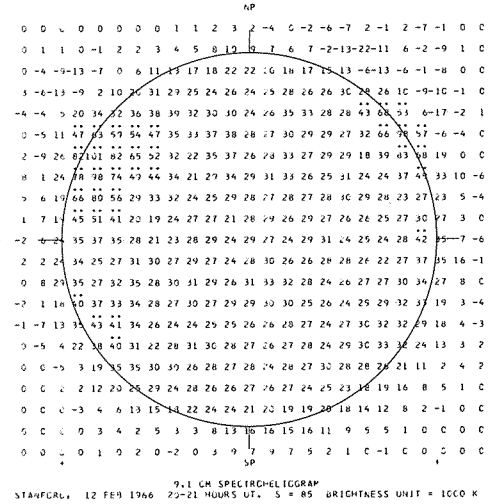










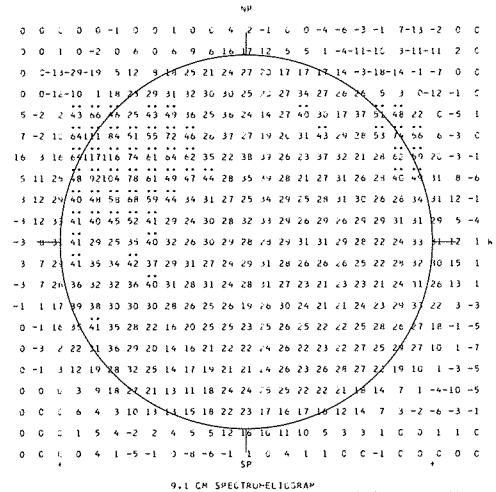


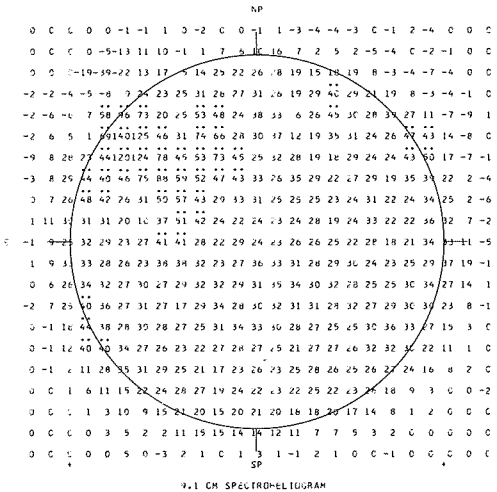
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

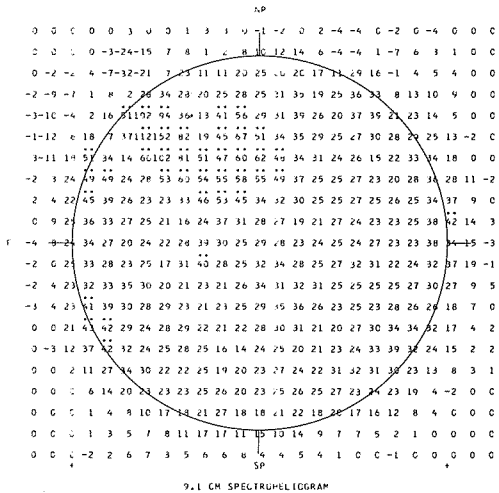
STANFORD

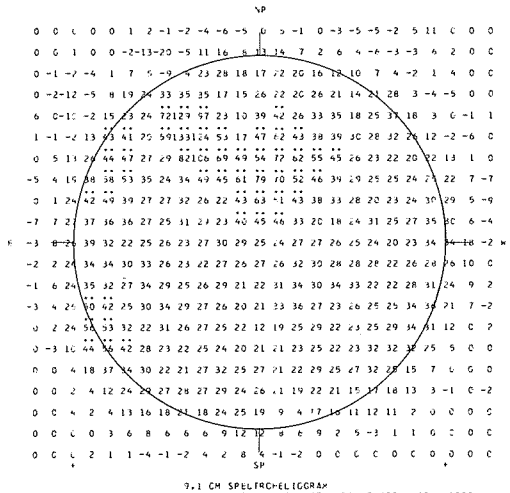
FEBRUARY 1966

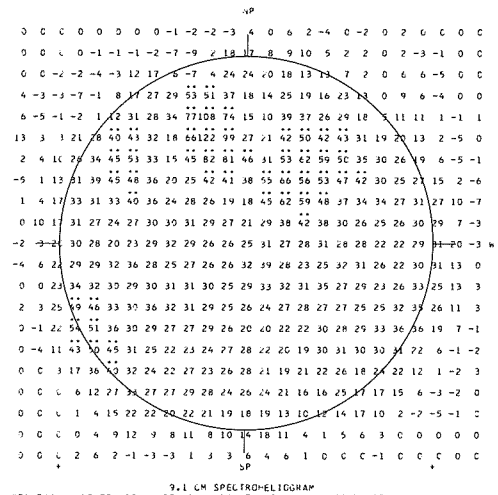
9.1 cm

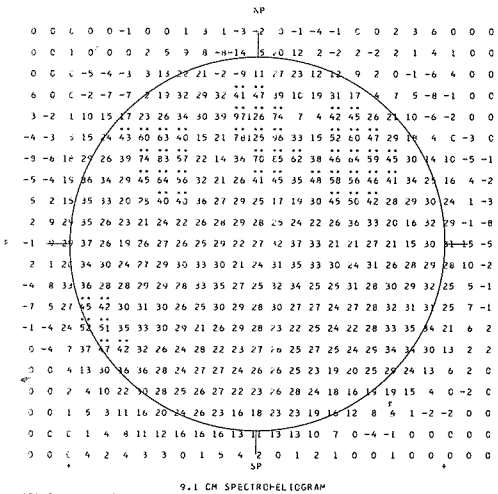






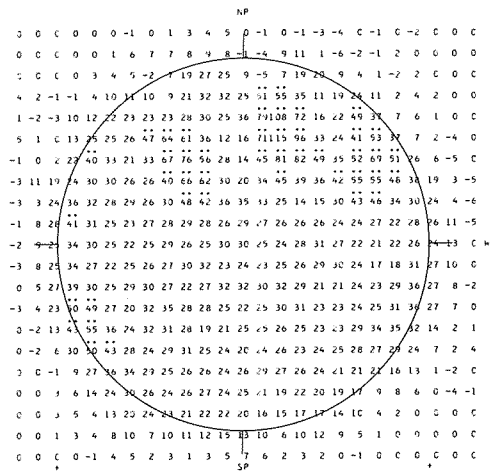




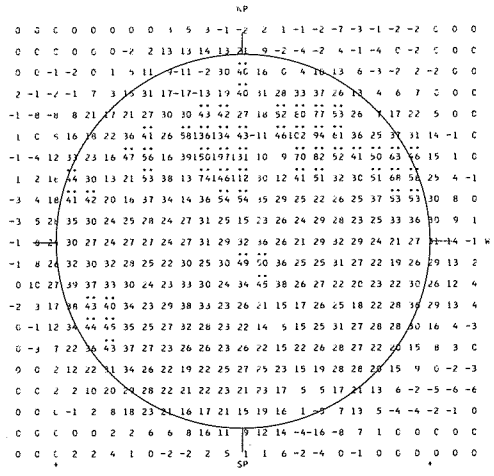


SOLAR RADIO EMISSION SPECTROHELIOGRAMS

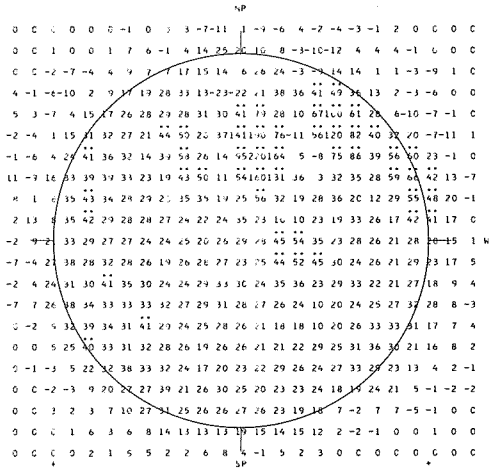
STANFORD — **FEBRUARY 1966** — **9.1 cm**



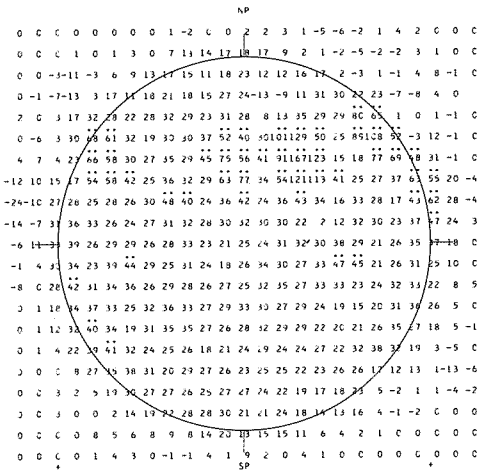
9.1 CM SPECTROHELIOGRAM
STANFORD, 19 FEB 1966 20-21 HOURS UT. S = 83 BRIGHTNESS UNIT = 1000 K



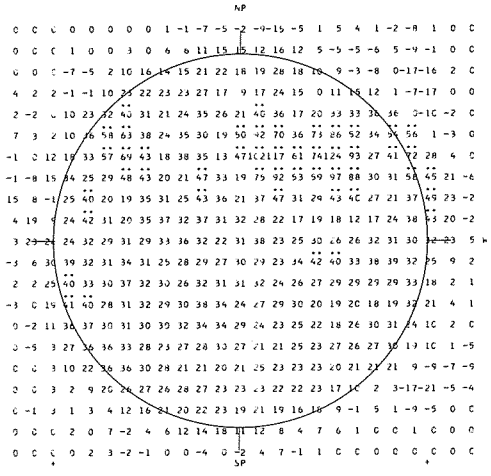
9.1 CM SPECTROHELIOGRAM
STANFORD, 20 FEB 1966 20-21 HOURS UT. S = 85 BRIGHTNESS UNIT = 1000 K



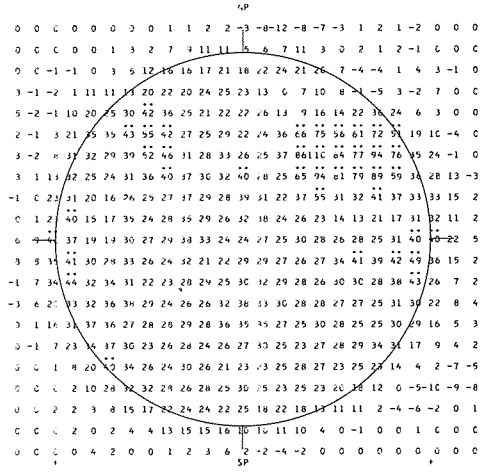
9.1 CM SPECTROHELIOGRAM
STANFORD, 21 FEB 1966 20-21 HOURS UT. S = 88 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 22 FEB 1966 20-21 HOURS UT. S = 88 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 23 FEB 1966 20-21 HOURS UT. S = 85 BRIGHTNESS UNIT = 1000 K



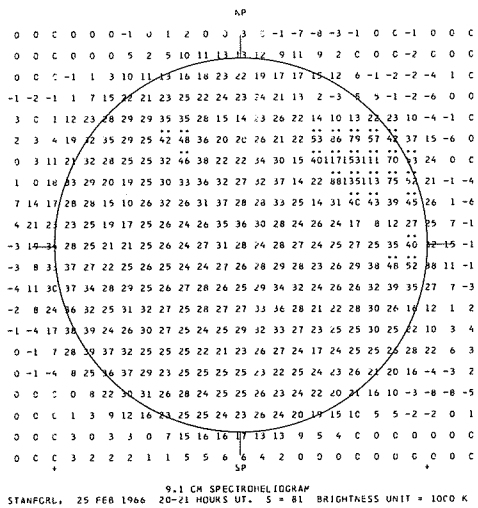
9.1 CM SPECTROHELIOGRAM
STANFORD, 24 FEB 1966 20-21 HOURS UT. S = 84 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

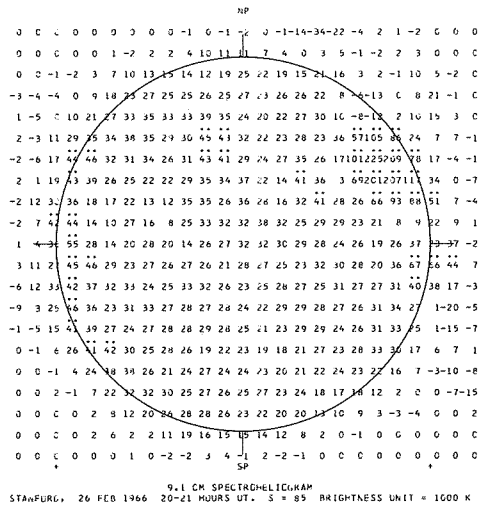
STANFORD

FEBRUARY 1966

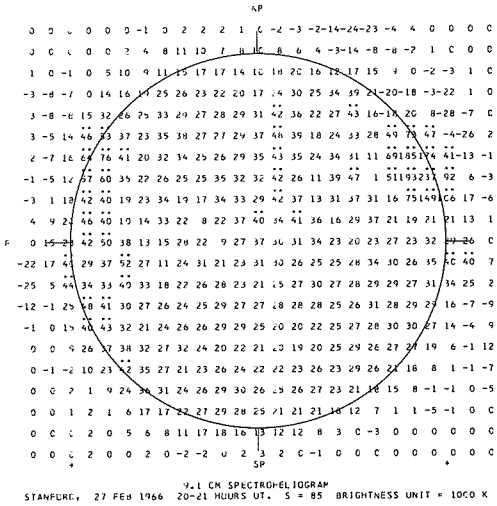
9.1 cm



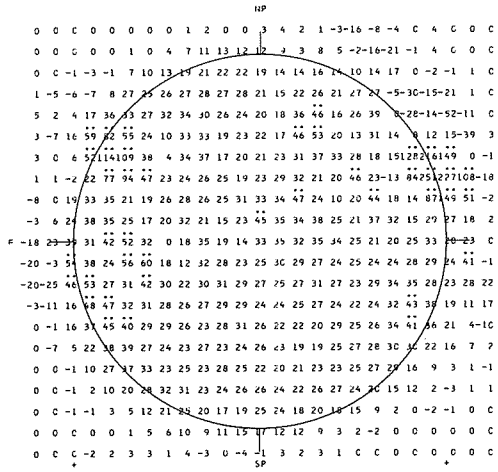
9.1 CM SPECTROHELIOGRAM
STANFORD, 25 FEB 1966 20-21 HOURS UT. S = 81 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 26 FEB 1966 20-21 HOURS UT. S = 85 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 27 FEB 1966 20-21 HOURS UT. S = 85 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 28 FEB 1966 20-21 HOURS UT. S = 86 BRIGHTNESS UNIT = 1000 K

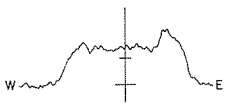
IVm

EAST - WEST SOLAR SCANS

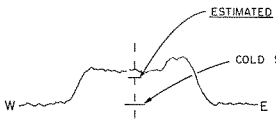
FLEURS, AUSTRALIA

JANUARY–FEBRUARY 1966

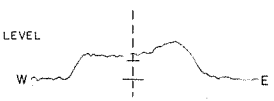
21 cm
Fan - Beam with 2 minutes of arc
E - W Resolution



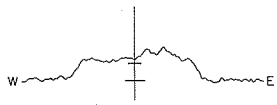
1966 January 31 0210 UT



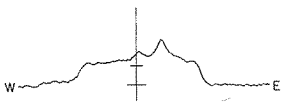
1966 February 1 0149 UT



1966 February 2 0112 UT



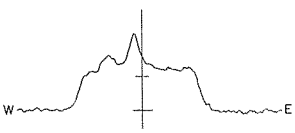
1966 February 3 0211 UT



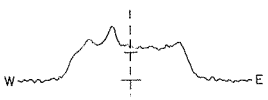
1966 February 4 0211 UT

NO DATA
1966 February 5

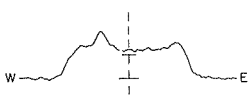
NO DATA
1966 February 6



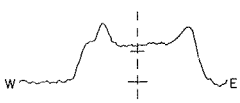
1966 February 7 0134 UT



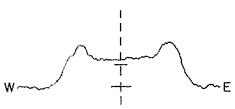
1966 February 8 0130 UT



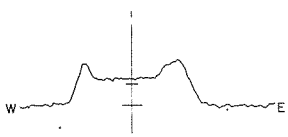
1966 February 9 0134 UT



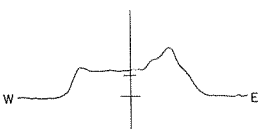
1966 February 10 0134 UT



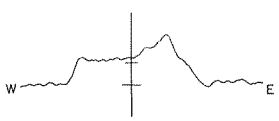
1966 February 11 0105 UT



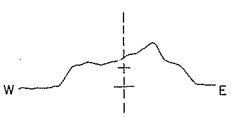
1966 February 12 0215 UT



1966 February 13 0228 UT



1966 February 14 0159 UT



1966 February 15 0133 UT

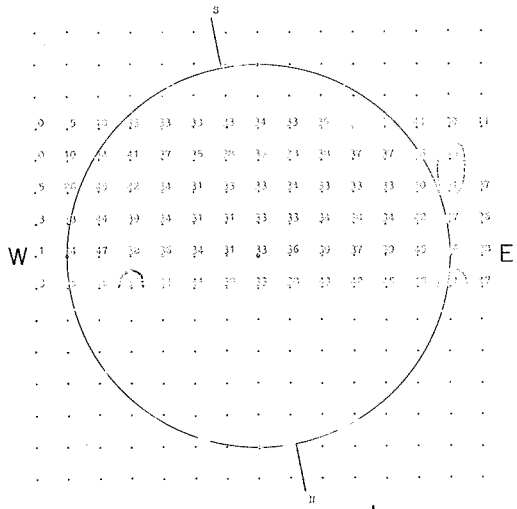
NO DATA
1966 February 16 THRU 1966 February 28

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

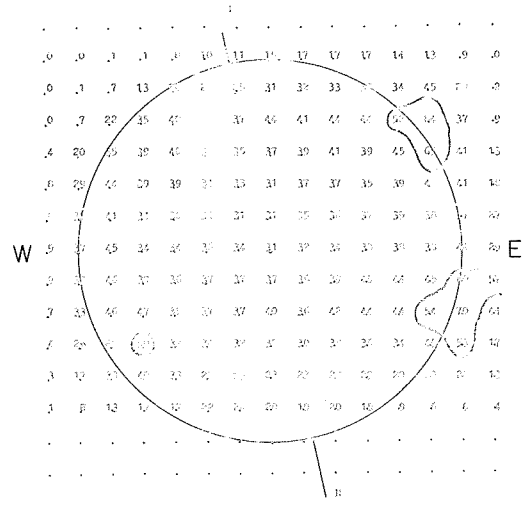
FLEURS, AUSTRALIA

AUGUST 1965

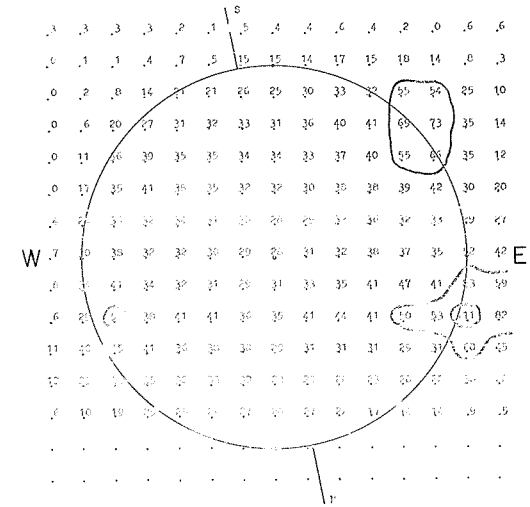
21 cm
Resolution about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



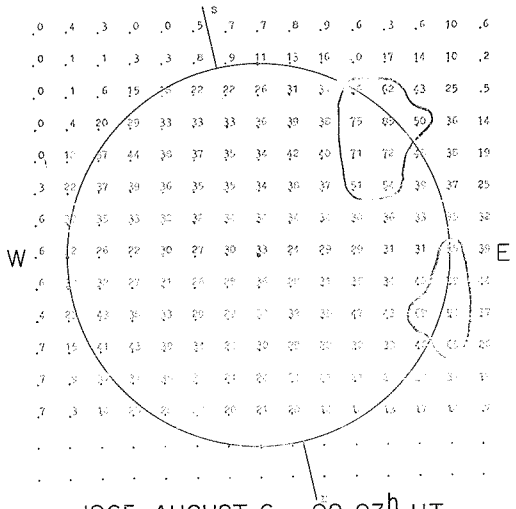
1965 AUGUST 2 02-03^h UT



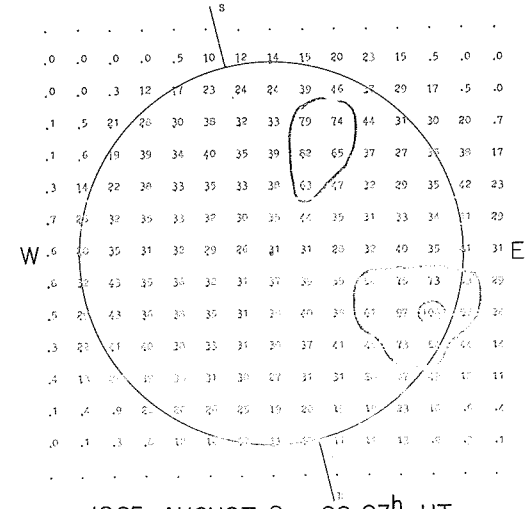
1965 AUGUST 4 02-03^h UT



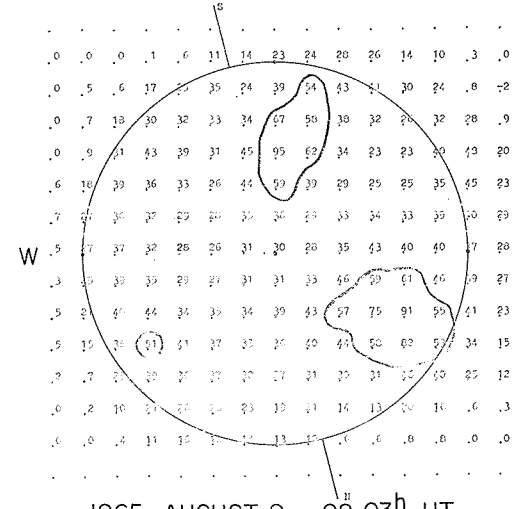
1965 AUGUST 5 02-03^h UT



1965 AUGUST 6 02-03^h UT



1965 AUGUST 8 02-03^h UT



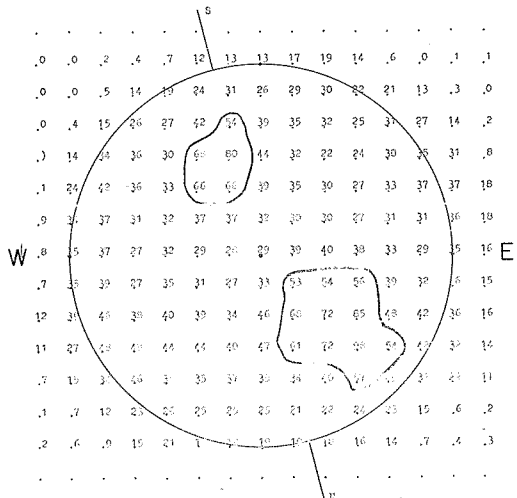
1965 AUGUST 9 02-03^h UT

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

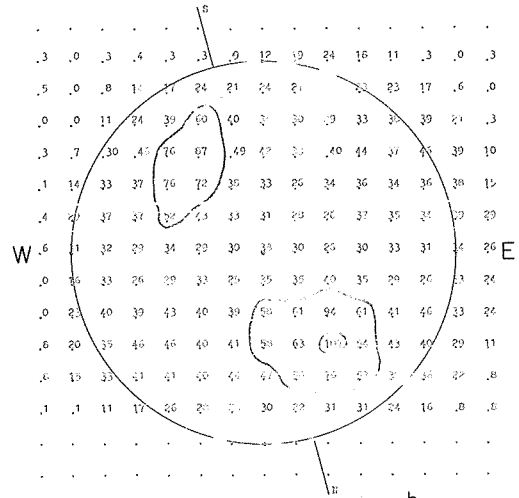
FLEURS, AUSTRALIA

AUGUST 1965

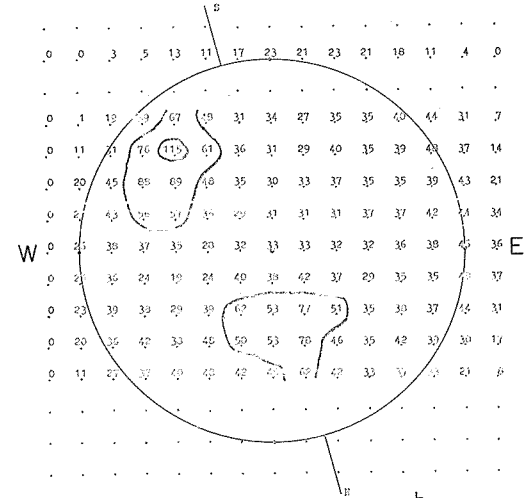
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



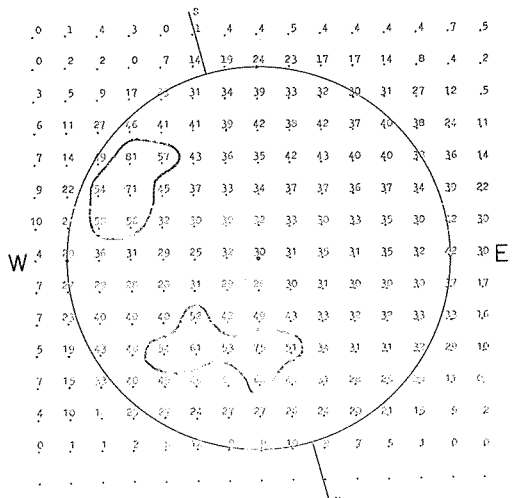
1965 AUGUST 10 02-03^h UT



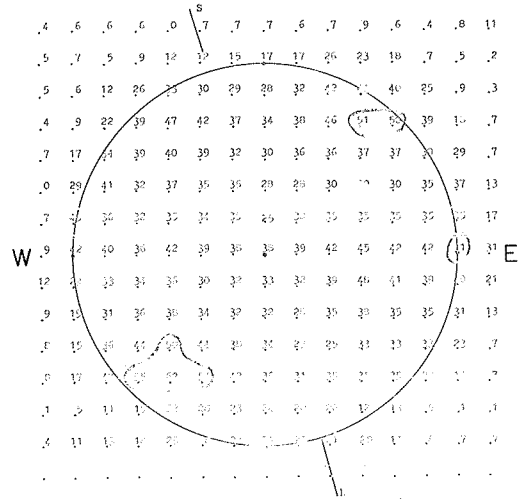
1965 AUGUST 11 02-03^h UT



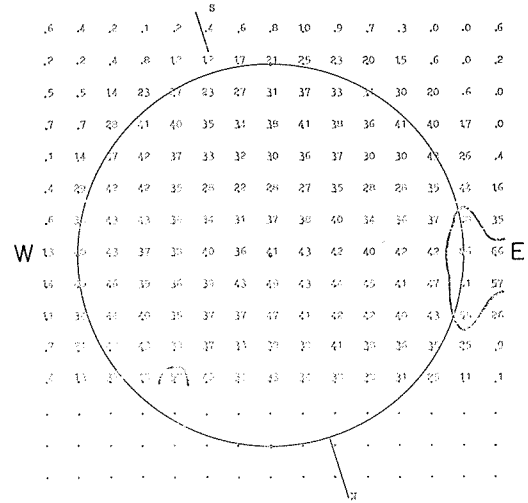
1965 AUGUST 12 02-03^h UT



1965 AUGUST 13 02-03^h UT



1965 AUGUST 16 02-03^h UT



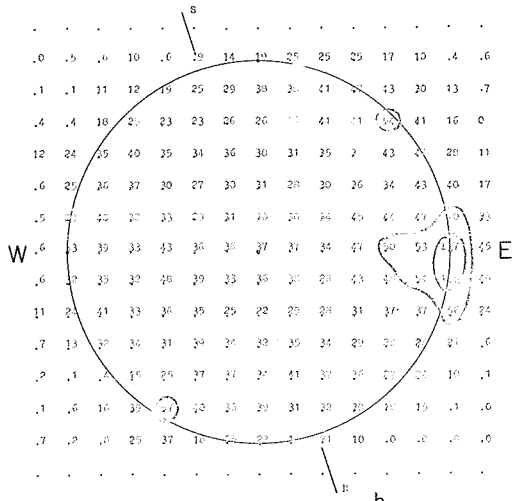
1965 AUGUST 18 02-03^h UT

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

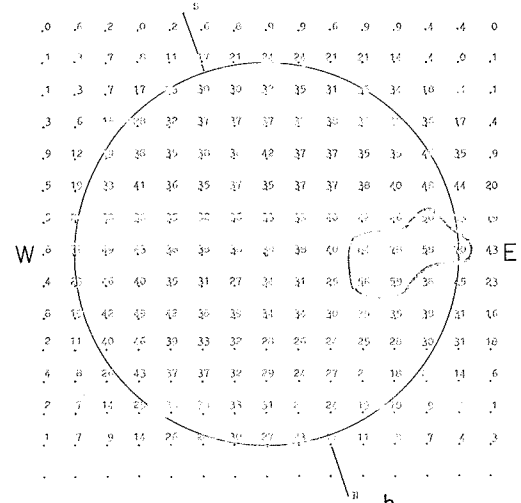
FLEURS, AUSTRALIA

AUGUST 1965

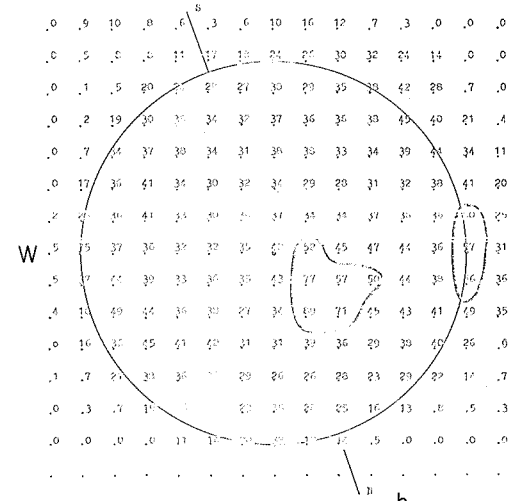
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



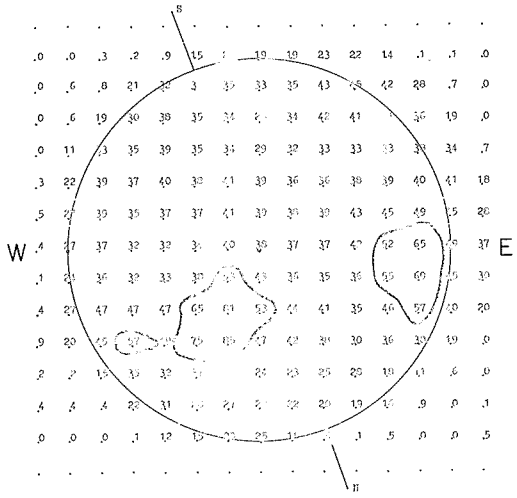
1965 AUGUST 20 02-03^h UT



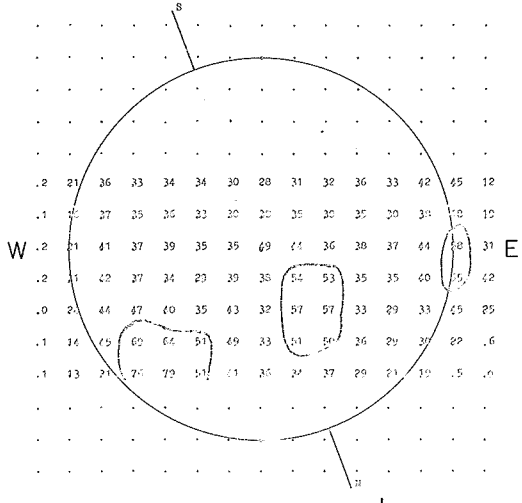
1965 AUGUST 23 02-03^h UT



1965 AUGUST 25 02-03^h UT



1965 AUGUST 27 02-03^h UT



1965 AUGUST 30 02-03^h UT

COSMIC RAY INDICES

(Neutron Monitors)

JANUARY 1966

JAN. 1966	CHURCHILL	DEEP RIVER	CLIMAX	DALLAS
	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR
1	6575.3	7080.6	4290.1	6433.5
2	6550.8	7054.0	4263.0	6425.4 (23)
3	6507.6	7013.5	4244.6 (38)	6421.4
4	6546.5	7059.9	4255.5	6444.1
5	6527.8	7045.2	4257.9	6453.2
6	6550.4	7090.2	4270.0 (2)	6469.5
7	6557.6	7107.2	4263.4	6460.0
8	6583.7	7124.8	4268.2	6468.2
9	6560.5	7096.8	4275.4	6459.6
10	6568.4	7095.1	4285.8	6472.8
11	6571.3	7143.7	4293.8	6480.0
12	6596.4	7148.7	4308.1	6479.0
13	6615.8	7151.7	4307.9	6502.5 (23)
14	6600.2	7153.7	4302.5	6508.3
15	6574.5	7151.5	4316.9	6516.5
16	6571.2	7150.0	4312.0	6510.6
17	6584.2	7164.7	4324.5	6503.7
18	6559.9	7143.0	4302.4	6480.6
19	6564.7	7135.6	4309.8	6467.0
20	6520.7	7066.7	4281.1	6435.3
21	6432.8	6968.8	4217.8	6386.0
22	6426.8	6964.9	4202.8	6376.3
23	6438.5	6975.0	4225.6	6397.9
24	6457.8	6997.6	4244.1	6391.5
25	6465.0	6997.0	4228.8	6395.2
26	6443.4	6986.0	4200.4	6407.0
27	6454.2	6994.4	4198.3	6384.9
28	6459.0	7018.1	4199.4 (38)	6391.4
29	6403.8	6951.0	4156.3	6354.3
30	6429.3	6981.2	4188.3	6364.7
31	6462.1	7037.3	4235.0	6395.2

( ) Number of hours for which data are available if less than 24 (or number of section hours if less than 40 for Climax).

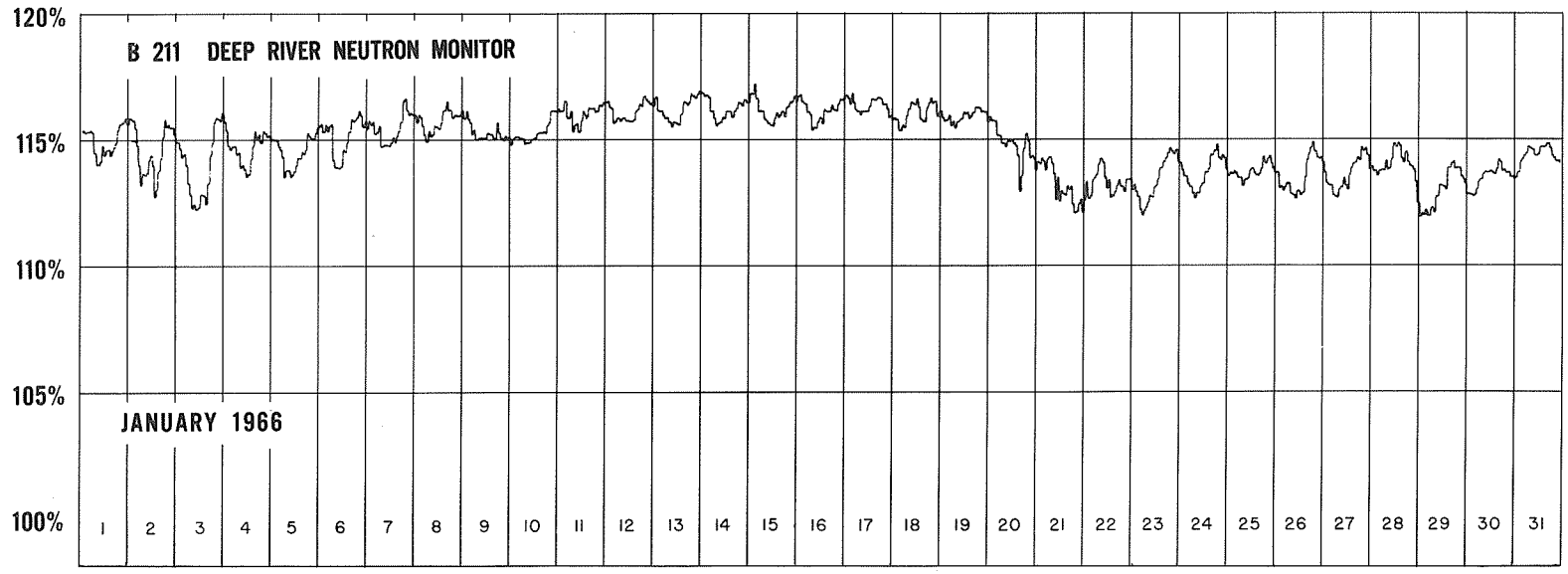
Churchill Super Neutron Monitor, Scaling Factor 120.

Climax IGC Station B305, Scaling Factor 100.

Dallas Super Neutron Monitor, Scaling Factor 120.

COSMIC RAY INDICES

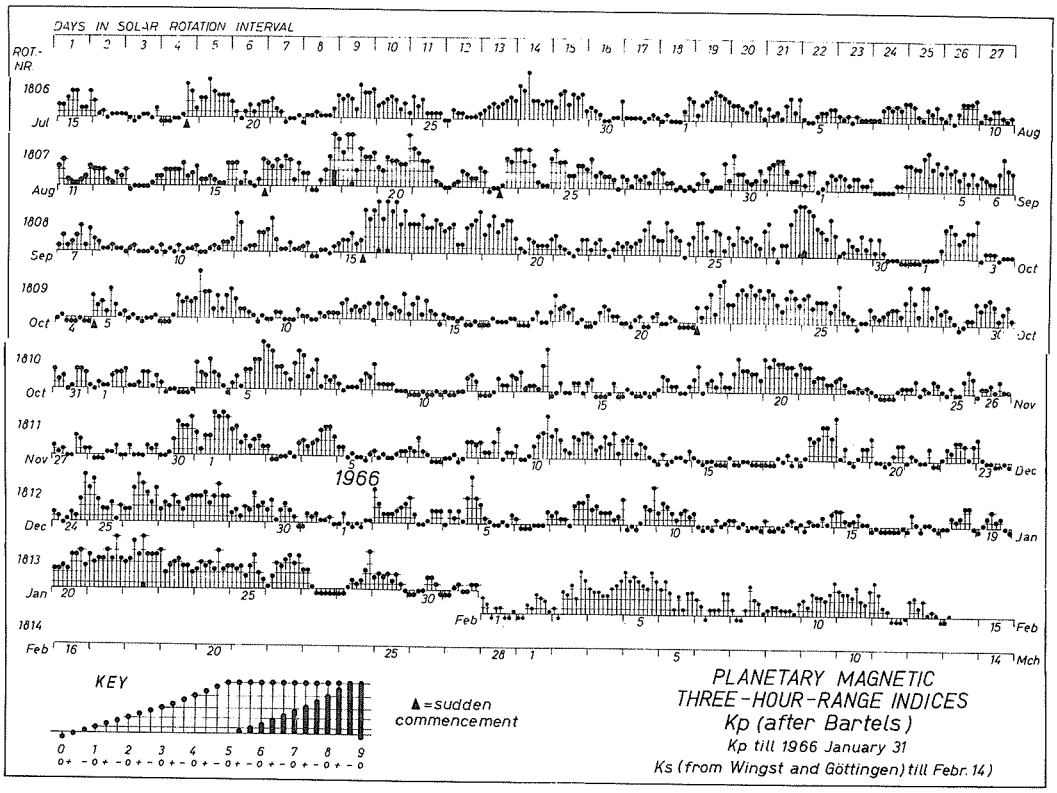
(Pressure Corrected Hourly Totals)



GEOMAGNETIC ACTIVITY INDICES

JANUARY 1966

JAN.		Three-hour range indices Kp									Prel. Ci	Cp	Ap
		1	2	3	4	5	6	7	8	Sum			
1	Q	0+	1+	0+	0o	0+	0o	1-	1-	4-	0.0	0.0	2
2		4-	2+	1+	1+	1+	2-	2o	2+	16o	0.5	0.5	8
3		3o	1+	0+	0+	1-	2-	2-	2-	11-	0.3	0.3	6
4		0+	2-	1o	2-	1-	3o	5-	3o	16o	0.7	0.6	11
5		2+	1o	1-	0+	0+	1-	0+	1+	7o	0.1	0.1	4
6	q	1o	0o	0o	0o	0+	0+	0+	2-	4-	0.0	0.0	2
7		1+	2-	1o	1o	0+	2+	3-	3-	13o	0.4	0.3	7
8		3+	2o	2+	2-	2-	2-	1o	1+	15o	0.4	0.4	8
9		3o	0o	0+	0o	1-	2+	2o	4o	12+	0.6	0.4	8
10		2-	3-	2+	2-	1o	2-	2o	1+	14+	0.4	0.3	7
11	q	2-	0+	0o	0+	0o	1o	0+	1-	4+	0.0	0.0	2
12	Q	1o	1o	0+	1-	0o	0+	0+	0o	4-	0.0	0.0	2
13	Q	1o	0o	0o	0+	0o	1-	1o	0+	3+	0.0	0.0	2
14	q	1-	0o	1o	1-	1-	1+	1-	2-	7-	0.2	0.1	3
15		2o	2o	1o	1-	1o	2-	1-	1-	10-	0.2	0.2	5
16	Q	0o	0+	0o	0o	0o	0o	0o	0+	1-	0.0	0.0	0
17	q	0o	2-	1-	0o	1-	1-	0+	0o	4o	0.0	0.0	2
18		0+	0+	1+	1o	1+	2+	2+	0+	9+	0.5	0.2	5
19		0o	1-	1+	2o	1o	1+	0+	0o	7-	0.1	0.1	3
20	D	2+	2+	3-	2+	4-	4-	4o	3-	24-	1.2	0.9	15
21	D	4-	3o	3+	3+	4o	3+	5o	3+	29o	1.3	1.1	23
22	D	3o	3+	5-	4-	5+	4-	4-	4-	31o	1.4	1.2	27
23	D	4o	2o	3-	3o	3+	3-	3-	2o	22+	0.9	0.8	14
24	D	2+	3o	3-	3o	2+	4o	2+	3-	22+	1.0	0.8	14
25		3-	2+	3-	2-	3-	4-	2o	1+	19o	0.9	0.6	11
26		1-	2-	3o	3-	3+	4-	3o	4-	22-	1.0	0.8	14
27		2+	2+	1-	0o	0o	0o	0o	0o	5+	0.1	0.0	3
28		0o	0o	1-	1+	1o	1+	2+	4o	11-	0.4	0.3	7
29		2-	2o	2-	2o	1+	2o	1o	0+	12o	0.3	0.2	6
30	q	0o	0o	0+	0+	2-	2-	1o	0o	5o	0.1	0.0	2
31	Q	0o	0o	1-	1o	0+	0+	1o	1o	4+	0.0	0.0	2
										Means:	0.42	0.33	7
										No. of days :	31	31	31



DAILY AVERAGE INDICES, A_P

1965 1965 1966

Day	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.
1	4	7	4	4	5	13	5	6	2	4	19	2
2	2	8	2	2	6	5	11	5	16	5	9	8
3	5	26	3	3	9	5	6	4	3	1	2	6
4	10	21	6	4	11	3	7	16	1	8	11	11
5	5	7	4	26	6	3	4	9	8	13	3	4
6	14	4	7	6	5	19	3	9	2	17	3	2
7	31	7	8	5	3	8	6	7	6	9	3	7
8	17	2	4	11	9	21	6	4	15	4	4	8
9	10	4	11	12	12	12	7	3	4	5	6	8
10	12	2	6	7	2	14	4	3	3	0	10	7
11	10	4	8	2	5	2	6	4	3	3	10	2
12	4	4	7	4	3	5	6	11	6	3	10	2
13	4	10	5	3	2	5	3	6	8	10	6	2
14	11	6	5	3	6	4	8	3	6	3	2	3
15	12	12	4	4	19	10	6	15	2	2	1	5
16	6	4	4	18	73	4	7	35	2	1	1	0
17	2	5	11	5	34	2	11	18	2	4	2	2
18	4	2	68	4	11	6	21	16	6	6	12	5
19	4	4	14	2	2	13	27	17	4	10	7	3
20	5	5	10	4	2	5	17	5	2	17	4	15
21	17	8	3	5	2	3	12	5	1	10	2	23
22	5	8	5	6	4	4	5	5	14	4	6	27
23	18	25	5	5	3	13	9	10	19	2	3	14
24	11	12	5	6	3	7	14	10	14	4	9	14
25	14	20	4	3	11	6	13	12	11	5	12	11
26	7	13	6	4	10	4	7	9	7	4	19	14
27	9	9	5	6	6	8	6	20	6	4	10	3
28	6	5	3	5	3	15	3	27	15	2	16	7
29		6	5	3	11	12	6	7	5	3	8	6
30		2	5	3	14	4	8	3	8	12	6	2
31		4		4		3	11		6		3	2
Mean:	9	8	8	6	10	8	9	10	7	6	7	7

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

NORTH ATLANTIC, NORTH PACIFIC — JANUARY 1966

JAN 1966	WHOLE DAY INDICES: NORTH ATLANTIC	WHOLE DAY INDICES: NORTH PACIFIC	WHOLE DAY INDICES: AVERAGE HIGH LATITUDE	ADVANCE FORECASTS (J_C-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC: 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	NORTH ATLANTIC: SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF: 00	06	12	18	NORTH PACIFIC: 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	GEOMAGNETIC INDICES: K_{FR} HALF DAY (1)	(2)	A_{FR} OBSERVED	PREDICTED	K_{SI} HALF DAY (1)	(2)	A_{SI}
01	6o	6	6	5	6-	6o	7-	6+	6	5	7	7	6	6	6	6	0	0	1	17	0	0	0
02	6o	6	6	6	5+	6o	7-	6+	6	5	7	7	6	6	6	6	2	1	6	7	2	1	5
03	6o	7	7	6	6-	6-	7-	7-	6	6	7	7	7	6	7	7	1	1	4	2	0	1	2
04	6+	6	6	6	5+	6o	7-	6+	6	6	7	6	7	6	6	5	1	2	7	2	1	2	6
05	6o	5	6	6	6-	6-	7-	6+	5	6	7	6	5	6	5	6	1	1	3	5	1	0	2
06	6o	6	6	6	6-	5+	7-	7-	6	6	7	6	6	6	6	6	0	1	1	7	0	0	1
07	6+	6	6	6	6+	6o	7-	6+	6	6	7	6	7	6	6	7	2	2	8	5	1	2	5
08	6+	7	7	6	6+	6o	7-	6+	6	6	7	6	7	7	7	7	2	1	6	5	2	1	5
09	6+	7	7	6	6+	6o	7-	7-	6	6	7	7	7	6	6	7	1	2	5	2	0	2	3
10	6o	6	6	6	6-	5+	7-	6+	6	6	7	7	6	6	6	6	2	1	4	2	2	0	3
11	6+	7	7	6	6-	6-	7-	6+	6	6	7	6	7	7	6	6	0	0	0	7	0	0	1
12	6+	7	7	6	6o	6-	7-	6+	6	5	7	6	8	7	8	7	1	0	1	7	1	0	2
13	6o	6	6	6	6o	5o	7-	7-	6	5	7	6	7	6	6	7	0	0	0	3	0	1	2
14	6+	6	6	6	6-	6-	7-	7-	6	5	7	6	6	6	6	7	1	1	2	10	0	0	1
15	6+	6	6	6	6+	6o	7-	7-	6	6	7	7	6	6	7	6	1	1	2	8	1	1	3
16	6+	6	6	6	6-	5+	7-	7-	6	5	7	7	7	6	6	7	0	0	0	5	0	0	0
17	6+	6	6	6	6o	5o	7-	7-	6	6	7	7	7	6	7	6	1	1	2	3	0	0	1
18	7-	7	7	6	7-	6-	7-	7-	6	5	6	6	7	7	6	7	1	2	3	3	0	2	4
19	6+	7	7	6	7-	6o	7-	7-	4	4	6	6	7	7	7	7	1	1	3	5	1	0	4
20	6+	6	6	4	6+	6-	7-	6+	4	4	6	6	7	6	6	6	2	(4)	15	30	2	3	10
21	6+	6	6	4	6o	6-	7o	6o	4	4	6	6	6	6	6	6	3	3	18	30	3	3	16
22	6+	5	6	4	6o	5+	7-	7-	6	6	7	6	6	6	5	5	(4)	(4)	24	15	3	3	21
23	6+	6	6	5	6o	5+	7-	7-	6	6	7	7	6	6	6	6	2	2	10	11	2	2	11
24	6o	6	6	6	6-	5+	7-	6+	6	6	7	7	7	6	6	7	3	3	13	7	2	2	9
25	6o	6	6	6	6o	6-	7-	6+	6	5	7	6	7	6	6	6	2	2	7	5	2	2	12
26	6+	6	6	6	6+	6-	7-	6+	6	6	7	6	6	6	6	6	2	3	11	3	2	2	10
27	6+	6	6	6	6+	6-	7-	7-	6	6	7	6	6	6	6	6	2	0	3	4	1	0	1
28	6o	6	6	6	6-	5+	7-	7-	6	6	7	7	6	6	6	6	0	2	6	7	0	2	4
29	6+	6	6	6	6o	6-	7-	7-	6	6	7	7	6	6	6	6	2	0	5	7	2	1	5
30	6o	6	6	6	6+	5+	7-	7-	6	5	7	7	6	7	6	6	1	1	2	4	0	1	2
31	6+	6	6	6	6o	6-	7-	7-	6	5	7	7	6	6	6	6	1	1	2	7	0	0	1

QUIET	P	19	24	14	27	20
	S	9	4	14	4	11
	U	0	0	0	0	0
	F	3	3	3	0	0
DISTURBED	P	0	0	0	0	0
	S	0	0	0	0	0
	U	0	0	0	0	0
	F	0	0	0	0	0

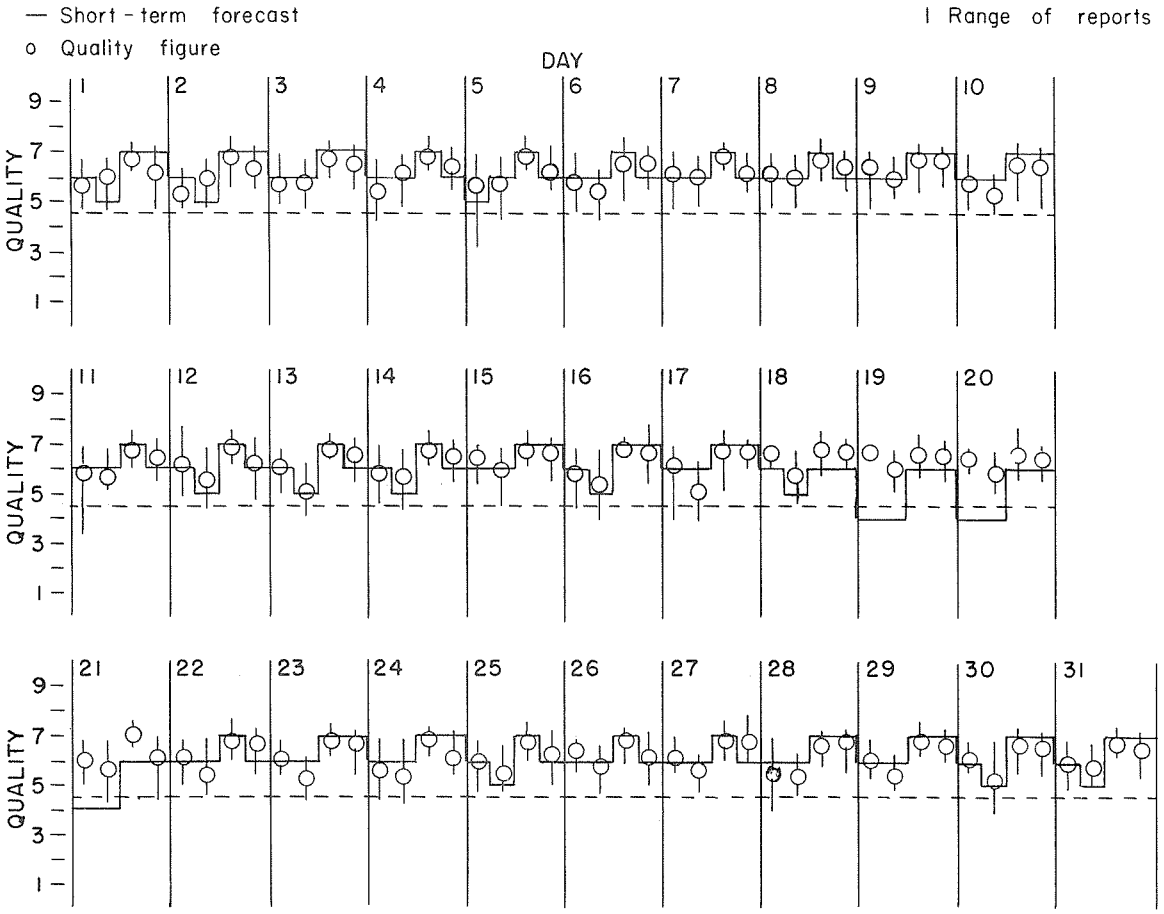
1) THE ADVANCE J_C-FORECASTS ARE SCORED AGAINST THE AVERAGE HIGH LATITUDE WHOLE-DAY INDICES.

2) THE PREDICTED A_{FR} INDICES ARE ISSUED EACH WEDNESDAY FOR THE COMING SEVEN DAYS. THE VALUE FOR THE FIRST DAY OF EACH PREDICTION PERIOD IS UNDERSCORED.

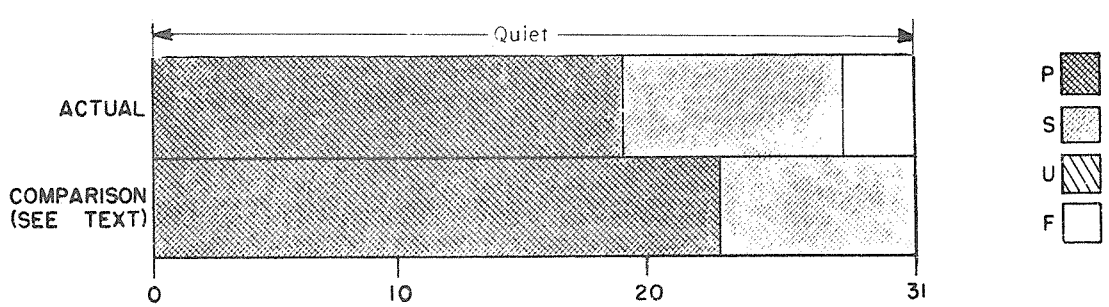
CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS VIIb

JANUARY 1966

NORTH ATLANTIC



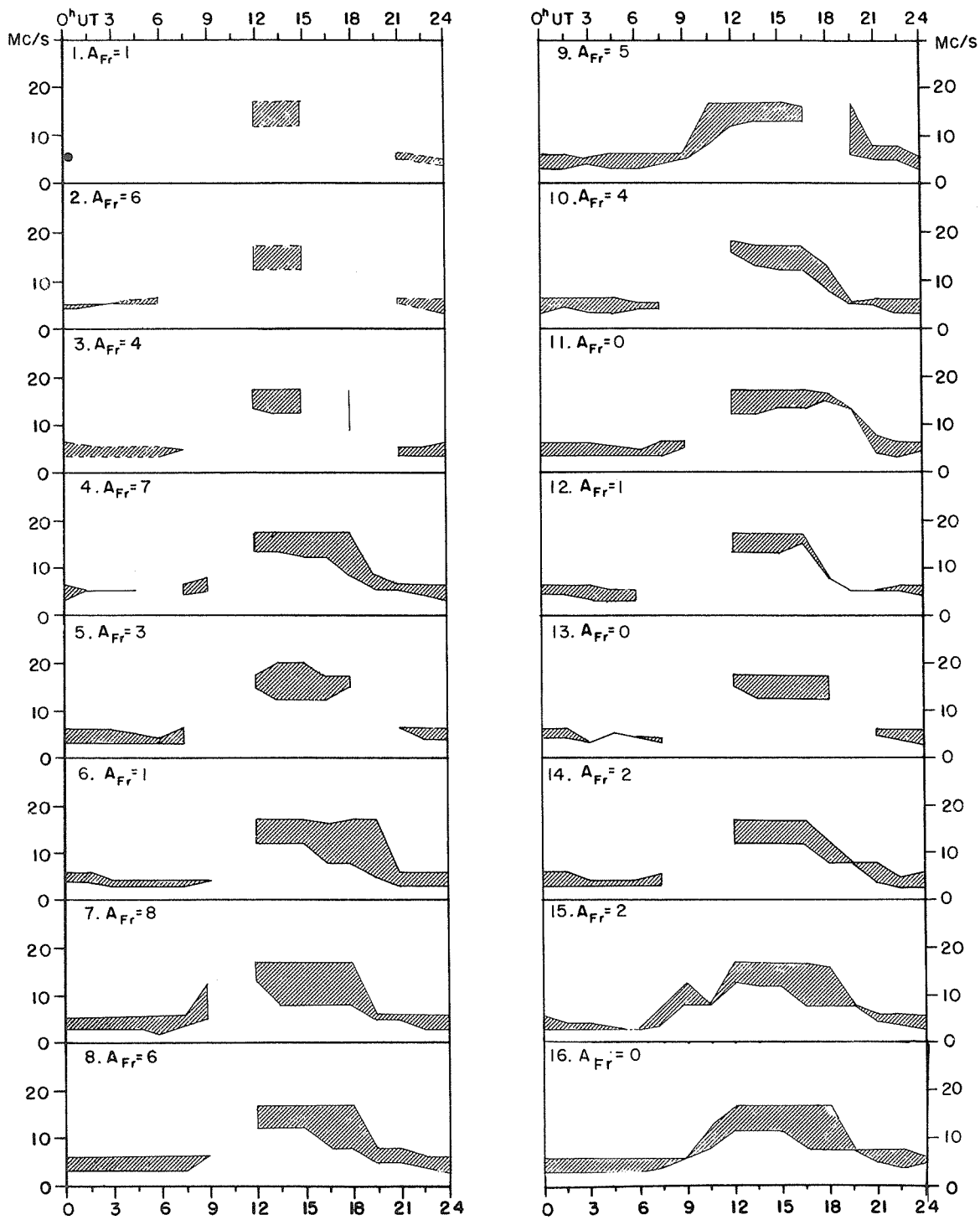
HIGH LATITUDE



VIIc

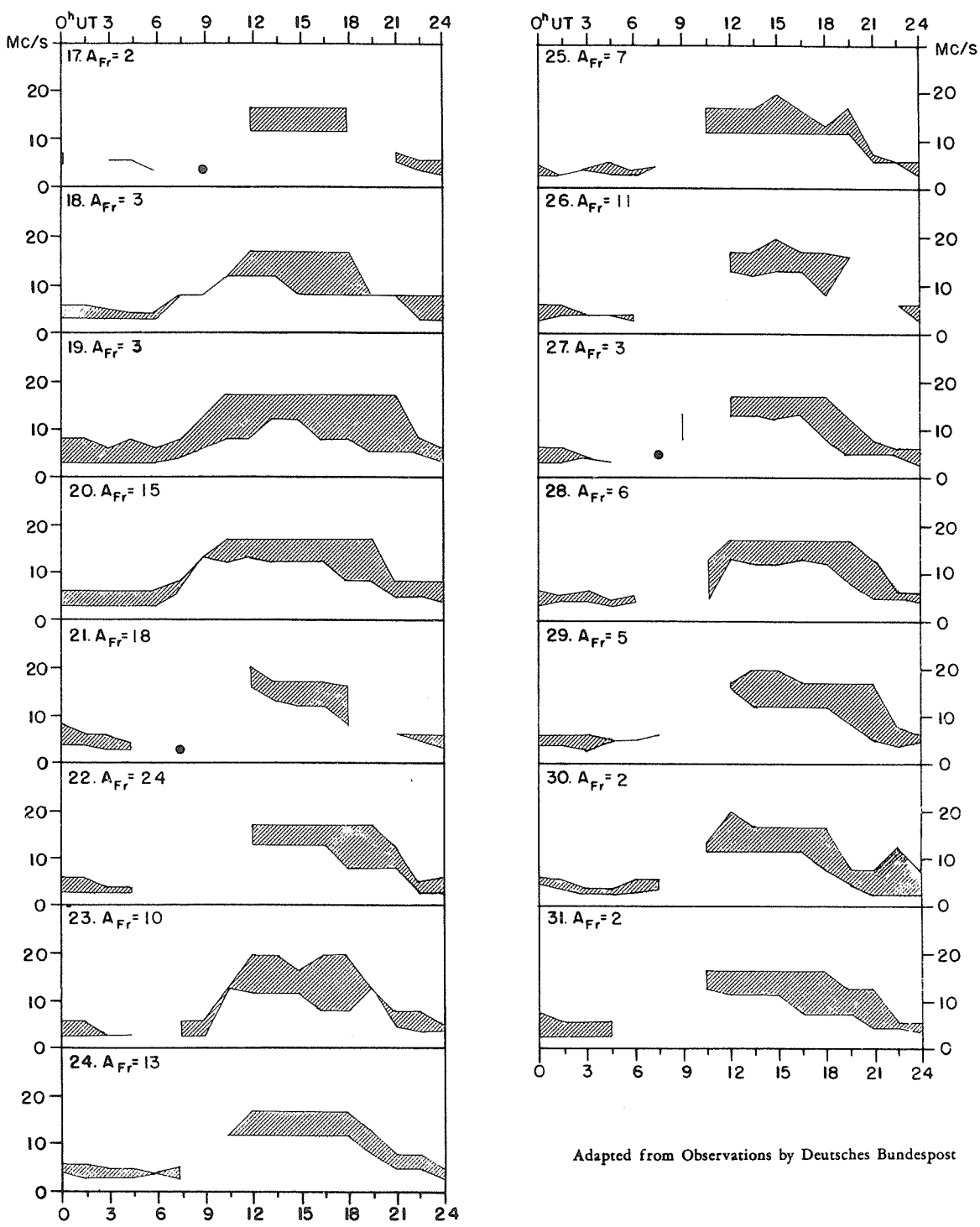
USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

JANUARY 1966



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

JANUARY 1966



Adapted from Observations by Deutsches Bundespost

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

FEBRUARY 1966

FEB. 1966	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
2	1615	Sac Peak, Solar Flare 02/1520Z				
7	1635	Ottawa, Solar Flare 07/1610Z				
12	0305*	ADALERTPRESTO TENFLARE Toyokawa 18/2300Z				
20	1415	Ottawa, Solar Flare 20/1342Z				
23	1330	AGIWARN, Magnetic Storm 22/14XXZ				
28	0525	Quezon City, Solar Flare 28/0352Z				

* Time when Alert was relayed by AGIWARN