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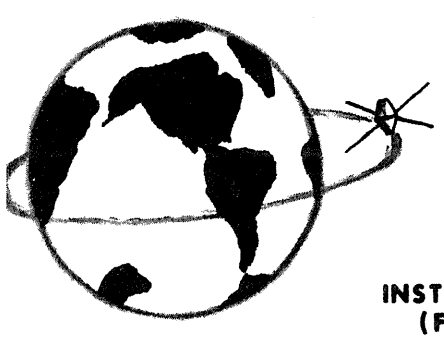
SOLAR-GEOPHYSICAL DATA

Issued: February 1966



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

CRPL-FB 258

ISSUED

28 Feb 1966

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
INSTITUTE FOR TELECOMMUNICATION SCIENCES AND AERONOMY
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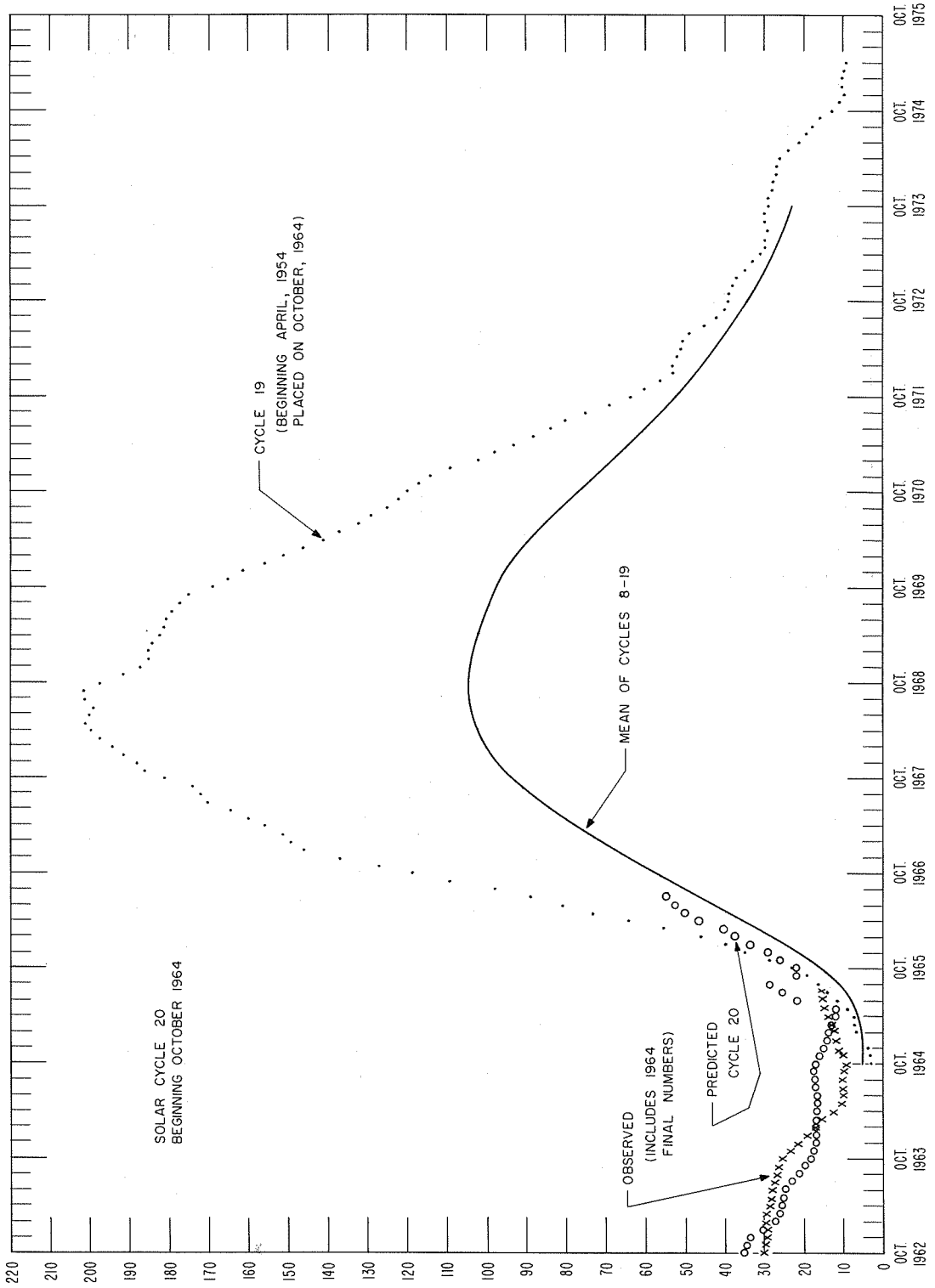
The revised descriptive text was published in January 1966.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

RELATIVE SUNSPOT NUMBERS

ZÜRICH, R_Z

Day	1965 Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	1965 Dec.	1966 Jan.
1	23	14	16	0	0	9	18	0	20	52	29	13	18
2	26	13	7	0	14	24	20	0	20	63	28	8	17
3	31	13	0	0	8	36	19	15	21	60	20	8	16
4	31	13	8	0	8	38	17	14	22	62	13	8	15
5	26	10	13	0	7	34	8	0	22	55	13	8	8
6	19	23	26	0	0	30	17	16	19	39	29	8	7
7	18	23	26	0	11	32	22	7	23	27	40	8	7
8	17	17	7	0	15	24	29	31	22	7	46	15	13
9	11	23	0	0	9	23	33	12	18	8	38	7	13
10	8	17	12	0	0	9	29	14	15	13	41	7	7
11	7	17	9	0	0	7	35	16	19	8	40	0	8
12	0	23	18	9	15	0	30	13	17	9	26	0	0
13	0	25	16	9	21	0	23	8	17	8	17	14	17
14	7	16	17	15	15	14	12	7	8	7	16	0	30
15	8	23	12	27	30	0	11	0	8	0	10	14	36
16	7	15	9	18	36	0	8	0	16	7	9	22	57
17	7	8	11	17	55	12	7	0	8	0	7	21	50
18	20	8	22	8	72	25	0	7	9	0	0	20	64
19	22	0	17	7	75	16	0	7	7	10	0	18	68
20	28	0	19	7	72	21	0	7	0	12	0	15	63
21	23	7	9	9	70	19	0	7	0	15	0	10	52
22	22	0	0	15	62	14	0	0	0	26	7	11	44
23	13	0	0	17	50	7	0	0	11	23	0	9	38
24	19	13	7	10	43	7	0	8	17	16	7	8	41
25	18	15	17	7	30	7	7	0	13	24	0	12	27
26	18	22	10	11	22	7	0	8	17	17	7	23	19
27	34	23	18	10	7	8	7	14	24	17	0	29	16
28	17	18	12	8	0	23	0	12	23	9	8	64	14
29	25		9	0	0	18	0	16	37	8	8	64	19
30	22		9	0	0	14	9	15	50	8	15	44	28
31	15		8		0		7	22		14		38	15
Mean:	17.5	14.2	11.7	6.8	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0	26.7

Yearly Mean = 15.1

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

AMERICAN, R_A'

Day	1965 Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	1965 Dec.	1966 Jan.
1	24	13	6	0	0	14	12	0	15	33	29	10	25
2	26	12	1	0	3	20	9	0	17	39	27	10	21
3	29	13	1	0	4	29	6	7	19	50	20	10	19
4	30	11	5	0	1	39	6	2	19	43	11	9	13
5	28	10	6	0	1	33	3	0	16	37	1	10	7
6	18	17	5	0	0	33	13	0	21	26	29	12	1
7	13	19	8	0	9	34	22	7	21	16	43	9	0
8	16	20	0	0	10	21	20	6	19	5	34	2	1
9	5	20	1	0	4	13	22	9	19	10	38	3	0
10	2	22	12	0	0	2	19	10	18	11	43	0	0
11	0	21	10	5	1	0	20	10	17	11	38	0	0
12	0	22	20	10	7	0	25	14	21	9	24	0	0
13	0	22	20	11	10	0	15	1	18	10	15	0	19
14	4	22	20	12	4	0	14	1	12	2	16	0	30
15	0	24	21	17	29	0	11	0	11	0	14	18	37
16	4	14	16	12	37	0	11	0	10	0	12	21	31
17	10	10	19	14	57	10	4	0	5	0	0	18	43
18	16	3	23	8	55	17	0	3	4	0	0	19	43
19	16	0	23	0	65	15	0	1	2	8	0	16	55
20	26	0	14	1	55	13	0	2	1	12	0	0	55
21	21	0	2	13	48	11	0	0	0	14	0	7	41
22	8	0	0	19	43	5	0	0	0	22	0	8	34
23	15	0	0	18	39	0	0	0	14	20	3	10	36
24	18	4	3	10	30	0	0	0	14	21	4	6	31
25	24	14	13	10	23	0	0	0	12	16	0	17	18
26	24	19	11	16	14	1	0	3	15	11	0	20	14
27	21	22	12	12	1	6	0	16	13	12	0	35	15
28	19	19	8	3	0	6	0	12	21	11	6	44	14
29	27		1	0	0	8	1	3	35	11	9	55	20
30	24		0	0	0	13	5	12	41	11	10	47	21
31	15		0		0		0	19		12		28	3
Mean:	15.6	13.3	9.1	6.4	17.7	11.4	7.7	4.5	15.0	15.6	14.2	14.3	20.9

DAILY SOLAR FLUX AT 2800 Mc/s

Ic

OTTAWA-ARO

OBSERVED FLUX, S

Day	1965 Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	1965 Dec.	1966 Jan.
1	78.5	76.5	71.2	71.1	70.8	76.0	72.0	75.4	92.0	78.8	75.4	82.0
2	79.1	75.3	71.6	70.8	73.7	75.6	73.0	75.9	93.2	79.5	75.0	78.9
3	78.7	75.0	71.3	70.7	75.2	76.2	77.3	76.6	96.0	81.1	74.9	78.5
4	77.4	75.0	71.0	69.7	78.2	75.9	78.4	76.7	97.5	79.8	74.5	80.5
5	76.2	76.1	70.7	69.0	78.3	75.4	76.3	78.7	91.6	78.0	75.4	80.0
6	76.2	76.7	70.9	70.4	78.4	78.5	78.8	77.1	85.2	80.7	76.2	79.7
7	77.3	77.0	70.7	71.4	77.2	81.5	79.6	77.7	83.6	85.2	75.3	80.9
8	75.4	74.5	70.5	72.0	78.4	81.0	77.3	78.6	82.8	80.4	76.7	80.6
9	75.4	73.0	71.7	72.4	79.0	81.4	77.6	76.1	83.3	82.0	75.0	80.1
10	75.9	73.1	73.1	72.1	78.3	80.3	76.1	75.6	80.4	84.1	75.3	79.8
11	73.7	71.9	73.7	71.1	76.5	79.9	76.7	75.7	76.0	84.2	75.6	80.9
12	73.1	73.5	73.3	71.8	76.0	78.2	75.9	75.3	74.8	80.8	75.9	84.0
13	72.4	75.6	73.6	74.4	76.8	76.3	74.8	75.0	75.8	77.3	74.0	87.2
14	71.9	74.6	75.3	75.4	76.1	74.7	73.7	75.2	74.7	76.0	74.7	93.2
15	72.6	72.7	75.0	80.5	76.7	74.5	72.5	74.9	73.8	76.5	76.8	101.9
16	73.2	71.3	74.6	86.3	76.0	72.1	73.8	73.7	72.3	74.0	77.6	106.0
17	73.4	71.6	73.2	91.1	76.3	71.9	72.4	73.8	72.5	74.3	78.4	101.7
18	72.2	75.0	73.0	90.4	78.2	71.9	73.2	73.0	72.2	75.0	78.4	104.8
19	72.3	77.0	74.1	92.4	74.9	72.5	74.3	72.8	71.8	73.4	76.8	108.6
20	71.4	74.4	72.4	94.7	76.0	73.0	73.7	72.8	72.7	72.7	74.5	102.3
21	71.6	74.0	73.0	92.8	75.9	72.6	73.6	72.5	73.3	72.2	74.1	98.9
22	71.9	72.7	72.7	92.2	78.2	71.5	72.9	71.2	76.2	71.8	72.3	94.7
23	73.0	73.0	73.2	86.2	80.2	70.9	73.0	71.8	78.7	71.3	72.7	93.5
24	74.5	72.5	70.8	85.1	78.1	70.1	72.7	76.1	76.3	71.2	71.2	91.8
25	74.2	73.8	69.6	81.0	79.3	70.0	72.2	75.8	77.9	70.6	72.1	88.1
26	73.8	73.3	69.1	77.9	78.7	69.4	72.0	77.0	78.2	71.8	76.9	85.4
27	76.1	72.1	69.2	76.0	77.7	70.0	74.5	78.4	78.0	74.1	83.7	82.4
28	76.3	71.7	69.5	74.5	76.7	70.6	73.2	80.5	77.2	77.0	83.8	80.5
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:	74.6	73.8	71.9	78.1	77.0	74.3	74.8	76.3	79.6	76.8	76.5	87.9

FLUX ADJUSTED TO 1 A.U., S_0

Day	1965 Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	1965 Dec.	1966 Jan.
1	76.2	75.1	71.1	72.2	72.8	78.6	74.2	76.8	92.2	77.6	73.3	79.3
2	76.8	74.0	71.5	71.9	75.8	78.2	75.2	77.3	93.3	78.2	72.9	76.3
3	76.4	73.7	71.3	71.9	77.4	78.8	79.6	77.9	96.1	79.8	72.7	75.9
4	75.2	73.8	71.1	70.9	80.5	78.5	80.7	78.0	97.5	78.4	72.3	77.8
5	74.1	74.8	70.8	70.2	80.6	78.0	78.5	80.0	91.6	76.7	73.2	77.4
6	74.1	75.5	71.0	71.7	80.7	81.2	81.1	78.3	85.1	79.2	74.0	77.1
7	75.2	75.8	70.8	72.7	79.5	84.3	81.8	78.9	83.5	83.7	73.0	78.2
8	73.4	73.4	70.7	73.4	80.7	83.8	79.5	79.8	82.6	78.9	74.4	77.9
9	73.4	71.9	71.9	73.8	81.4	84.1	79.8	77.2	83.0	80.4	72.7	77.4
10	73.9	72.1	73.4	73.5	80.7	83.0	78.2	76.7	80.1	82.4	73.0	77.2
11	71.8	70.9	74.1	72.5	78.9	82.6	78.8	76.7	75.7	82.5	73.2	78.2
12	71.2	72.6	73.7	73.3	78.4	80.8	77.9	76.3	74.5	79.1	73.5	81.2
13	70.6	74.6	74.0	76.0	79.2	78.8	76.7	75.9	75.4	75.7	71.7	84.3
14	70.1	73.7	75.8	77.0	78.5	77.2	75.6	76.1	74.3	74.4	72.4	90.1
15	70.8	71.9	75.5	82.3	79.1	77.0	74.4	75.7	73.3	74.8	74.4	98.5
16	71.4	70.5	75.1	88.3	78.4	74.5	75.6	74.5	71.8	72.4	75.1	102.6
17	71.6	70.8	73.8	93.2	78.7	74.3	74.2	74.5	72.0	72.6	75.9	98.4
18	70.5	74.3	73.7	92.6	80.8	74.3	75.0	73.7	71.6	73.3	75.9	101.4
19	70.6	76.3	74.8	94.6	77.4	74.9	76.1	73.4	71.2	71.6	74.3	105.1
20	69.8	73.8	73.1	97.0	78.5	75.4	75.5	73.4	72.0	70.9	72.1	99.0
21	70.0	73.4	73.7	95.1	78.4	75.0	75.3	73.1	72.6	70.5	71.7	95.7
22	70.3	72.1	73.5	94.5	80.7	73.9	74.6	71.7	75.4	70.0	70.0	91.8
23	71.5	72.5	74.0	88.4	82.8	73.2	74.6	72.3	77.9	69.5	70.3	90.6
24	72.9	72.0	71.6	87.3	80.7	72.4	74.3	76.6	75.5	69.3	68.8	88.9
25	72.7	73.4	70.4	83.1	81.9	72.3	73.8	76.2	77.0	68.8	69.7	85.4
26	72.3	73.0	70.0	80.0	81.4	71.7	73.5	77.4	77.3	69.9	74.4	82.7
27	74.6	71.8	70.2	78.1	80.3	72.3	76.0	78.7	77.0	72.1	80.9	79.9
28	74.8	71.4	70.5	76.5	79.3	72.9	74.7	80.8	76.2	74.9	81.0	78.1
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:	72.7	73.0	72.4	79.9	79.4	76.8	76.6	77.2	79.1	75.1	74.1	85.0

CALCIUM PLAGE AND SUNSPOT REGIONS

JANUARY 1966

JAN. 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	
1.4	N33	8112 (2)	8075	400	1.5	ℓ - d	3	< 1/1	> 5			
2.5	N29	8113 (2)	8075	(300)	(1.5)	ℓ - d	3	< 1/1	> 5			
3.1	N36	8114 (2)	8075	200	1.0	ℓ - d	3	< 1/1	> 5			
3.9	N05	8115 (1)	New	(100)	(1.0)	b - d	1	1/1	1			
5.4	N23	8118 (1)	New	(400)	(1.0)	b - d	1	1/4	1			
5.6	N11	8122	New	(400)	(2.0)	b ∨ ℓ	1	1/8	4	(7)	(1)	b - d
6.2	N05	8120 (1)	New	(100)	(1.5)	b - d	1	1/5	1			
6.6	N21	8123 (1)	New	(300)	(2.0)	b - d	1	1/8	1			
7.6	N27	8119 (1)	New	(100)	(1.5)	b - d	1	1/4	1			
7.8	S19	8116	New	(500)	(1.5)	ℓ \ d	1	1/1	9	(1)	(1)	ℓ \ d
8.0	N27	8126 (1)	New	(100)	(1.5)	b - d	1	1/10	1			
11.0	N22	8117	8083	3100	3.0	ℓ ∧ ℓ	2	1/3	14	(2)	(3)	b - d
11.8	N01	8127	New	(100)	(1.5)	b - d	1	1/15	≥ 1			
11.9	N05	8121 (1)	New	(300)	(1.5)	b - d	1	1/6	1			
13.1	S29	8134 (1)	New	(300)	(2.0)	b - d	1	1/16	1			
13.2	N24	8124	New	(300)	(1.0)	b \ d	1	≤ 1/8	> 5			
14.8	N40	8128 (1)	New	(100)	(1.0)	b - d	1	1/15	1			
15.1	N19	8129	8099	300	1.0	ℓ \ d	2	1/9	≥10			
15.4	S28	8135 (1)	New	(200)	(2.0)	b - d	1	1/16	1			
16.6	S00	8136 (1)	New	(100)	(1.0)	b - d	1	1/18	1			
17.4	N31	8140 (1)	New	(300)	(1.0)	b - d	1	1/21	1			
18.5	S26	8137 (1)	New	200	1.5	b - d	1	1/18	1			
19.6	N29	8130	New	(1000)	(3.0)	b ∧ d	1	≤ 1/15	≥11	(10)	(1)	b ∧ d
19.7	N17	8131	New	(3500)	(3.0)	ℓ ∧ ℓ	1	≤ 1/15	≥11	(290)	(53)	ℓ ∧ ℓ
21.0	N09	8132	8105	(3100)	(3.0)	ℓ ∧ ℓ	2	1/15	>12			
21.8	S37	8138 (1)	New	(100)	(1.5)	b - d	1	1/18	1			
21.9	N30	8133	New	2800	3.0	ℓ ∧ ℓ	1	1/15	14	(15)	(6)	b ∧ d
22.1	N19	8144 (1)	New	(200)	(1.0)	b - d	1	1/25	1			
23.8	N23	8141 (1)	New	(100)	(1.0)	b - d	1	1/21	1			
24.7	N08	8142 (1)	New	(100)	(1.5)	b - d	1	1/21	1			
24.8	N19	8150	New	(300)	(1.5)	b - d	1	1/28	2			
25.6	S05	8145 (1)	New	(200)	(1.0)	b - d	1	1/26	1			
25.6	S23	8139	New	1200	3.0	ℓ ∧ ℓ	1	1/18	14	190	20	b ∧ ℓ
26.5	S25	8152	New	(600)	(3.5)	b - d	1	1/29	4	(20)	(7)	b - d
28.7	N26	8143	8107	100	1.0	ℓ - d	2	< 1/24	> 7			
28.8	S29	8148	8110	300	1.5	ℓ - ℓ	2	< 1/27	> 6			
29.5	N23	8155 (1)	New	(200)	(1.0)	b - d	1	1/31	1			
29.9	S02	8151 (1)	New	(200)	(1.0)	b - d	1	1/28	1			
30.5	S26	8146	New	(100)	(1.0)	b - d	1	1/26	2			

(1) These small and ephemeral plages were seen on the disk for only one day.
(2) Regions 8112, 8113 and 8114 are parts of region 8075.

Due to very poor weather conditions, no calcium plage observations were secured at the McMath-Hulbert Observatory on January 2, 7, 12, 13, 14, 17, 19, 20, and 22, 1966.

MT. WILSON MAGNETIC CLASSIFICATIONS OF SUNSPOTS

JANUARY 1966

JAN. 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.	JAN. 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1-2	No Obs.					15-20	No Obs.				
4	0000	S27	W53	αp	15980	21	1630	N18	W27	βγ	15985
		N22	W44	αp	15981			N32	E04	αf	15987
								N27	W28	βf	15988
4	2140	N22	W57	αp	15981			N32	E12	β	15989
5-7	No Spots					22	1900	N18	W42	βf	15985
								N32	W08	αf	15987
8	2320	N10	W46	αp	15982			N29	W41	αp	15988
								S24	E33	β	15990
9	1620	N08	W56	αp	15982						
		N21	E11	αf	15983	23	1630	N19	W53	βf	15985
								N32	W20	αf	15987
10	No Spots							S24	E22	β	15990
11	Faint markings					24	1930	N19	W66	αf	15985
								N32	W34	αf	15987
12	No Spots							S23	E07	βp	15990
13	1850	N30	E72	β	15984	25	1630	S23	W04	βp	15990
		N19	E78	βp	15985						
						26-31	No Obs.				
14	1820	N27	E58	βp*	15984						
		N17	E63	γ	15985						

* Reversed Polarities for Cycle 20.

FINAL CORONAL LINE EMISSION INDICES

OCTOBER 1965

CMP Oct 1965	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	16	29	2	10	11	35	10	14	32	55	21	39	28	66	17	24
2	31	55	13	17	21	42	14	21	24	42	17	30	33	77	18	34
3	27	72	12	17	18	52	16	26	21	29	21	51	55	100	32	57
4	19	28	31	49	5	10	24	37	6	16	22	25	24	38	24	36
5	16	38	23	35	4	7	23	31	15	30	8	10	27	38	16	19
6	x	x	x	x	x	x	x	x	10	26	10	14	9	14	14	20
7	9	13	9	13	4	8	11	12	7	11	13	17	7	13	19	24
8	32	53	7	25	25	37	4	17	3	8	9	12	1	4	17	24
9	6	9	8	13	2	5	12	15	13	20	9	17	14	16	20	34
10	6	9	3	14	7	10	9	13	11	15	7	12	14	19	7	10
11	5	9	8	12	4	6	19	24	4	8	12	16	4	10	15	20
12	7	8	6	9	0	0	10	14	2	3	7	9	4	5	7	8
13	x	x	x	x	x	x	x	x	4	6	5	6	8	11	8	11
14	x	x	x	x	x	x	x	x	2	6	4	8	23	41	11	16
15	23	42	9	20	1	4	5	9	9	10	2	5	25	44	17	30
16	17	25	16	27	3	7	9	16	12	19	x	x	27	35	x	x
17	29	43	19	39	12	18	13	22	1	4	8	14	13	21	8	12
18	12	16	7	10	1	4	x	x	3	6	8	12	17	22	10	15
19	24	33	3	4	5	6	6	7	0	2	x	x	17	33	x	x
20	6	8	11	14	2	6	14	18	4	7	16	20	14	31	16	25
21	7	12	9	12	3	9	17	24	6	12	8	11	15	20	13	16
22	1	8	9	11	3	9	16	24	1	4	9	13	5	7	8	12
23	22	26	10	19	20	47	23	46	6	10	5	6	6	9	5	16
24	15	23	8	10	16	21	10	15	4	7	7	13	6	7	8	12
25	4	7	6	10	3	4	11	15	7	8	x	x	10	13	x	x
26	3	3	8	12	2	3	11	15	4	8	14	15	0	0	15	16
27	11	17	13	19	3	6	10	19	x	x	x	x	x	x	x	x
28	44	116	x	x	20	52	x	x	20	38	9	15	19	40	15	20
29	56	108	16	30	28	53	26	44	8	17	11	25	22	41	18	30
30	75	117	x	x	46	69	x	x	13	16	2	11	32	48	16	26
31	34	52	14	20	16	32	16	23	3	7	x	x	19	28	x	x

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

FINAL CORONAL LINE EMISSION INDICES

NOVEMBER 1965

CMP Nov 1965	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	x	x	7	10	x	x	15	22	7	10	6	9	13	15	18	22
2	6	8	29	37	2	6	28	44	9	11	5	13	16	24	3	10
3	5	6	11	16	5	7	21	28	x	x	x	x	x	x	x	x
4	7	10	11	15	2	4	15	26	x	x	x	x	x	x	x	x
5	3	8	9	13	0	3	11	26	x	x	x	x	x	x	x	x
6	11	36	x	x	4	7	x	x	x	x	x	x	x	x	x	x
7	14	39	20	41	0	0	11	13	x	x	x	x	x	x	x	x
8	20	46	x	x	9	11	x	x	x	x	x	x	x	x	x	x
9	9	15	20	32	0	3	16	23	x	x	x	x	x	x	x	x
10	x	x	x	x	x	x	x	x	13	15	8	10	37	66	25	34
11	x	x	13	24	x	x	12	16	x	x	x	x	x	x	x	x
12	8	9	9	16	0	0	11	16	x	x	1	4	x	x	17	27
13	x	x	3	8	10	15	7	13	x	x	x	x	x	x	x	x
14	12	14	x	x	0	0	x	x	x	x	x	x	x	x	x	x
15	18	27	9	13	2	6	12	14	x	x	x	x	x	x	x	x
16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
17	37	50	10	30	13	14	16	25	x	x	x	x	x	x	x	x
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	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
22	x	x	x	x	x	x	x	x	5	8	x	x	4	5	x	x
23	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
24	22	26	20	28	22	39	14	17	8	10	5	6	21	36	5	16
25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
26	x	x	16	32	x	x	8	17	x	x	x	x	x	x	x	x
27	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x	5	7	6	15	9	12	6	9
29	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
30	x	x	x	x	x	x	x	x	13	16	5	7	14	15	4	7

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

FINAL CORONAL LINE EMISSION INDICES

DECEMBER 1965

CMP Dec 1965	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	x	x	x	x	x	x	x	x	11	12	5	8	14	18	6	12
2	x	x	x	x	x	x	x	x	13	18	8	19	11	18	7	8
3	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
4	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5	x	x	x	x	x	x	x	x	9	11	16	23	46	92	13	15
6	21	40	x	x	4	7	x	x	10	12	15	17	35	48	14	20
7	x	x	x	x	x	x	x	x	x	x	x	x	15	21	19	25
8	38	55	12	28	16	18	6	8	x	x	x	x	x	x	x	x
9	x	x	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	13	16	9	12	4	9	9	10	6	24	x	x	13	22	x	x
13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
14	40	68	12	16	14	16	9	12	0	3	x	x	40	71	x	x
15	34	53	32	80	13	14	15	22	x	x	x	x	x	x	x	x
16	35	43	26	68	16	18	10	15	x	x	x	x	x	x	x	x
17	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
18	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
19	19	23	17	24	8	9	15	23	x	x	x	x	x	x	x	x
20	14	18	17	23	9	10	16	22	x	x	x	x	x	x	x	x
21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
22	x	x	x	x	x	x	x	x	1	5	8	11	5	8	12	17
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	8	13	3	10	41	78	9	13
25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
26	4	14	x	x	0	2	x	x	x	x	x	x	x	x	x	x
27	x	x	x	x	x	x	x	x	1	6	7	10	2	5	11	14
28	x	x	x	x	x	x	x	x	2	6	11	15	4	7	15	21
29	x	x	x	x	x	x	x	x	7	10	13	19	7	11	18	24
30	x	x	x	x	x	x	x	x	6	15	13	23	9	15	15	20
31	x	x	x	x	x	x	x	x	19	38	x	x	16	33	x	x

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

PROVISIONAL CORONAL LINE EMISSION INDICES

JANUARY 1966

CMP Jan 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	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
2	x	x	x	x	x	x	x	x	4	6	9	16	14	19	13	17
3	x	x	x	x	x	x	x	x	3	5	18	27	13	18	18	31
4	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
5	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
6	9	20	7	8	4	5	9	10	0	0	11	15	10	19	13	15
7	x	x	x	x	x	x	x	x	0	0	x	x	14	23	x	x
8	x	x	x	x	x	x	x	x	0	0	14	17	12	26	10	15
9	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
10	35	103	18	44	0	0	15	17	x	x	x	x	x	x	x	x
11	37	86	23	47	5	9	17	20	x	x	x	x	x	x	x	x
12	24	43	15	29	1	4	13	17	x	x	x	x	x	x	x	x
13	11	17	11	21	0	0	14	17	x	x	x	x	x	x	x	x
14	14	26	x	x	0	0	x	x	x	x	x	x	x	x	x	x
15	x	x	x	x	x	x	x	x	1	7	20	25	6	12	22	25
16	10	17	19	24	1	5	15	17	x	x	x	x	x	x	x	x
17	9	12	19	25	3	5	17	20	0	0	15	23	26	41	29	52
18	x	x	x	x	x	x	x	x	2	7	12	15	41	57	28	55
19	x	x	x	x	x	x	x	x	2	4	12	15	81	119	36	65
20	39	75	22	29	2	12	11	14	1	5	x	x	72	122	17	23
21	61	91	x	x	9	36	x	x	1	6	8	12	54	69	17	20
22	30	44	10	16	1	5	13	20	2	9	10	12	24	39	16	18
23	x	x	x	x	x	x	x	x	0	0	14	22	7	10	15	20
24	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
26	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
27	x	x	x	x	x	x	x	x	0	0	15	24	11	24	19	24
28	x	x	x	x	x	x	x	x	x	x	4	8	5	10	7	15
29	10	18	12	19	6	14	21	25	x	x	x	x	x	x	x	x
30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
31	15	31	12	14	4	6	23	25	x	x	x	x	x	x	x	x

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

SOLAR FLARES

JANUARY 1966

OBSERVATORY	OBSERVED UT DATE 1966 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
MANI	01	0721E	0736D		N21	W06		8107		15D	SF	2		0722	•41	•40			
KANZ	03	0908E	0920D		N25	W36		8107		12D	SF								D
LOCK	03	2023	2037	2029	S10	W35		8110		14	SN		C	2029	•30	•30		20	
SACP	04	2150	2207	2152	S18	E37		8116		17	SF		C		•42	•45			
HALE	04	2151	2202D	2152	S19	E36		8116		11D	SN		P	2152	•41	•50			F
HALE	04	2350	0010	2354	S19	E35		8116		20	SN		C	2354	•60	•80			F
ARCE	06	0850E	0955D	0900	N20	E50		8117		65D	SN		C	0900	•31	•54			
ARCE	07	0900E	1000D	0915	N22	W08		8123		60D	SN		C	0915	•77	•86			
ARCE	08	0900E	0915D	0905	N12	W35		8122		15D	SB		C	0905	•19	•24			
HALE	09	2345	0002	2347	N25	W26		8126		17	SF		C	2347	•20	•30			
SACP	09	2345	2358	2348	N25	W26		8126		13	SF		C		•52	•56			
KAND	10	1034	1049D		N10	W08		8117		15D	SF		S						
SACP	10	1523	1533D	1528	N21	W01		8117		10D	SF		C		•42	•41			
CLMX	10	1524E	1531	1527	N21	W01		8117		7D	SF		C	1527	•20	•20			
MCMA	10	1748E	1759		N21	W05		8117		11D	SF		SP	1752	•42	•20			DS
HALE	10	1757	1808	1800	N20	W04		8117		11	SN		C	1800	•10	•10			
HALE	11	0129	0158	0136	N20	W12		8117		29	SN		C	0136	•60	•70			F
KAND	11	0720E	0836		N28	W90				76D	1B		P						
OTTA	11	1629	1631D		N24	W53		8126		2D	SF		C	1130					
HALE	11	2224	2235	2230	N24	W80		8122		11	SN		C	2230	•41	•80			
HALE	13	0052	0112	0058	N18	E90		8131		20	SN		P	0058	•20				
HALE	13	0202	0213	0210	N19	E90		8131		11	SN		C	0210	•20				
HALE	13	0237	0245	0242	N18	E90		8131		8	SN		C	0242	•10				
HALE	13	0246	0319	0254	N18	E90		8131		33	SN		C	0254	•41				
HUAN	13	1135E	1142		N15	E80		8131		7D	SF		P	1137	•26				D
HALE	13	1917	1929	1925	N18	E80		8131		12	SB		C	1925	•41				
HALE	13	2158	2209D	2200	N17	E80		8131		11D	SN		C	2200	•20				
HALE	13	2242	2256	2250	N21	E80		8131		14	1F		C	2250	•71				
HALE	13	2259	2315		N17	E80		8131		16	SN		P	2301	•30				
MANI	14	0108	0118	0111	N19	E75		8131		10	SF	3		0111	•32	•70			
IKOM	14	0128			N19	E74		8131			1N		P						
KAND	14	0805E	0825		N21	E90		8131		20D	SN		S						
ARCE	14	0825E	0830D		N18	E72		8131		5D	1B		P	0825	•96	2•29			F
KANZ	14	0916E	0921D		N19	E68		8131		5D	SF								
KANZ	14	0952	1010		N19	E73		8131		18	1F								
OTTA	14	1444	1448	1446	N20	E65		8131		4	SN		C	1446					
KANZ	14	1444E	1501		N18	E64		8131		17D	SF								E
OTTA	14	1458	1529	1512	N20	E70		8131		31	SN		C	1521					
OTTA	14			1521															
HUAN	14	1553	1609	1555	N19	E67		8131		16	SN		C	1555	•57				E
OTTA	14	1554	1601	1555	N19	E68		8131		7	SN		C	1555					
SACP	14	1555	1609	1557	N19	E65		8131		14	SF		C		•42	•74			
OTTA	14	1743	1757	1745	N20	E60		8131		14	SF		C	1745					
HALE	14	1815	1828	1821	N30	E90		8133		13	SN		C	1821	•20				
HALE	14	1821	1826	1821	N25	W90				5	SB		C	1821	•30				A
HALE	14	1842	1846	1843	N24	W90				4	SN		C	1843	•41				AF
OTTA	14	1849	1853D		N19	E62		8131		4D	SF		C	1850					
SACP	14	1849	1956U	1927	N19	E64		8131		67U	1N		C		1•65	2•86			
LOCK	14	1900	1955	1910	N18	E62		8131		55	1N		C	1910	1•50	3•30		20	J
HUAN	14	1910E	1958		N19	E65		8131		48D	SN		P	1927	•62				E
CLMX	14	1911E	1956	1927	N18	E66		8131		45D	SB		C	1927	•70	1•20			
HUAN	14	2045	2105	2055	N20	E66		8131		20	SF		C	2055	•26				DH
SACP	14	2046	2103U	2055	N14	E57		8131		17U	SF		C		•17	•24			
SACP	14	2123	2132U	2125	N14	E57		8131		9U	SF		C		•17	•24			
HALE	14	2211	2219	2214	N13	E58		8131		8	SF		C	2214	•20	•40			
LOCK	14	2219	2247	2230	N13	E55		8131		28	SN		C	2230	•70	1•30		20	H
HUAN	14	2226	2235	2229	N16	E58		8131		9	SF		C	2229	•42	•60			E
HALE	14	2226	2245	2228	N12	E55		8131		19	SN		C	2228	•50	1•00			F
SACP	14	2227	2244	2229	N14	E57		8131		17	SN		C		•42	•60			
HALE	14	2236	2244	2239	N30	E90		8133		8	SN		C	2239	•41				FH
HALE	14	2318	2344	2326	N30	E90		8133		26	SB		C	2326	•41				
HALE	15	0005	0016	0007	N30	E90		8133		11	SN		C	0007	•30				
HALE	15	0147	0200D	0154	N30	E90		8133		13D	SN		C	0154	•20				
WEND	15	1040E	1058		N17	E58		8131		18D	1N		VP		3•10				
HUAN	15	1131E			N17	E56		8131			SF		P	1131	•31	•45			E
HUAN	15	1311	1323		N18	E56		8131		12	SF		P	1316	•42	•60			E
HUAN	15	1528	1555D		N19	E55		8131		27D	SF		P	1542	•31	•45			D
SACP	15	1538	1550	1544	N14	E48		8131		12	SN		C		•42	•52			
OTTA	15	1611	1624	1616	N13	E47		8131		13	SN		C	1616					

SOLAR FLARES

JANUARY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MOUNT PALAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
IKOM	16	0015	0035D		N19	E50		8131		20D	SF		V	0015	.83	1.40		75	D
CATA	16	1100E	1135D	1100	N28	E37		8130		35D	SN		C	1100	.73	1.10		199	
MCMA	16	1550	1604	1552	N19	E40		8131		14	SN		SC	1552	.26	.30			S
MCMA	16	1845E	2010D	1908	N21	E34		8131		85D	1N		VC	1908	1.45	2.00			FK
MCMA	16			1941															
HUAN	16	1902E	1906D		N20	E34		8131		4D	SF		P	1905	.36	.40			E
CLMX	16	1902	1909	1927D	N20	E35		8131		7	SN		C	1909	.50	.55			
HUAN	16	1955E	1958D		N20	E35		8131		3D	SN		P	1955	.78	.90			E
SACP	16	2003E	2003D	2003U	N20	E34		8131		0D	SF		P		1.33	1.49			
LOCK	16	1857	2128	1920	N24	E27		8130		151	SN		C	1920	.60	.80		20	J
LOCK	16	2050	2115	2100	N27	E27		8130		25	SN		C	2100	.30	.40		20	J
HUAN	16	2157	2201	2158	N19	E37		8131		4	SF		C	2158	.31	.34			D
HUAN	16	2228	2232	2229	N20	E38		8131		4	SF		C	2229	.21	.23			D
MITK	17	0201	0230	0210	N20	E36		8131		29	SN		C	0210	.73	.98			D
MITK	17	0423	0445	0429	N19	E35		8131		22	SN		C	0429	.73	.96			E
MANI	17	0443E	0452D	0446	N20	E39		8131		9D	SN	2		0446	.36	.40			
KANZ	17	1032E	1156D		N19	E27		8131		84D	2B			1111			3.50		FH
CATA	17	1034E	1134D	1045	N20	E26		8131		60D	1B		C	1045	2.16	2.70		240	
WEND	17	1046E	1250	1112	N19	E27		8131		124D	3B		VP		18.65				
ONDR	17	1114	1232	1123	N20	E24		8131		78	2F		V	1123			2.70		BFHZ
MEUD	17	1119E	1241D		N18	E29		8131		82D	2		C	1120	5.40	6.60			
HUAN	17	1206E	1249		N19	E29		8131		43D	1F		P	1207	1.13	1.28			
KANZ	17	1148E	1156D		N31	E58		8133		8D	SN								D
HUAN	17	1206E	1229		N30	E56		8133		23D	SF		P	1211	.21	.33			D
WEND	17	1207E	1225		N30	E58		8133		18D	SF								
HUAN	17	1505	1517		N30	E54		8133		12	SF		C	1510	.21	.32			E
HUAN	17	1800	1823	1802	N20	E26		8131		23	SB		C	1802	1.13	1.23			H
HALE	17	1800	1835	1806	N19	E22		8131		35	SF		C	1806	.80	.90			F
CLMX	17	1800	1835	1802	N21	E24		8131		35	SN		C	1802	.70	.77			
HUAN	17	1804	1810	1806	N19	E19		8131		6	SF		C	1806	.47	.56			E
HUAN	17	1841	1852		N31	E55		8133		11	SF		C	1843	.21	.32			D
HALE	17	1844	1847	1845	N16	E22		8131		3	SN		C	1845	.41	.50			
HUAN	17	1932	1936	1933	N30	E52		8133		4	SF		C	1933	.26	.39			D
HUAN	17	1945	1953	1948	N30	E52		8133		8	SF		C	1948	.36	.54			D
HUAN	17	2128	2149	2137U	N20	E23		8131		21	1N		C	2137	1.65	1.75			
CLMX	17	2130	2147D	2135	N21	E24		8131		17D	SB		C	2135	1.30	1.43			
HALE	17	2134	2144	2136	N17	E22		8131		10	1F		C	2136	2.00	2.30			L
HUAN	17	2224	2246D		N18	E25		8131		22D	SF		P	2235	.88	.93			E
HALE	18	0031E	0033D		N16	E17		8131		2D	SF		C	0033	.60	.70			
HUAN	18	1128	1139	1129U	N20	E16		8131		11	SF		C	1129	.57	.58			EH
HUAN	18	1249	1303	1252	N30	E13		8130		14	SF		C	1252	.31	.33			E
HUAN	18	1253	1318	1259	N20	E10		8131		25	SN		C	1259	.67	.68			EH
HUAN	18	1409	1424U	1415	N18	E17		8131		15U	SF		C	1415	.31	.31			E
HUAN	18	1447	1503	1452	N18	E17		8131		16	SF		C	1452	.36	.37			E
CLMX	18	2049	2121	2107	N19	E12		8131		32	SN		C	2107	.90	.90			
CLMX	18	2107	2115	2109	N22	E00		8131		8	SN		C	2109	.40	.40			
CLMX	18	2132	2154		N21	E10		8131		22	SN		C	2139	.30	.30			
LOCK	18	2253	0030D	2328	N21	E08		8131		97D	2N		C	2328	6.10	6.10		20	IJ
MANI	18	2254	0115	2312	N21	E07		8131		141	2B	3		2345	6.55	7.02	2.80	120	
HALE	18	2336E	2351D		N19	E08		8131		15D	2B		P	2341	5.20	5.70			F
MITK	18	2358E	0003D		N18	E04		8131		5D	1N		P	0002	2.70	2.90			FZ
IKOM	19	0015	0110D	0020	N19	E10		8131		55D	SF		V	0020	1.13	1.30		85	D
IKOM	19	0015	0120D		N17	E05		8131		65D	1B		V	0015	2.48	2.70	1.84	120	D
MITK	19	0023	0044D		N27	W10		8130		21D	1N		V						F
MITK	19	0305	0346		N27	W11		8130		41	1N		V						
MITK	19	0410E	0425D	0413	N27	W12		8130		15D	SN		V						
KAND	19	0813E	0822		N33	E41		8133		9D	SF		S						
ARCE	19	0815E	0835D	0825	N29	W01		8130		20D	SN		C	0825	1.11	1.36			EH
ARCE	19	0900E	1000D	0900	N30	W00		8130		60D	1N		C	0900	2.30	2.84			
ARCE	19	0920E	0950D	0925	N21	E02		8131		30D	SN		C	0925	.41	.45			D
MONT	19	1047	1104		N28	E03		8130		17	1F		C	1055	1.53				
MONT	19	1113	1145		N28	E37		8133		32	1F		C	1125	1.75				
CAPS	19	1310E	1315		N29	W01		8130		5D	SN	3		1310	1.00	1.20		166	GCEL
HUAN	19	1425	1436	1428	N30	E32		8133		11	SF		C	1428	.47	.55			EH
HUAN	19	1647	1701	1650U	N20	E01		8131		14	SN		C	1650	1.55	1.53			
HUAN	19	1720E	1725D		N30	E31		8133		5D	SF		P	1720	.26	.30			CE
MANI	19	2231E	2251D		N29	W09		8130		20D	1N	3		2235	2.40	2.76			
MANI	20	0008E	0015		N19	W05		8131		7D	SF	2		0010	1.00	1.06			
MANI	20	0023E	0047	0026	N29	W08		8130		24D	SN	2		0026	1.50	1.73			
IKOM	20	0035	0050		N28	W09		8130		15	SN		V	0038	1.24	1.40			D
MANI	20	0305	0318	0308	N31	W13		8130		13	SN	2		0308	1.30	1.55			
MANI	20	0419	0426	0421	N21	W07		8131		7	SF	2		0421	.20	.22			
CAPS	20	0921E	0926		N31	W13		8130		5D	SN	3		0924	.50	.60		157	E
HUAN	20	1230	1239	1235	N28	W10		8130		9	SF		C	1235	.52	.51			E
HUAN	21	1623	1644	1626	N20	W27		8131		21	SF		C	1626	.36	.38			EK

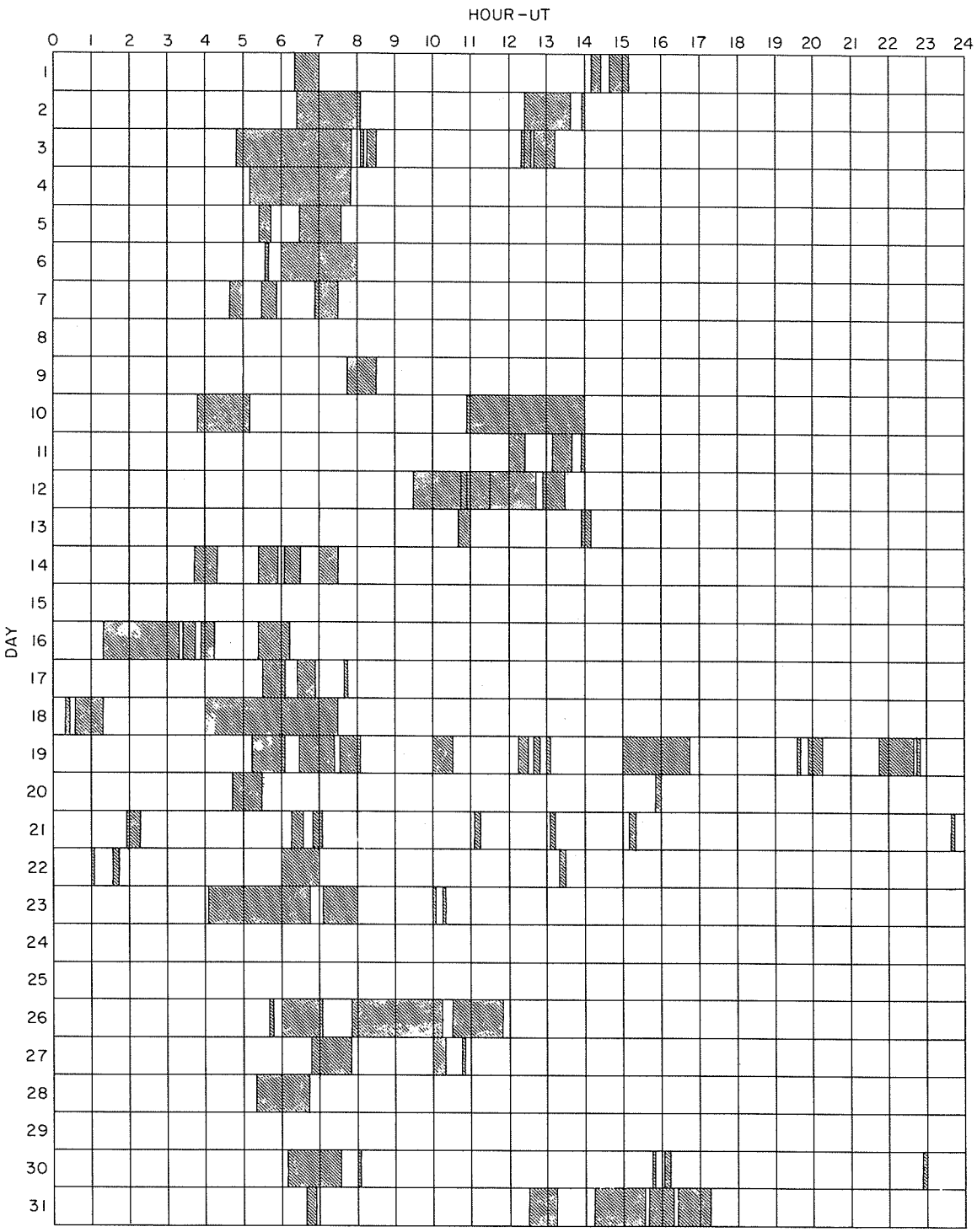
SOLAR FLARES

JANUARY 1966

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE 1966 JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY					TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
HUAN	21			1630															
HUAN	21	1652	1704	1655	N28	W31		8130		12	SF		C	1655	.31	.36			D
HUAN	21	1722	1737	1725	N29	W30		8130		15	SF		C	1725	.42	.48			E
MANI	22	0230	0241	0232	N18	W35		8131		11	SF	3		0233	.31	.40			
CAPS	22	0902	0910		S22	E37		8139		8	SN	3		0908	.80	1.00		173	EL
ARCE	22	1138E			S25	E39		8139			SN		P	1138	.47	.61			D
KANZ	22	1345E	1351D		S23	E40		8139		6D	SN								
KANZ	22	1352E	1358D		S23	E39		8139		6D	SF								
LOCK	22	1649	1710	1651	N19	W39		8131		21	SN		C	1651	.70	1.00		20	I
SACP	22	1651	1714U	1654	N19	W40		8131		23U	SN		C		1.09	1.28			
HUAN	22	1702E			N21	W41		8131			SF		P	1702	.31	.38			E
HALE	22	1911	1931	1917	N20	W47		8131		20	1N		C	1917	1.50	2.40			
SACP	22	1911	1959U	1941	N18	W46		8131		48U	SN		C		.66	.84			
HALE	22	1932	2005	1938	N19	W50		8131		33	SN		C	1938	.90	1.50			
ARCE	23	0841E	0900D		S23	E25		8139		19D	SN		C	0854	.80	.92			H
CAPS	23	1026E	1106		S20	E25		8139		40D	1N	2		1040	3.00	3.30		165	
CAPS	23	1029	1040D		N15	E50				11D	SF	2							
CAPS	23	1206	1216		S20	E25		8139		10	SF	3		1212	.50	.60		160	
CAPS	23	1450E	1509		S20	E24		8139		19D	SF	3		1452	.60	.70		152	
SACP	23	1651	1701	1655U	S35	E66				10	SN		C		.42	.72			
HALE	23	1817	1851	1822	N18	W54		8131		34	SN		C	1822	.41	.70			H
HALE	24	0010	0022	0014	N24	W50		8132		12	SN		C	0014	.10	.20			
HALE	24	0032	0043	0034	N16	W50		8132		11	SN		C	0034	.20	.30			
HALE	24	0218	0233	0224	N18	W61		8131		15	SN		C	0024	.41	.90			
HALE	24	0312	0316	0313	S23	E19		8139		4	SF		C	0313	.50	.60			
MANI	24	0420E	0431	0423	N32	W42		8133		11D	SB	3		0423	.42	.60			
ARCE	24	1050E	1120D	1052	S24	E12		8139		30D	SN		C	1052	.61	.65			EH
ARCE	24	1110	1120D		N32	W22		8133		10D	SN		P	1110	.61	.85			CEH
CAPS	24	1155E	1210		N30	W35		8133		15D	SF	3		1204	.40	.60		154	EG
HALE	24	1802	1830	1805	S24	E07		8139		28	SN		C	1805	.30	.30			
HALE	24	1835	1851	1839	S24	E07		8139		16	SN		C	1839	.30	.30			
MCMA	24	1941	1949	1943	N32	W40		8133		8	SN		SC	1943	.42	.70			D
HALE	24	1942	1950	1944	N33	W41		8133		8	SB		C	1944	1.20	2.00			
HUAN	24	1943E	1948U		N31	W40		8133		5U	SF		P	1943	.26	.33			D
HALE	24	2118	2127	2121	N20	W70		8131		9	SF		C	2121	.41				
HALE	24	2130	2158	2135	N34	W42		8133		28	1B		C	2135	1.40	2.40			
HALE	24	2214	2238	2223	S21	E05		8139		24	SF		C	2223	.20	.20			
HALE	25	0213	0236	0222	N22	W75		8131		23	SN		C	0222	1.30				
KANZ	25	1344	1356D		S26	W02		8139		12D	SF								
LOCK	25	1814	1838	1825	S23	W08		8139		24	SF		C	1825	.20	.20		10	
OTTA	25	1822	1834	1828	S23	W09		8139		12	SN		C	1828					
HALE	25	1828E	1834		S24	W11		8139		6D	SF		P	1828	.10	.10			
HALE	25	2101	2130	2107	S07	W03				29	SN		C	2107	.20	.20			L
HALE	25	2112	2127	2117	S24	W12		8139		15	SF		C	2117	.41	.40			
HALE	25	2229	2240	2230	S24	W12		8139		11	SF		C	2230	.41	.40			
HALE	26	0026	0032	0028	S25	W14		8139		6	SF		C	0028	.20	.20			H
IKOM	26	2350	2400		S24	W23		8139		10	SF		S	2350	1.03	1.20		70	D
HUAN	27	1501	1514D	1508U	N28	W87		8133		13D	SN		P	1508	.68				
ARCE	28	0815	0830D	0815	N28	W90		8133		15D	1N		C	0815	.41	2.22			C
SACP	28	1755	1823	1809	N26	E87		8154		28	SN		C		.42				
HALE	28	1756	1823	1807	N27	E90		8154		27	1B		C	1807	.50				
OTTA	28	1757	1823	1810	N28	E90		8154		26	SN		C	1810					
HALE	29	0232	0248	0236	S25	W49		8139		16	SN		C	0236	.20	.30			
KANZ	29	1000E	1042		S23	W39		8152		42D	SN			1013			1.30		EH
CAPS	29	1014	1035	1025	S26	W41		8152		21	SF	3		1025	.50	.70		147	DG
ARCE	29	1020E			S25	W40		8152			SN		C	1020	.58	.75			D
CAPS	29	1055	1111	1059	S26	W41		8152		16	SF	3		1059	.50	.70		143	DG
KANZ	29	1056E	1103D		S23	W39		8152		7D	SN								
CAPS	29	1249	1305	1300	S27	W42		8152		16	SN	3		1300	1.00	1.40		171	EGK
KANZ	29	1329E	1356		S24	W41		8152		27D	SN			1334			1.90		D
KANZ	29	1413E	1430		S24	W41		8152		17D	SN			1423			1.60		D
OTTA	29	1430	1441	1435	N29	W90		8133		11	SN		C	1435					
KANZ	29	1455E	1516D		S24	W41		8152		21D	SF								D
HUAN	29	1513E	1515		S26	W42		8152		2D	SF		P	1513	.36	.42			E
OTTA	29	1501	1513	1505	N39	W90		8133		12	SN		C	1505					
OTTA	29	1515	1539	1530	N41	W90		8133		24	SN		C	1530					
OTTA	29	1518	1525		N37	W90		8133		7	SN		C	1520					
OTTA	29	1529	1537	1531	N27	W90		8133		8	SN		C	1531					
OTTA	29	1752	1838	1811	S24	W55		8139		46	2N		C	1811					
LOCK	29	1800	1831	1811	S23	W53		8139		31	1N		C	1811	1.40	2.40		20	
HALE	29	1800	1859	1811	S23	W59		8139		59	1B		C	1811	1.60	3.00			F
SACP	29	1801	1836	1810	S23	W57		8139		35	1N		C		1.92	2.72			
MCMA	29	1803E	1837		S25	W58		8139		34D	1B		SP	1817	1.55	3.00			U
HALE	30	0207	0216	0209	N29	E80		8154		9	SN		C	0209	.20				
KANZ	30	0905E	0932		S27	W25		8148		27D	SN								D
HALE	30	2308	2321	2311	S24	W63		8139		13	SN		C	2311	.20	.40			
HALE	31	1839	1913	1857	S26	W70		8152		34	SN		C	1857	.10				
HALE	31	2023	2033	2026	S26	W70		8152		10	SF		C	2026	.10				
HALE	31	2035	2041	2036	S26	W70		8152		6	SF		C	2036	.10				
HALE	31	2307	2318	2309	S21	W75		8152		11	SF		C	2309	.10				

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

JANUARY 1966



Observatories included:

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

SOLAR FLARES

OCTOBER 1965

OBSERVATORY	OBSERVED UT DATE 1965 OCT	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	COND.	TYPE	OBS.	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
HALE	01	0109	0138D		N21	E24		8005		29D	1-	1	P		0113	1.00	1.00			F
MANI	01	0126	0137	0131	N18	E27		8005		11	1-	2			0131	.40	.40			
CULG	01	0212	0228	0216	N25	E24		8005		16	1-		C		0216	.40	.46			
HALE	01	0339E	0345D		N20	E24		8005		6D	1-	1	P		0341	.60	.60			F
CULG	01	0340	0400D	0347	N21	E26		8005		20D	1		P		0347	4.00	4.60			
MITK	01	0342	0358	0344	N20	E29		8005		16	1		V		0343	1.50	1.80	2.90	89	E
MANI	01	0359E	0445D		N18	E25		8005		46D	1-	1			0400	1.40	1.40			
IKOM	01	0440	0512D		N20	E25		8005		32D	1-		V							E
CULG	01	0525	0542D	0532	N24	E24		8005		17D	1-		P		0532	.60	.69			L
BUCA	01	0710	0735		N21	E23		8005		25	1-	2					.60			
CATA	01	0711	0735	0721	N20	E22		8005		24	1-		C		0721	1.30	1.47		144	E
ARCE	01	0920E	0940D		N22	E23		8005		20D	1-	2			0930	.56	.63			
KAND	01	1140E	1345		N21	E24		8005		125D	2				1249	3.67	4.00			
WROC	01	1205E	1235D		N19	E20		8005		30D	2	2			1227			4.60		FK
CAPS	01	1209	1239		N20	E25		8005		30	1	3			1229	2.10	2.30		170	FK
WEND	01	1216E	1255D		N20	E23		8005		39D	1+						6.00			
SALO	01	1216E	1314D		N20	E19		8005		58D	1				1232	2.63	2.87	1.70		
HUAN	01	1257E	1317		N20	E24		8005			1-		P		1300	.30	.30			2D
SACP	01	1707	1718	1710	N17	E17		8005			1-		C			.34	.34		19	
HUAN	01	1708	1714	1709	N18	E19		8005			1-		C		1709	.25	.25			E
HALE	01	2024	2052D	2035	N20	E15		8005		28D	1+	1	P		2035	4.00	4.00			F
LOCK	01	2024	2117	2042	N21	E15		8005		53	1		C		2042	2.10	2.10		20	IJ
HUAN	01	2026E			N21	E18		8005			1+		P		2026	1.50	1.50			BCE
SACP	01	2026	2205	2037	N20	E16		8005		69	2		C			6.72	6.67		29	
IKOM	01	2342			N21	E13		8005			1-		P							DO
MANI	02	0229	0250	0235	N22	E23		8005		21	1-	2			0235	.30	.30			
MANI	02	0300	0309	0304	N22	E13		8005		9	1-	2			0304	.30	.30			
CULG	02	0401	0435	0414	N24	E13		8005		34	2+		C		0414	1.00	1.05			J
KODA	02	0405	0439	0412	N22	E12		8005		34	2+		P		0420	6.45	6.86			
MANI	02	0413	0450	0420	N20	E10		8005		37	1	3			0420	3.00	3.00			
IKOM	02	0440E	0455D		N20	E10		8005		15D	1-		V		0445	1.60	1.70			E
IKOM	02	0520	0535D		N20	E10		8005		15D	1-		V		0520	2.40	2.50			E
KODA	02	0525E	0529D		N23	E07		8005		4D	1		P		0525	4.51	4.74			
CATA	02	0647	0652	0648	N21	E07		8005		5	1-		C		0648	.41	.47		182	D
KANZ	02	0740E	0810		N20	E08		8005			1-									
BUCA	02	0920E	0925D		N21	E10		8005		5D	1-	2					.60			
WROC	02	1045E	1220D		N20	E10		8005		35D	1	1			1115			2.90		CFHIJK
KODA	02	1046	1052	1046	N20	E01		8005		6	1-		P		1046	.32	.33			
KANZ	02	1050E	1118D		N22	E11		8005			1-									H
WROC	02	1052	1102	1053	N19	E06		8005			1-	1			1053			2.90		CFHI
SALO	02	1220E	1324D		N22	E08		8005		64D	1				1255	2.33	2.40	2.00		
CAPE	02	1234	1242	1236	N22	E10		8005		8	1				1236	2.10	2.20			
CAPS	02	1246	1305		N22	E12		8005		19	1	3			1250	2.00	2.00		204	
OTTA	02	1247	1255	1248	N22	E10		8005		8	1-	2	C		1248	1.75	1.75			F
CAPE	02	1247	1305	1249	N22	E10		8005		18	1				1249	2.30	2.40			
MCMA	02	1249E	1322		N22	E10		8005			1-	2	P		1251	1.20	1.30			BS
HUAN	02	1255E	1258D		N21	E09		8005			1-		P		1255	.87	.87			E
SACP	02	1311E	1323	1314	N23	E09		8005			1-		C			.61	.61		17	
KANZ	02	1312E	1325		N23	E10		8005		13D	1									F
OTTA	02	1404E	1422D		N20	E05		8005		18D		1	C		1414	2.04	2.04			F
CLMX	02	1404	1430	1419	N20	E07		8005		26	1-		C		1419	1.10	1.10			
SACP	02	1404	1432	1420	N20	E06		8005			1-		C			1.10	1.08		19	
CAPE	02	1411	1428	1414	N21	E05		8005		17	1-				1414	1.60	1.60			
HUAN	02	1412	1433	1416	N21	E08		8005			1-		C		1416	.85	.85			E
MCMA	02	1413	1430	1415	N20	E06		8005			1-	2	C		1415	1.10	1.10			S
CAPS	02	1415	1425		N20	E10		8005			1-	3			1418	.40	.40		176	
LOCA	02	1415E	1430		N20	E08		8005		15D	1		S							B
SACP	02	1602	1743	1622	N19	E05		8005		101	1		C			5.02	4.92		24	
LOCK	02	1604	1707	1626	N22	E07		8005		63	1		C		1626	3.10	3.10		30	IJ
CLMX	02	1604	1725	1622	N20	E06		8005		81	1+		C		1622	3.30	3.30			
MCMA	02	1605	1720	1622	N18	E05		8005		75	1+	2	C		1622	3.50	3.50			S
HALE	02	1625E	1706		N20	E04		8005		41D	1+	2	P		1625	4.50	4.50			F
ZURI	02	1634	1642		N18	E06		8005		8	1		S							
SACP	02	1748	1835	1814	N19	E04		8005		47	1		C			2.12	2.08		22	
MCMA	02	1749	1831	1812	N18	E03		8005		42	1	2	C		1812	2.00	2.00			S
CLMX	02	1749	1835	1812	N20	E05		8005		46	1		C		1812	2.10	2.10			
HUAN	02	1758E	1837		N19	E05		8005		39D	1		P		1814	1.67	1.67			E
HALE	02	1903	1927	1912	S18	W11		8012		24	1-	3	C		1912	.30	.30			F
SACP	02	2300	2345D	2330	N20	W00		8005		45D	1		C			3.20	3.14		17	
HALE	03	0147	0209	0151	N21	E02		8005		22	1-	3	C		0151	1.60	1.60			F
MITK	03	0150	0204	0153	N22	E02		8005		14	1		C		0151	2.30	2.50	2.60	120	E
MANI	03	0256	0320	0303	N20	W03		8005		24	1-	2			0303	.30	.30			
MITK	03	0429	0520	0432	N20	W03		8005		51	1		C							E
MANI	03	0431	0520	0440	N20	W05		8005		49	1	2			0440	3.70	3.70			
IKOM	03	0440	0502		N20	W07		8005		22	1		V		0443	3.00	3.00			D
KODA	03	0456E	0458D		N22	W05		8005		2D	1		P		0456	4.51	4.72			
IKOM	03	0443	0520		S18	W17		8012		37	1-		V		0514	.80	.90	.94		D
ISTA	03	0645	0705		N22	E01		8005		20	1									

SOLAR FLARES

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OBSERVATORY	OBSERVED UT DATE 1965 OCT	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE		OBS. COND.	OBS. TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
CATA	03	0720	0850	0715	N22	W05		8005		90	1-	2		C	0715	1.11	1.14		162	E
MANI	03	0724	0731	0725	N23	W08		8005		7	1-	2			0725	.40	.40			
MANI	03	0748	0756	0752	N23	W02		8005		8	1-	2			0752	.30	.30			
LOCA	03	0759	0840		N22	W03		8005		41	1			V	0805		2.00			
BUCA	03	0809	0829		N21	E02		8005		20	1-	2					1.10			
WEND	03	0812	0829		N22	E01		8005			1-									
WEND	03	0840	0849		N21	W04		8005			1-									
ARCE	03	0840E	0850D		N21	W07		8005		10D	1-	2			0840	.98	1.02			
ARCE	03	0830E	0900D		S18	W20		8012		30D	1-	2			0850	.72	.85			
CATA	03	1005	1030	1007	S19	W20		8012		25	1-	3		C	1007	.35	.40		126	D
SACP	03	1413	1422	1416	N21	W12		8005			1-			C		.34	.33		17	
SACP	03	1509	1556	1520U	N25	W10		8005			1-			P		.17	.16		18	
SACP	03	1742	1756	1745	S22	W27		8012			1-			P		1.02	1.14		18	
MCMA	03	1956E	2038D		N20	W12		8005			1-	2		P	1957	.80	.80			E
SACP	03	2119E	2119D	2119U	S32	E36		8009			1-			P		.34	.44		17	
LOCK	03	2155	2223	2204	N17	W14		8005			1-			C	2204	.70	.70		20	IJ
HALE	03	2155	2228	2159	N18	W11		8005		33	1-	2		C	2159	1.80	1.80			F
CLMX	03	2157	2237	2204	N20	W12		8005		40	1			C	2204	2.70	2.70			
SACP	03	2200E	2240U	2206	N19	W13		8005		40D	1			P		2.56	2.53		20	
HALE	03	2257	2312	2302	S31	E33		8009		15	1-	2		C	2302	.40	.50			
SACP	03	2300E	2305	2300	S32	E34		8009			1-			P		.42	.53		17	
IKOM	03	2305	2325		S32	E37		8009		20	1-			V	2305	.80	1.40			DG
HALE	04	0045	0055	0046	S19	W26		8012		10	1-	2		C	0046	.60	.70			
HALE	04	0144	0155	0146	S19	W24		8012		11	1-	2		C	0146	.20	.20			
HALE	04	0337	0347D	0338	S19	W29		8012		10D	1-	2		P	0338	.30	.30			
HALE	04	0339	0346	0340	S31	E31		8009		7	1-	2		P	0340	.20	.30			
CULG	04	0511	0535	0514	S20	W27		8012		24	1-			C	0514	.60	.75			
MITK	04	0520E	0532		S32	E32		8009		12D	1-			C						E
CULG	04	0714	0718	0716	N22	W16		8005		4	1-			C	0716	.20	.21			D
ONDR	04	0715E	0722		N19	W17		8005			1-	3			0717			1.80		CD
ARCE	04	0825E	0850D		S33	E30		8009		25D	1-	3			0830	1.14	1.67			
WEND	04	0845	0850		N21	W18		8005			1-									
KANZ	04	0940E	0945D		S32	E28		8009			1-									D
WEND	04	0949	0957		S34	E28		8009			1-									
ARCE	04	0935E	1023D		S23	W31		8012		48D	2	2			0955	7.84	10.55			
ONDR	04	0935E	1235		S24	W31		8012		180D	2	2			0952			2.00		CEFHIJ
UCCL	04	0936	1048D	0955	S20	W32		8012		72D	2	3			0955	6.50	10.00			F
CAPE	04	0937	1026	0955	S20	W31		8012		49	2				0955	4.60	6.60			
LOCA	04	0937	1130	1005	S21	W31		8012		113	2+			C	1005		10.00			
CAPS	04	0938	1008		S23	W28		8012		30	1	3			1003	2.50	3.30		170	
KANZ	04	0940E	1014		S20	W29		8012		34D	2									FH
MONT	04	0941E	1040D		S21	W32		8012		59D	1+									
KIEV	04	0945	1020	0955	S21	W33		8012		35	2			C	0955	10.00	13.00		68	E
WEND	04	0945E	1108D		S20	W28		8012		83D	2+						12.00			
MEUD	04	0948E	1012D	0957	S21	W32		8012		24D	2				0957	6.10	8.20			
IZMI	04	0950E	1008D		S21	W26		8012		18D	2			P						
KHAR	04	1000E	1045		S19	W29		8012		45D	1+			V	1004	5.60	7.30	1.70		CDHO
KODA	04	1001E	1014D		S22	W27		8012		13D	2			P	1001	7.73	9.95			
ARCE	04	1005E			S23	W31		8012			1	2			1006	3.33	4.48			
WEND	04	1002	1014		S34	E28		8009			1-									
UCCL	04	1015	1050D		S34	E29		8009		35D	1-	3								E
WEND	04	1022	1032		N21	W28		8005			1-									
ONDR	04	1109E	1123		N19	W21		8005			1-	3			1113			1.50		CDH
UCCL	04	1110E	1120D		N22	W20		8005		10D	1-	2								E
KAND	04	1220	1230		S31	E28		8009			1-									
WEND	04	1317	1325		N20	W13		8005			1-									
SACP	04	1318	1335	1322	N21	W17		8005			1-			C		.44	.44		18	
KANZ	04	1319	1325		N20	W17		8005			1-									D
UCCL	04	1319	1327D		N22	W20		8005		8D	1-	3								E
HUAN	04	1320	1327	1322	N21	W18		8005			1-			C	1322	.20	.20			D
ONDR	04	1321E	1333		S20	W32		8012			1-	3			1323			2.00		CD
SACP	04	1342	1353	1346	N21	W18		8005			1-			C		.43	.43		16	
HUAN	04	1345	1353	1348	N21	W18		8005			1-			C	1348	.25	.25			D
UCCL	04	1346	1351		N22	W20		8005		5	1-	3								E
KANZ	04	1347E	1351D		N20	W17		8005			1-									D
KANZ	04	1347E	1403D		N22	W24		8005			1-									D
WEND	04	1350	1402		N22	W16		8005			1-									
ONDR	04	1357	1403		S20	W32		8012			1-	3								CDJ
LOCA	04	1445	1500		S19	W36		8012		15	1			V						
SACP	04	1432	1443D	1438	N21	W18		8005			1-			P		1.37	1.37		16	
CLMX	04	1433	1443	1438	N24	W18		8005		10	1-			C	1438	.40	.40			
UCCL	04	1433	1616D		N23	W18		8005		103D	1-	3								EK
HUAN	04	1434	1443	1437	N21	W19		8005			1-			C	1437	.25	.25			D
OTTA	04	1435	1459	1437	N21	W18		8005		24	1-	1		C	1437	.58	.58			H
CAPE	04	1444	1502D	1449	N22	W19		8005		18D	1-				1449	1.10	1.20			H
WEND	04	1445	1455		N20	W13		8005			1-									
LOCA	04	1445	1505		N21	W17		8005		20	1			V						
HUAN	04	1446	1452	1449	N21	W19		8005			1-			C	1449	.33	.33			D
MEUD	04	1446	1505D	1449	N23	W16		8005		19D	1-				1449	.40	.50			EH
KANZ	04	1448E	1457		N20	W17		8005		9D	1									DH

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OBSERVATORY	OBSERVED UT DATE 1965 OCT	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
UCCL	04	1508	1530D		N24	W27		8005		22D	1-	3							D
LOCA	04	1515	1530		N20	W24		8005		15	1		V						
CLMX	04	1612	1620	1616	N24	W18		8005		8	1-		C	1616	.40	.40			
SACP	04	1612	1621	1617	N21	W19		8005			1-		C		.42	.43		18	
MCMA	04	1613	1619D	1614	N22	W20		8005			1-	1	P	1614	.30	.30			D
OTTA	04	1613	1619	1615	N21	W20		8005		6	1-	2	C	1615	.29	.29			
OTTA	04	1644	1657	1652	S31	E27		8009		13	1-	2	C	1652	.47	.56			
SACP	04	1645	1706	1656	N21	W22		8005			1-		C		1.54	1.56		17	
CLMX	04	1648	1703	1651	N23	W27		8005		15	1-		C	1651	.50	.50			
HUAN	04	1649E	1656D		N20	W20		8005			1-		P	1656	.75	.75			E
OTTA	04	1649	1702	1656	N19	W25		8005		13	1-	2	C	1656	1.50	1.50			F
MCMA	04	1649E	1703		N22	W20		8005			1-	1	P	1651	.50	.60			E
CLMX	04	1652	1706	1658	N19	W22		8005		14	1-		C	1658	.90	.90			
LOCK	04	1715	1732	1722	N22	W19		8005			1-		C	1722	.40	.40		20	
HUAN	04	1716	1729	1720	N21	W21		8005			1-		C	1720	.30	.30			D
MCMA	04	1716	1730	1718	N22	W16		8005			1-	1	C	1718	.20	.20			D
CLMX	04	1716	1730	1718	N22	W19		8005		14	1-		C	1718	.60	.60			
SACP	04	1716	1731	1720	N21	W20		8005			1-		C		.60	.60		17	
OTTA	04	1717	1730	1719	N21	W20		8005		13	1-	2	C	1719	.35	.35			
OTTA	04	1729	1803D	1745	N22	W26		8005		34D	1-	2	C	1745	1.16	1.19			F
CLMX	04	1731	1824	1743	N23	W26		8005		53	1-		C	1743	.90	.90			
MCMA	04	1733	1820	1743	N21	W21		8005			1-	1	C	1743	1.00	1.10			F
SACP	04	1759E	1832	1810	N22	W26		8005			1-		P		1.37	1.42		17	
HUAN	04	1805E	1824		N22	W25		8005			1-		P	1805	.60	.60			E
LOCK	04	1846	1912	1852	N21	W19		8005			1-		C	1852	1.00	1.00		20	HJ
MCMA	04	1848	1905	1854	N22	W21		8005			1-	1	C	1854	.50	.60			DH
HUAN	04	1849	1911	1856	N21	W20		8005			1-		C	1856	.38	.38			D
SACP	04	1849	1915	1859	N21	W21		8005			1-		C		.85	.86		21	
CLMX	04	1852E	1902D	1856	N22	W19		8005		10D	1-		C	1856	.50	.50			
MCMA	04	1917	1924	1919	N22	W21		8005			1-	1	P	1919	.50	.60			E
LOCK	04	2032	2040	2036	N21	W23		8005			1-		C	2063	.30	.30		20	
CULG	04	2033	2043	2035	N21	W26		8005		10	1-		C	2035	.40	.44			
LOCK	04	2045	2102	2052	N22	W21		8005			1-		C	2052	.40	.40		30	
CULG	04	2047	2056	2050	N23	W23		8005		9	1-		C	2050	.40	.44			
MCMA	04	2048	2054	2049	N22	W22		8005			1-	2	C	2049	.20	.20			D
HALE	04	2048	2109	2050	N22	W22		8005		21	1-	2	C	2050	.40	.40			
SACP	04	2053E	2056D	2055	N20	W22		8005			1-		P		.77	.78		17	
CULG	04	2114	2124	2116	N23	W22		8005		10	1-		C	2116	.20	.22			H
LOCK	04	2201	2215	2207	N22	W20		8005			1-		C	2207	.30	.30		20	
CULG	04	2204	2212	2207	N23	W22		8005		8	1-		C	2207	.40	.44			H
HALE	04	2204	2214	2207	N23	W22		8005		10	1-	1	C	2207	.20	.20			
CULG	04	2248	2303	2254	N23	W22		8005		15	1-		C	2254	.20	.22			
LOCK	04	2345	2400	2350	N21	W21		8005			1-		C	2350	.40	.40		20	
HALE	04	2347	0002	2351	N21	W23		8005		15	1-	2	C	2351	.60	.60			
VORO	04	2347	2352	2347	N19	W26		8005		5	1-		C	2347	.99	1.12		58	D
CULG	04	2347	2359	2348	N23	W24		8005		12	1-		C	2348	.60	.66			
IKOM	04	2351	0010		N22	W23		8005		19	1-		V	2355	.80	1.00			D
CULG	05	0123	0135	0125	N23	W25		8005		12	1-		C	0125	1.00	1.10			LS
VORO	05	0124	0127D	0125	N19	W28		8005		3D	1-		C	0125	1.08	1.23		62	D
HALE	05	0125	0130D	0126	N21	W25		8005		5D	1-	1	P	0126	.60	.60			
MITK	05	0128E	0130		N19	W23		8005		2D	1		C	0128	1.50	1.60	1.80	102	
MANI	05	0316	0332	0321	N20	W29		8005		16	1-	2		0321	.70	.70			
MITK	05	0318	0324	0321	N22	W24		8005		6	1-		C						D
HALE	05	0318	0331	0324	N21	W25		8005		13	1-	2	C	0324	.40	.40			F
MANI	05	0615	0635	0619	N20	W27		8005		20	1-	2		0619	.70	.70			
MITK	05	0620E	0624	0620	N19	W26		8005		4D	1		C	0620	.80	.90	2.40	107	
KANZ	05	0729E	0828		N23	E45				59D	2								
WEND	05	0924	0938		N24	W39		8005			1-								
WEND	05	1041	1049		N22	W34		8005			1-								
WEND	05	1118	1132		S17	W50		8012			1-								
SACP	05	1742	1818	1756	N20	W35		8005			1-		C		.85	.93		19	
HUAN	05	1751E	1801		N22	W35		8005			1-		P	1754	.38	.42			E
LOCK	05	1751	1803	1755	N27	W27		8005			1-		C	1755	.30	.30		20	
MCMA	05	1752	1801	1753	N21	W37		8005			1-	1	C	1753	.40	.50			E
OTTA	05	1753E	1801D	1755	N20	W34		8005		8D	1-	1	C	1755	.46	.50			F
HALE	05	1754E	1802	1755	N20	W33		8005		8D	1-	3	P	1755	.30	.30			
SACP	05	2006	2028	2015	N20	W37		8005			1-		C		1.38	1.52		16	
HALE	05	2010	2024	2012	N19	W36		8005		14	1-	2	C	2012	.50	.60			F
MCMA	05	2010	2025	2015	N21	W38		8005			1-	1	C	2015	.60	.70			EKL
LOCK	05	2012	2031	2018	N23	W35		8005			1-		C	2018	.30	.30		20	L
SACP	05	2106	2158	2123	N19	W38		8005			1-		C		.60	.66		18	
HALE	05	2113	2150	2122	N18	W37		8005		37	1-	2	C	2122	1.00	1.10			F
LOCK	05	2116	2138	2122	N17	W36		8005			1-		C	2122	.40	.40		20	
LOCK	05	2205	2215	2210	S18	W55		8012			1-		C	2210	.20	.30		20	
MANI	05	2301	2310	2304	N24	W34		8005		9	1-	2		2304	.30	.33			
CULG	06	0106	0129D	0118	S20	W60		8012		23D	1-		P	0118	.80	1.80			
HALE	06	0225	0311	0234	S22	W53		8012		46	1-	1	C	0234	.10	.10			
CULG	06	0637	0734D	0648	S17	W62		8012		57D	1-		C	0648	.20	.50			
UCCL	06	1119	1130		S20	W60		8012		11	1-	3							E

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OTTA	06	1353	1429		N31	E11				36	1-	2	C	1417	.29	.29			FH
CULG	06	2010	2101	2030	N24	W54		8005		51	1-		C	2030	.40	.68			
SACP	06	2322	2333	2326	N22	W63		8005			1-		C		.25	.40		17	
CULG	06	2323	2337	2325	N20	W62		8005		14	1-		C	2325	.20	.40			
HALE	06	2324	2335	2325	N23	W64		8005		11	1-	2	C	2325	.10	.20			
CULG	07	0650	0730	0658	N11	W60		8005		40	1-		C	0658	.60	1.20			L
CATA	07	0748	0800	0750	N24	W59		8005		12	1-	2	C	0750	.39	.72		174	D
MONT	07	0805E	0822D		N23	W68		8005			1-								
ARCE	07	0810E	0815D		N22	W59		8005		5D	1-	3		0810	.26	.47			
ARCE	07	0810E	0820D		N23	W70		8005		10D	1-	3		0810	.33	.75			
UCCL	07	1006	1018		N23	W63		8005		12	1-	3							E
UCCL	07	1011	1025		N24	W75		8005		14	1-	3							D
WEND	07	1019	1030		N26	W70		8005			1-								
LOCA	07	1505	1600D		S19	W85		8012		55D	1		S						
UCCL	07	1509	1528		S15	W90		8012		19	1-	3							AD
CLMX	07	1513E	1530		S17	W90		8012		17D	1+		C	1520	1.00	5.00			
HUAN	07	1516E	1526		S18	W90		8012			1-		P	1517	.20				CD
SACP	07	1600	1613	1607	N20	W69		8005			1-		C		.85	1.65		17	
HUAN	07	1601	1614	1607	N22	W73		8005			1-			1607	.30				D
CLMX	07	1737	1752	1741	S16	W90		8012		15	1-		C	1741	.40	2.00			
HALE	07	1833	1848	1839	S18	W90		8012		15	1-	2	C	1839	.20				
CAPF	08	0735E	0740D		N22	W70		8005		5D	1	2		0735	1.50	3.49			
CATA	08	0740E	0800D	0742	N23	W75		8005		20D	1	2	C	0742	1.37	3.62		174	E
LOCA	08	0740E	0810		N23	W70		8005		30D	1		S						
ARCE	08	0805E	0820D		N22	W80		8005		15D	1-	3		0805	.36	1.15			
WEND	08	0808	0820		N24	W77		8005			1-								
KAND	08	0850	0902		N21	W90		8005			1-								
KAND	08	0924	0958D		N18	W90		8005			1-								
ARCE	08	1000E			S03	W88					1-	3		1000	.20	.98			
SACP	08	1603	1612	1607	N21	W84		8005			1-		C		.25			16	
SACP	08	1828	1846	1837	N21	W81		8005			1-		C		.34			15	
SACP	08	2046	2057	2048	N21	W83		8005			1-		C		.77			19	
HUAN	08	2048E			N22	W85		8005			1-		P	2048	.33				CD
ARCE	09	0900E	0920D		N11	W68				20D	1-	2		0900	.36	.78			
UCCL	09	1024	1027		N14	W73				3	1-	3							D
ARCE	10	0810E	0820D		N11	W82				10D	1-	1		0815	.23	.81			
CULG	10	2016	2131	2017	S33	W59		8009		75	1-		C	2017	.40	1.00			FK
IKOM	11	0020E	0045D		N10	W90				25D	1-		V	0030	.60				D
MITK	11	0028	0055	0032	N09	W90				27	1-		C						G
CULG	11	0222	0245	0225	S36	W62		8009		23	1-		C	0225	.20	.60			
MITK	11	0305	0330	0310	N09	W90				25	1-		C						G
MANI	11	2303E	2314		N20	E45		8018		11D	1-	2		2304	.20	.25			
CULG	12	0701	0743	0721	N24	E44		8018		42	1+		P	0721	2.60	3.64			FS
CAPE	12	0710	0844	0720	N22	E44		8018		94	1			0720	2.30	3.30			L
TACH	12	0711	0850	0734	N22	E45		8018		99	1		C	0734	3.20	4.50	2.20	78	EL
BUCA	12	0713E	0857		N20	E41		8018		104D	1	2				2.90			
KAND	12	0730E	0908D		N21	E42		8018		98D	2			0750	4.08	5.98			
CATA	12	0740E	0925	0742	N23	E43		8018		105D	2			0742	3.65	5.16		178	E
ONDR	12	0741E	0954D		N20	E43		8018		133D	2	2		0747			2.40		L
MANI	12	0742	0901	0750	N20	E42		8018		79	1	2		0750	2.10	2.50			
KIEV	12	0759	0901		N20	E44		8018		62	1+		P	0759	5.00	7.00		64	BD
ARCE	12	0807E	0845D		N22	E43		8018		38D	1	2		0811	2.06	2.86			
WROC	12	0830E	0930		N19	E38		8018		60D	1+	3							BFL
WROC	12	0830E	0945		N19	E41		8018		75D	1+	3		0840			2.80		BFL
ARCE	12	0853E			N22	E43		8018			1	2		0853	1.66	2.31			
CULG	12	2323	2353	2328	S07	E46		8019		30	1-		C	2328	.40	.58			H
HALE	12	2325	2343	2330	S07	E44		8019		18	1-	1	C	2330	.40	.50			
MITK	13	0037	0055	0040	N20	E34		8018		18	1-		C						
CULG	14	0445	0554D	0458	N22	E18		8018		69D	1		P	0458	3.00	3.15			FGL
MANI	14	0453	0540	0502	N19	E19		8018		47	1	2		0502	2.20	2.20			
TACH	14	0459E	0548	0505	N22	E18		8018		49D	1		C	0505	1.40	1.50	2.10	70	E
MCMA	15	1918	1936	1919	N22	W04		8018			1-	3	C	1919	.60	.60			E
HALE	16	1817	1826	1822	N19	W19		8018		9	1-	2	C	1822	.10	.10			H
MANI	17	0425E	0438		N23	W23		8018		13D	1-	2		0426	.80	.80			
	17	0530	0535	NO FLARE PATROL															
	17	0555	0600	NO FLARE PATROL															
WEND	17	1235	1254		N14	W28		8018			1-								
OTTA	17	1302	1327	1307	N24	E36		8027		25	1-	2	C	1307	.23	.25			
	18	0300	0310	NO FLARE PATROL															

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	1965 OCT																		
	18	0340	0410	NO FLARE PATROL															
	19	0220	0230	NO FLARE PATROL															
	19	0235	0245	NO FLARE PATROL															
	19	0325	0330	NO FLARE PATROL															
KAND	19	1200E	1231D		S24	W90													
KANZ	19	1336E	1358		N21	E06		8032			1-								DH
MCMA	19	1505	1513	1507	N08	E06		8031			1-	1	C	1507	.20	.20			D
OTTA	19	1506	1510	1508	N08	E07		8031		4	1-	2	C	1508	.17	.17			
CULG	19	2011	2047	2024	N21	E01		8032		36	1-		C	2024	.80	.84			FHK
SACP	19	2013	2040	2023	N21	E01		8032			1-		C		.59	.58		18	
LOCK	19	2013	2041	2025	N21	E01		8032			1-		C	2025	.40	.40		20	L
HUAN	19	2017	2038	2024	N22	E01		8032			1-		C	2024	.30	.30			D
HALE	19	2024E	2028D		N21	E01		8032		4D	1-	1	P	2024	.90	.90			L
MCMA	19	2035E	2043D		N22	E02		8032			1-	1	P	2043	.60	.60			EH
LOCK	19	2141	2209	2152	N21	E00		8032			1-		C	2152	.30	.30		20	
SACP	19	2142	2209	2147	N21	E01		8032			1-		C		.42	.41		14	
HUAN	19	2143E	2145D		N22	E01		8032			1-		P	2145	.30	.30			D
CULG	19	2143	2209	2145	N23	E00		8032		26	1-		C	2145	.20	.21			HK
SACP	19	2228	2355D	2248	N21	E01		8032			1-		C		.16	.16		12	
IKOM	19	2340	0010		N21	W01		8032		30	1-		V	2350	.40	.40			D
	20	0600	0615	NO FLARE PATROL															
SACP	20	1507	1524	1511	N21	W10		8032			1-		C		.42	.42		14	
OTTA	20	1509	1520	1513	N21	W11		8032		11	1-	1	C	1513	1.75	1.75			
HUAN	20	1509	1526D		N21	W09		8032			1-		P	1511	.20	.20			D
HUAN	20	1707	1717	1709	N21	W09		8032			1-		C	1709	.20	.20			D
OTTA	20	1740	1748	1745	N21	W11		8032		8	1-	1	C	1745	.35	.35			
MITK	21	0122	0133	0128	N21	W15		8032		11	1-		C						H
MITK	21	0506	0512	0507	N19	W16		8032		6	1-		C						H
	21	1935	1940	NO FLARE PATROL															
	21	2000	2015	NO FLARE PATROL															
HALE	21	2232	2239	2236	S12	E90		8034		7	1-	2	C	2236	.20				H
	22	0340	0400	NO FLARE PATROL															
	22	0430	0440	NO FLARE PATROL															
	22	0505	0530	NO FLARE PATROL															
WEND	22	0918E	0933D		N20	W32		8032		15D	1					4.00			
UCCL	22	0955E	1018D		N22	W33		8032		23D	1-	3							BE
UCCL	22	1001	1016		S17	E80		8034		15	1-	3							D
UCCL	22	1028	1040		N22	W33		8032		12	1-	3							F
UCCL	22	1103	1138		N22	W33		8032		35	1-	3							DK
KANZ	22	1330E	1350		N20	W36		8032		20D	1								F
KANZ	22	1354	1405		N20	W35		8032		11	1								H
UCCL	22	1355	1405		N22	W33		8032		10	1-	3							E
SACP	22	1558	1612	1602	S17	E76		8034		14	1		C		.84	2.11		16	
LOCK	22	1705	1735	1715	S18	E79		8034		30	1		C	1715	1.20	3.00		20	
SACP	22	1707	1728	1715	S16	E75		8034		21	1		C		2.02	4.81		17	
HALE	22	1709E	1715		S17	E77		8034		6D	1-	2	P	1709	.20				F
SACP	22	2215	2258	2226	S15	E73		8034		43	1		C		1.52	3.33		17	
LOCK	22	2217	2305	2230	S17	E79		8034			1-		C	2230	.40	1.00		20	L
SACP	22	2349	2355D	2355U	S17	E74		8034		6D	1		P		1.91	4.48		17	
LOCK	22	2352	0005	2359	S18	E79		8034			1-		C	2359	.40	1.00		20	L
HALE	22	2352	0007	2355	S17	E77		8034		15	1	2	C	2355	.60				
	23	0245	0250	NO FLARE PATROL															
	23	0420	0450	NO FLARE PATROL															
ARCE	23	0818E	0831D		N29	E88		8035		13D	1	2		0824	.43	2.10			
ARCE	23	0839E	0910D		N20	E90		8035		31D	1	2		0855	.36	2.04			
HUAN	23	1453	1502	1455	N22	W49		8032			1-		C	1455	.50	.65			D
KANZ	23	1510E	1530D		N20	W46		8032			1-								
SACP	23	1511	1522	1516	N36	E81		8035			1-		C		.33			17	
LOCK	23	2233	2254	2240	N22	W52		8032			1-		C	2240	.30	.40		20	
SACP	23	2235	2309	2239	N20	W54		8032			1-		C		.84	1.14		19	
HALE	23	2236	2300D	2238	N20	W56		8032		24D	1-	1	P	2238	.60	.80			F
MANI	23	2240E	2305		N24	W56		8032		25D	1-	1		2241	.40	.60			
HALE	24	0244	0259	0247	N20	W57		8032		15	1-	2	C	0247	.30	.40			
MANI	24	0244	0300	0248	N24	W56		8032		16	1-	2		0248	.40	.60			
MITK	24	0244	0301	0247	N19	W57		8032		17	1-		C						
ARCE	24	0825E	0840D		S16	E57		8034		15D	1-	2		0830	.20	.36			
UCCL	24	0916E	1105D		S18	E60		8034		109D	1-	3							DK
UCCL	24	1145	1155D		N16	E53		8033		10D	1-	3							E
KANZ	24	1312E	1343		N08	E85		8042		31D	1								
KANZ	24	1400E	1505		N29	E32		8037			1-								
	25	0515	0650	NO FLARE PATROL															
ARCE	25	0810E	0830D		S13	E43		8034		20D	1-	3		0810	.43	.62			
ARCE	25	0825E	0830D		S13	E43		8034		5D	1-	3		0825	.43	1.10			
ONDR	25	0936E	0958	0951	N20	E35		8033			1-	3		0951			1.60		CDG

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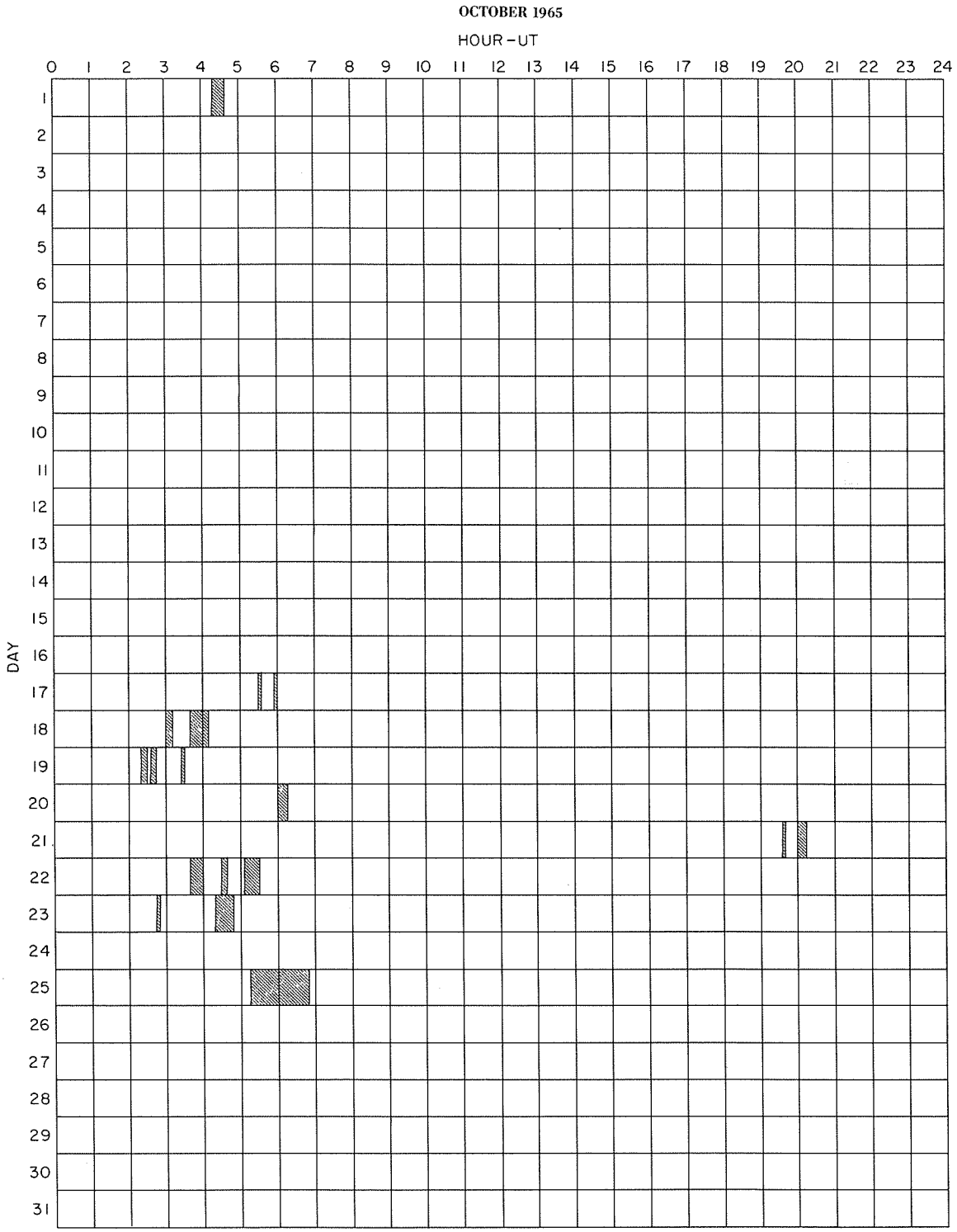
ARCE	25	0940E	1000D		N25	E57		8035		20D	1-	3		0955	.16	.28			
CAPS	25	0955	1005		N25	E56		8035			1-	3		1000	.30	.50		175	GH
KANZ	25	1000E	1016D		N26	E57		8035			1-								
ONDR	25	1339E	1349		N24	W80		8032			1-	3		0940			1.40		CDG
MANI	26	0210	0221	0214	S13	E35		8034		11	1-	2		0214	.40	.44			
UCCL	26	0856E	0857D		S18	E30		8034		1D	1-	3							DK
LOCK	26	1607	1617	1610	N29	E08		8033			1-		C	1610	.20	.20		20	
LOCK	26	2003	2053	2020	N08	W50					1-		C	2020	.40	.50		20	
SACP	26	2031	2045	2035	S17	E25		8034			1-		C		1.18	1.25		16	
HALE	26	2033	2039	2035	S17	E24		8034		6	1-	2	C	2035	.20	.20			F
HALE	27	0324	0337U	0328	S22	E18		8034		13U	1-	1	C	0328	.40	.40			
KAND	27	0846	0917	0902	S17	E18		8034		31	1			0902	1.60	2.29			
KAND	27	0917	0922D		S18	E17		8034			1-								
HUAN	27	1126	1134	1128	S17	E14		8034			1-		C	1128	.30	.30			E
UCCL	27	1126	1140		S20	E15		8034		14	1-	3							EH
WEND	27	1130E	1146		S17	E16		8034		16D	1					3.00			
UCCL	27	1253	1259		N08	E50		8042		6	1-	3							E
LOCK	27	1753	1801	1756	N27	W11		8037			1-		C	1756	.50	.50		20	
SACP	27	1754	1758	1756	S16	E14		8034			1-		C		.62	.62		16	
HALE	27	1754	1800	1756	S20	E12		8034		6	1-	2	C	1756	.20	.20			
HUAN	27	1755	1800	1756	S18	E12		8034			1-		C	1756	.20	.20			D
HUAN	28	1430	1436	1434	S17	W02		8034			1-		C	1434	.25	.25			D
UCCL	28	1518	1520		S17	W03		8034		2	1-	3							D
KANZ	28	1518E	1528		S17	W02		8034			1-								
HUAN	28	1745	1802	1749	N27	E24		8035			1-		C	1749	.80	.85			E
SACP	29	1926	1933	1929	S21	W14		8034			1-		C		.21	.21		15	
HALE	29	1926	1936	1930	S21	W14		8034		10	1-	2	C	1930	.40	.40			
HALE	30	0301	0313	0306	S21	W18		8034		12	1-	1	C	0306	.10	.10			
KAND	31	0558E	0728	0611	N33	E89		8051											

ADDENDA — SEPTEMBER 1965

	1965 SEPT																		
UCCL	10	1020	1023		N27	W40		7971			1-	3							E
UCCL	10	1106E	1108D		N25	W33		7971		2D	1	3							E
UCCL	20	1353	1406		N04	E75		7992			1-	2							E
UCCL	24	0848	0916		N26	W41		7995			1-	3							E
UCCL	24	0928E	0938		N27	W35		7995			1-	3							BD
UCCL	24	1045	1046		N26	W41		7995			1-	3							D
UCCL	29	1205	1207		N20	E50		8005			1-	3							E
UCCL	29	1328	1331		N17	E50		8005			1-	3							E
UCCL	29	1339	1411		N20	E50		8005			1-	3							D
UCCL	29	1444E	1446		N20	E50		8005			1-	3							D
UCCL	29	1501	1528D	1519	N17	E50		8005		27D	1	3		1519	4.00	6.00			F

INTERVALS OF NO FLARE PATROL OBSERVATIONS



Observatories included:

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

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

DECEMBER 1965

DEC. 1965	UNIVERSAL TIME			TYPE SWF	IMPORTANCE						BUR	WIDE SPREAD INDEX	STATIONS	KNOWN FLARE
	START	END	MAX	IMP	ABS	SCNA	SEA	SPA	SES	SFD				
05	0816	0855	0840					20				5	MA(NPG18-20), BO(GBR16-17)	
19	0102	0600	0200					94				2	BO(NAA17-94,NSS88-94, CYZ80-18)	
27	1652	1701	1654							012		1	BO(WWV10-1.2,WWV15-0.4)	1650
┌27	1920	2040										1	HA(WWVL20)	1923E
├27	1924	2030					2					3	A8 A5	
├27	1927	1938	1931							012		1	BO(WWV10-1.2,WWV15-0.6)	
└27	1933	2040	1935						2+			1	A3	
28	0001	0012	0002							013		1	BO(WWVH15-1.3)	0002E
28	1943	1945									1	5	HA BO	
┌29	0641	0651	0643			1						1	MA	0641E
└29	0642	0705	0643	S 1								3	MA OK	
┌29	0831	0941	0847				1					1	ZI	0834E
└29	0848	1101	0929		61							1	ZI	
29	1206	1228	1208					202				1	SL	1205
29	2007	2020	2010							006		1	BO(WWV10-0.6,WWV15-0.3)	1932
31	2229	2316	2237					47				5	MA(NPG18-47),HA(WWVL20)	*

SL = Slough, Eng.
ZI = Zilina, Czech.

RIOMETER EVENTS

DECEMBER 1965

GREAT WHALE RIVER

30 Mc/s

DEC. 1965	START UT	END UT	MAX UT	MAX. ABSORP. db, (tenths)	NO. OF PEAKS	DEC. 1965	START UT	END UT	MAX. UT	MAX. ABSORP. db, (tenths)	NO. OF PEAKS
1	*		1530	86	9	18	2320	1111	0447	14	6
2			1450	13	3	19	1642	2314	2146	5	3
3		0240				20	0142	0340	0226	3	1
4	0124	0430	0204	3	1	20	2241	0430	2341	3	3
4	1238	1420	1308	5	1	21	1620	0200	1652	6	3
4	1624	1950	1650	12	6						
						22	0413	0658	0452	3	1
7	0302	0844	0618	16	1	22	0936	0700	1354	24	4
9	1010	2324	1348	25	1	24	1400				
10	1830	2030	1909	9	5	25		2310	0257	15	15
11	0140	0840	0355	53	8	26	0248	2310	1356	44	9
11	1347	2032	1807	29	4						
						27	0408				
12	0012	0604	0138	22	13	28		2230	1410	62	20
12	1443	0940	0201	28	10	29	0927	2210	1749	30	6
13	1530	2242	1548	5	2	30	0246	0644	0445	18	3
18	0628	1400	0742	12	2	30	1020		1206	13	5
18	1655	1946	1706	20	2	31		1810			

* 11 hours of missing data on December 2 make it impossible to know if the event starting at 0130 UT November 30 was continuous to December 3, 1965. Absorption events noted at Reykjavik (Iceland) would indicate this may be the case.

SOLAR NOISE OBSERVATIONS

JANUARY 1966

PENNSYLVANIA STATE UNIVERSITY

10700, 2700, 960, 328 Mc/s

JAN 1966	FREQUENCY	TYPE	STARTING TIME UT	TIME OF MAX. UT	DURATION MINUTES	FLUX DENSITY $10\text{-}22_{wm}\text{-}2$ (c/s)-1 PEAK	MEAN
14	10700	series of bursts	1554.0	1554.9	14.9	72.4	6.9
14	10700	group of bursts	1902.5	1903.5	45.3	15.4	11.6
16	2700	group of bursts	1817	--	146	9.3	5.6
16	10700	group of bursts	1834	--	126	20.6	10.1
16	10700	rise in base level	1852.0	1852.6	2.4	9.4	5.6
16	2700	group of bursts	1852.0	1852.6	20	32.6	5.6
16	328	rise in base level	1852.1	1852.7	1.6	11.6	5.8
17	10700	group of bursts	1406	--	302	14.0	7.0
17	10700	series of bursts	2134.2	2135.8	2.6	54.7	16.4
19	10700	group of bursts	1647.0	1647.4	12.2	5.6	2.6
22	10700	group of bursts	1537.0	1553	35.8	5.4	3.6
22	2700	rise in base level	1650.4	1652.4	7.6	2.3	0.9
25	328	rise in base level	1806.9	1807.1	1.0	66.2	33.1
25	328	rise in base level	1808.3	1810.0	2.0	165.5	86.0

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1966

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

	URANE	DESCRIPTIVE TYPE	START UT	DURATION HRS. MIN.	MEAN FLUX	MAXIMUM TIME	MAXIMUM FLUX	REMARKS
14	3	Simple 3	1725E	45D	--	1750	1.4	
14	3	Simple 3	1905	1 00D	--	1932	2.0	
15	3	Simple 3	1715	55	0.9	1740	1.8	
15	3	Simple 3	1820	1 02	0.8	1850	1.6	
15	3	Simple 3	2015	1 25	0.7	2030	1.4	
16	3	Simple 3	1550	55	0.8	1610	1.6	
16	3	Simple 3	1715	55	0.8	Indet.	1.6	
16	3	Simple 3AF	1820	2 30	4.7	1905	9.4	
	2	Simple 2	1852	6	10.0	1853.3	34.0	
17	-	Fall	1340	4 00	--	--	11.0	
17	1	Simple 1	1800.8	0.4	3.7	1801.1	7.4	
	4	Post B.I.A.	1801.3	19	1.8	--	2.4	
	1	Simple 1	1801.5	0.5	0.7	1801.8	1.4	
17	3	Simple 3	1838	27	0.5	1842	1.0	
17	3	Simple 3	1910	1 25	1.3	1945	2.6	
17	3	Simple 3A	2105	2 00D	--	2145	3.8	
	2	Simple 2	2134.5	1.5	7.0	2135.5	38.0	
18	3	Simple 3	1315E	6 40	--	1430	10.0	
18	3	Simple 3A	2043	1 25	1.3	2110	2.6	
	2	Simple 2F	2124	2.5	3.0	2126	14.0	
18		Record Incomplete	2255	30D	--	2320	80.0	
19	3	Simple 3	1358	1 15	1.7	1430	3.4	
19	3	Simple 3	1520	3 05	1.3	Indet.	2.6	
19	3	Simple 3	1828	2 07	1.3	1900	2.6	
20	1	Simple 1	1447	2	0.8	1448	1.6	
21	3	Simple 3	1830	1 20	1.0	1900	2.0	
21	3	Simple 3	2000	1 58	0.8	2005	1.0	
22	3	Simple 3A	1609	2 20	--	1611	1.8	
	1	Simple 1	1650	4D	--	1653	4.6	
23	3	Simple 3	1803	40	0.7	1825	1.4	
29	3	Simple 3A	1800	1 05	1.5	1815	3.0	
	1	Simple 1F	1803	2.5	2.5	1804.5	4.0	

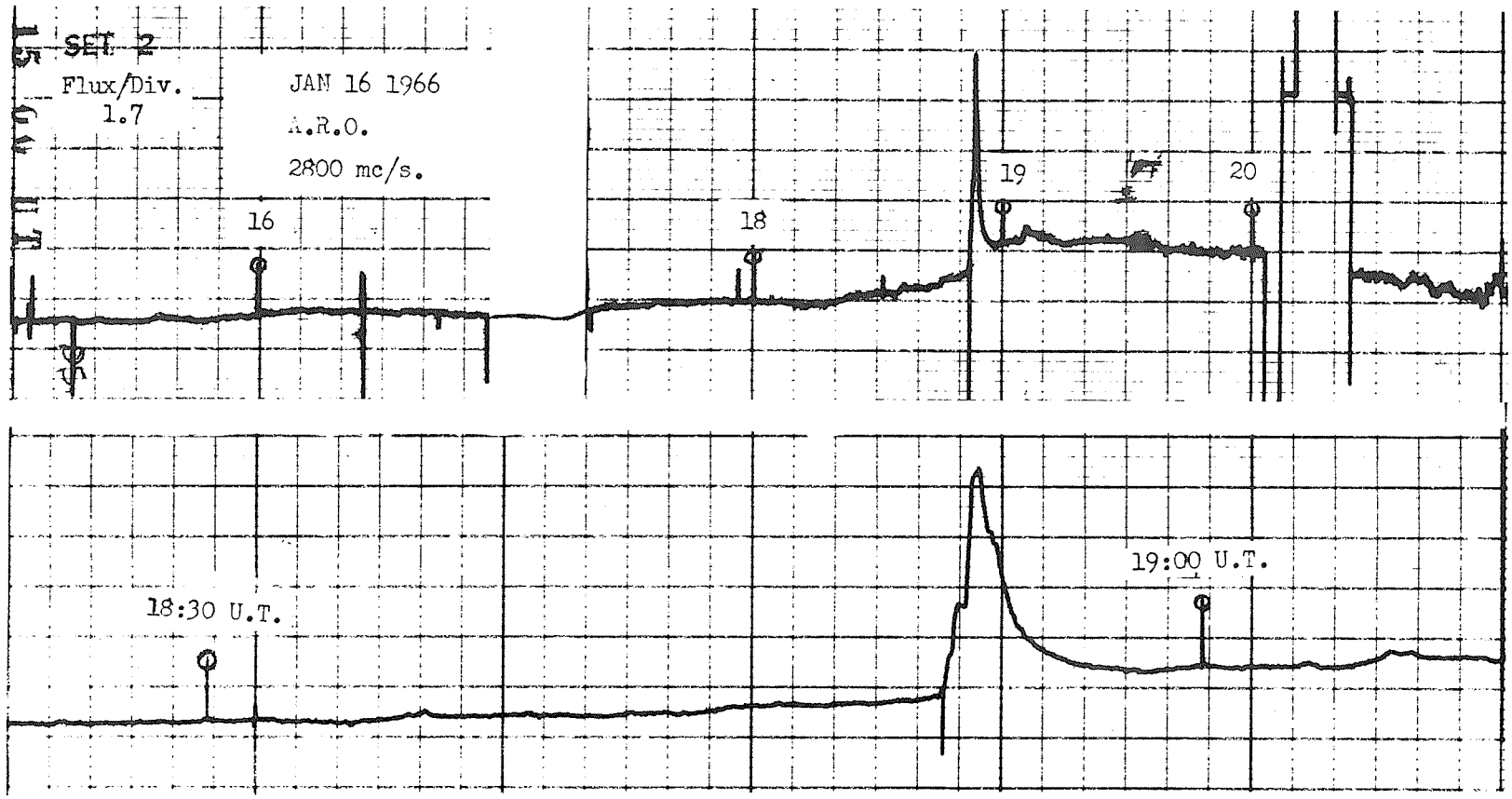
Note: January 18 -- Maximum flux reached in this period (Burst in sunset).

January 22 -- Burst incompletely recorded due to calibration.

OBSERVING PERIOD: January 1 to January 31: 1320 to 2320 UT.

SELECTED 2800 Mc/s SOLAR NOISE BURSTS
ARO - OTTAWA, CANADA

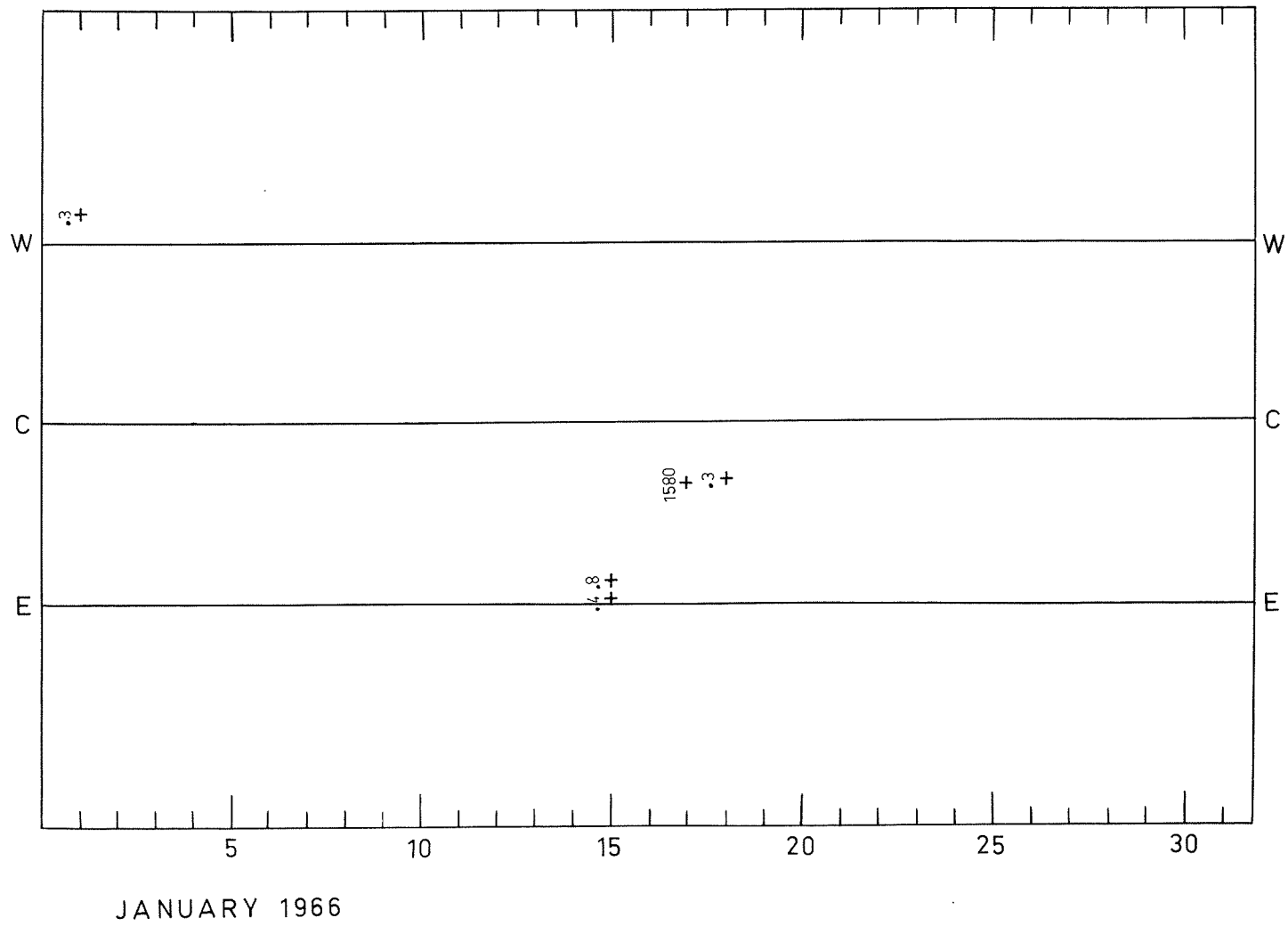
JANUARY 1966



SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

JANUARY 1966

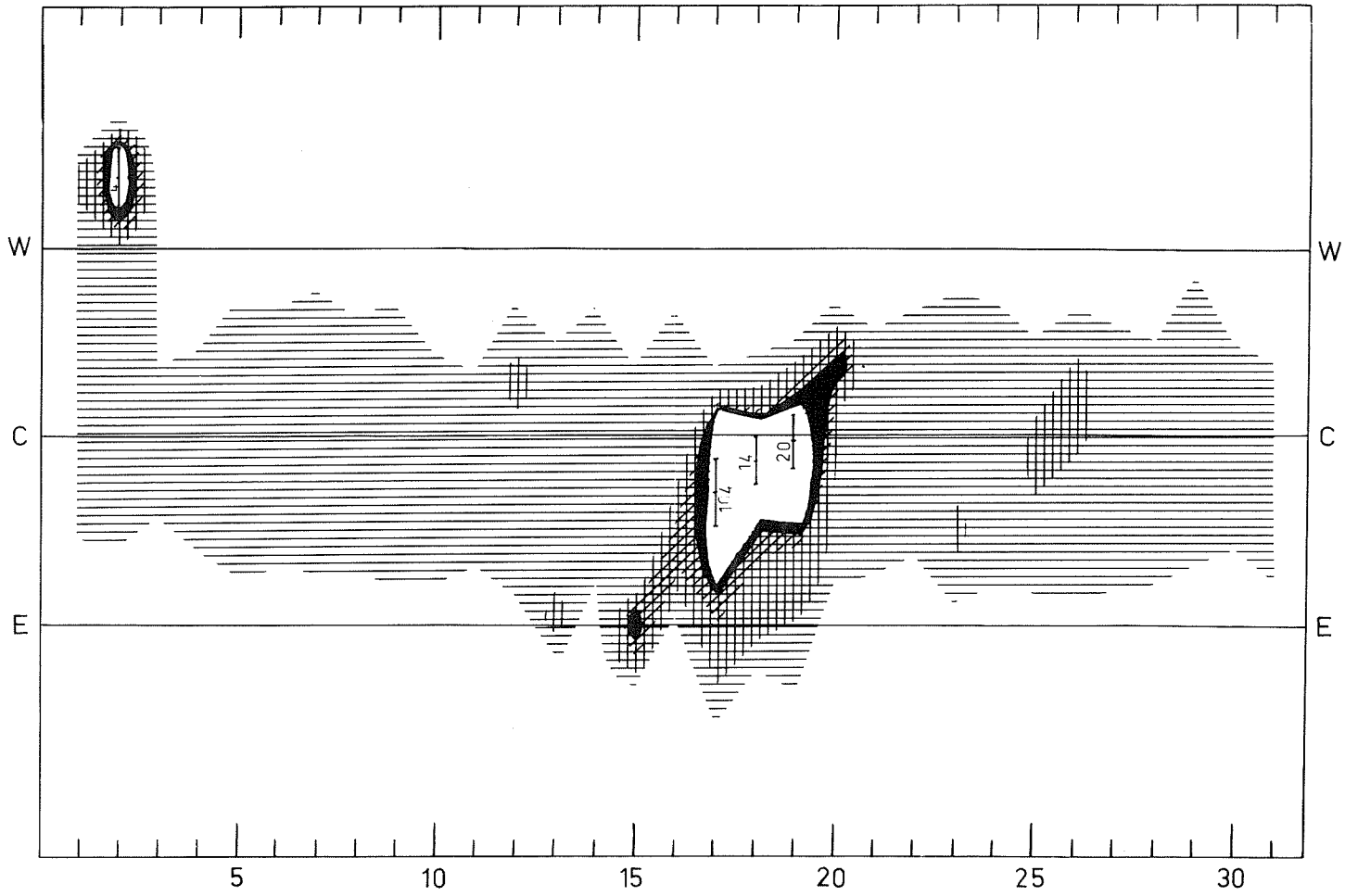
NANÇAY **408 Mc/s**



SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

JANUARY 1966

NANÇAY **169 Mc/s**



JANUARY 1966

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1966

ESSA BOULDER — 108 Mc/s

JAN. 1966	TYPE	START UT	TIME OF MAXIMUM UT	DURATION MINUTES	INTENSITY
16	7 or 9	1810	1953	325	3
16	3	1852	1853	3.0	3
18	6	1424E	2333	563D	2
19	6	1423E	1513	566D	2
24	7	2215	2255	75	1

NOMINAL TIMES OF OBSERVATION

JANUARY 1966

ESSA BOULDER — 108 Mc/s

JAN. 1966	HOURS OF OBSERVATION U.T.	HOURS OF INTERFERENCE U.T.	JAN. 1966	HOURS OF OBSERVATION U.T.	HOURS OF INTERFERENCE U.T.
1	1427-2330		16	1425-2345	
2	1427-2331		17	1424-2346	
3	1427-2332		18	1424-2347	
4	1427-2333		19	1423-2349	
5	1427-2334	1635-1740	20	1423-2350	
6	1427-2335		21	1422-2351	
7	1427-2336		22	1422-2352	1725-1850
8	1427-2337	1726-1835	23	1421-2353	
9	1427-2338		24	1420-2354	
10	1427-2339		25	1420-2356	
11	1427-2340		26	1419-2357	
12	1426-2341		27	1418-2358	
13	1426-2342		28	1417-2359	
14	1426-2343		29	1417-2400	
15	1425-2344	1730-1820	30	1416-0002	
			31	1415-0003	

SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

JANUARY 1966

HALEAKALA 107 Mc/s

JAN. 1966	TYPE	START UT	TIME OF MAXIMUM UT	DURATION MINUTES	INTENSITY
16	7 or 9	1830	1952	290	3
16	3	1852	1853	3.0	3
18	6	1655E		675D	3
18	9*	2302	2353	266	3
19	6	1655E	1720	678D	2

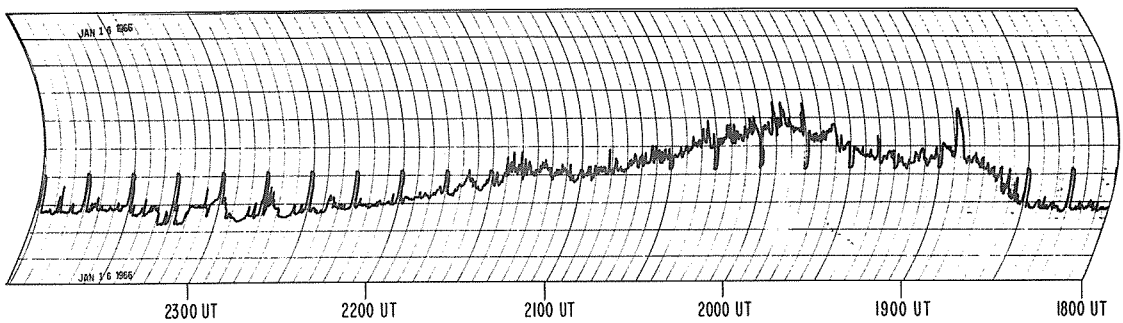
*Gradual onset

Normal observing hours are on the average from 1705 to 0405 UT. Equipment failure caused loss of record from 0130 UT January 20 until end of month.

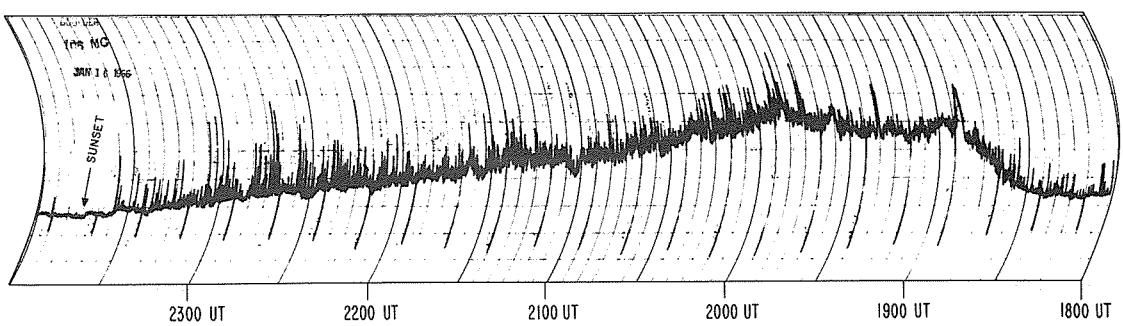
SOLAR NOISE BURSTS

JANUARY 16, 1966

HALEAKALA 107 Mc/s

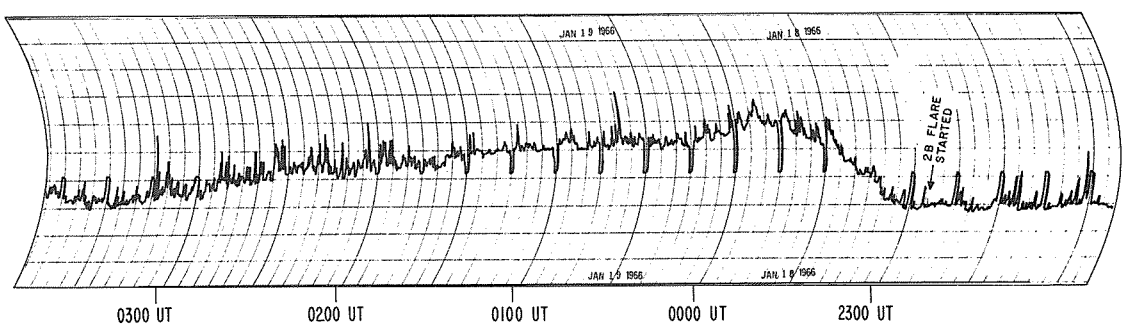


BOULDER 108 Mc/s

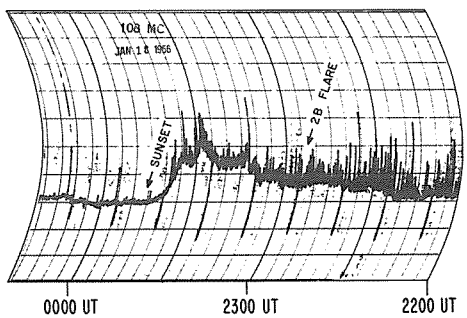


JANUARY 18, 19, 1966

HALEAKALA 107 Mc/s



BOULDER 108 Mc/s



SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1965 – NOVEMBER 1965

FORT DAVIS

25 - 320 Mc/s

1965	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
October						
1	1324-2330					Weak I throughout day
2	1325-2330	III G	1906-1907	2	200-<25	Weak I throughout day
		III G	1910-1913	2	200-<25	
		III G	2122-2123	2	240-140	
3	1325-2330					
4	1324-2400	I	1324-2014	2	180-<25	Weak I throughout day
5	1325-2400					
6	1325-2400	I	1854-2006	1	180-110	Weak I during day
7	1325-2400					
8	1326-2400					
9	1325-2330					
10	1325-2330					
11	1325-2330					
12	1325-2330					
13	1325-2330					
14	1324-2330					
15	1325-2330					
16	1325-2330					
17	1325-1945					
18	1325-2330					
19	1325-2330					
20	1325-2330					
21	1333-2330					
22	1323-2330					1712; U-burst
23	1324-2330					
24	1323-2330					
25	1324-2330					
26	1323-2330					
27	1323-2330					
28	1324-2330					
29	1323-2330					
30	1323-2330					
31	1323-2330					
November						
1	1354-2330					
2	1355-2345					
3	1355-2345					
4	1355-2345					
5	1354-2345					
6	1355-2345	III G	2051-2052	2	300-110	
7	1354-2345					Weak I throughout day
8	1550-2345	I	1550- ~1800	1	200-125	
		I	2020- ~2240	1	200-100	Weak I throughout day
9	1350-2345					Weak I during day
10	1350-2345					Weak I during day
11	1351-2345					
12	1350-2345					
13	1351-2345					Weak I during day
14	1351-2345					
15	1350-2345					
16	1351-2345					
17	1350-2345					
18	1350-2345					
19	1351-2345					
20	1350-2345					
21	1350-2345					
22	1350-2345					
23	1351-2345					
24	1351-2345					
25	1351-2345					
26	1351-2345					
27	1351-2345					
28	1351-2345					
29	1351-2345					
30	1350-2345					

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

DECEMBER 1965

FORT DAVIS

25 - 320 Mc/s

1965	OBSERVING HOURS	IMPORTANT BURSTS			FREQUENCY RANGE MC.	REMARKS
		TYPE	TIMES U.T.	INT.		
December						
1	1351-2345					
2	1350-2345					
3	1350-2345					
4	1351-2345					
5	1350-2345					
6	1351-2345					
7	1350-2345					
8	1350-2345					
9	1351-2345					
10	1350-2345					
11	1350-2345					
12	1350-2400					
13	1351-2345					
14	1351-2345					
15	1350-2345					
16	1351-2345					
17	1351-2345					
18	1351-2345					
19	1351-2345					
20	1350-2345					
21	1350-2345					
22	1350-2345					
23	1351-2345					
24	1351-2345					
25	1350-2345					
26	1350-2345					
27	1350-2345					Weak I throughout day
28	1350-2345					Weak I during day
29	1351-2345					Weak I during day
30	1556-2345					
31	1525-2345					

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

JANUARY 1966

UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date Jan 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
1 Jan	no observ.	1400-2330		
2	III	1846:30-1847:15	1	34-41
	III	2203-2203:30	1	26-39
11	III	1738-1738:30	1	22-41
	III	1930:15-1930:30	1-	27-41
	no observ.	2100-2330		
12	III	1456:15-1456:45	1	25-41
	III	2155:30-2156:15	2	16-41
	III	2200:15-2201	1	26-41
	III	2210:15-2211:30	2	16-41
	III	2212:15-2212:45	2	18-41
13	III	1814:30-1816	3	22-41
	III	1928-1928:45	1	23-41
14	III	2227:15-2227:45	1	26-41
	III	2228:15-2229	1	22-41
15	III	2131-2132	1	23-41
16	IV	1852:30-2150	3	17-41
	continuum	2150-a2400	1	21-41
17	III	1537-1537:30	1	21-41
	III	1551:45-1552:15	1-	22-41
	continuum	1615-1700	1-	23-41
	III	1838:30-1838:45	1+	16-41
	III	1839-1839:15	1	16-41
	III	1844-1845	1+	16-41
	III	2132:15-2132:30	1	23-35
	continuum	2145-2155	1-	22-41
	III	2234:45-2235	1-	22-29
	III	2304:45-2305	1+	23-41
18	III	1544:15-1545	1-	24-41
	continuum	1630-1645	1	22-41
	continuum	1727-1737	1	21-41
	III	1805:30-1806	1-	27-36
	III	2109-2109:30	1-	25-38
19	continuum	1459-1645	1-	22-41
	III	1858-1858:30	1-	29-41
	III	1904:15-1904:45	1-	20-41
	III	2123:30-2123:45	1	24-32
21	III	2320-2320:45	1	21-41
	III	2337:15-2337:30	1-	31-41
	III	2338-2338:15	1-	30-41
24	III	1552:45-1553:30	1-	22-33
	III	1619-1619:30	1-	26-34
	III	1624:30-1625	1-	25-37
	III	1640:15-1641	2	21-41
	III	1647:15-1647:45	1	24-41

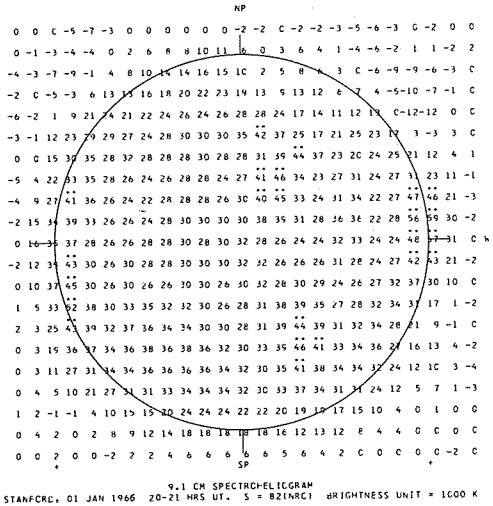
1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
24 Jan	III	1651-1651:30	1	25-41
	III	1700:30-1700:45	1+	24-38
	continuum	1718-1730	1-	22-41
	III	1908:30-1909	1+	20-41
	III	1934-1934:30	1-	23-41
	III	2025-2025:30	1	23-41
	continuum	2040-2255	1-	22-41
25	III	1505:30-1505:45	2	21-35
	III	1601:30-1602	2	16-41
	III	1603-1603:30	1+	18-41
	III	1606-1606:30	1-	16-41
	III	1617:15-1617:30	1	23-38
	III	1620:30-1620:45	1-	28-39
	III	1623-1625	1	24-37
	III	1749:15-1750:15	2	16-41
	III	1755:45-1756:15	2	16-41
	III	1810:45-1811	1	22-41
	III	1815:45-1816:45	2	16-41
	continuum	1815-1824	1-	21-41
	III	1825:45-1826:15	1-	26-35
	III	1827:15-1828:15	2+	12-41
	III	1905:30-1906:15	2	15-41
	continuum	1909-1921	1	21-41
	III	1911:30-1912:15	2+	12-41
	III	2044-2044:30	1-	24-37
	continuum	2110-2122	1-	23-41
	III	2114:45-2117	3	12-41
	continuum	2228-2234	1-	22-41
26	III	1433-1433:15	1-	29-41
	III	1720:30-1720:45	1	22-41
	III	1759-1759:15	1-	23-35
	III	1959:30-1959:45	1	17-30
	III	2141:30-2142	2	14-41
	III	2205-2205:15	1-	23-37
	no observ.	2220-2330		
27	III	2128:45-2129:15	1	22-37
28	III	1833-1833:15	1-	24-41
	III	1845:15-1845:30	1	23-41
	III	2241:15-2241:45	1	34-41
29	III	1523:15-1523:45	1	31-41
31	III	1537:15-1537:45	1+	21-41

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

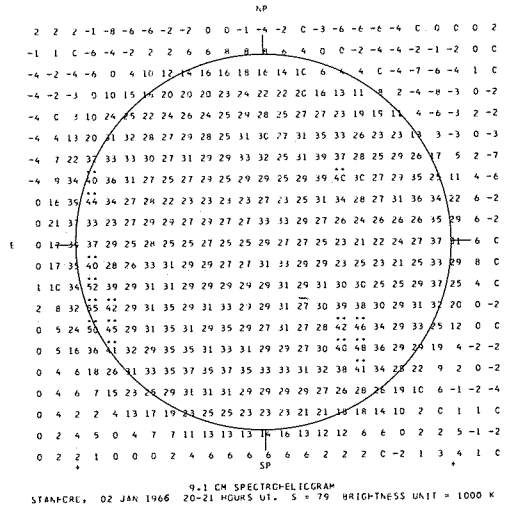
STANFORD

JANUARY 1966

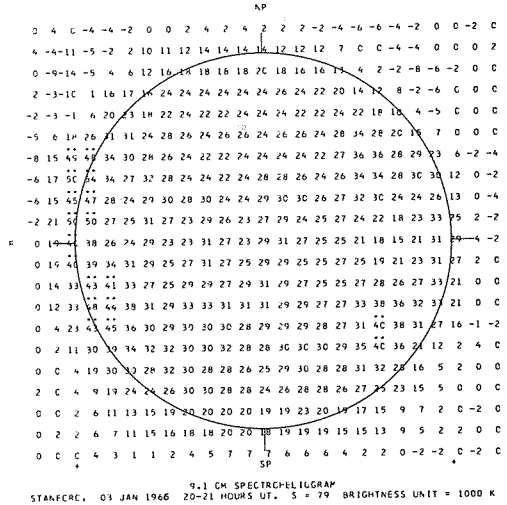
9.1 cm



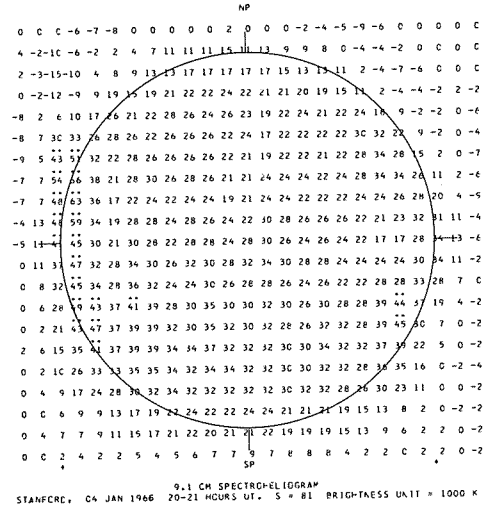
9.1 CM SPECTROHELIOGRAM
STANFORD, 01 JAN 1966 20-21 HRS UT. S = 82(NRC) BRIGHTNESS UNIT = 1000 K



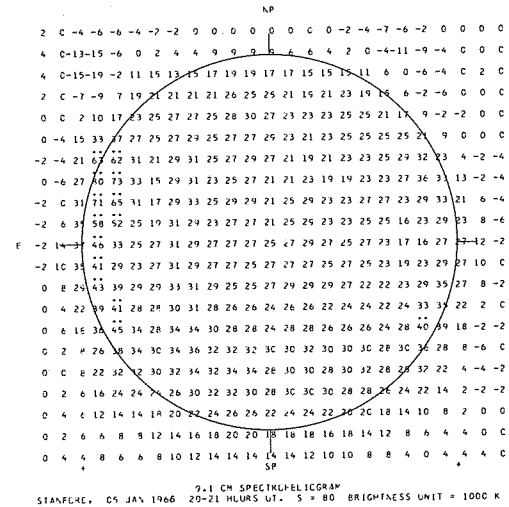
9.1 CM SPECTROHELIOGRAM
STANFORD, 02 JAN 1966 20-21 HOURS UT. S = 79 BRIGHTNESS UNIT = 1000 K



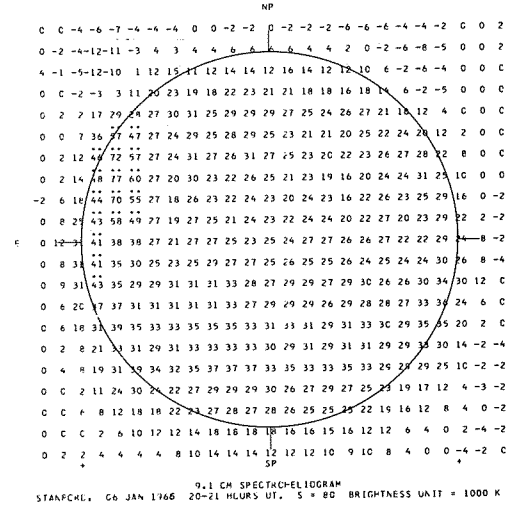
9.1 CM SPECTROHELIOGRAM
STANFORD, 03 JAN 1966 20-21 HOURS UT. S = 79 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 04 JAN 1966 20-21 HOURS UT. S = 81 BRIGHTNESS UNIT = 1000 K



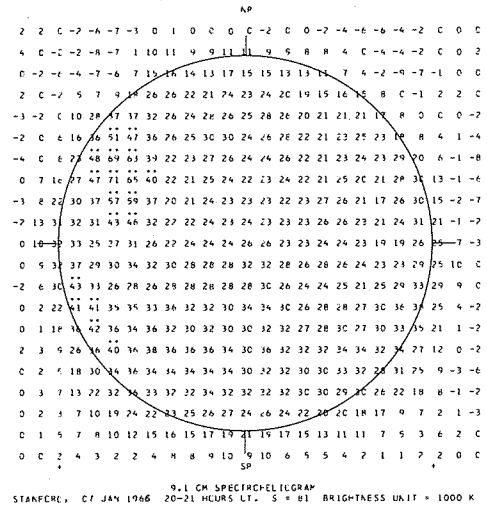
9.1 CM SPECTROHELIOGRAM
STANFORD, 05 JAN 1966 20-21 HOURS UT. S = 80 BRIGHTNESS UNIT = 1000 K



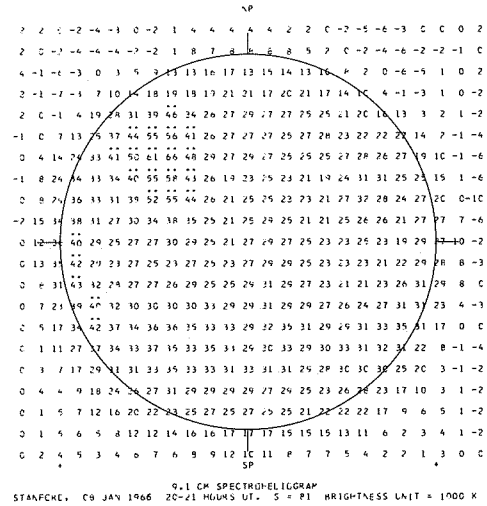
9.1 CM SPECTROHELIOGRAM
STANFORD, 06 JAN 1966 20-21 HOURS UT. S = 80 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

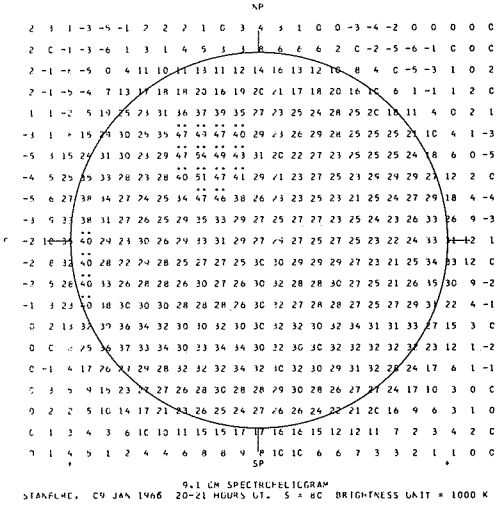
STANFORD — **JANUARY 1966** — **9.1 cm**



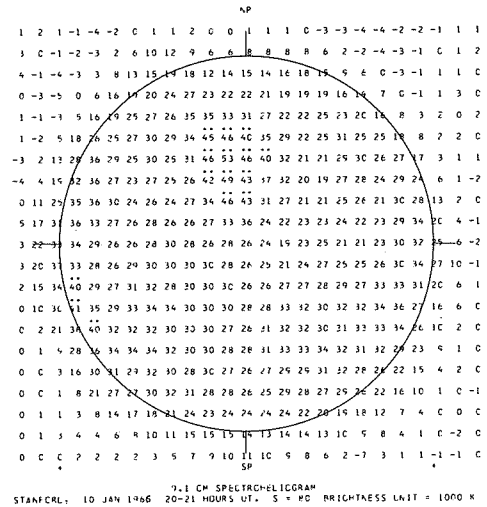
9.1 CM SPECTROHELIOGRAM
STANFORD, 07 JAN 1966 20-21 HOURS UT. S = 81 BRIGHTNESS UNIT = 1000 K



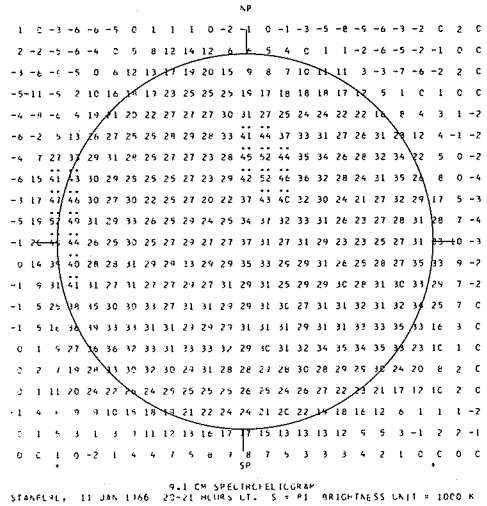
9.1 CM SPECTROHELIOGRAM
STANFORD, 08 JAN 1966 20-21 HOURS UT. S = 81 BRIGHTNESS UNIT = 1000 K



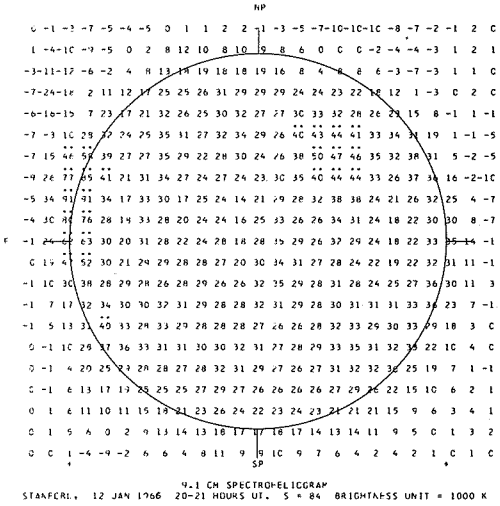
9.1 CM SPECTROHELIOGRAM
STANFORD, 09 JAN 1966 20-21 HOURS UT. S = 80 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 10 JAN 1966 20-21 HOURS UT. S = 80 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 11 JAN 1966 20-21 HOURS UT. S = 81 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 12 JAN 1966 20-21 HOURS UT. S = 84 BRIGHTNESS UNIT = 1000 K

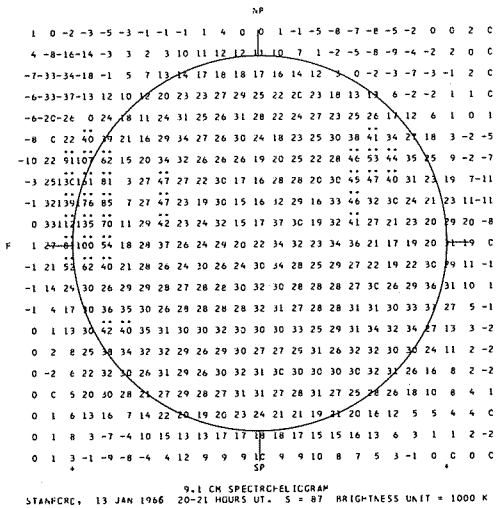
IVm

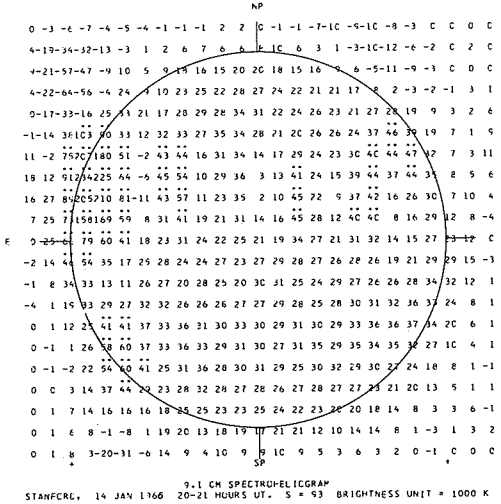
SOLAR RADIO EMISSION SPECTROHELIOGRAMS

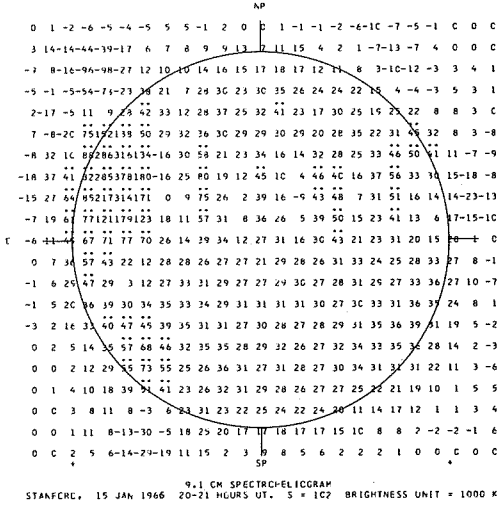
STANFORD

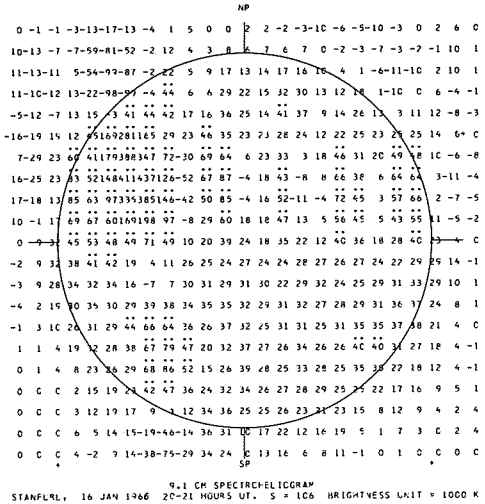
JANUARY 1966

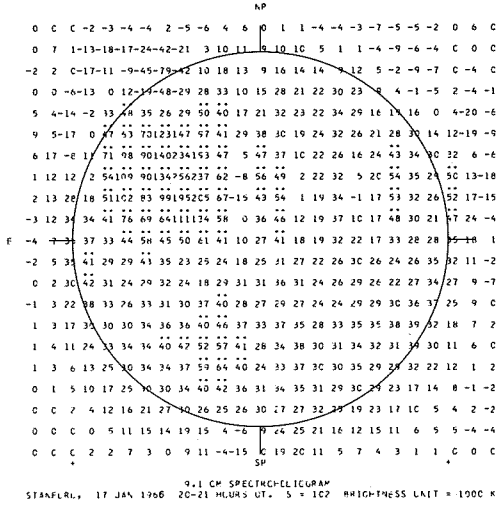
9.1 cm

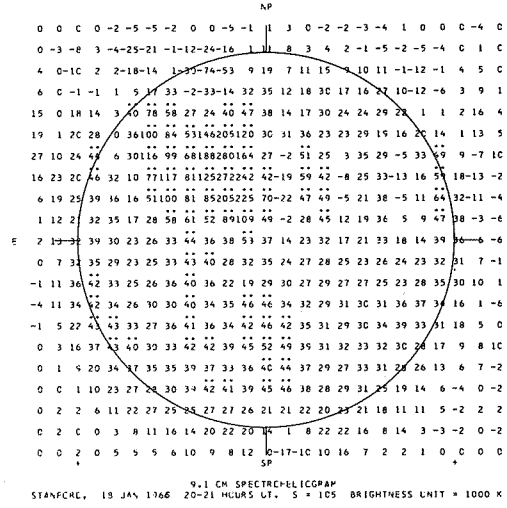






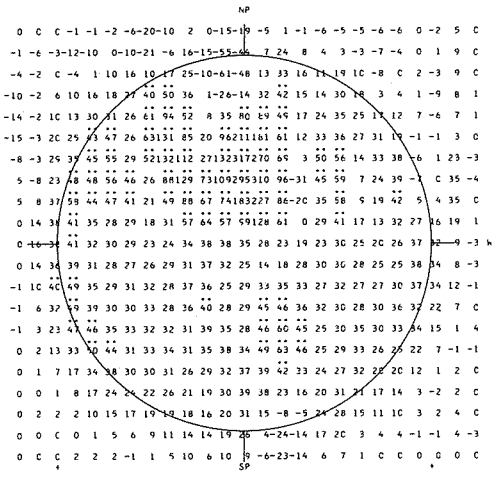




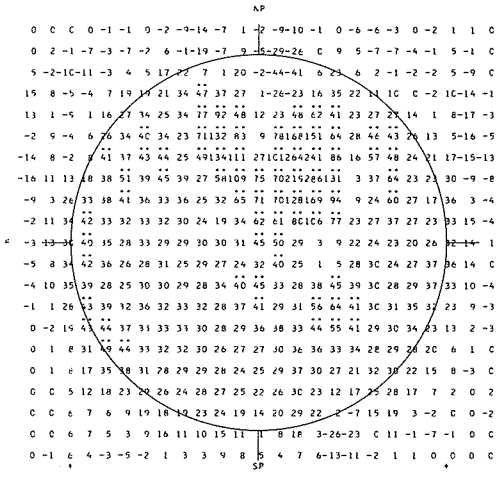


SOLAR RADIO EMISSION SPECTROHELIOGRAMS

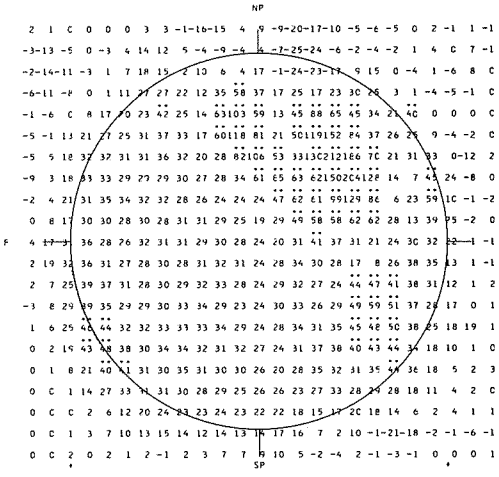
STANFORD — JANUARY 1966 — **9.1 cm**



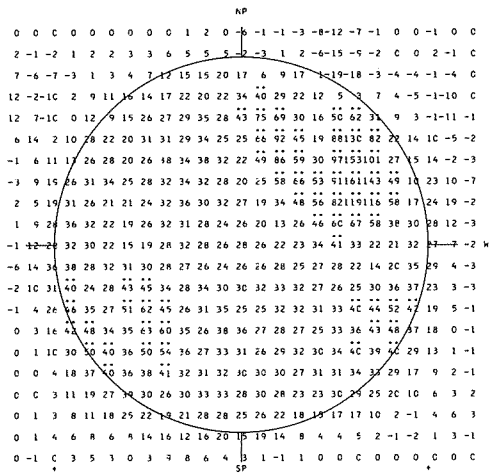
9.1 CM SPECTROHELIOGRAM
STANFORD, 19 JAN 1966 20-21 HOURS UT. S = 109 BRIGHTNESS UNIT = 1000 K



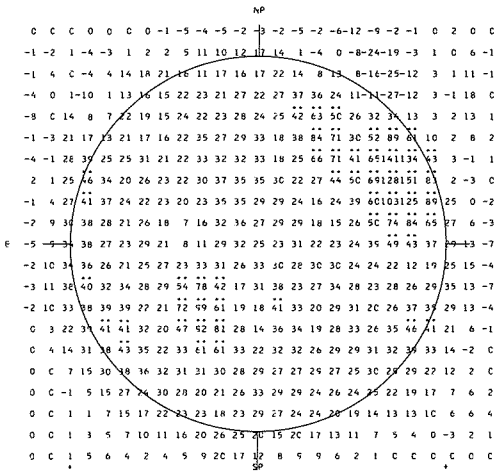
9.1 CM SPECTROHELIOGRAM
STANFORD, 20 JAN 1966 20-21 HOURS UT. S = 102 BRIGHTNESS UNIT = 1000 K



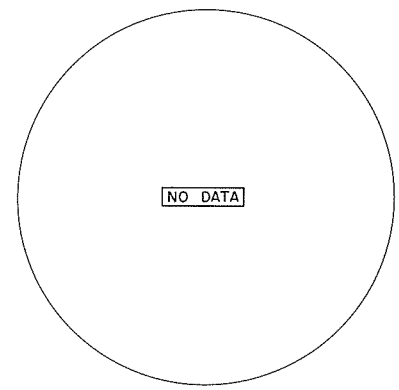
9.1 CM SPECTROHELIOGRAM
STANFORD, 21 JAN 1966 20-21 HOURS UT. S = 99 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 22 JAN 1966 20-21 HOURS UT. S = 95 BRIGHTNESS UNIT = 1000 K



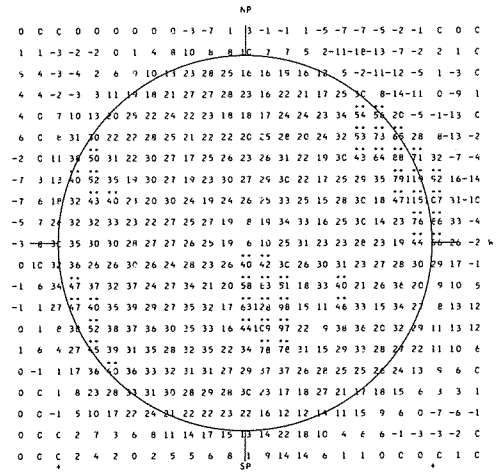
9.1 CM SPECTROHELIOGRAM
STANFORD, 23 JAN 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K



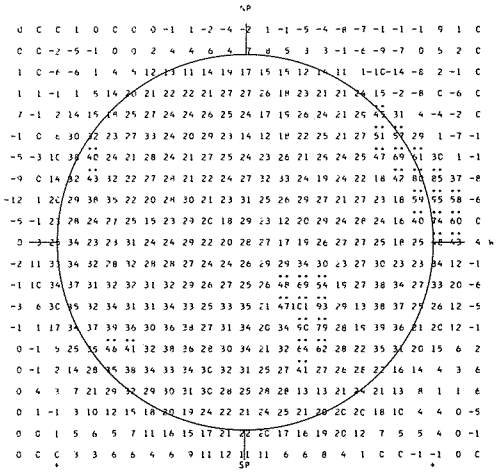
24 JAN 1966

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

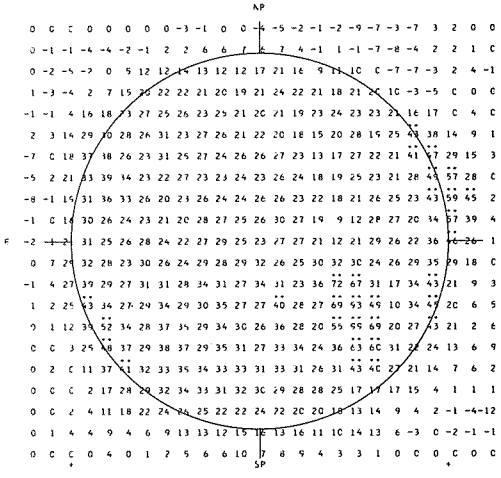
STANFORD JANUARY 1966 **9.1 cm**



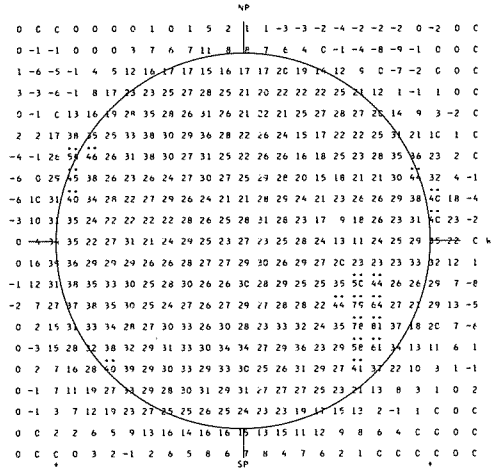
9.1 CM SPECTROHELIOGRAM
STANFORD, 25 JAN 1966 20-21 HOURS UT. S = 88 BRIGHTNESS UNIT = 1000 K



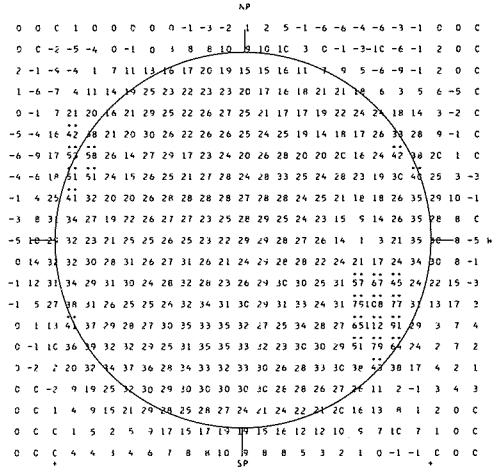
9.1 CM SPECTROHELIOGRAM
STANFORD, 26 JAN 1966 20-21 HOURS UT. S = 85 BRIGHTNESS UNIT = 1000 K



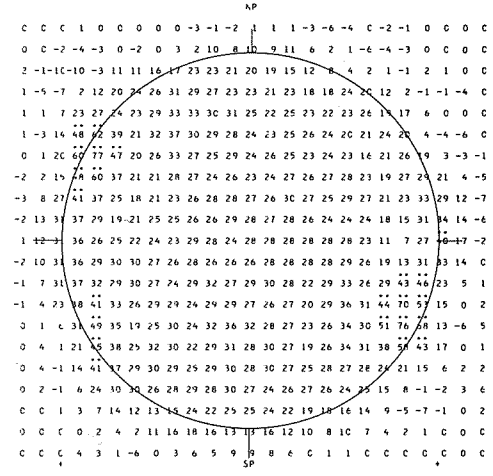
9.1 CM SPECTROHELIOGRAM
STANFORD, 27 JAN 1966 20-21 HOURS UT. S = 82 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 28 JAN 1966 20-21 HOURS UT. S = 81 BRIGHTNESS UNIT = 1000 K



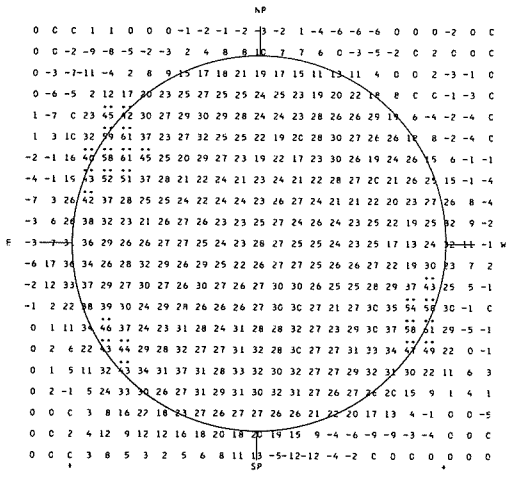
9.1 CM SPECTROHELIOGRAM
STANFORD, 29 JAN 1966 20-21 HOURS UT. S = 81 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 30 JAN 1966 20-21 HOURS UT. S = 79 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD JANUARY 1966 **9.1 cm**



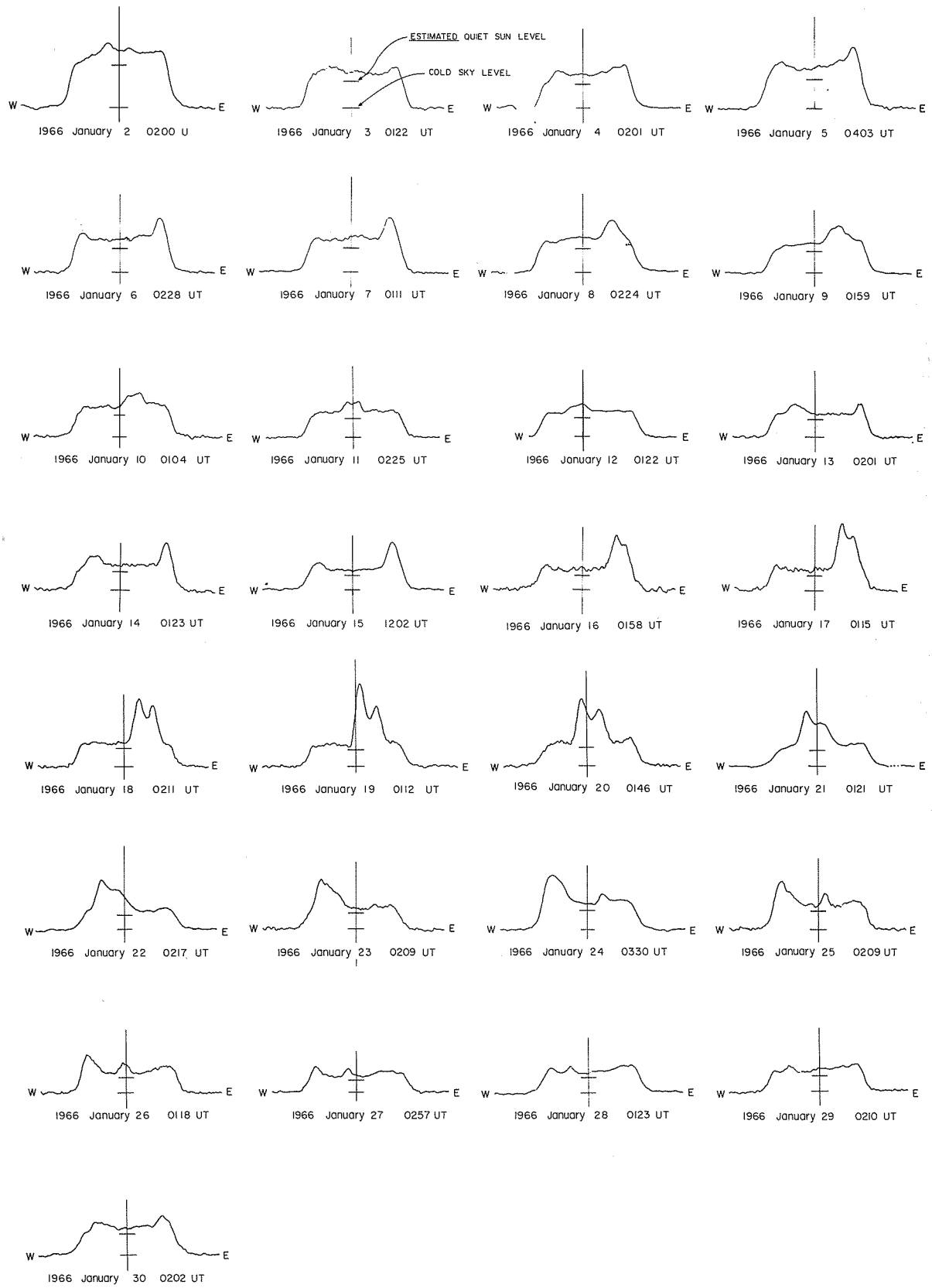
9.1 CM SPECTROHELIOGRAM
STANFORD, 31 JAN 1966 20-21 HOURS UT. S = 78 BRIGHTNESS UNIT = 1000 K

EAST - WEST SOLAR SCANS

FLEURS, AUSTRALIA

JANUARY 1966

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



COSMIC RAY INDICES

(Neutron Monitors)

DECEMBER 1965

DEC. 1965	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	6563.1	7082.6	3354.4	6492.0
2	6552.1	7072.9	3348.0	6468.4
3	6573.6	7096.2	3343.9	6470.4
4	6587.2	7133.3	3340.3	6479.8
5	6560.6	7120.4	3337.6	6480.3
6	6555.5	7129.1	3337.4	6485.0
7	6556.0	7117.7	3339.1	6487.6
8	6572.4	7117.1	3350.9	6493.8
9	6531.0	7084.4	3346.2	6465.1
10	6549.0	7096.0	3361.6	6461.4(22)
11	6524.9	7071.4	3349.9	6437.1
12	6519.8	7068.3	3351.3	6473.5
13	6558.3	7100.0	3384.4	6508.7(23)
14	6581.0	7107.2	3383.3	6489.0
15	6598.2	7127.8	3391.6	6505.5
16	6618.3	7141.7	3384.5	6498.9(21)
17	6618.7	7154.3	3376.5	6501.0
18	6602.2	7152.6	3379.7	6493.7
19	6577.6	7145.8	3371.2	6511.0
20	6593.9	7142.7	3366.1	6500.4(20)
21	6597.4	7142.2	3369.0	6501.5
22	6572.4	7109.7	3357.4	6455.0
23	6582.4	7104.8	3378.9	6465.8
24	6591.8	7109.1	3369.9	6481.3
25	6558.6	7080.1	3364.8	6478.4
26	6553.9	7083.0	3362.0	6477.8
27	6579.9	7080.3	3352.0	6468.3
28	6577.9	7086.0	3361.5	6473.1
29	6568.7	7074.5	3351.8	6463.4
30	-	7072.5	3356.4	6445.0
31	-	7067.3	3351.0	6433.1

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

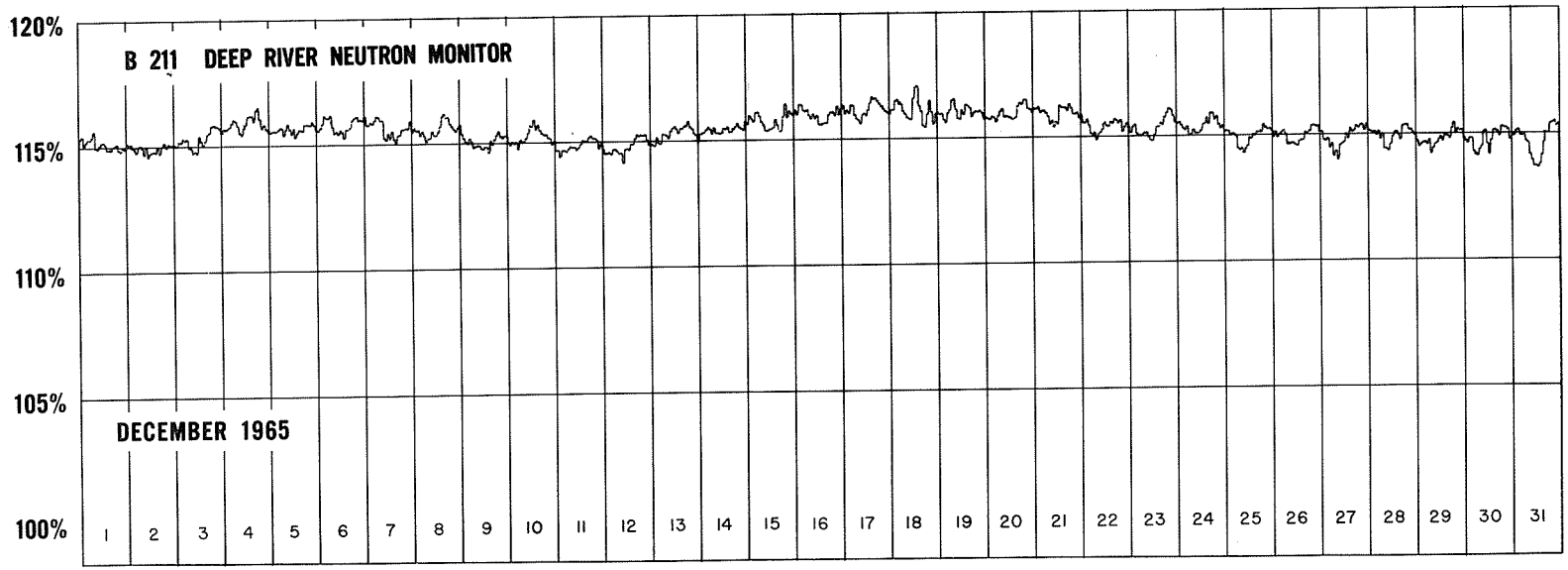
Churchill Super Neutron Monitor, Scaling Factor 120.

Climax IGC Station B305, Scaling Factor 128.

Dallas Super Neutron Monitor, Scaling Factor 120.

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)



GEOMAGNETIC ACTIVITY INDICES

DECEMBER 1965

DEC.	Three-hour range indices Kp								Sum	Prel. Ci	Cp	Ap
	1	2	3	4	5	6	7	8				
1 D	3-	1o	2+	2+	4+	4o	4+	4o	25o	1.2	1.0	19
2	3o	3+	2-	2+	1+	2o	2+	1+	17+	0.6	0.5	9
3 q	1+	0o	0o	0+	0+	1-	0+	2-	5-	0.2	0.0	2
4	2o	1+	2-	2o	3o	3+	3+	2+	19o	0.8	0.6	11
5 q	1+	1+	0+	1-	0+	0+	0o	1-	5o	0.0	0.0	3
6 q	1o	0+	1-	0+	0+	1-	1o	1o	5+	0.0	0.1	3
7	1+	1o	2+	1o	1-	0o	0o	0o	6+	0.1	0.1	3
8	0+	0+	1-	0o	0+	2o	2o	2-	7+	0.3	0.1	4
9	2o	1o	1o	2o	3+	0+	1o	1o	12-	0.4	0.3	6
10	2-	0+	0+	1-	2-	3-	3o	4+	15-	0.7	0.5	10
11	3-	3+	2+	1+	1o	3-	2+	3o	19-	0.8	0.6	10
12	3o	3-	1+	2-	3-	2o	3o	1o	17+	0.7	0.5	10
13	2+	3-	2+	1o	2o	2-	1-	0+	13o	0.3	0.3	6
14 Q	0o	1o	0o	0+	1-	1-	0+	1+	4+	0.2	0.0	2
15 Q	1-	0+	0o	0+	0+	0o	0o	0o	2-	0.0	0.0	1
16 Q	1-	0o	0o	0+	0+	0o	0o	0o	1+	0.0	0.0	1
17 Q	0o	0o	0o	1-	0+	1o	0o	1-	3-	0.0	0.0	2
18 D	0o	1-	3-	2+	3-	4-	4-	3-	18+	1.1	0.7	12
19	4+	1-	2-	0+	0o	1-	2-	2-	11o	0.6	0.4	7
20	3-	0+	0+	0o	0+	1o	2o	2o	9-	0.4	0.2	4
21 Q	0+	1o	1-	0+	0+	2-	0o	0o	4+	0.1	0.0	2
22	1-	2-	1+	2+	2+	2o	1-	2o	13o	0.5	0.3	6
23 q	3-	1-	0+	0+	0o	0o	0+	0o	4+	0.0	0.0	3
24	1+	1o	0+	1-	1+	1o	3-	5-	13o	0.8	0.5	9
25 D	4-	4+	3-	2-	2-	2+	1-	2o	19o	0.7	0.7	12
26 D	2-	2-	4-	5-	4o	3+	2+	4-	25o	1.2	1.0	19
27	2-	2+	2o	3o	2+	2-	3-	3o	19-	0.6	0.6	10
28 D	3o	3o	3+	2+	3o	4o	3o	3o	25-	0.9	0.9	16
29	1+	2-	1o	2o	2-	3+	2o	2+	15+	0.6	0.4	8
30	2-	3-	1-	2-	2+	2-	1o	0o	12-	0.2	0.3	6
31 q	0o	1+	1o	1+	1-	1-	1o	0+	6+	0.1	0.1	3
								Means:		0.45	0.35	7
								No. of days :		31	31	31

Errata: The Ci value for November 29, 1965 which was illegible in CRPL-FB-257 should read 01.

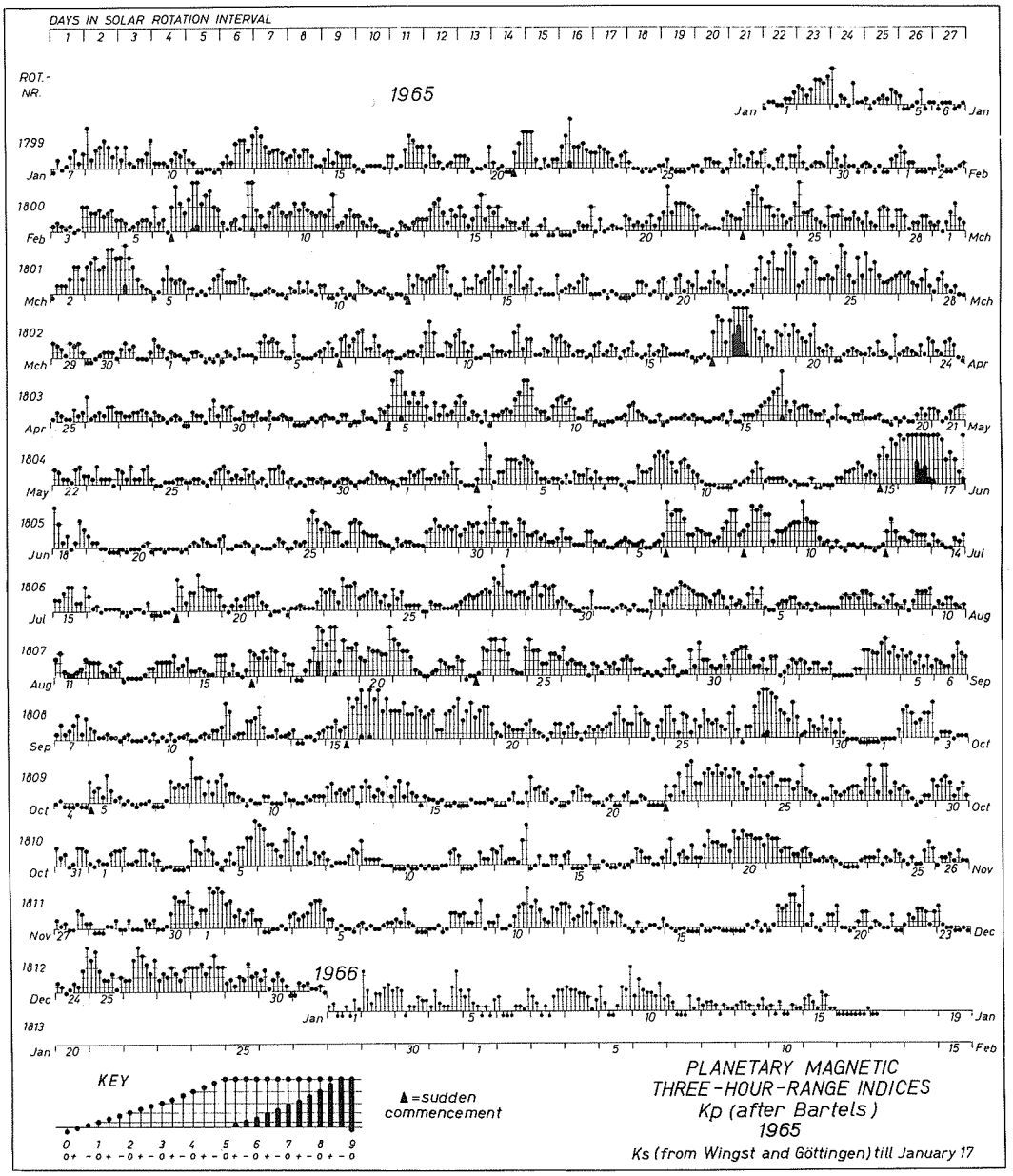
DAILY AVERAGE INDICES, A_P

1965

1965

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

GEOMAGNETIC ACTIVITY INDICES



R	Rot-Nr.	1st day	C9
	19	J 9	
		F 5	
	63	M 4	
	1775	M 31	
	76	A 27	
	77	M 24	
	78	J 20	
	79	J 17	
	1780	A 13	
	81	S 9	
	82	O 6	
	83	N 2	
	84	N 29	
	1785	D 26	
	19	J 22	
	64	F 18	
		M 16	
	1789	A 12	
	1790	M 9	
	91	J 5	
	92	J 2	
	93	J 29	
	94	A 25	
	95	S 21	
	96	O 18	
	97	N 14	
	1798	D 11	
	19	J 7	
	65	F 3	
		M 2	
	1802	M 29	
	03	A 25	
	04	M 22	
	05	J 18	
	06	J 15	
	07	A 11	
	08	S 7	
	09	O 4	
	1810	O 31	
	11	N 27	
	12	D 24	
	19	J 20	
	66	F 16	
		M 15	

preliminary

Symbol	.	1	2	3	4	5	6	7	8	9
R =	0	1/15	16/30	31/45	46/60	61/80	81/100	101/130	131/170	171
C9 =	0	1	2	3	4	5	6	7	8	9
Cp =	0.0/0.1	0.2/0.3	0.4/0.5	0.6/0.7	0.8/0.9	1.0/1.1	1.2/1.4	1.5/1.8	1.9	2.0/2.5
Ap =	0/4	5/7	8/10	11/13	14/17	18/24	25/40	41/91	92/140	141/400

DAILY GEOMAGNETIC CHARACTER FIGURES C9 AND SUNSPOT NUMBERS R

For explanation and previous years see J. Bartels:
„Abhandlungen der Akademie der Wissenschaften, Göttingen, Beiträge zum I.G.J., Heft 3 (1958)"
(may be requested from Geophysikalisches Institut, Herzberger Landstrasse 180, 34 Göttingen (Germany).

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

NORTH ATLANTIC, NORTH PACIFIC — DECEMBER 1965

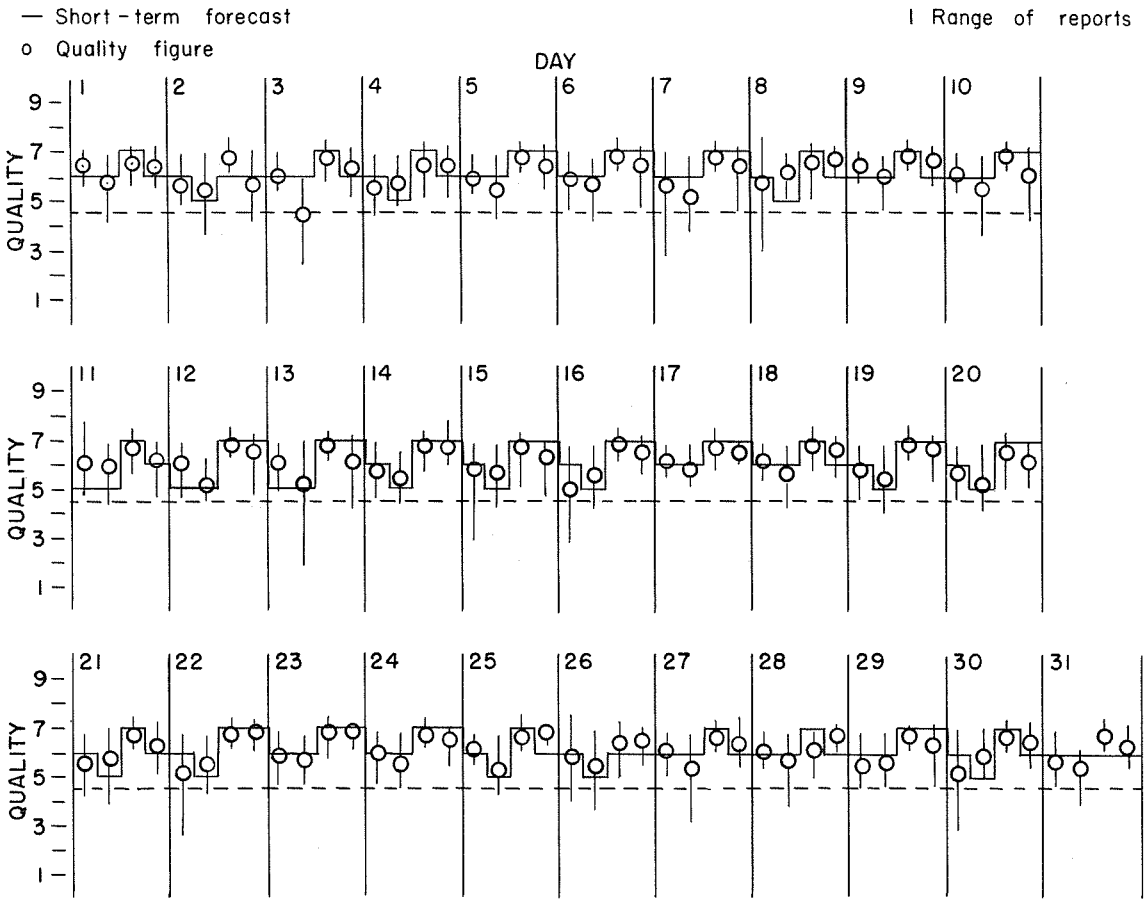
DEC. 1965	WHOLE DAY INDICES: NORTH ATLANTIC	WHOLE DAY INDICES: NORTH PACIFIC	WHOLE DAY INDICES: AVERAGE HIGH LATITUDE	ADVANCE FORECASTS (Jc-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC: 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	NORTH ATLANTIC: SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN 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} OB-SERVED	PRE-DICTED	K_{SI} HALF DAY (1)	(2)	A_{SI}
01	6+	6	6	6	6+	6-	7-	6+	6	6	7	6	6	6	6	6	2	(4)	15	5	2	(4)	19
02	6-	6	6	5	6-	5+	7-	6-	6	5	6	6	7	6	6	7	3	1	8	11	2	1	8
03	6-	6	6	5	6o	4+	7-	6+	6	6	7	6	6	6	6	6	0	0	1	11	0	0	0
04	6o	6	6	6	6-	6-	6+	6+	6	5	7	6	6	6	6	6	1	3	8	7	0	2	5
05	6o	6	6	6	6o	5+	7-	6+	6	6	7	7	6	7	6	6	1	1	2	5	1	0	1
06	6+	6	6	6	6o	6-	7-	6+	6	6	7	7	6	6	6	6	1	1	2	3	0	0	1
07	6o	7	7	6	6-	5o	7-	6+	6	6	7	7	7	7	7	6	1	0	2	3	1	0	2
08	6+	6	6	6	6-	6+	7-	7-	6	5	7	6	6	6	6	6	1	2	5	3	0	1	2
09	6+	6	6	6	6+	6o	7-	7-	6	6	7	6	6	6	6	6	2	1	5	7	1	1	3
10	6o		6	6	6o	6-	7-	6o	6	6	7	7					0	3	6	7	0	2	4
11	6+	6	6	6	6o	6o	7-	6+	5	5	7	6	6	6	5	6	2	2	8	4	2	2	6
12	6o	6	6	6	6o	5o	7-	7-	5	5	7	7	6	6	6	6	2	1	6	2	1	2	5
13	6o	6	6	6	6o	5+	7-	6o	5	5	7	7	6	6	7	6	2	0	3	2	2	1	7
14	6o	6	6	6	6-	5+	7-	7-	6	5	7	7	6	6	6	6	0	0	1	5	0	0	1
15	6o	6	6	6	6-	6-	7-	6+	6	5	7	7	6	6	6	6	0	0	0	7	0	0	0
16	6o	6	6	6	5o	6-	7-	7-	6	5	7	7	6	6	6	6	0	0	0	7	0	0	0
17	6+	6	6	6	6o	6-	7-	7-	6	6	7	7	6	6	6	6	0	1	1	11	0	0	1
18	6+	6	6	6	6+	6-	7-	7-	6	6	7	6	6	6	6	6	2	3	10	11	1	2	7
19	6+	6	6	6	6-	5+	7-	7-	6	5	7	7	6	6	6	6	2	1	7	8	1	1	3
20	6o	6	6	6	6-	5+	7-	6o	6	5	7	7	6	6	7	6	1	1	2	5	0	1	2
21	6o	6	6	6	5+	6-	7-	6+	6	5	7	6	6	6	6	5	1	0	2	3	0	0	1
22	6o	6	6	6	5+	6-	7-	7-	6	5	7	7	6	6	6	6	2	2	6	3	1	1	4
23	6+	6	6	6	6o	6-	7-	7-	6	6	7	7	6	7	6	6	1	0	1	5	0	0	1
24	6+	6	6	6	6o	6-	7-	7-	6	6	7	7	6	6	6	6	1	3	10	3	0	2	4
25	6+	6	6	6	6+	5+	7-	7-	6	5	7	6	6	6	6	6	3	1	10	4	2	1	7
26	6o	5	6	6	6o	6-	6+	7-	6	5	6	6	6	5	5	6	3	3	15	5	3	3	19
27	6o	6	6	6	6o	5+	7-	6+	6	6	7	6	6	6	6	6	2	2	9	7	2	2	8
28	6+	6	6	6	6+	6-	6+	7-	6	6	7	6	6	6	6	5	3	3	13	11	2	2	11
29	6o	6	6	6	6-	6-	7-	6+	6	6	7	7	6	6	6	6	2	2	5	7	2	2	5
30	6o	6	6	6	5o	6o	7-	7-	6	5	7	6	6	6	6	6	2	1	5	12	2	1	7
31	6o	6	6	5	6-	5+	7-	6+	6	6	6	6	6	6	6	6	1	0	2	27	1	0	2
QUIET			P	27					24	17	27	16												
			S	4					7	13	4	15												
			U	0					0	0	0	0												
			F	0					0	0	0	0												
DISTURBED			P	0					0	0	0	0												
			S	0					0	0	0	0												
			U	0					0	0	0	0												
			F	0					0	1	0	0												

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

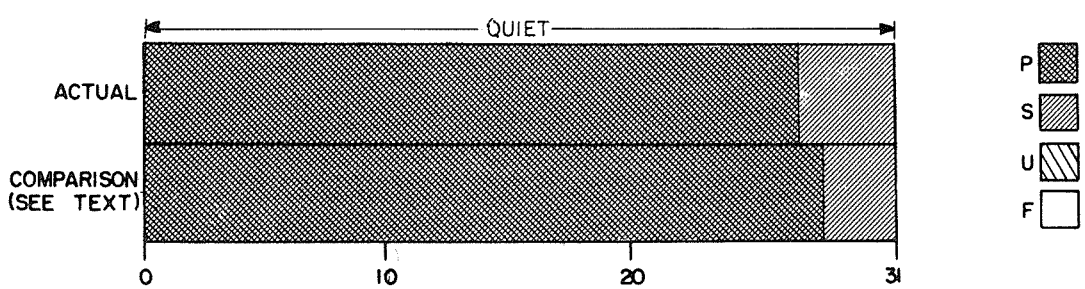
2) THE PREDICTED A_{FR} INDICES ARE ISSUED EACH WEDNESDAY FOR THE COMING SEVEN DAYS. THE VALUE FOR THE FIRST DAY OF EACH PREDICTION PERIOD IS UNDERSCORED.

DECEMBER 1965

NORTH ATLANTIC

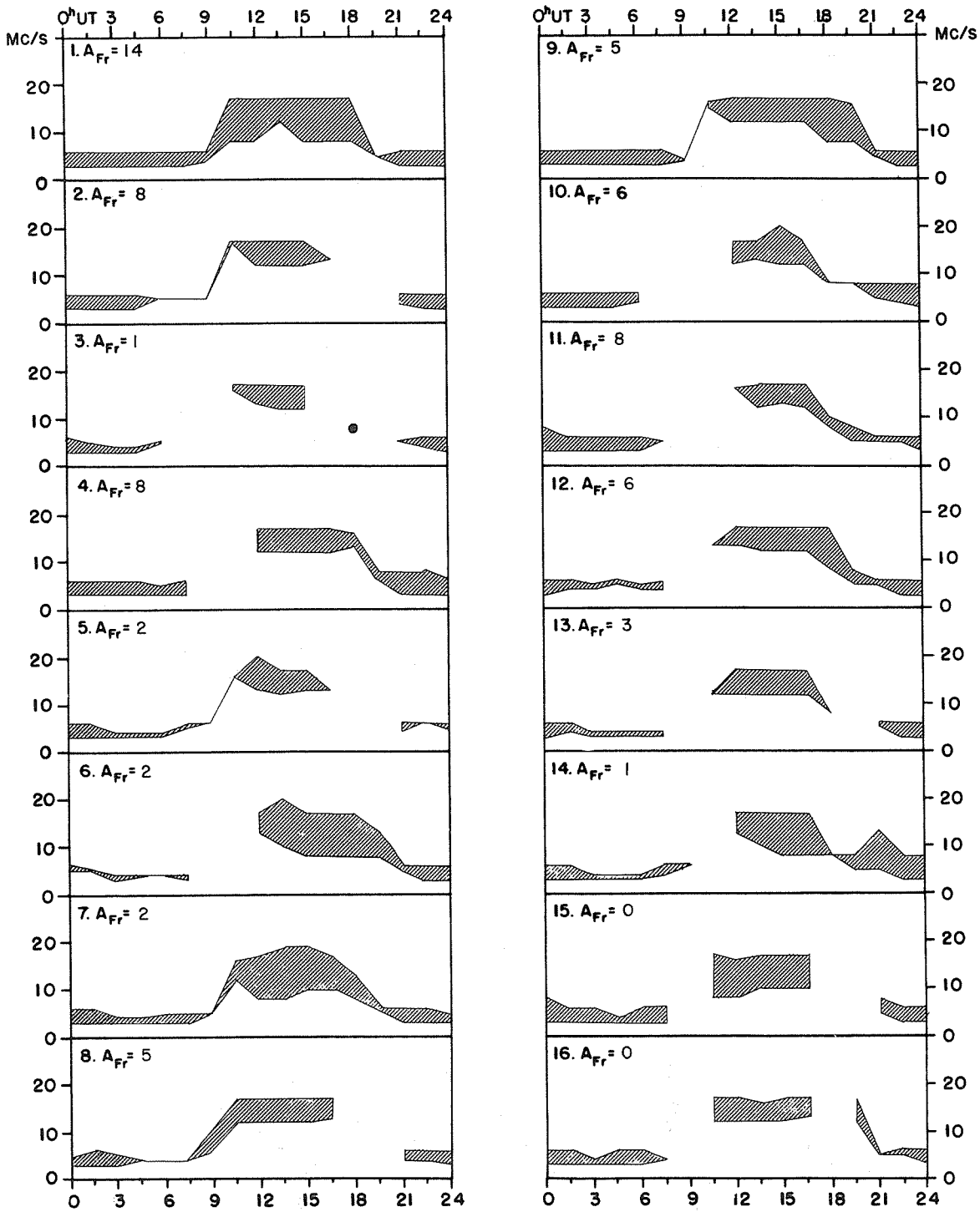


HIGH LATITUDE



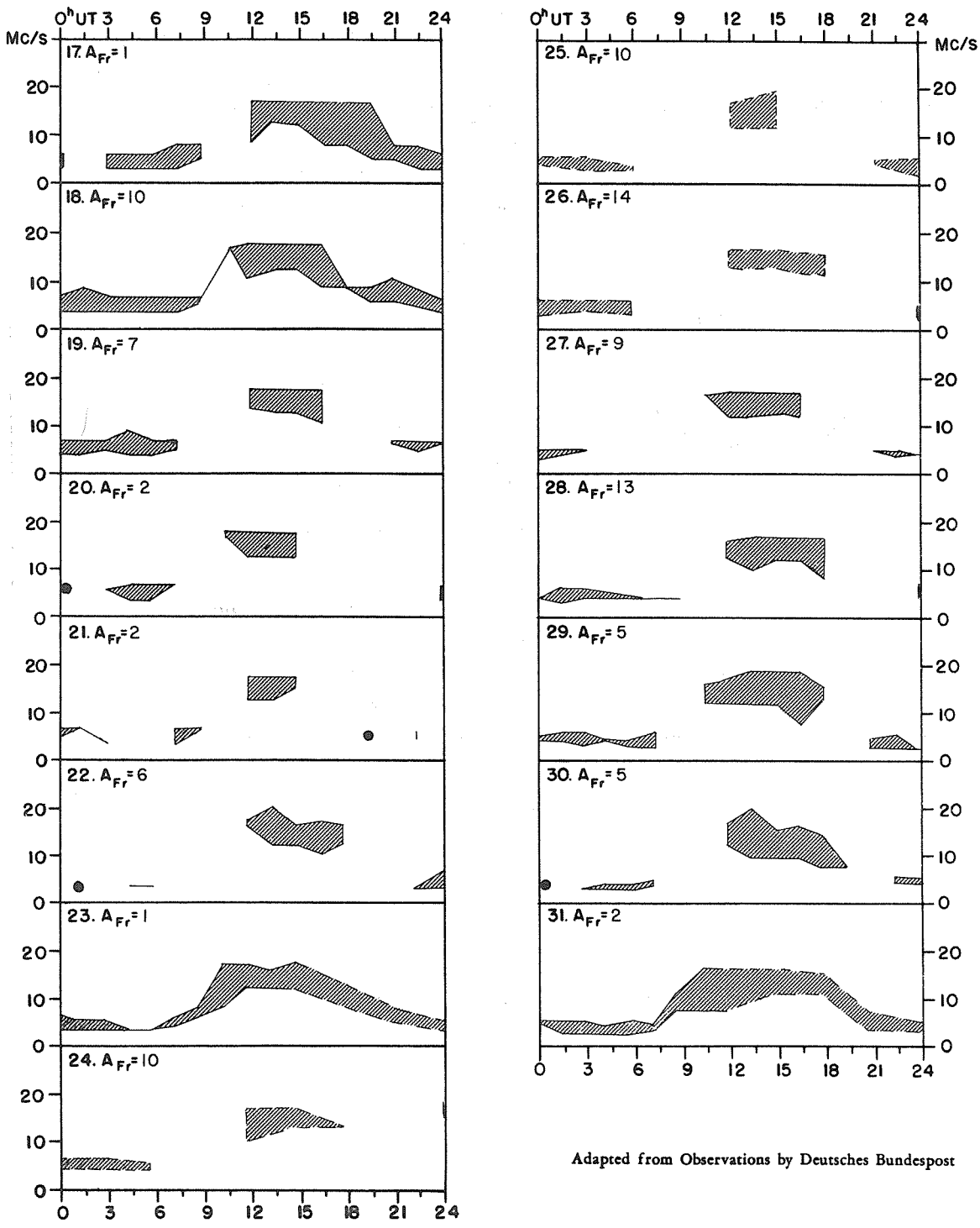
USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

DECEMBER 1965



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

DECEMBER 1965



Adapted from Observations by Deutsches Bundespost

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

JANUARY 1966

JAN. 1966	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
13	0400		296	Solar Activity	Exists	East Limb
14	0400		297	Solar Activity	Exists	East Limb
15	0400		298	Solar Activity	Exists	Gamma Spot
16	0400		299	Solar Activity	Exists	
17	0400		300	Solar Activity	Exists	
	1331*	ADALERT PRESTO TENFLARE, NERA 17/1032Z				
18	0400		301	Solar Activity	Exists	
			302	Magnetic Storm	Expected	
19	0044	Lockheed, Solar Flare 18/2255Z				
	0135*	ADALERT PRESTO TENFLARE, Toyokawa 18/2300Z				
	0400		303	Solar Activity	Exists	
			304	Magnetic Storm	Expected	
20	0400		305	Solar Activity	Exists	
			306	Magnetic Storm	Expected	
21	0400		307	Solar Activity	Exists	
			308	Magnetic Storm	Expected	
22	0400		309	Solar Activity	Exists	Beta Gamma Spot
23	0400		310	Solar Activity	Exists	
24	0400		311	Solar Activity	Exists	
25	0400		312	Solar Activity	Exists	

* Time Relayed by AGIWARN