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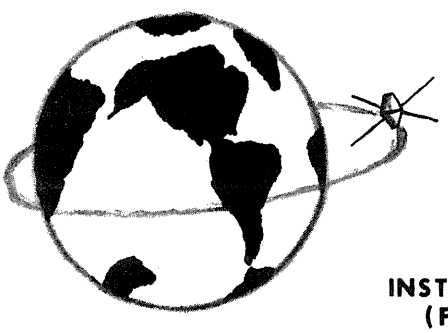
SOLAR-GEOPHYSICAL DATA

Issued: April 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 260

ISSUED

30 Apr. 1966

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
INSTITUTE FOR TELECOMMUNICATION SCIENCE AND AERONOMY
(FORMERLY CENTRAL RADIO PROPAGATION LABORATORY)
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CONTENTS

The revised descriptive text was published in January 1966.

AFCRL Sagamore Hill Solar Radio Observatory

The Sagamore Hill Solar Radio Observatory of the Air Force Cambridge Research Laboratories (located at 42°37'54.36"N 70°49'15.15"W) is operating a solar patrol at 8800 Mc/s , 2700 Mc/s , 1415 Mc/s , and 606 Mc/s . The patrol will include 5000 Mc/s later in 1966. The project is funded in part by the Laboratory Director's Fund. The objectives are to provide high absolute accuracy flux measurements at 606 and 1415 Mc/s (±3%), to provide coverage at other regions of the microwave spectrum with reduced absolute accuracy (±10%), and to study centimeter burst spectrum from correlated measurements.

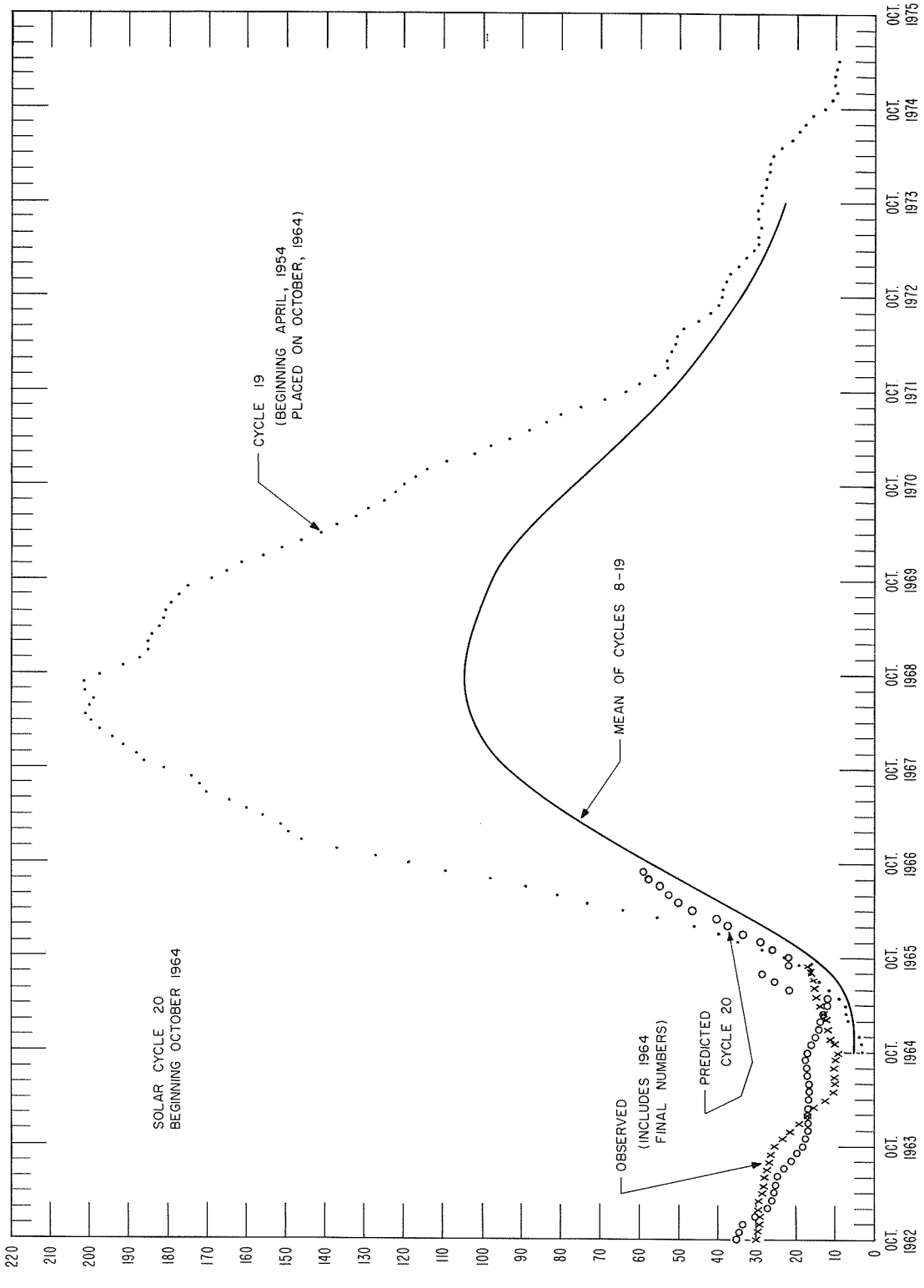
Solar coverage is provided at the two longer wavelengths from sunrise to sunset. A 28 foot diameter polar mounted parabola and a dual frequency feed is used. At 606 Mc/s , the half power beam width is about 4°, while at 1415 Mc/s the underilluminated parabola provides a 3° beam. The shorter wavelengths operate from a polar mounted 8 foot parabola with a multi-frequency feed. Coverage is from sunrise to sunset generally, except for a period when some afternoon data will be lost due to partial antenna blockage. The parabola is underilluminated at 8800 Mc/s . Corrections are employed to convert apparent fluxes to true fluxes where required. Daily flux calibrations are made at about meridian transit each day.

All receivers are essentially "Dicke" radiometers. Bandwidth (IF) of each is about 8 Mc/s . Band pass filters (RF) and single side band operation are employed at 606 and 1415 Mc/s . The other receivers operate double side band where the L.O. is designated the operating frequency.

All flux data variation resulting from the varying distance between the sun and the earth is corrected to 1 A.U. Corrections are also made for atmospheric attenuation based on the following average vertical attenuations:

8800 Mc/s	,	.070 db
5000 Mc/s	,	.055 db
2700 Mc/s	,	.051 db
1415 Mc/s	,	.05 db
606 Mc/s	,	.045 db

Outstanding occurrences are listed according to the IAU classification as described in the Pennsylvania State University section of the descriptive text.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

Day	1965 Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.	Mar.
1	0	0	9	18	0	20	52	29	13	18	7	25
2	0	14	24	20	0	20	63	28	8	17	9	11
3	0	8	36	19	15	21	60	20	8	16	20	11
4	0	8	38	17	14	22	62	13	8	15	17	18
5	0	7	34	8	0	22	55	13	8	8	17	12
6	0	0	30	17	16	19	39	29	8	7	17	14
7	0	11	32	22	7	23	27	40	8	7	16	10
8	0	15	24	29	31	22	7	46	15	13	13	9
9	0	9	23	33	12	18	8	38	7	13	10	15
10	0	0	9	29	14	15	13	41	7	7	11	13
11	0	0	7	35	16	19	8	40	0	8	14	10
12	9	15	0	30	13	17	9	26	0	0	8	0
13	9	21	0	23	8	17	8	17	14	17	16	0
14	15	15	14	12	7	8	7	16	0	30	12	0
15	27	30	0	11	0	8	0	10	14	36	16	9
16	18	36	0	8	0	16	7	9	22	57	13	26
17	17	55	12	7	0	8	0	7	21	50	19	44
18	8	72	25	0	7	9	0	0	20	64	24	53
19	7	75	16	0	7	7	10	0	18	68	32	60
20	7	72	21	0	7	0	12	0	15	63	39	54
21	9	70	19	0	7	0	15	0	10	52	41	49
22	15	62	14	0	0	0	26	7	11	44	50	52
23	17	50	7	0	0	11	23	0	9	38	55	40
24	10	43	7	0	8	17	16	7	8	41	42	31
25	7	30	7	7	0	13	24	0	12	27	37	23
26	11	22	7	0	8	17	17	7	23	19	36	18
27	10	7	8	7	14	24	17	0	29	16	35	10
28	8	0	23	0	12	23	9	8	64	14	31	12
29	0	0	18	0	16	37	8	8	64	19		35
30	0	0	14	9	15	50	8	15	44	28		42
31		0		7	22		14		38	15		52
Mean:	6.8	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0	26.7	23.5	24.5

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

AMERICAN, $R_{A'}$

Day	1965 Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.	Mar.
1	0	0	14	12	0	15	33	29	10	25	0	11
2	0	3	20	9	0	17	39	27	10	21	12	12
3	0	4	29	6	7	19	50	20	10	19	14	14
4	0	1	39	6	2	19	43	11	9	13	16	16
5	0	1	33	3	0	16	37	1	10	7	17	15
6	0	0	33	13	0	21	26	29	12	1	15	14
7	0	9	34	22	7	21	16	43	9	0	14	10
8	0	10	21	20	6	19	5	34	2	1	13	10
9	0	4	13	22	9	19	10	38	3	0	12	16
10	0	0	2	19	10	18	11	43	0	0	14	15
11	5	1	0	20	10	17	11	38	0	0	15	7
12	10	7	0	25	14	21	9	24	0	0	11	0
13	11	10	0	15	1	18	10	15	0	19	12	3
14	12	4	0	14	1	12	2	16	0	30	14	1
15	17	29	0	11	0	11	0	14	18	37	13	15
16	12	37	0	11	0	10	0	12	21	31	16	21
17	14	57	10	4	0	5	0	0	18	43	13	43
18	8	55	17	0	3	4	0	0	19	43	25	46
19	0	65	15	0	1	2	8	0	16	55	24	46
20	1	55	13	0	2	1	12	0	0	55	33	41
21	13	48	11	0	0	0	14	0	7	41	36	32
22	19	43	5	0	0	0	22	0	8	34	43	29
23	18	39	0	0	0	14	20	3	10	36	55	19
24	10	30	0	0	0	14	21	4	6	31	47	17
25	10	23	0	0	0	12	16	0	17	18	47	16
26	16	14	1	0	3	15	11	0	20	14	47	10
27	12	1	6	0	16	13	12	0	35	15	32	0
28	3	0	6	0	12	21	11	6	44	14	28	12
29	0	0	8	1	3	35	11	9	55	20		36
30	0	0	13	5	12	41	11	10	47	21		41
31		0		0	19		12		28	3		32
Mean:	6.4	17.7	11.4	7.7	4.5	15.0	15.6	14.2	14.3	20.9	22.8	19.4

DAILY SOLAR FLUX AT 2800 Mc/s

OTTAWA-ARO

OBSERVED FLUX,S

Day	1965 Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.	Mar.
1	71.2	71.1	70.8	76.0	72.0	75.4	92.0	78.8	75.4	82.0	79.9	81.2
2	71.6	70.8	73.7	75.6	73.0	75.9	93.2	79.5	75.0	78.9	79.2	78.0
3	71.3	70.7	75.2	76.2	77.3	76.6	96.0	81.1	74.9	78.5	79.8	77.1
4	71.0	69.7	78.2	75.9	78.4	76.7	97.5	79.8	74.5	80.5	81.3	76.7
5	70.7	69.0	78.3	75.4	76.3	78.7	91.6	78.0	75.4	80.0	82.9	76.0
6	70.9	70.4	78.4	78.5	78.8	77.1	85.2	80.7	76.2	79.7	84.5	76.6
7	70.7	71.4	77.2	81.5	79.6	77.7	83.6	85.2	75.3	80.9	85.1	77.4
8	70.5	72.0	78.4	81.0	77.3	78.6	82.8	80.4	76.7	80.6	84.6	77.5
9	71.7	72.4	79.0	81.4	77.6	76.1	83.3	82.0	75.0	80.1	85.2	79.6
10	73.1	72.1	78.3	80.3	76.1	75.6	80.4	84.1	75.3	79.8	86.0	79.6
11	73.7	71.1	76.5	79.9	76.7	75.7	76.0	84.2	75.6	80.9	85.8	79.0
12	73.3	71.8	76.0	78.2	75.9	75.3	74.8	80.8	75.9	84.0	85.4	79.3
13	73.6	74.4	76.8	76.3	74.8	75.0	75.8	77.3	74.0	87.2	86.1	81.0
14	75.3	75.4	76.1	74.7	73.7	75.2	74.7	76.0	74.7	93.2	86.1	82.3
15	75.0	80.5	76.7	74.5	72.5	74.9	73.8	76.5	76.8	101.9	85.4	88.1
16	74.6	86.3	76.0	72.1	73.8	73.7	72.3	74.0	77.6	106.0	84.7	93.8
17	73.2	91.1	76.3	71.9	72.4	73.8	72.5	74.3	78.4	101.7	84.1	106.2
18	73.0	90.4	78.2	71.9	73.2	73.0	72.2	75.0	78.4	104.8	84.1	110.6
19	74.1	92.4	74.9	72.5	74.3	72.8	71.8	73.4	76.8	108.6	83.0	115.5
20	72.4	94.7	76.0	73.0	73.7	72.8	72.7	72.7	74.5	102.3	84.7	111.9
21	73.0	92.8	75.9	72.6	73.6	72.5	73.3	72.2	74.1	98.9	87.6	121.2
22	72.7	92.2	78.2	71.5	72.9	71.2	76.2	71.8	72.3	94.7	87.9	105.8
23	73.2	86.2	80.2	70.9	73.0	71.8	78.7	71.3	72.7	93.5	84.5	96.8
24	70.8	85.1	78.1	70.1	72.7	76.1	76.3	71.2	71.2	91.8	83.7	93.5
25	69.6	81.0	79.3	70.0	72.2	75.8	77.9	70.6	72.1	88.1	80.9	91.6
26	69.1	77.9	78.7	69.4	72.0	77.0	78.2	71.8	76.9	85.4	84.8	85.0
27	69.2	76.0	77.7	70.0	74.5	78.4	78.0	74.1	83.7	82.4	84.8	83.4
28	69.5	74.5	76.7	70.6	73.2	80.5	77.2	77.0	83.8	80.5	85.7	87.9
29	70.2	73.7	76.4	71.1	74.2	87.3	76.7	73.9	84.7	80.7		96.4
30	69.9	74.0	77.0	71.1	75.0	89.0	76.2	75.1	81.9	78.7		99.2
31		71.6		70.7	74.9		78.1		80.8	77.7		110.6
Mean:	71.9	78.1	77.0	74.3	74.8	76.3	79.6	76.8	76.5	87.9	84.2	90.3

FLUX ADJUSTED TO 1 A.U., Sa

Day	1965 Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.	Mar.
1	71.1	72.2	72.8	78.6	74.2	76.8	92.2	77.6	73.3	79.3	77.6	79.7
2	71.5	71.9	75.8	78.2	75.2	77.3	93.3	78.2	72.9	76.3	76.9	76.7
3	71.3	71.9	77.4	78.8	79.6	77.9	96.1	79.8	72.7	75.9	77.5	75.8
4	71.1	70.9	80.5	78.5	80.7	78.0	97.5	78.4	72.3	77.8	79.0	75.5
5	70.8	70.2	80.6	78.0	78.5	80.0	91.6	76.7	73.2	77.4	80.6	74.8
6	71.0	71.7	80.7	81.2	81.1	78.3	85.1	79.2	74.0	77.1	82.1	75.5
7	70.8	72.7	79.5	84.3	81.8	78.9	83.5	83.7	73.0	78.2	82.8	76.2
8	70.7	73.4	80.7	83.8	79.5	79.8	82.6	78.9	74.4	77.9	82.3	76.4
9	71.9	73.8	81.4	84.1	79.8	77.2	83.0	80.4	72.7	77.4	82.9	78.5
10	73.4	73.5	80.7	83.0	78.2	76.7	80.1	82.4	73.0	77.2	83.8	78.6
11	74.1	72.5	78.9	82.6	78.8	76.7	75.7	82.5	73.2	78.2	83.6	78.0
12	73.7	73.3	78.4	80.8	77.9	76.3	74.5	79.1	73.5	81.2	83.2	78.3
13	74.0	76.0	79.2	78.8	76.7	75.9	75.4	75.7	71.7	84.3	83.9	80.0
14	75.8	77.0	78.5	77.2	75.6	76.1	74.3	74.4	72.4	90.1	83.9	81.4
15	75.5	82.3	79.1	77.0	74.4	75.7	73.3	74.8	74.4	98.5	83.3	87.1
16	75.1	88.3	78.4	74.5	75.6	74.5	71.8	72.4	75.1	102.6	82.7	92.9
17	73.8	93.2	78.7	74.3	74.2	74.5	72.0	72.6	75.9	98.4	82.1	105.1
18	73.7	92.6	80.8	74.3	75.0	73.7	71.6	73.3	75.9	101.4	82.2	109.6
19	74.8	94.6	77.4	74.9	76.1	73.4	71.2	71.6	74.3	105.1	81.1	114.6
20	73.1	97.0	78.5	75.4	75.5	73.4	72.0	70.9	72.1	99.0	82.8	111.0
21	73.7	95.1	78.4	75.0	75.3	73.1	72.6	70.5	71.7	95.7	85.7	120.3
22	73.5	94.5	80.7	73.9	74.6	71.7	75.4	70.0	70.0	91.8	86.0	105.1
23	74.0	88.4	82.8	73.2	74.6	72.3	77.9	69.5	70.3	90.6	82.7	96.2
24	71.6	87.3	80.7	72.4	74.3	76.6	75.5	69.3	68.8	88.9	81.9	92.9
25	70.4	83.1	81.9	72.3	73.8	76.2	77.0	68.8	69.7	85.4	79.3	91.1
26	70.0	80.0	81.4	71.7	73.5	77.4	77.3	69.9	74.4	82.7	83.1	84.7
27	70.2	78.1	80.3	72.3	76.0	78.7	77.0	72.1	80.9	79.9	83.2	83.1
28	70.5	76.5	79.3	72.9	74.7	80.8	76.2	74.9	81.0	78.1	84.1	87.6
29	71.2	75.8	79.0	73.4	75.7	87.6	75.6	71.9	81.9	78.3		96.1
30	70.9	76.1	79.6	73.4	76.4	89.3	75.1	73.0	79.2	76.3		99.0
31		73.6		73.0	76.3		76.9		78.1	75.4		110.4
Mean:	72.4	79.9	79.4	76.8	76.6	77.2	79.1	75.1	74.1	85.0	82.1	89.4

CALCIUM PLAGE AND SUNSPOT REGIONS

MARCH 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	
2.3	N28	8182(1)	New	(200)	(1.0)	b - d	1	2/25	1			
2.9	N16	8186(1)	New	(100)	(1.5)	b - d	1	2/28	1			
5.2	N21	8184	New	1100	3.0	ℓ ∧ ℓ	1	2/27	12	(10)	(7)	b⟍d
6.0	N28	8191	New	400	3.5	b⟋d	1	3/4	≧ 7	40	9	b ∧ d
6.4	S22	8187	New	(400)	(1.5)	ℓ⟋d	1	2/28	8			
6.9	S12	8194	New	(200)	(2.5)	b - d	1	3/9	2			
7.6	N36	8188(3)	8158	500	2.0	ℓ∧ ℓ	2	3/1	>10			
8.3	N31	8190(3)	8158	600	3.0	ℓ \ ℓ	2	3/2	12			
10.5	N20	8199	New	(400)	(1.0)	b \ d	1	3/13	3			
11.1	N04	8192	New	(400)	(1.5)	ℓ - d	1	3/4	4			
12.4	N31	8201(1)	New	(100)	(1.5)	b - d	1	3/13	1			
14.9	N14	8193	8161	700	2.5	ℓ ∧ ℓ	3	3/8	13			
15.1	N27	8204	New	400	2.5	b ∧ ℓ	1	≦3/13	≧ 9	(10)	(8)	b - d
15.7	N26	8208(1)	New	(200)	(2.0)	b - d	1	3/19	1			
16.7	N25	8195	New	300	1.5	ℓ - d	1	3/9	11			
16.7	N21	8211(1)	New	(100)	(1.5)	b - d	1	3/20	1			
19.4	N23	8212	New	(200)	(1.5)	b - d	1	3/20	2			
19.5	S13	8213	New	(200)	(2.0)	b - d	1	3/20	2			
20.2	N22	8206	8171	(300)	(1.5)	ℓ - d	2	3/14	≧ 8			
22.1	N19	8207(2)	8174	9500	3.0	ℓ - ℓ	1&2	3/15	14	900	82	ℓ ∧ ℓ
22.4	S38	8224	New	(200)	(1.0)	b - d	1	3/28	1			
24.9	S23	8215	New	(200)	(2.0)	b - d	1	3/21	≧ 1			
25.1	N22	8220	New	(200)	(1.5)	b - d	1	3/27	4	(10)	(2)	b - d
25.2	N24	8214	New	(200)	(1.5)	b - d	1	3/20	2			
26.1	S06	8219	New	200	1.5	b - d	1	3/25	2			
26.1	N22	8225(1)	New	(100)	(1.5)	b - d	1	3/28	1			
27.0	N14	8235(1)	New	(300)	(1.0)	b - d	1	3/31	1			
27.1	N21	8216	New	200	2.0	b⟍d	1	3/21	11			
27.1	N29	8217	8177	(300)	(1.0)	ℓ - d	2	3/21	4			
27.3	S28	8236(1)	New	(100)	(1.5)	b - d	1	3/31	1			
27.6	N22	8227	New	(400)	(3.5)	b / ℓ	1	3/29	5	(20)	(11)	b - d
27.7	S24	8230	New	(200)	(1.0)	b - d	1	3/30	2			
27.9	N20	8218	New	300	1.0	b - d	1	3/24	8	(5)	(1)	b - d
28.0	N22	8237(1)	New	(100)	(1.5)	b - d	1	3/31	1			
28.4	S18	8221(1)	New	(100)	(2.0)	b - d	1	3/27	1			
29.4	N21	8222	New	200	1.0	b - d	1	3/27	5	(10)	(1)	b - d
30.5	N24	8243	New	(300)	(2.0)	b - d	1	≦4/4	≧ 1			
30.8	N09	8228	New	(100)	(1.5)	b - d	1	3/29	1			
30.9	N26	8229	New	100	1.5	b - d	1	3/29	2			

(1) These small and ephemeral plages were seen on the disk for only one day.

(2) Region 8207 covers more than the 30° in longitude. The "following" portion is almost certainly the return of region 8174 which developed on the disk in February. The leading portion of the region appears to be primarily new.

(3) Regions 8188 and 8190 are both parts of region 8158.

No calcium spectroheliograms were obtained at the McMath-Hulbert Observatory on March 6, 11, 12, 18, 22, 23, 1966.

MARCH 1966

March 1966	TIME MEAS. UT	LAT.	MER. DIST.	TYPE	No.
1	1600	N21	E48	βp	15996
2	2240	N22	E30	βp	15996
3	1900	N22	E17	βp	15996
4	1700	N22	E06	βp	15996
		N28	E15	βf	15997*
5	No Obs.				
6	2205	N27	W17	βp	15998
7	2315	N27	W34	αp	15998
8	1615	N27	W43	βp	15998
9	1640	N26	W53	βp	15998
10	2250	N26	W69	βp	15998
11	No Obs.				
12	No Spots				
13	2240	N28	E17	αf	15999
14	No Obs.				
15	1610	N19	E76	αp	16000
16	1940	N18	E60	βγ	16000
		N27	W20	αp	16001
17	1815	N19	E47	γ	16000
		N27	W35	βp	16001
18-19	No Obs.				
20	1900	N18	E08	βγ	16000
21	1745	N17	W05	γ	16000
22-26	No Obs.				
27	No Spots				
28	1730	N22	E11	αf	16003
29	1645	N23	W30	βf	16005
		N24	E67	βγ	16004
30	2215	N26	E45	βγ	16004
		N23	W43	βp	16005
31	2210	N25	E32	βγ	16004

* Appeared and disappeared on disk on 4th.

Note: No. 16002; an unmeasured group of two small spots at N24 W51 on 3/28/66 at 1730 UT.

PROVISIONAL CORONAL LINE EMISSION INDICES

MARCH 1966

CMP Mar 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	11	24	17	23	2	6	25	38	2	5	10	12	10	14	9	18
2	16	28	13	16	0	0	18	19	x	x	x	x	x	x	x	x
3	11	20	x	x	6	11	8	12	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	x	x	x	x	x	x	x	x
6	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
7	67	114	x	x	3	9	53	63	x	x	x	x	x	x	x	x
8	56	127	25	38	1	9	36	44	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	2	10	11	14	21	31	9	18
11	10	23	13	25	0	0	22	26	x	x	x	x	x	x	x	x
12	16	20	x	x	5	11	12	16	x	x	x	x	x	x	x	x
13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
14	25	32	x	x	4	10	15	17	x	x	x	x	x	x	x	x
15	57	92	18	42	7	23	12	19	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	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	x	x	x	x	x	x	x	x	3	10	25	63	39	69	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	17	26	2	15	79	129	21	55
23	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
24	48	66	14	28	8	12	10	14	2	12	16	20	23	31	21	29
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	x	x	x	x	x	x	x	x
28	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
29	x	x	x	x	x	x	x	x	4	9	17	27	2	10	14	16
30	x	x	x	x	x	x	x	x	0	0	34	48	17	40	x	x
31	x	x	x	x	x	x	x	x	5	9	13	21	10	15	22	25

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

SOLAR FLARES

MARCH 1966

OBSERVATORY	DATE 1966 MAR	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
IKOM	01	0440	0510		N20	W85		8174		30	1N		V					85	D
MANI	01	0622	0648D	0628	N21	W90		8174		26D	SN	2		0628	1.03	3.50			
CATA	01	0750	1145	0757	N20	W90		8174		235	SF			0757	.41			135	
CAPS	01	1112E	1120D		N23	W90		8174		8D	1N	2							
MANI	02	0335	0400	0340	N22	W90		8174		25	2N	2		0340	3.20	11.12			
ARCE	02	0925E	1000D	0925	N24	E40		8184		35D	SN		C	0925	.34	.50			
HALE	03	2216	2240	2222	N24	E19		8184		24	SN	2	C	2222	.12	.20			
ARCE	04	0855E	0955D	0910	N28	E22		8191		60D	SN		C	0910	.94	1.20			
SACP	04	2302	2320	2310	N21	E02		8184		18	SF		C		.34	.34			
HALE	06	1721E	1724D		N36	E14		8190		3D	SF	1	P	1724	.26	.40			
LOCK	06	2047	2100	2052	N33	E11		8190		13	SF		C	2052	.30	.40		10	
KANZ	07	1010E	1018		N29	W23		8191		8D	SN		V						E
SACP	07	1529	1549	1538	N33	E08		8190		20	SF		C		.51	.57			
MCMA	07	1535	1542	1537	N34	E08		8190		7	SF		C	1537	.21	.30			DH
LOCK	07	2020	2057	2048	S05	E03				37	SF		C	2048	.30	.30		10	H
KANZ	08	0804E	0812		N28	W01		8190		8D	SN								E
ARCE	08	0805	0820D	0810	N30	W03		8190		15D	SN		C	0810	.63	.80			E
MCMA	08	1735	1758	1739	N27	W42		8191		23	SF		C	1739	.41	.50			D
IKOM	09	0015	0134D		N27	W45		8191		79D	SF		V	0100	.83	1.40	1.10	90	D
ARCE	09	0845E	0945D	0855	N28	W50		8191		60D	SN		C	0855	.59	1.10			FH
ARCE	10	1000	1022D	1000	N22	W76		8184		22D	SN		C	1000	.31	.90			C
HALE	10	2032	2034D		N23	W80		8184		2D	SN	1	P	2034	.31				
HALE	11	1740	1800	1744	N30	W80		8184		20	SF	1	C	1744	.12				
HALE	11	1802	1830	1812	N34	E44		8204		28	SN	2	C	1812	.21	.40			
OTTA	11	1806	1825	1816	N34	E43		8204		19	SN	1	C	1816	.11	.21			
HUAN	11	1807	1829	1818	N35	E44		8204		22	SF	2	C	1818	.21	.30			D
HALE	11	2305	2324	2311	N26	W85		8184		19	SN	1	C	2311	.21				
ARCE	13	0945E	1000D	0950	N29	E25		8204		15D	SN		C	0950	.72	1.00			
OTTA	14	1423	1441		N20	E90		8206		18	SN	1	C	1425	.23				
HUAN	14	1434	1441	1436	N20	E90		8206		7	SF	2	C	1436	.41				D
KANZ	14	1507E	1559D		N20	E90		8206		52D	1N								A
OTTA	14	1508	1516		N20	E90		8206		8	SN	1	C	1511	.17				
OTTA	14	1602	1609		N19	E90		8206		7	SN	1	C	1604	.23				
MCMA	14	1640	1650	1642	N23	E90		8206		10	SN		C	1642					
LOCK	14	1706	1720	1711	N22	E90		8206		14	SN		C	1711	.30	1.20		20	H
OTTA	14	1707	1726		N20	E90		8206		19	SN	2	C	1710	.45				HL
SACP	14	1847E	1858	1855	N18	E88		8206		11D	SN		C		.51				
OTTA	14	1852E	1857D		N18	E90		8206		5D	SN	1	P	1854	.28				
MCMA	14	1852	1857	1853	N17	E90		8206		5	SN		C	1853					
HALE	14	1852	1858	1854	N17	E90		8206		6	SB	2	C	1854	.31				
LOCK	14	1853	1900	1855	N19	E90		8206		7	SN		C	1855	.30	1.20		20	
HUAN	14	1856E	1858		N16	E90		8206		2D	SF	1	P	1856	.46				E
HALE	14	2151	2157	2152	N18	W57		8199		6	SF	2	C	2152	.31	.70			H
HALE	14	2259	2311	2304	N18	W58		8199		12	SF	2	C	2304	.21	.50			
HALE	15	0145	0148	0146	N22	E90		8207		3	1B	3	C	0146	.52				
HALE	15	0252	0300	0253	N23	E90		8207		8	SF	2	C	0253	.21				
MANI	15	0510	0524	0513	N16	E85		8207		14	SN	1		0515	.51	1.50			
MANI	15	0629	0646	0633	N20	E85		8207		17	SN	1		0633	.36	1.26			
KANZ	15	0735E	0750D		N21	E80		8207		15D	SN								A
ARCE	15	0800E	0820D	0810	N18	E90		8207		20D	1N		C	0810	.37	2.10			
ARCE	15	0825	0850	0835	N21	E85		8207		25	1N		C	0835	.94	3.80			C
ARCE	15	0855	0910	0900	N18	E90		8207		15	SN		C	0900	.31	1.80			
ARCE	15	0855E	0910D	0900	N21	E85		8207		15D	SN		C	0900	.25	1.00			
MONT	15	0908	1000		N20	E85		8207		52	S								
ARCE	15	0940	0950	0940	N18	E90		8207		10	SN		C	0940	.28	1.60			
KANZ	15	1020E	1102D		N16	E80		8207		42D	SF								AF
KANZ	15	1020E	1102D		N21	E80		8207		42D	SF								AF
ARCE	15	1025	1030D		N18	E90		8207		5D	1N		C	1025	.66	3.70			
OTTA	15	1206E	1217		N18	E90		8207		11D	SN	1	C	1208	.23				
OTTA	15	1211	1222		N21	E79		8207		11	SN	1	C	1211	.46				
OTTA	15	1234	1305		N22	E80		8207		31	1N	1	C	1237	.57				
MCMA	15	1245E	1305	1255	N23	E85		8207		20D	SB		C	1255	.62				DI
OTTA	15	1312	1326	1315	N21	E80		8207		14	1N	1	C	1315	.57				
MCMA	15	1314	1326	1316	N23	E85		8207		12	SB		C	1317	.52				D
MCMA	15	1338	1345	1340	N23	E85		8207		7	SF		C	1340	.41				D
MONT	15	1342	1413	1353	N20	E82		8207		31	S								
OTTA	15	1345	1356		N26	E90		8207		11	1B	1	C	1348	.45				
SACP	15	1345	1413	1354	N24	E82		8207		28	SF		C		.34				

SOLAR FLARES

MARCH 1966

OBSERVATORY	OBSERVED UT DATE 1966 MAR	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
MCMA	15	1347	1410	1350	N26	E88		8207		23	SN		C	1350	.21				D
OTTA	15	1446	1456		N20	E84		8207		10	1N	1	C	1451	.68				F
OTTA	15	1503	1509D		N21	E79		8207		6D	1N	1	C	1506	.79				
OTTA	15	1524	1532	1525	N18	E88		8207		8	SN	1	C	1525	.45				
ONDR	15	1524	1532	1526	N18	E82		8207		8	1F		V	1526			2.35		CDH
HUAN	15	1537	1549	1540	N20	E76		8207		12	SN	2	C	1540	.46				D
ONDR	15	1537	1620		N21	E74		8207		43	1N		V	1542			3.33		CJ
OTTA	15	1538	1547	1540	N21	E79		8207		9	1N	1	C	1540	1.03				
MCMA	15	1538	1548		N23	E84		8207		10	SB		C	1540	.52				D
OTTA	15	1614	1620		N21	E79		8207		6	1N	1	C	1615	1.14				
HUAN	15	1636	1653D	1638	N21	E76		8207		17D	1N	1	P	1638	1.24				
OTTA	15	1636	1722	1638	N21	E72		8207		46	2B	1	C	1638	2.34				F
MCMA	15	1637	1653	1638	N24	E84		8207		16	1B		C	1638	1.24	3.00			F
SACP	15	1637	1803	1712	N25	E70		8207		86	SF		C		.51	1.14			
HALE	15	1649E	1736	1653	N26	E68		8207		47D	SN	2	P	1653	.46				T
HALE	15	1805	1846	1808	N20	E80		8207		41	SN	2	C	1808	.31				T
OTTA	15	1806	1857D	1810	N21	E79		8207		51D	1N	1	C	1810	1.03				HJK
OTTA	15	1832	1857D	1841	N22	E90		8207		25D	SB	1	C	1841	.11				
HALE	15	1845	1848	1846	N20	E85		8207		3	SF	2	C	1846	.10				T
HALE	15	1848	1914	1853	N21	E75		8207		26	SN	2	C	1853	.52				KT
HALE	15			1905										1905	.36				
LOCK	15	1848	1919	1852	N21	E73		8207		31	SN		C	1910	.40	1.20		20	H
LOCK	15	1848	1919	1910	N21	E73		8207		31			C	1910	.40	1.20		20	H
HUAN	15	1849	1854	1850	N20	E76		8207		5	SF	1	C	1850	.41				E
MCMA	15	1849	1855	1851	N23	E83		8207		6	SN		C	1851	.31				D
MCMA	15	1904	1910	1905	N23	E82		8207		6	SN		C	1905	.31				E
MCMA	15	1919	1925	1922	N23	E80		8207		6	SN		C	1922	.21				D
HALE	15	1919	1927	1922	N21	E75		8207		8	SB	1	C	1922	.46				T
HALE	15	2000	2046	2013	N21	E75		8207		46	1N	1	C	2013	.83				JKT
HALE	15			2040								1	C	2040	.41				JT
LOCK	15	2005	2048	2022	N21	E73		8207		43	SN		C	2022	.40	1.20		20	
MCMA	15	2009	2036		N23	E79		8207		27	SF		C	2021	.21				EK
MCMA	15	2038	2045	2040	N23	E79		8207		7	SB		C	2040	.31				E
HALE	15	2122	2201	2130	N16	E70		8207		39	SN	1	C	2130	.52				JT
HALE	15	2142	2152	2143	N17	E70		8207		10	SF	1	C	2143	.10				JT
LOCK	15	2237	2310	2246	N21	E73		8207		33	SN		C	2246	.30	.90		20	
HALE	15	2241	2253	2244	N21	E70		8207		12	1N	1	C	2244	.72				JT
HALE	15	2256	2314	2308	N21	E70		8207		18	1N	1	C	2308	.93				JT
SACP	15	2305	2322D	2314	N24	E65		8207		17D	SF		P		.26	.49			
HALE	15	2308	2328	2310	N24	E66		8207		20	SN	1	C	2310	.15				T
HALE	15	2317	2340	2330	N21	E70		8207		23	1N	1	C	2330	.93				JT
HALE	15	2344	2353	2345	N21	E72		8207		9	SN	1	C	2345	.21				JT
SACP	16	0042	0057D	0052	N21	E68		8207		15D	1N		P		1.22	2.47			
HALE	16	0048	0100D	0054	N21	E70		8207		12D	1N	1	P	0054	.93				JT
IKOM	16	0109			N19	E70		8207			1B		P	0109	.72	2.30			O
HALE	16	0111E	0129		N21	E70		8207		18D	SB	1	P	0111	.31				JT
MANI	16	0113E	0120	0114	N21	E70		8207		7D	SN	2		0114	.51	1.10			
HALE	16	0133	0147	0136	N21	E70		8207		14	SN	1	C	0136	.31				JT
HALE	16	0219	0239	0221	N21	E70		8207		20	1N	1	C	0221	.62				JT
HALE	16	0315	0339	0319	N21	E69		8207		24	1B	1	C	0319	.88				JT
HALE	16	0317	0329	0319	N16	E70		8207		12	SB	1	C	0319	.21				T
MANI	16	0320	0328	0322	N16	E70		8207		8	SN	2		0322	.50	1.10			
MANI	16	0606	0613	0608	N23	E69		8207		7	SN	2		0608	.72	1.50			
MANI	16	0736E	0756	0739	N16	E66		8207		20D	SN	2		0739	.50	1.10			
ARCE	16	0857	0900D	0857	N20	E64		8207		3D	SN		C	0857	.64	1.40			
KANZ	16	0857E	0905D		N19	E62		8207		8D	SF								D
ONDR	16	0910E	0924		N18	E64		8207		14D	1B		V	0913			5.18		CDHJ
KANZ	16	0912	1007		N22	E66		8207		55	3B								FHI
MONT	16	0912	1012	0914	N23	E63		8207		60	2B			0922	5.16				
ARCE	16	0914	0952	0914	N22	E68		8207		38	4N		C	0914	2.55	6.00			
ARCE	16			0924										0924	13.39	36.70			
KANZ	16	0916	0930D		N31	E90		8207		14D	2B								AH
MANI	16	0918E	0950D	0923	N25	E65		8207		32D	1N	2		0923	2.30	4.70			
CATA	16	0920	0930	0924	N23	E67		8207		10	2N			0924	2.45			151	
KANZ	16	0928E	0933D		N33	E70		8207		5D	SN								E
ARCE	16	1150	1205D	1156	N19	E63		8207		15D	1N		C	1156	1.28	2.60			H
OTTA	16	1213	1225	1215	N24	E58		8207		12	SF	1	C	1215	.34				IT
MONT	16	1214	1225	1216	N23	E63		8207		11	S								
OTTA	16	1256	1305		N28	E80		8207		9	1N	2	C	1259	.68				FIT
OTTA	16	1312	1319	1313	N18	E63		8207		7	SN	2	C	1313	.68				FIT
MCMA	16	1312	1343	1315	N16	E63		8207		31	SN		C	1315	.41	1.00			D
MONT	16	1321E	1340D	1340	N23	E63		8207		19D	S								
MCMA	16	1333	1350	1338	N21	E63		8207		17	SN								
MCMA	16			1343									C	1343	.77	.18			FHK
OTTA	16	1336	1412		N41	E43				36	SN	1	C	1403	.17	.36			FIT
MONT	16	1341	1410		N23	E62		8207		29	S								
SACP	16	1351	1430	1417	N21	E64		8207		39	SN		C		.42	.77			
MCMA	16	1407	1425	1411	N23	E63		8207		18	SN		C	1411	.41	1.00			D
OTTA	16	1501	1510		N34	E75		8207		9	1N	1	C	1502	.57				FIT

SOLAR FLARES

MARCH 1966

OBSERV-ATORY	OBSERVED UT DATE 1966 MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT.	REMARKS
SACP	16	1509	1549	1530	N20	E59		8207		40	SN		C		1.18	1.92			
MCMA	16	1515	1532	1517	N16	E61		8207		17	SN		C	1517	.36	.80			D
HUAN	16	1521E	1540D		N20	E60		8207		19D	SN	1	P	1528	.62				E
OTTA	16	1524	1546	1528	N21	E59		8207		22	SN	1	C	1528	.45	1.05			HIT
MCMA	16	1525	1543	1529	N21	E61		8207		18	1B								
KANZ	16	1528E	1543D		N20	E61		8207		15D	1N								GH
MCMA	16			1537										1537	.88	2.10			
SACP	16	1603	1705	1627	N16	E61		8207		62	1B		C		1.53	2.49			
MCMA	16	1611	1617	1612	N22	E61		8207		6	SN		C	1612	.31	.70			D
MCMA	16	1621	1650	1628	N15	E60		8207		29	SB		C	1628	.93	1.80			E
OTTA	16	1624	1646	1627	N17	E62		8207		22	1B	2	C	1627	1.84				FIT
LOCK	16	1630E	1703	1630U	N14	E58		8207		33D	SN		C	1630	.80	1.60		20	
HUAN	16	1637E	1650D		N15	E60		8207		13D	SN	1	P	1642	.57				
HALE	16	1646E	1657		N16	E61		8207		11D	SN	2	P	1646	.62	1.40			T
LOCK	16	1700	1711	1705	N19	E53		8207		11	SN		C	1705	.50	1.00		20	JL
MCMA	16	1703E	1705D		N22	E60		8207		2D	SF		P	1704	.41	1.00			EH
SACP	16	1750	1813	1801	N21	E59		8207		23	SF		C		1.09	1.79			
HALE	16	1753	1814	1801	N21	E60		8207		21	SN	2	P	1801	.57	1.30			LT
OTTA	16	1754	1812	1802	N20	E59		8207		18	1N								
OTTA	16			1806								2	C	1806	.92	2.05			FHIT
LOCK	16	1754	1814	1803	N19	E53		8207		20	SN		C	1803	.50	1.00		20	JL
MCMA	16	1757	1810	1803	N23	E61		8207		13	SF		C	1803	.52	1.20			EK
HUAN	16	1759	1810D	1802	N20	E58		8207		11D	SF	1	C	1802	.57				E
HALE	16	1802	1807U	1803	N18	E63		8207		5U	SF	2	P	1803	.15				T
HALE	16	1816	1835	1819	N23	E60		8207		19	SN	2	C	1819	.26				T
OTTA	16	1817	1829	1818	N22	E61		8207		12	SN	2	C	1818	.45				EIT
MCMA	16	1817	1840	1820	N23	E61		8207		23	SF		C	1820	.41	1.00			E
HUAN	16	1852E	1855D		N22	E52		8207		3D	SF	1	P	1852	.31				D
OTTA	16	1910	2000	1917	N36	W56				50	SF	1	C	1917	.11				
HALE	16	1912	1934		N37	W66				22	SF	2	P	1917	.15				
HALE	16	1913	1917D	1916	N23	E62		8207		4D	SN	2	P	1916	.15				T
SACP	16	1918	1952	1935	N19	E59		8207		34	1B		C		2.35	3.80			
LOCK	16	1921	1948	1923	N16	E55		8207		27	1B		C	1923	1.20	2.30		20	H
LOCK	16			1937															
OTTA	16	1922	1950	1923	N16	E58		8207		28	1N	2	C	1923	1.26	2.65			FHIT
HALE	16	1924E	1950		N15	E60		8207		26D	1N	2	P	1924	.93	2.00			T
HALE	16	1924E	1951	1932	N23	E62		8207		27D	1N	2	P	1932	1.24				W
MCMA	16	1930	1950	1937	N20	E61		8207		20	1B		C	1937	1.86	3.70			FHK
OTTA	16	2002	2022	2014	N29	E78		8207		20	1F	1	C	2014	.68				FIT
LOCK	16	2007	2205	2153	N19	E52		8207		118	SN		C	2153		1.10		20	L
SACP	16	2008	2024	2014	N20	E57		8207		16	SN		C		.76	1.18			
HALE	16	2009	2023	2013	N21	E57		8207		14	SN	2	C	2013	.31	.70			T
OTTA	16	2011	2022		N19	E57		8207		11	SN	1	C	2012	.57	1.18			IT
MCMA	16	2012	2018	2013	N21	E60		8207		6	SN		C	2013	.36	.80			F
OTTA	16	2038	2115	2054	N15	E58		8207		37	SB	1	C	2054	.63	1.27			HIT
MCMA	16	2129	2135	2131	N21	E60		8207		6	SN		C	2131	.31	.70			D
HALE	16	2129	2136	2131	N21	E57		8207		7	SN	1	C	2131	.62	1.30			T
LOCK	16	2145	2205	2153	N19	E52		8207		20	1B		C	2153	1.20	2.20		20	L
OTTA	16	2149	2154D		N20	E55		8207		5D	1N	2	C	2153	2.26	4.53			IT
HALE	16	2149	2207	2152	N21	E57		8207		18	1B	1	P	2152	1.55	3.30			JT
LOCK	16	2225	2236	2229	N20	E54		8207		11	1B		C	2229	1.30	2.50		20	L
HALE	16	2226	2242	2229	N23	E59		8207		16	SB	1	C	2229	.62	1.40			J
LOCK	16	2252	2317	2258	N18	E51		8207		25	SN		C	2258	.50	.90		20	
HALE	16	2253	2322	2258	N15	E59		8207		29	SB	2	C	2258	.93	2.00			T
SACP	16	2304E	2352	2309	N15	E57		8207		48D	SN		P		1.02	1.51			
SACP	17	0023	0051D	0045U	N27	W24		8204		28D	SF		P		1.12	1.27			
IKOM	17	0035	0040		N27	W24		8204		5	SF		V	0035	.62	.80		75	E
HALE	17	0055E	0057D		N18	E53		8207		2D	SN	1	P	0056	.52	1.00			T
MANI	17	0134	0155	0137	N16	E56		8207		21	SN	2		0137	1.13	1.98			
IKOM	17	0145	0155		N18	E57		8207		10	1B		V	0150	1.03	2.20		110	E
HALE	17	0146E	0146D		N15	E58		8207		0D	SB	2	P	0146	.62	1.30			T
MANI	17	0206E	0220D		N22	E54		8207		14D	SF	2		0206	1.00	1.72			
HALE	17	0253E	0258		N18	E52		8207		5D	SF	2	P	0253	.31	.60			T
HALE	17	0307	0324	0310	N13	E56		8207		17	SN	1	C	0310	.62	1.20			T
HALE	17	0308	0320	0308	N18	E56		8207		12	SN	1	C	0308	.10	.20			T
HALE	17	0356E	0418D	0359	N14	E54		8207		22D	SB	2	P	0359	.62	1.10			T
MANI	17	0428	0458	0432	N24	E49		8207		30	1N	2		0432	2.81	4.50			
MANI	17	0517	0530	0520	N17	E51		8207		13	SN	2		0520	1.10	1.76			
MANI	17	0559	0626	0602	N17	E54		8207		27	1B	2		0602	1.24	2.10			
MANI	17	0637	0650	0642	N17	E54		8207		13	SN	2		0642	.74	1.40			
ARCE	17	0815E			N17	E50		8207			SF		P	0815	1.05	1.80			EH
MEUD	17	1213	1244	1220	N18	E50		8207		31	1N		C	1220	2.40	4.60			
MEUD	17	1226	1314	1235	N28	E62		8207		48	1F		C	1235	1.94				
HUAN	17	1227E	1230D		N20	E50		8207		3D	SF	1	P	1227	.67	.89			E
MEUD	17	1359	1429	1410	N19	E48		8207		30	2N		C	1410	3.14	5.40			
MCMA	17	1359	1440	1408	N24	E48		8207		41	1N		C	1408	1.34	2.50			FH
SACP	17	1359	1455	1420	N24	E48		8207		56	1N		C		2.61	3.57			
HUAN	17	1400	1443D	1410	N22	E47		8207		43D	1F	1	P	1410	1.29	1.75			
OTTA	17	1401	1423		N22	E47		8207		22	1N	1	P	1410	2.51	4.24			FI

SOLAR FLARES

MARCH 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1966 MAR									MIN.									
CAPS	17	1408E	1424D		N14	E56		8207		16D	SN	2		1409	1.10	1.70		171	GI
OTTA	17	1433	1438D		N23	E45		8207		5D	SN	2	P	1438	1.02	1.66			E
SACP	17	1441	1456	1448	N37	E34		8207		15	SF		C		.34	.45			
OTTA	17	1450	1501	1454	N21	E46		8207		11	SB	2	C	1454	.28	.47			D
MCMA	17	1641	1740	1653	N16	E49		8207		59	SN		C	1653	.52	.90			E
LOCK	17	1642	1728	1655	N16	E45		8207		46	SN		C	1655	.60	1.00		20	
HALE	17	1645E	1706D	1654	N14	E48		8207		21D	SN	1	P	1654	.46	.70			T
SACP	17	1645	1733	1702	N15	E47		8207		48	SN		C		.76	.97			
HUAN	17	1646	1702D		N16	E48		8207		16D	SN	1	P	1655	.41	.53			
SACP	17	1742	1823	1800	N21	E46		8207		41	1N		C		2.11	2.78			
HALE	17	1746	1828	1806	N09	E50		8207		42	SN	1	P	1806	.46	.70			JT
MCMA	17	1746	1828	1804	N22	E48		8207		42	1B		C	1804	2.32	4.10			FHK
HALE	17	1747	1821	1802	N24	E49		8207		34	1N	1	P	1802	1.24	2.20			FT
LOCK	17	1747	1832	1805	N22	E43		8207		45	1N		C	1805	2.00	3.20		20	JL
HALE	17	1753	1755D	1754	N18	E47		8207		2D	SN	1	P	1754	.10	.20			JT
HALE	17	1813	1833	1814	N18	E47		8207		20	SN	1	P	1814	.15	.30			JT
LOCK	17	1910	1945	1924	N20	E43		8207		35	SN		C	1924	1.00	1.60		20	
SACP	17	1914	2008	1925	N17	E47		8207		54	SN		C		1.20	1.53			
HALE	17	1916	2001	1925	N17	E47		8207		45	SN	1	P	1925	.72	1.20			FT
MCMA	17	1918	1924D	1924	N19	E49		8207		6D	SN		C	1924	.72	1.20			EK
MCMA	17	1951	2010D	1953	N19	E49		8207		19D	SN		C	1924	.72	1.20			EK
HALE	17	2043	2047D	2046	N29	W37		8204		4D	SF	1	P	2046	.21	.30			F
SACP	17	2120	2148	2132	N28	W36		8204		28	SF		C		.68	.84			
LOCK	17	2128	2138	2132	N28	W38		8204		10	SN		C	2132	.30	.50		20	
HALE	17	2129	2140	2132	N29	W37		8204		11	SN	2	C	2132	.62	1.00			
MCMA	17	2130	2136D	2133	N29	W37		8204		6D	SF		C	2133	.26	.40			E
SACP	17	2143	2245	2150	N15	E44		8207		62	1N		C		1.95	2.42			
LOCK	17	2145	2205	2151	N14	E42		8207		20	SN		C	2151	.60	.90		20	
HALE	17	2146	2241D	2150	N17	E45		8207		55D	SB	2	P	2150	1.24	1.90			FT
HALE	17	2231E	2241D	2238	N22	E44		8207		10D	SF	1	P	2238	.21	.30			FT
HALE	18	0205E	0207D		N17	E43		8207		2D	SN	1	P	0205	.72	1.10			FT
HALE	18	0315E	0342D		N23	E42		8207		27D	SB	2	P	0315	1.03	1.60			FI
MANI	18	0420	0512	0424	N17	E41		8207		52	1N	2		0424	2.00	2.80			
MANI	18			0429															
MANI	18	0520	0535	0521	N16	E45		8207		15	SN	2		0521	.50	.73			
MANI	18	0630	0706	0639	N22	E37		8207		36	SN	2		0639	1.20	1.60			
ARCE	18	0855E	0920D		N22	E42		8207		25D	SN		P	0855	1.18	1.80			Z
KANZ	18	1000E	1008D		N16	E33		8207		8D	SN								
OTTA	18	1257	1430	1309	N22	E34		8207		93	1N	2	C	1309	2.18	3.01			FTV
MCMA	18	1300E	1318D		N23	E35		8207		18D	SB		P	1312	.83	1.20			E
MONT	18	1303	1429	1313	N25	E33		8207		86	1N			1316	2.27				
CAPS	18	1310	1341		N12	E47		8207		31	SN	3		1336	1.20	1.70		181	GE
SACP	18	1325E	1436	1326U	N22	E36		8207		71D	1N		P		4.28	5.08			
CAPS	18	1328	1334		N15	E45		8207		6	1F	3		1329	2.30	3.20		149	GE
OTTA	18	1346	1400	1349	N16	E38		8207		14	SF	1	C	1349	.80	1.11			FJ
OTTA	18	1351	1354	1353	N18	E37		8207		3	SB	2	C	1353	.17	.23			D
CAPF	18	1407E	1425D	1407	N22	E36		8207		18D	SN		P	1408	1.18	1.65			
HUAN	18	1412E	1439		N24	E33		8207		27D	SF	1	P	1412	.52	.60			K
OTTA	18	1428	1443		N16	E38		8207		15	SN	2	C	1435	.68	.95			J
OTTA	18	1446	1503D		N13	E34		8207		17D	SF	2	C	1500	.34	.44			
HUAN	18	1450	1505	1452	N17	E38		8207		15	SF	1	C	1452	.21	.24			D
OTTA	18	1451	1508	1453	N16	E38		8207		17	SN	2	C	1453	.23	.32			D
OTTA	18	1541	1602D		N17	E31		8207		21D	SB	2	C	1600	.57	.72			E
SACP	18	1550	1614	1557	N16	E30		8207		24	SN		C		.85	.92			
HUAN	18	1554	1605D	1557	N17	E30		8207		11D	SN	1	C	1557	.26	.28			D
OTTA	18	1605E	1615		N17	E29		8207		10D	SN	2	C	1608	.17	.21			D
OTTA	18	1620E	1628D	1625	N19	E31		8207		8D	SN	2	C	1625	.28	.37			F
HUAN	18	1643	1646D		N20	E32		8207		3D	SF	1	P	1644	.26	.29			D
LOCK	18	1750	1803	1755	N19	E35		8207		13	SN		C	1755	.50	.70		20	
HUAN	18	1752E	1807D	1757	N20	E35		8207		15D	SF	1	C	1757	1.13	1.30			CE
OTTA	18	1753E	1759D		N20	E36		8207		6D	SN	2	C	1755	1.25	1.74			
SACP	18	1856	1922	1911U	N16	E30		8207		26	SN		C		.42	.46			
OTTA	18	1856	1923	1857	N16	E30		8207		27	SB	2	C	1857	.57	.70			F
HALE	18	1859E	1923D	1902	N16	E29		8207		24D	SN	2	P	1902	.52	.60			KT
HALE	18			1907										1907	.41	.50			
OTTA	18	1929	1939	1932	N32	W05		8206		10	SN	2	C	1932	.68	.90			F
SACP	18	1929	1940	1933	N16	E28		8207		11	SN		C		.76	.82			
LOCK	18	2040	2104	2053	N14	E40		8207		24	SN		C	2053	.40	.60		20	IJ
OTTA	18	2052	2102D	2058	N12	E41		8207		10D	SN	2	C	2058	.40	.57			FIT
SACP	18	2121	2200	2140	N22	E29		8207		39	1N		C		3.78	4.27			
LOCK	18	2125	2159	2139	N20	E26		8207		34	SN		C	2139	1.20	1.60		10	
HALE	18	2317	2339	2318	N30	W51		8204		22	SF	2	C	2318	.41	.90			J
HALE	18	2337	2358	2348	N23	E30		8207		21	SF	2	C	2348	.46	.60			FT
SACP	18	2345	0010	2355	N15	E28		8207		25	1N		C		3.49	3.74			
HALE	18	2346	0011	2349	N15	E28		8207		25	1B	2	C	2349	2.06	2.50			FKT
HALE	18			2353										2353	2.58	3.10			
MANI	18	2346E	0010	2356	N18	E27		8207		24D	1N	2		2356	2.06	2.43			
LOCK	18	2348	0014	2355	N14	E25		8207		26	SN		C	2355	1.20	1.40		20	
MANI	19	0337	0527	0348	N20	E33		8207		110	3N	2		0348	16.01	20.40			

SOLAR FLARES

MARCH 1966

OBSERVATORY	DATE 1966 MAR	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	LOCATION CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT.	REMARKS
MANI	19	0903	0912	0906	N10	E14		8207		9	SF	2		0906	.40	.40			
MANI	19	0903	0914D	0907	N17	E23		8207		11D	SN	2		0907	.61	.70			
MCMA	19	1317	1326	1321	N27	W58		8204		9	SF		C	1321	.31	.80			E
OTTA	19	1357	1418	1402	N21	E27		8207		21	SB	2	C	1402	1.37	1.73			FIJT
MCMA	19	1357	1418	1402	N21	E27		8207		21	SB		C	1402	.77	.80			EH
SACP	19	1358	1420	1405	N20	E27		8207		22	SN		C		.93	1.01			
KANZ	19	1412E	1418		N19	E27		8207		6D	SB								D
SACP	19	1422	1442	1431	N14	E21		8207		20	1N		C		2.77	2.86			
OTTA	19	1423	1441	1431	N13	E21		8207		18	1B	2	C	1431	2.08	2.37			FIJT
KANZ	19	1425	1440D		N13	E19		8207		15D	1N								FH
OTTA	19	1448	1458D		N17	E17		8207		10D	SN	2	C	1455	.40	.45			T
HUAN	19	1510	1517	1512	N20	E18		8207		7	SF	1	C	1512	.52	.54			E
SACP	19	1510	1530	1511	N20	E19		8207		20	SN		C		.59	.61			
KANZ	19	1539	1606D		N27	W57		8204		27D	SN								
KANZ	19	1610E	1625D		N14	E16		8207		15D	SN								H
HALE	19	1917	1938	1920	N26	W53		8208		21	SF	2	C	1920	.46	1.00			
SACP	19	1917	1938	1924	N24	W54		8208		21	SF		C		.51	.77			
SACP	19	2045	2059D	2047	N20	E30		8207		14D	SN		P		.42	.47			
HALE	19	2045	2107	2046	N20	E30		8207		22	SN	1	C	2046	.52	.70			T
LOCK	19	2130	2240	2210	N15	E12		8207		70			C	2210	1.10	1.20		20	
LOCK	19			2147				8207			SN								
SACP	19	2132	2215	2157	N15	E14		8207		43	2B		C		5.48	5.56			
HALE	19	2132	2217D	2158	N15	E15		8207		45D	1B	2	P	2158	4.33	4.80			FT
HALE	19			2209										2209	2.17	2.40			
SACP	19	2205	2225	2209	N13	E16		8207		20	SN		C		1.10	1.11			
MANI	19	2213E	2248		N16	E16		8207		35D	1N	2		2214	4.39	5.00			
MANI	20	0133	0146	0136	N13	E15		8207		13	SF	2		0136	1.20	1.30			
MANI	20	0226E	0312	0234	N20	E20		8207		46D	1N	2		0234	3.90	4.45			
HALE	20	0256	0320D	0300	N22	E20		8207		24D	SN	1	P	0300	1.03	1.30			F
MANI	20	0352	0405	0355	N21	E33		8207		13	SN	2		0355	.90	1.15			
MANI	20	0615	0645	0622	N15	E14		8207		30	1N	2		0622	2.58	2.50			
WEND	20	0723E	0748		N18	E21		8207		25D	1N		P			3.00			
WEND	20	0806	0821		N16	E28		8207		15	1N		V			3.00			
KANZ	20	1008	1114		N25	W80		8204		66	SN								
ARCE	20	0928	1017D	0957	N22	E16		8207		49D	3B		C	0957	19.32	22.80			H
KANZ	20	0929	1023D		N19	E17		8207		54D	2B			0959			9.50		H
CATA	20	0930	1100	0957	N20	E20		8207		90	2B		C	0957	8.85	10.00		264	
MANI	20	0932E	0952D	0938	N15	E15		8207		20D	SN	2		0938	1.65	1.60			
WEND	20	0947	1202	1011	N20	E15		8207		135	3B		C			31.00			
ONDR	20	0950E	1104	0958	N19	E11		8207		74D	2N		V	0958			8.05		CFHJ
ARCE	20	0954	1017D	0958	N18	E28		8207		23D	1B		C	0958	4.30	5.10			H
ARCE	20	1013	1104D	1029	N16	E08		8207		51D	2B		C	1029	5.58	6.10			FH
ARCE	20			1036										1036	7.78	8.50			
KANZ	20	1017	1032D		N16	E08		8207		15D	1N			1019			3.00		H
KANZ	20	1030E	1057D		N15	E10		8207		27D	2N			1038			3.20		HIF
MEUD	20	1032E	1130		N15	E09		8207		58D	2B		C	1035	5.10	5.60			
MEUD	20	1032E	1255D		N22	E34		8207		143D	2N		C	1158	7.51	9.30			
MEUD	20	1221	1230	1224	N24	E19		8207		9	SN		C	1224	1.64	2.00			
WEND	20	1206	1221		N22	W77		8193		15	1N		V			4.00			
WEND	20	1235E	1249D		N22	W79		8193		14D	1N		P			4.00			
SACP	20	1431	1448	1439	N19	E10		8207		17	SF		C		.60	.60			
KANZ	20	1505E	1510D		N25	W82		8204		5D	SN								
SACP	20	1534	1550	1540	N17	E10		8207		16	SN		C		.68	.68			
SACP	20	1551	1617	1604	N16	E03		8207		26	SF		C		1.60	1.60			
SACP	20	1659	1718	1706	N20	E07		8207		19	SF		C		.93	.95			
SACP	20	1728	1739	1732	N17	E09		8207		11	SF		C		.85	.85			
SACP	20	1756	1818	1805	N21	E12		8207		22	1N		C		3.89	4.02			
LOCK	20	1759	1814	1805	N17	E12		8207		15	SN		C	1805	1.00	1.10		20	H
SACP	20	1847	2026	1859	N20	E09		8207		99	1B		C		4.63	4.75			
LOCK	20	1849	1919	1855	N19	E07		8207		30	1N		C	1855	2.50	2.80		20	
SACP	20	1959	2028	2008	N19	E05		8207		29	1B		C		4.56	4.63			
LOCK	20	2001	2020	2008	N18	E04		8207		19	SN		C	2008	1.10	1.20		20	
SACP	20	2305	2329	2314	N21	E04		8207		24	SF		C		.51	.51			
LOCK	20	2307	2321	2312	N21	E03		8207		14	SN		C	2312	.50	.60		20	H
MANI	20	2318E	2332	2320	N20	E03		8207		14D	SF	2		2319	.50	.50			
MANI	21	0110	0144	0119	N22	E03		8207		34	SN	2		0119	1.80	1.90			
HALE	21	0324	0340		N19	E03		8207		16	SN	1	P	0329	1.03	1.10			F
MANI	21	0351	0403D	0355	N13	E01		8207		12D	SF	2		0355	1.10	1.10			
MANI	21	0613	0633	0619	N21	W01		8207		20	SN	2		0619	.60	.61			
KANZ	21	0704E	0710		N13	W06		8207		6D	SN								
WEND	21	0705	0712		N13	W03		8207		7	S								
IKOM	21	0721	0746		N22	E15		8207		25	SN		P	0721	.62	.70			O
WEND	21	0842	0856		N19	E05		8207		14	S								
ONDR	21	0842	0904	0847	N20	E02		8207		22	1F		V	0847			2.26		CDHJ
ARCE	21	0845E	0905D	0845	N22	E05		8207		20D	SN		C	0845	.64	.70			D
KAND	21	0848	0856D		N18	E02		8207		8D	SN		C	0855		.54			
KANZ	21	0848	0905		N21	E06		8207		17	SF								
WEND	21	0924	1130	0946	N22	W02		8207		126	2B		C			10.00			

SOLAR FLARES

MARCH 1966

OBSERVATORY	DATE 1966 MAR	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	LOCATION 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
ARCE	21	0925	0958	0944	N22	W02		8207		33	2B		C	0944	7.11	8.10			FH
KANZ	21	0927	1040		N21	W02		8207		73	2B			0937			4.00		FJH
CATA	21	0930	1036	0935	N20	W03		8207		66	1B			0935	3.22	3.30		234	
MANI	21	0932	0955D	0940	N18	W01		8207		23D	1N	2		0940	2.68	2.70			
ONDR	21	0933E	0953		N21	W03		8207		20D	1B		V	0938			3.01		CJL
CAPF	21	0942E	1039	0942	N21	W04		8207		57D	1F		C	0947	3.53	3.60			H
KAND	21	0945E	1000		N15	W02		8207		15D	1N		C	0954		3.53			
KAND	21	0945E	1025D		N13	E01		8207		40D	2N		C	1004		5.42			
ARCE	21	0945	1030D	1002	N24	W02		8207		45D	1N		C	1002	4.21	4.90			FH
ONDR	21	0957	1035	0959	N25	W03		8207		38	1N		V	0959	2.22				CEHJK
MEUD	21	1012E	1125		N24	W05		8207		73D	2N		C	1024	9.70	11.40			
KANZ	21	1055	1107		N22	W02		8207		12	SN								
MEUD	21	1058	1105	1059	N18	W03		8207		7	SN		C	1059	.60	.70			E
KANZ	21	1128	1142D		N31	E71		8217		14D	SN								
KANZ	21	1243	1255		N31	E70		8217		12	SN								
KANZ	21	1327	1348		N24	E05		8207		21	1F			1431			2.00		
SACP	21	1416U	1452	1425	N19	E06		8207		36U	SN		C		1.70	1.72			
MONT	21	1420	1426D	1426	N20	E10		8207		6D	S			1429	2.06				
WEND	21	1420E	1454D		N19	E08		8207		34D	1N		V			5.00			
CAPF	21	1422E	1448	1422	N18	E01		8207		26D	1F		C	1425	1.76	2.06			
SACP	21	1424	1440	1432	N13	W06		8207		16	SF		C		.42	.42			
MCMA	21	1427E	1428D		N20	E05		8207		1D	SN		P	1427	.88	1.00			E
ONDR	21	1428E	1445		N20	W03		8207		17D	1N		V	1428			2.20		CDHJR
HUAN	21	1429E	1453		N20	E07		8207		24D	SF	1	P	1431	1.24	1.25			E
MONT	21	1453	1500		N21	W01		8207		7	S								
KANZ	21	1454	1458		N20	E00		8207		4	SN								D
SACP	21	1454	1500	1456	N20	W03		8207		6	SF		C		.60	.60			
KANZ	21	1503	1539		N23	E02		8207		36	1N			1409			3.30		E
SACP	21	1504	1542	1510	N20	E01		8207		38	1N		C		2.54	2.59			
HUAN	21	1505	1526D	1509	N20	E01		8207		21D	SB	1	P	1509	1.75	1.80			
CAPS	21	1507E	1529		N18	E01		8207		22D	1B	2		1510	2.30	2.50		243	GFIL
WEND	21	1507E	1541		N20	W00		8207		34D	1N		P			5.00			
WEND	21	1509	1535		N16	E08		8207		26	1N		P			3.00			
ONDR	21	1510E	1521D		N22	W01		8207		11D	1N		V	1511			2.67		CEJ
CAPF	21	1516E	1539	1516	N16	W02		8207		23D	SF		P	1518	1.18	1.31			
MCMA	21	1520E	1540		N22	E00		8207		20D	SB		P	1522	.31	.40			D
SACP	21	1541	1601D	1550	N21	W05		8207		20D	1N		C		2.79	2.86			
WEND	21	1544	1629		N22	W04		8207		45	2B		P			6.00			
MCMA	21	1546	1557D	1551	N22	W06		8207		11D	SB		C	1551	1.55	1.60			E
KANZ	21	1546	1610D		N20	W04		8207		24D	1N			1550			2.70		FH
CAPS	21	1547	1600		N17	W04		8207		13	SB	2		1549	1.70	1.90		191	GFI
ONDR	21	1555E	1603D		N20	W03		8207		8D	1N		V	1557			2.83		CEJ
CAPF	21	1614E	1629D	1614	N18	W02		8207		15D	SF		S	1622	1.18	1.31			H
KANZ	21	1617	1624		N21	W03		8207		7	1N			1619			3.40		H
MCMA	21	1617	1625	1618	N22	W05		8207		8	SN		C	1618	.41	.50			EHL
MCMA	21	1743	1804	1746	N17	W04		8207		21	SN		C	1746	.62	.70			E
HALE	21	1743	1810	1747	N16	W05		8207		27	SN	2	C	1747	1.03	1.10			F
HUAN	21	1755E	1803D		N16	E04		8207		8D	SF	1	P	1757	.26	.26			D
HUAN	21	1819	1835D		N20	W08		8207		16D	1N	1	P	1825	1.80	1.85			
SACP	21	1820	1850	1831	N21	W08		8207		30	1N		C		2.39	2.46			
HALE	21	1820	1851	1825	N21	W09		8207		31	1B	2	C	1825	1.96	2.20			F
MCMA	21	1820	1930	1826	N21	W08		8207		70	SB		C	1826	1.55	1.70			EK
MCMA	21			1856															
MCMA	21			1913															
HALE	21	1852	1917	1854	N23	W08		8207		25	SB	2	C	1854	.83	1.00			
HALE	21	1910	1926	1913	N21	W05		8207		16	SB	2	C	1913	.52	.60			H
LOCK	21	2022	2044	2025	N21	W08		8207		22	SN		C	2025	1.20	1.30		20	HJ
SACP	21	2036E	2044	2036	N19	W06		8207		8D	SN		C		2.02	2.05			
LOCK	21	2138	2238	2205	N14	W11		8207		60	1N		C	2205	2.10	2.30		20	JL
SACP	21	2140	2240U	2200	N14	W10		8207		60U	1N		C		3.41	3.42			
SACP	21	2219	2345U	2230	N22	W10		8207		86U	2B		C		9.25	9.58			
MANI	21	2222	0013	2300	N19	W08		8207		111	2B	2		2321	5.53	5.50			
LOCK	21	2223	2243	2230	N18	W11		8207		20	1N		C	2230	2.40	2.60		20	HIL
LOCK	21	2306	2358	2325	N21	W11		8207		52	1N		C	2325	2.10	2.50		20	
MANI	22	0211	0219	0215	N20	W13		8207		8	SF	2		0215	.50	.55			
MANI	22	0425	0437	0426	N11	W15		8207		12	SF	2		0426	.40	.42			
MANI	22	0504E	0515	0509	N18	W16		8207		11D	SF	2		0509	.90	.90			
WEND	22	0701	0711		N18	W12		8207		10	SN								
WEND	22	0743	0828		N13	W16		8207		45	1B		V			5.00			
MANI	22	0744E	0818	0747	N15	W14		8207		34D	SN	2		0747	.50	.52			
MANI	22			0755										0755	1.10	1.14			
KAND	22	0744	0831		N19	W16		8207		47	SN		C	0749		1.96			
ONDR	22	0746E	0823		N15	W15		8207		37D	1N		V	0756	1.77				CDEHJ
CAPS	22	0749	0808		N11	W17		8207		19	SN	3		0756	.60	.60		166	GFI
CAPF	22	0750E	0800D	0750	N13	W15		8207		10D	1N		P	0752	1.76	2.06			
KANZ	22	0756E	0812D		N12	W17		8207		16D	1N								
WEND	22	0817	0837		N20	W11		8207		20	SN								
WEND	22	0946	1000		N20	W11		8207		14	1N		V			3.00			
MANI	22	0950E	0955D		N18	W12		8207		5D	SN	1		0955	1.10	1.10			

SOLAR FLARES

MARCH 1966

OBSERVATORY	OBSERVED UT DATE 1966 MAR	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
KANZ	22	0950E	1000		N18	W11		8207		10D	SN								E
CAPS	22	0952	1000		N16	W10		8207		8	SN	3		0955	.80	.80		161	GI
KAND	22	0956	1002		N17	W11		8207		6	SN		V						
KAND	22	1026	1036		N17	W12		8207		10	SN		C	1029		.54			
KAND	22	1028	1038		N17	W11		8207		10	SN		C	1029		.54			
WEND	22	1028	1050D		N20	W12		8207		22D	1N		V			3.00			
WEND	22	1110	1210D		N23	W19		8207		60D	2N		P			8.00			
KAND	22	1112	1225		N13	W14		8207		73	2N		C	1122		5.61			
CAPF	22	1115E	1151	1115	N17	W20		8207		36D	1F		C	1120	2.94	3.42			H
ONDR	22	1116	1155		N23	W19		8207		39	1N		V	1134	2.03				CJ
CAPS	22	1119	1143		N18	W18		8207		24	1N	3		1125	2.50	2.80		178	GI
HUAN	22	1151E	1201D		N22	W19		8207		10D	SF	1	P	1200	.77	.83			E
WEND	22	1407E	1425		N20	W11		8207		18D	2N		V			6.00			
SACP	22	1407	1436	1410	N21	W11		8207		29	2N		C		6.04	6.25			
CAPS	22	1408	1418		N10	W09		8207		10	SN	3			1.00	1.20			GI
CAPS	22	1408	1419		N04	W03		8207		11	1N	3			1.80	2.10			GI
CAPS	22	1408	1421		N09	W13		8207		13	1N	3		1411	2.70	3.20		196	GI
CAPF	22	1411E	1424	1411	N20	W11		8207		13D	1N		P	1413	2.94	3.42			H
KANZ	22	1416E	1437		N20	W13		8207		21D	1F			1428			1.80		H
HUAN	22	1809	1845D		N13	W22		8207		36D	SN	1	C	1826	1.13	1.16			E
LOCK	22	1813	1842	1822	N10	W22		8207		29	SN		C	1822	.90	1.00		20	IJ
SACP	22	1813	1847U	1820	N13	W21		8207		34U	1N		C		3.55	3.65			
SACP	22	2143	2234	2201	N25	W20		8207		51	SF		C		.85	.92			
SACP	22	2320	2352	2327	N20	W17		8207		32	SF		C		.59	.61			
LOCK	23	0110	0125D	0121	N12	W26		8207		15D	SN		C	0121	.50	.60		20	
MANI	23	0114	0159	0120	N17	W26		8207		45	1N	2		0120	2.37	2.70			
KANZ	23	0715E	0724D		N14	W24		8207		9D	SN								
KANZ	23	0758E	0813		N22	W28		8207		15D	SN								
KANZ	23	0814E	0840D		N12	W28		8207		26D	1N			0818			1.80		E
KAND	23	0816	0834		N15	W31		8207		18	□		V						
KAND	23	0912	0930D		N15	W27		8207		18D	□		V						
KANZ	23	0919E	0926		N14	W25		8207		7D	SN								D
HUAN	23	1151E	1201D		N12	W33		8207		10D	SN	1	P	1200	.62	.68			E
CAPS	23	1154	1212D		N12	W24		8207		18D	SN	3		1201	1.40	1.50		162	G
KAND	23	1155	1237		N15	W27		8207		42	□		V						
KAND	23	1155	1245		N15	W31		8207		50	□		V						
CAPF	23	1205E	1218	1206	N13	W30		8207		13D	SN		P	1206	1.18	1.48			H
WEND	23	1213E	1236		N12	W30		8207		23D	1N		V			5.00			
KANZ	23	1220E	1245D		N12	W32		8207		25D	SN								
KAND	23	1241	1254		N14	W26		8207		13	□		V						
KANZ	23	1258E	1319		N16	W39		8207		21D	SN								
KAND	23	1301	1319		N20	W31		8207		18	□		V						
SACP	23	1334	1404	1341	N15	W29		8207		30	SF		C		.61	.65			
KANZ	23	1335E	1405		N16	W27		8207		30D	SN								
WEND	23	1338	1356		N16	W30		8207		18	SN								
SACP	23	1409	1440	1416	N23	W24		8207		31	SF		C		.42	.46			
SACP	23	1440	1515	1450	N20	W27		8207		35	SF		C		1.10	1.20			
HUAN	23	1441	1509	1444	N24	W18		8207		28	SN	2	C	1444	.88	.93			E
KANZ	23	1446E	1457		N19	W21		8207		11D	SN								E
KANZ	23	1453E	1500		N20	W33		8207		7D	SN								E
KANZ	23	1520	1531		N20	W33		8207		11	SF								
SACP	23	1633	1708	1651	N14	W32		8207		35	SF		C		.42	.46			
SACP	23	1846	1918	1901	N11	W37		8207		32	SF		C		.68	.76			
HUAN	23	1856E	1912		N12	W38		8207		16D	SF	1	P	1905	.52	.58			C
SACP	23	1907	1940	1927	N19	W45		8207		33	1F		C		2.38	3.05			
HUAN	23	1914	1936D	1917	N20	W46		8207		22D	SF	1	C	1917	.62	.78			E
SACP	23	2001	2039	2017	N13	W30		8207		38	SF		C		.68	.73			
HUAN	23	2011	2022D	2015	N15	W31		8207		11D	SF	2	C	2015	.21	.24			D
SACP	23	2040	2146	2119	N12	W37		8207		66	1N		C		4.01	4.52			
SACP	23	2246	2330	2258	N15	W32		8207		44	1N		C		3.83	4.23			
MANI	23	2250	2348	2300	N17	W33		8207		58	2N	2		2300	5.60	6.90			
MANI	23			2325										2327	3.87	4.80			
LOCK	23	2251E	2303D	2259	N14	W29		8207		12D	SN		C	2259	1.50	1.80		20	
SACP	23	2316	2335	2321	N19	W37		8207		19	SN		C		1.54	1.80			
MANI	24	0225	0414	0242	N18	W37		8207		109	3B	2		0242	10.60	13.80			
KANZ	24	0719	0725		N16	W45		8207		6	SF								D
KANZ	24	0805E	0820		N16	W45		8207		15D	SF								D
ARCE	24	0840	0850		N22	W42		8207		10	SN		C	0845	.48	.80			H
KANZ	24	0843E	0853D		N20	W44		8207		10D	SN								E
KANZ	24	0848E	0853D		N16	W45		8207		5D	SN								
ARCE	24	0910	1005	0955	N16	W44		8207		55	1N		C	0955	2.09	3.10			H
MANI	24	0911	0927	0916	N17	W42		8207		16	SN	2		0916	1.09	1.72			
MEUD	24	0915E	0919		N17	W43		8207		4D	SB		C	0916	.90	1.40			D
CATA	24	0954	1003	0957	N16	W44		8207		9	1B			0957	1.99	3.00		229	
MEUD	24	0955E	1000D		N17	W43		8207		5D	1B		C	0956	1.64	2.50			CD
ARCE	24	1001E			N16	W44		8207			1N		P	1001	2.04	3.00			O
HUAN	24	1236	1259		N17	W48		8207		23	SN	1	P	1236	.36	.46			EK
HUAN	24	1320	1341	1322	N16	W46		8207		21	SF	2	C	1321	.31	.39			D

SOLAR FLARES

MARCH 1966

OBSERVATORY	OBSERVED UT DATE 1966 MAR	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
KANZ	24	1332E	1334D		N14	W45		8207		2D	SF								D
HUAN	24	1347	1352		N18	W49		8207		5	SF	1	P	1349	.21	.27			D
HUAN	24	1418	1429		N18	W49		8207		11	SN	1	P	1420	.62	.81			
KANZ	24	1450E	1458		N14	W46		8207		8D	SN								E
SACP	24	1518	1530	1524	N15	W48		8207		12	SF		C		.68	.87			
HUAN	24	1534	1540	1535	N17	W48		8207		6	SF	2	C	1535	.21	.26			D
HUAN	24	1621	1626	1623	N17	W50		8207		5	SF	2	C	1623	.26	.34			D
HUAN	24	1636	1655	1641	N17	W50		8207		19	SF	2	C	1641	.41	.54			E
HUAN	24	1733	1807		N14	W48		8207		34	1N	2	P	1753	2.37	3.20			E
MCMA	24	1840E	1857D		N18	W52		8207		17D	1F		P	1842	1.29	2.30			FHK
HUAN	24	1843	1857	1849	N17	W47		8207		14	SF	1	C	1849	.26	.34			E
HUAN	24	1858	1930	1915	N17	W51		8207		32	SB	2	C	1915	.93	1.22			E
LOCK	24	1955E	2018U	1958U	N15	W45		8207		23U	SN		C	1958	.70	1.10		20	
LOCK	24	2032	2051	2041	N14	W56		8207		19	1B		C	2041	1.60	3.00		20	
MANI	24	2233	2256	2240	N17	W49		8207		23	1N	2		2240	2.24	3.21			
MANI	25	0034E	0051D	0038	N17	W50		8207		17D	1N	2		0038	1.80	2.63			
MANI	25	0117	0133	0122	N24	W48		8207		16	SF	2		0122	.51	.86			
MANI	25	0143	0340	0201	N17	W52		8207		117	3N	2		0201	8.51	13.60			
MANI	25	0513	0549	0523	N14	W52		8207		36	2N	2		0523	7.01	11.00			
MANI	25	0750	0809	0756	N17	W53		8207		19	SN	2		0756	.80	1.84			
CAPS	25	0800E	0802D		N16	W53		8207		2D	1N	1			1.80	2.40			G
CATA	25	0802	0810	0803	N18	W53		8207		8	1N			0803	1.46	2.00		151	
CATA	25	0815	0830	0817	N14	W57		8207		15	SN			0817	.84	1.00		162	
ARCE	25	0825E	0853		N18	W58		8207		28D	SN		C	0825	.87	1.60			H
ARCE	25	0935	1000D	0935	N16	W58		8207		25D	SN		C	0935	.68	1.20			HE
MANI	25	0936	0949	0939	N15	W55		8207		13	SF	2		0939	.40	.68			
CATA	25	1000	1024	1012	N15	W57		8207		24	2B			1012	4.19	9.00		217	
OTTA	25	1230	1235	1232	N16	W61		8207		5	SN		C	1232	.57	1.30			T
OTTA	25	1311	1313	1312	N19	W57		8207		2	SF		C	1312	.57	1.23			
OTTA	25	1312	1320	1316	N17	W61		8207		8	1N		C	1316	1.36	3.14			LT
OTTA	25	1325	1348D	1332	N14	W62		8207		23D	1N								
OTTA	25			1346	N14	W62								1346	1.13	2.61			
HUAN	25	1343	1349	1346	N17	W61		8207		6	SN	1	P	1346	.41	.65			CEH
HUAN	25	1401	1416		N25	W60		8207		15	SF	1	C	1412	.36	.60			D
HUAN	25	1514	1558	1538	N16	W62		8207		44	1B	2	C	1538	1.50	2.50			EHK
HUAN	25			1542	N16	W62								1542	1.65	2.70			
OTTA	25	1525	1555	1541	N13	W64		8207		30	3F		C	1541	9.11				ITZ
CAPS	25	1530	1548		N17	W57		8207		18	1B	2		1541	1.90	3.80		216	G
HUAN	25	1616	1706	1635	N13	W58		8207		50	1B	2	C	1635	1.60	2.45			K
HUAN	25			1654										1654	1.86	2.85			
OTTA	25	1654E	1700		N13	W57		8207		6D	1B	2	C	1655	1.61	3.28			ET
OTTA	25	1720	1725	1722	N19	W61		8207		5	SN	2	C	1722	.34				
OTTA	25	1739	1742	1740	N15	W58		8207		3	SN	2	C	1740	.11	.24			
OTTA	25	1756	1802	1758	N14	W62		8207		6	SN	1	C	1758	.34				
HUAN	25	1901	1905	1903	N15	W62		8207		4	SF	2	C	1903	.26	.42			D
SACP	25	1931E	1936D	1932U	N16	W60		8207		5D	1N		P		1.69	2.69			
MCMA	25	1932E	1933D		N17	W62		8207		1D	SB		P	1932	.62	1.50			E
HUAN	25	1952	2002		N17	W66		8207		10	SF	1	P	1953	.46				E
LOCK	25	2225	2247	2236	N16	W59		8207		22	SN		C	2236	.80	1.60		20	
MANI	25	2228	2249	2233	N16	W63		8207		21	1N	1		2233	3.30	6.60			
LOCK	25	2332	2344	2337	N15	W59		8207		12	SN		C	2337	.50	1.00		20	
IKOM	25	2337	2355D	2337	N18	W64		8207		18D	1N		V	23 7	.77	2.00		95	D
IKOM	25			2347										2347	.72	1.90		110	D
IKOM	26	0021E	0028D	0023	N18	W60		8207		7D	2N		V	0025	2.17	4.80		120	E
SACP	26	0021	0037	0027	N15	W62		8207		16	2N		C		3.39	5.66			
LOCK	26	0026	0035D	0032U	N15	W59		8207		9D	SN		C	0032	.50	1.00		20	
IKOM	26	0030E	0036D		N18	W64		8207		6D	1F		V	0031	.72	1.90			D
MANI	26	0030	0040	0033	N16	W61		8207		10	1N	2		0033	1.30	2.34			
SACP	26	0038	0056D	0043U	N16	W69		8207		18D	2N		P		3.49	6.91			
MANI	26	0042	0120	0055	N17	W68		8207		38	2N	2		0055	4.23	9.00			
IKOM	26	0043E	0108D	0100	N18	W65		8207		25D	2B		V	0100	2.27	6.40		120	E
MANI	26	0306	0320	0309	N15	W62		8207		14	SN	2		0309	.60	1.20			
MANI	26	0433	0445	0435	N18	W59		8207		12	SN	2		0435	.41	.75			
MANI	26	0821	0831	0823	N18	W68		8207		10	SN	2		0823	.26	.55			
CAPS	26	0910E	0922		N17	W66				12D	SN	3		0913	.70	1.60		162	GDI
KANZ	26	0916E	0928D		N18	W64		8207		12D	SN								
KANZ	26	0935E	0950D		N14	W70		8207		15D	1F								
HUAN	26	1221	1320	1229	N18	W70		8207		59	1N	2	C	1229	1.86				CEH
HUAN	26			1239										1239	1.50				
CAPS	26	1237E	1252		N24	W65		8207		15D	1N	3		1242	2.00	5.00		169	G
KANZ	26	1242E	1255		N13	W70		8207		13D	SN								
KANZ	26	1252	1303		N19	W69		8207		11	SN								
KANZ	26	1258	1320		N15	W71		8207		22	SN								H
MCMA	26	1709E	1736	1719	N17	W71		8207		27D	1N		P	1719	1.24	2.20			E
SACP	26	1711E	1730	1718U	N16	W69		8207		19D	1N		P		1.87	3.78			
HUAN	26	1721	1723		N16	W72		8207		2	SN	1	P	1722	.88				E
SACP	26	1843E	1916	1852	N16	W69		8207		33D	2N		C		5.09	10.29			
LOCK	26	1848	1908	1853	N15	W68		8207		20	1B		C	1853	1.00	2.70		20	

SOLAR FLARES

MARCH 1966

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1966 MAR	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
MCMA	26	1849E	1916	1852	N16	W71		8207		27D	2B		P	1852	2.58	5.20			E
OTTA	26	1901E	1913D		N13	W70		8207		12D	SB	1	C	1902	.45				E
HUAN	26	1905	1919		N13	W72		8207		14	1F	1	P	1905	.98				E
OTTA	26	1944	1954		N18	W69		8207		10	SF	1	C	1949	.34				
LOCK	26	2015	2056	2023	N15	W80		8207		41	1B		C	2023	.70	2.40		20	H
SACP	26	2020	2030	2026	N16	W79		8207		10	SF		C		1.10				
MCMA	26	2028E	2032D		N18	W85		8207		4D	SF		P	2030	.21				D
MANI	26	2246	2313	2250	N17	W77		8207		27	1B	2		2250	1.40	3.48			
MANI	27	0011	0022	0013	N17	W78		8207		11	SN	2		0013	.41	1.06			
KANZ	27	0750E	1015		N20	W79		8207		145D	SN								K
KANZ	27	0801	0823D		N13	W80		8207		22D	1N								
MANI	27	0805	0836	0810	N18	W80		8207		31	2N	2		0810	2.00	5.20			
MANI	27	0854	0903D	0857	N20	W80		8207		9D	SN	2		0857	.38	1.00			
KANZ	27	1040E	1053		N20	W80		8207		13D	SN								
KANZ	27	1120E	1132		N15	W80		8207		12D	1N								
OTTA	27	1319	1346		N29	E90		8223		27	SN	1	C	1328	.17				
OTTA	27	1312	1335	1318	N13	W90		8207		23	SN	1	C	1318	.34				
MCMA	27	1314	1332	1318	N14	W88		8207		18	SN		C	1318	.26				D
KAND	27	1323	1400D		N17	W85		8207		37D	1N		C						
KANZ	27	1327E	1345		N15	W85		8207		18D	SN								
OTTA	27	1340	1412D		N17	W90		8207		32D	SN	1	C	1352	.28				
KANZ	27	1342	1420		N20	W85		8207		38	SN								
SACP	27	1437	1442D	1440	N28	E86		8223		5D	SF		P		.34				
OTTA	27	1437	1443D		N28	E90		8223		6D	SN	1	C	1438	.28				JT
MCMA	27	1437	1450D	1438	N29	E90		8223		13D	SF		C	1438					D
OTTA	27	1500	1506D		N18	W90		8207		6D	SN	1	C	1503	.11				J
MCMA	27	1729E	1737		N29	E90		8223		8D	SF		P	1729					E
OTTA	27	1851	1854		N29	E90		8223		3	SB	1	C	1852	.29				E
LOCK	27	2002	2028	2013	N30	E90		8223		26	SN		C	2013	.40	1.60		20	
SACP	27	2331U	2336D	2335	N28	E81		8223		5U	SN		P		.68				
MANI	28	0419E	0428D		N28	E75		8223		9D	SB	2		0420	.46	.46			
MANI	28	0442	0509D	0445	N28	E75		8223		27D	1B	2		0445	.95	2.10			
CAPS	28	1108	1125		N25	E72		8223		17	SN	2		1117	.40	1.40		182	D
HERS	28	1113E	1124	1115	N27	E74		8223		11D	SN		P	1115	.15	.80			D
MEUD	28	1150	1200D		N26	E88		8223		10D	1B		C	1156	1.80				
CAPS	28	1151E	1201		N27	E74		8223		10D	1N	1		1153	1.80	5.00		182	G
CAPF	28	1152E	1230	1153	N26	E72		8223		38D	1N		C	1204	1.46	2.00			H
HUAN	28	1215	1238		N29	E81		8223		23	SF	1	P	1225	.57				D
MCMA	28	1222E	1250		N30	E85		8223		28D	1B		P	1225	1.03				E
KAND	28	1234	1241		N28	W80		8207		7	SN		C						
HUAN	28	1255	1354	1308	N29	E80		8223		59	SF	1	C	1308	.36				EK
HUAN	28			1340										1340	.41				
MCMA	28	1300E	1406D	1311	N29	E85		8223		66D	1B		C	1311	.83				K
MCMA	28			1340									C	1311	.83				
SACP	28	1408	1416	1412	N28	E77		8223		8	SF		C		.42				
MCMA	28	1409	1415	1411	N28	E85		8223		6	SB		C	1411	.21				D
SACP	28	1441	1521	1508	N15	W88		8207		40	1B		C		2.56				
CAPS	28	1500	1521		N17	W90		8207		21	2F	2			5.50				
MCMA	28	1502	1518	1505	N14	W90		8207		16	1B		C	1505					A
MCMA	28	1806	1814	1807	N29	E76		8223		8	SF		C	1807	.26				D
HUAN	28	1837	1843		N29	E80		8223		6	SF	1	P	1837	.31				E
MCMA	28	1910	1936	1916	N30	E78		8223		26	1B		C	1916	.93				EH
LOCK	28	1910	1940	1922	N27	E66		8223		30	1B		C	1922	1.10	3.00		20	
MCMA	28	2104	2109	2106	N30	E77		8223		5	SN		C	2106	.31				D
MCMA	28	2122	2128	2123	N30	E78		8223		6	SF		C	2123	.21				DH
LOCK	28	2355	0053	2413	N27	E66		8223		58	1B		C	0013	.90	2.70		20	
MANI	29	0101E	0200		N29	E69		8223		59D	2B	1		0136	3.00	6.82			
MANI	29	0258	0322D	0305	N29	E66		8223		24D	SN	2		0305	.62	1.33			
MANI	29	0324	0418	0335	N31	E70		8223		54	2B	2		0335	2.30	5.16			
MANI	29	0700E	0715D		N27	E64		8223		15D	SN	2		0705	.52	1.00			
MONT	29	0725E	0830		N31	E65		8223		65D	1N			0746	2.17				
CATA	29	0745	0817	0804	N27	E65		8223		32	1N			0804	.95			172	
ARCE	29	0800E	0820D		N23	W22		8227		20D	SN		C	0800	.38	.50			E
ARCE	29	0800E	0925D	0855	N27	E61		8223		85D	2B		C	0855	3.09	6.40			H
ARCE	29	0831E			N27	E61		8223			1N		P	0831	2.22	4.60			O
MONT	29	0832	0915		N31	E64		8223		43	1N			0846	2.17				
CAPS	29	0931	0938		N25	E58		8223		7	SF	3		0934	.80	1.70		150	GJ
ARCE	29	0935E	1003D		N23	W22		8227		28D	SF		C	0955	1.41	1.80			H
ARCE	29	0940E	1020D	0958	N27	E60		8223		40D	2B		C	0958	3.61	7.40			H
MONT	29	0949	1015		N31	E64		8223		26	1B			0959	1.03				
CAPS	29	0950E	1010		N26	E59		8223		20D	1B	1			1.50	2.80			GJ
KAND	29	0955	1016		N27	E66		8223		21	SN		V						
CATA	29	1000	1032	1000	N27	E65		8223		32	1N			1000	2.30			186	
KANZ	29	1001E	1028		N26	E58		8223		27D	1N			1004			2.50		H
MONT	29	1024	1030		N29	E61		8223		6	S								
ARCE	29	1045E	1130D	1056	N28	E60		8223		45D	2B		C	1056	4.83	9.90			H
MONT	29	1053	1115	1056	N31	E63		8223		22	1B			1059	1.55				
CAPF	29	1054E	1025	1054	N27	E58		8223		411D	1N		C	1055	1.18	2.51			H
CAPS	29	1054	1114		N27	E58		8223		20	SB	2		1100	.70	1.30		234	GDJ
HERS	29	1055E	1119D	1055E	N27	E58		8223		24D	SN		P	1058	.46	1.20			E
CATA	29	1055	1130	1059	N27	E65		8223		35	2B			1059	2.96			288	
MONT	29	1124E	1150		N29	E61		8223		26D	S								
OTTA	29	1139	1215	1157	N28	E57		8223		36	1N			1203	1.43	3.30			CFKT
OTTA	29			1203										1203	1.43	3.30			
MONT	29	1153	1406		N31	E61		8223		133	1N			1217	1.65				
MEUD	29	1158	1206D		N24	E59		8223		8D	SF		C	1203	.44				D
MCMA	29	1213E	1255		N25	E59		8223		42D	1F		C	1213	1.55	3.60			BF
MEUD	29	1216	1224D		N23	W30		8227		8D	SN		C	1218	.90	1.20			E

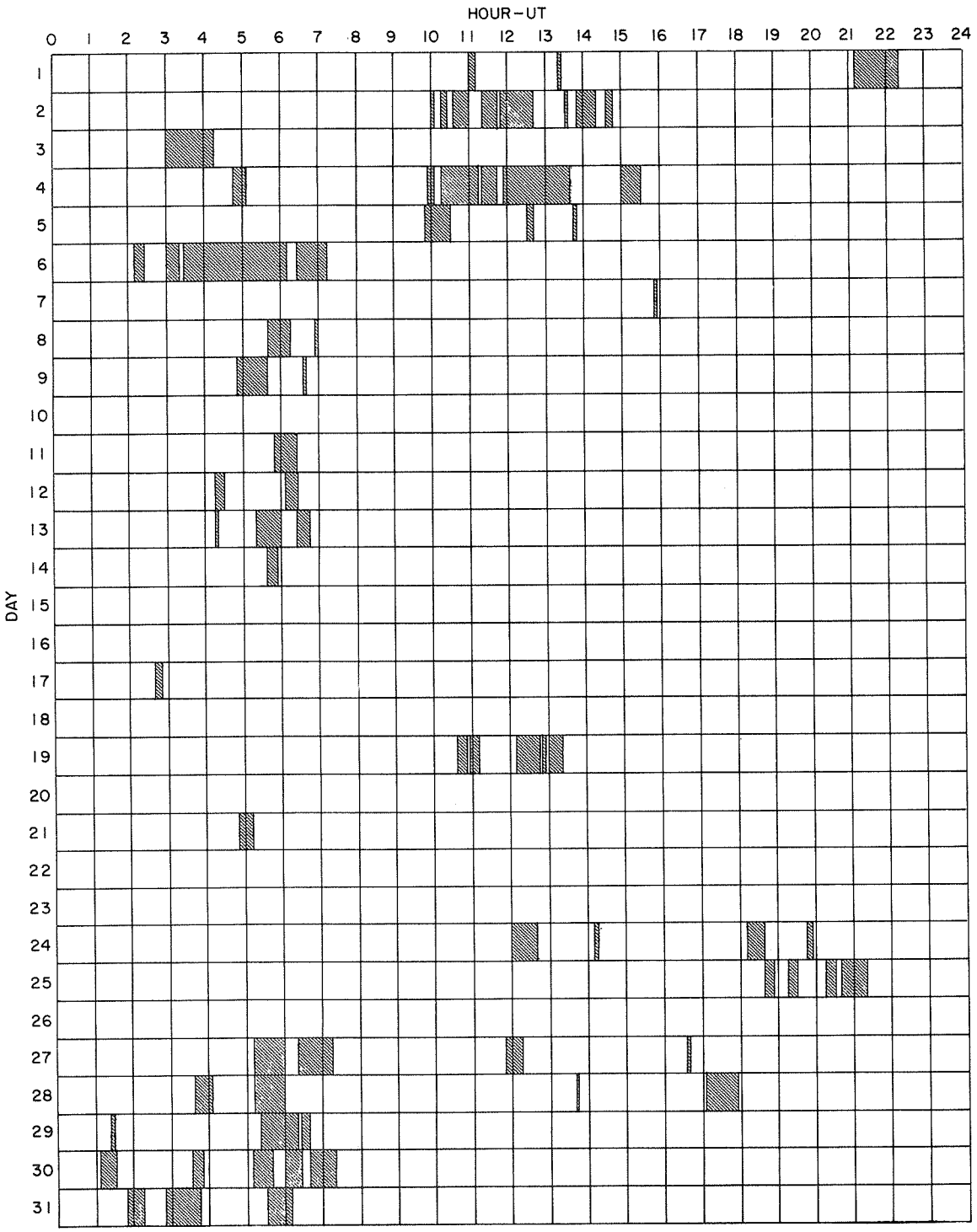
SOLAR FLARES

MARCH 1966

OBSERVATORY	OBSERVED UT DATE 1966 MAR	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
OTTA	29	1229	1234	1233	N25	E56		8223		5	SN			1233	.77	1.63			
MEUD	29	1236E	1246		N24	E58		8223		10D	SF		C	1243	.44				D
OTTA	29	1237	1249		N24	E58		8223		12	SF			1240	.66	1.48			GH
MCMA	29	1316	1327	1317	N28	E58		8223		11	SN		C	1317	.21	.50			D
MONT	29	1333	1350		N28	W22		8227		17	S								
MCMA	29	1337	1345	1338	N23	W29		8227		8	SF		C	1338	.41	.60			E
SACP	29	1337E	1349	1338	N23	W28		8227		12D	SN		P		1.03	1.15			
SACP	29	1338	1411	1350	N27	E62		8223		33	1N		C		1.28	2.34			
OTTA	29	1344	1353	1348	N29	E57		8223		9	1F			1348	1.76				G
MCMA	29	1345E	1353	1348	N25	E57		8223		8D	1B		C	1348	1.13	2.10			E
CAPS	29	1346	1405D		N26	E57		8223		19D	SN	2		1353	.80	1.90		165	GD
MEUD	29	1348	1400	1349	N26	E58		8223		12	SN		C	1349	.90				
MCMA	29	1358	1406	1400	N24	E57		8223		8	SN		C	1400	.21	.50			D
OTTA	29	1359	1403	1402	N27	E56		8223		4	1N			1402	.99	2.22			T
MEUD	29	1405	1412	1406	N24	E58		8223		7	SN		C	1406	.60				D
ARCE	29	1415E	1435D		N22	W26		8227		20D	SN		P	1415	1.00	1.20			
SACP	29	1441	1515	1451	N23	W26		8227		34	1B		C		4.44	4.91			
OTTA	29	1446	1453	1450	N23	W27		8227		7	1F			1450	2.32	3.03			
SACP	29	1504	1541	1526	N27	E60		8223		37	1N		C		1.45	2.54			
OTTA	29	1505	1516	1507	N29	E62		8223		11	1F			1507	1.10				T
KANZ	29	1517E	1523D		N25	E55		8223		6D	SN								D
KANZ	29	1517E	1523D		N27	E65		8223		6D	SN								D
OTTA	29	1523	1535	1526	N28	E57		8223		12	1B			1526	1.22	2.79			T
CAPS	29	1523E	1535		N26	E57		8223		12D	1N	2		1529	1.00	2.40		191	GE
SACP	29	1549	1707	1625	N28	E61		8223		78	1N		C		1.88	3.38			
MCMA	29	1602	1603D		N22	W25		8227		1D	SB		P	1602	.62	.80			E
OTTA	29	1659	1705	1700	N25	E55		8223		6	SB	2	C	1700	.46	.98			
SACP	29	1717	1736	1730	N27	E58		8223		19	1N		C		1.70	2.86			
OTTA	29	1720	1734	1729	N25	E55		8223		14	SN	2	C	1729	.40	.86			
OTTA	29	1746	1857	1802	N29	E61		8223		71	1N	2	C	1802	1.62				FH
SACP	29	1746	1858	1814	N28	E59		8223		72	2N		C		4.10	7.04			
LOCK	29	1751	1830	1817	N28	E51		8223		39	1B		C	1817	1.30	2.90		20	JL
HUAN	29	2046	2055		N30	E64		8223		9	SF	1	P	2046	.31				EH
LOCK	29	2053	2110	2058	N25	E53		8223		17	SN		C	2058	.50	.90		10	H
HUAN	29	2054	2057		N25	E55		8223		3	SF	1	P	2056	.52				H
SACP	29	2151	2238	2227	N27	E61		8223		47	1N		C		1.45	2.56			
MANI	30	0049E	0052D		N25	E59		8223		3D	1F	1		0050	1.80	3.38			
MANI	30	0226	0238	0229	N26	E58		8223		12	SN	2		0229	1.09	2.07			
KANZ	30	0725E	0802D		N27	E54		8223		37D	1F			0747			2.30		EH
MONT	30	0732E	0745		N31	E58		8223		13D	S								
KANZ	30	0945E	0955D		N29	E51		8223		10D	SF								
MONT	30	1024E	1055		N31	E57		8223		31D	S			1045	1.24				
MONT	30	1055	1240		N31	E55		8223		I05	1N			1119	2.06				
HUAN	30	1212	1216	1213	N27	E52		8223		4	SF	2	C	1213	.26	.39			D
HUAN	30	1241	1423	1249	N27	E47		8223		102	2N	2	C	1249	2.99	4.30			HK
HUAN	30			1255				8223						1255	3.51	4.90			
MONT	30	1242	1350	1250	N31	E53		8223		68	1B			1300	3.09				
MCMA	30	1250E			N29	E49		8223			2B		P	1250	3.87	7.50			BF
SACP	30	1309E	1412	1333	N28	E49		8223		63D	2N		P		4.82	6.96			
KANZ	30	1314E	1427		N29	E50		8223		73D	2N			1317			2.60		FH
HERS	30	1327E	1345	1327E	N28	E51		8223		18D	1N		P	1327	1.03	2.10			BE
ONDR	30	1328E	1412D		N28	E50		8223		44D	1N		V	1329			2.16		BH
CAPF	30	1349E	1401		N26	E48		8223		12D	1N		P	1350	1.18	2.28			
MONT	30	1350	1500		N31	E55		8223		70	1N			1431	1.86				
KANZ	30	1535E	1547D		N28	E54		8223		12D	SF								D
KANZ	30	1541	1549		N28	E50		8223		8	SN								D
KANZ	30	1651E	1657D		N28	E50		8223		6D	SF								D
HUAN	30	1718	1725		N28	E50		8223		7	SF	1	P	1719	.77	1.10			E
SACP	30	1734E	1814	1737	N27	E50		8223		40D	1N		P		2.71	3.93			
SACP	30	1930	2148E	2050	N28	E47		8223		138	1N		P		3.67	5.11			
MCMA	30	2012E	2014D		N28	E48		8223		2D	1F		P	2013	1.55	3.10			F
MANI	31	0008E	0025		N27	E49		8223		17D	1F	2		0010	1.30	2.12			
SACP	31	0053	0117D	0114	N29	E37		8223		24D	SN		P		1.21	1.53			
MANI	31	0111	0125	0115	N25	E37		8223		14	1N	2		0115	3.20	4.35			
MANI	31	0145	0151D		N24	E43		8223		6D	SN	2		0146	1.00	1.50			
MANI	31	0416E	0429		N22	E44		8223		13D	SN	1		0420	.20	.30			
KANZ	31	0731	0800		N27	E44		8223		29	1N			0730			2.60		F
ARCE	31	0810E	0910D	0830	N29	E48		8223		60D	1N		C	0830	2.16	3.80			HZ
CAPS	31	0816E	0841		N23	E42		8223		25D	SF	3		0922	.60	.90		158	GL
KANZ	31	0820	0841D		N25	E42		8223		21D	SF								E
CATA	31	0820	0845	0830	N25	E43		8223		25	1N			0820	1.46			151	
KANZ	31	0943E	0948D		N25	E42		8223		5D	SN								
OTTA	31	1245	1315		N27	E40		8223		30	S	1	P	1249	.17	.27			
SACP	31	1306E	1339	1327	N28	E39		8223		33D	1F		P		2.41	3.07			
SACP	31	1341	1514	1412	N27	E35		8223		93	1N		C		3.85	4.69			
MCMA	31	1343	1348	1345	N27	E29		8223		5	SN		C	1345	.26	.30			D
OTTA	31	1344	1347D		N27	E30		8223		3D	SF	2	C	1346	.29	.40			
MCMA	31	1350	1402	1355	N29	E32		8223		12	SN		C	1355	.52	.80			E
OTTA	31	1357E	1430		N28	E40		8223		33D	SN	1	C	1419	.46	.71			F
OTTA	31	1408	1414	1410	N27	E29		8223		6	SN	2	C	1410	.74	1.03			
MCMA	31	1408	1445	1412	N29	E30		8223		37	SN		C	1412	1.24	1.70			E
HUAN	31	1411	1420		N27	E35		8223		9	SF	1	P	1411	.72	.90			E
MCMA	31	1447	1515	1449	N29	E31		8223		28	SF		C	1449	.77	1.10			E
OTTA	31	1523	1526	1524	N25	E29		8223		3	SF	1	C	1524					
MCMA	31	1524	1529	1525	N28	E28		8223		5	SN		C	1525	.62	.90			E
OTTA	31	1605	1608	1607	N27	E28		8223		3	SF	1	C	1607	.45	.62			
OTTA	31	1621	1627		N26	E27		8223		6	SF	1	C	1623	.23	.33			
SACP	31	1807	2045	1911	N28	E36		8223		158	2B		C		8.95	11.09			
MCMA	31	1811	1820	1813	N28	E28		8223		9	SN		C	1813	.26	.40			D
MCMA	31	1823	1829D	1829	N28	E32		8223		6D	2B		C	1907	5.16	8.00			FIK
HUAN	31	1824	2016	1907	N28	E35		8223		112	2N	2	P	1907	3.92	4.90			K
HUAN	31			1933										1933	2.37	2.96			
LOCK	31	1850	2005	1906	N30	E36		8223		75	1N		C	1906	2.60	3.20		20	
LOCK	31			1934															
MCMA	31	1854	2039	1907	N28	E32		8223		105	2B		C	1907	5.16	8.00			FIK
SACP	31	2135	2145	2140	N29	E42		8223		10	SN		C		.60	.79			

INTERVALS OF NO FLARE PATROL OBSERVATIONS
PROVISIONAL

MARCH 1966



Observatories included:

Arcetri	Haleakala	Istanboul	Manila	Ottawa
Capri-F (German)	Herstmonceux	Kandilli	Meudon	Sacramento Peak
Capri-S (Swedish)	Huancayo	Kanzelhohe	Monte Mario	Wendelstein
Catania	Ikomasan	Lockheed	Ondrejov	

SOLAR FLARES

DECEMBER 1965

OBSERV-ATORY	DATE 1965 DEC	OBSERVED UT START	OBSERVED UT END	LOCATION MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT.	REMARKS
	01	0415	0640	NO FLARE PATROL															
KANZ	01	0823E	1103D		N29	W90		8079		160D	1								AG
ARCE	01	0825E	0910D		N26	W88		8079			1-			0840	.29	1.42			
	02	0155	0310	NO FLARE PATROL															
	02	0315	0445	NO FLARE PATROL															
	02	0625	0740	NO FLARE PATROL															
LOCK	02	2155	2215	2159	S08	E57		8080			1-		C	2159	.10	.20		10	
	03	0520	0530	NO FLARE PATROL															
	03	0625	0735	NO FLARE PATROL															
HUAN	03	1428	1456	1432	N25	E77		8081		28	1-		C	1432	.25				D
SACP	03	1428	1507	1437	N27	E74		8081			1-		C		.41	.94		17	
SACP	03	1741	1748	1745	N23	E64		8081			1-		C		.25	.42		16	
	04	0325	0355	NO FLARE PATROL															
	04	0405	0445	NO FLARE PATROL															
SACP	04	1749	1802	1753	S19	E07		8078			1-		C		1.31	1.32		15	
	05	0320	0325	NO FLARE PATROL															
	05	0330	0340	NO FLARE PATROL															
	05	0405	0430	NO FLARE PATROL															
	05	0455	0520	NO FLARE PATROL															
HALE	05	1850	1906	1854	N27	W10		8075			1-	1	C	1854	.20	.20			
LOCK	06	1835	1855	1840	N28	W30		8075			1-		C	1840	.20	.20		10	
	06	2350	2400	NO FLARE PATROL															
	07	0030	0145	NO FLARE PATROL															
	07	0250	0350	NO FLARE PATROL															
CATA	07	0815E	0900D	0843	N23	E90		8083			1-			0843	.24	1.30		135	DG
BUCA	07	0900E	0909D		N29	W34		8075			1-	2			.80				
UCCL	07	1206	1301		N18	E85		8083		55		2							DK
HUAN	07	1347E	1356	1351	N31	W37		8075		9D	1-		C	1351	.30	.36			E
MCMA	07	1348	1356	1351	N29	W38		8075		8	1-	1	C	1351	.30	.40			DH
UCCL	07	1354E	1357D		N33	W35		8075		3D	1-	2							D
MCMA	07	1405E	1416D	1407	N21	E90		8083		11D	1-	1	C	1407					AT
HUAN	07	1425E	1445		N18	E90		8083		20D	1-		P	1426	.20				
	07	1505	1510	NO FLARE PATROL															
LOCK	07	1647E	1724U	1700U	N20	E90		8083		37U	1		C	1700	.40	2.00		10	
SACP	07	1705E	1729	1710	N20	E90		8083			1-		P		.75			17	
OTTA	07	1717	1731	1726	N21	E90		8083			1-	2	C	1726	.39				
MCMA	07	1722E	1730D		N20	E90		8083		8D	1-	1	P	1725					A
OTTA	07	1733	1740	1737	N20	E90		8083			1-	2	C	1737	.28				
OTTA	07	1752	1814D		N21	E90		8083				2	C	1803	.44				
MCMA	07	1835E	1842D	1837	N20	E90		8083		7D	1-	1	C	1837					A
LOCK	07	1950U	2025U	2003	N20	E90		8083			1-		C	2003	.40	1.20		10	
HALE	07	2216	2232D	2218	N16	E90		8083			1-	1	P	2218	.20				
HALE	08	0103	0112	0104	N28	W38		8075			1-	1	C	0104	.20	.30			
	08	0200	0330	NO FLARE PATROL															
MANI	08	0652	0743	0705	N18	E85		8083		51	1	2		0705	1.30	3.90			
ABST	08	0658E	0907D	0704	N21	E85		8083		129D	2		C	0704	3.70	13.10		61	DHK
KAND	08	0700E	0703D		N19	E90		8083			1-								
CATA	08	0828E	0849D	0835	N21	E85		8083			1-			0835	.28	1.40		195	D
KAND	08	0830E	0840		N19	E90		8083		10D	1								
CAPS	08	0831E	0838D		N22	E80		8083			1-	1		0831	.40			200	G
MCMA	08	1350E	1420D		N20	E80		8083		30D	1-	1	P	1350					BE
MCMA	08	1453	1505	1501	N20	E80		8083		12	1-	2	C	1501					ER
SACP	08	1457	1512	1502	N20	E76		8083			1-		C		.41	.97		19	
CLMX	08	1500E	1510		N18	E78		8083		10D	1-		C	1505	.40	1.12			
SACP	08	1610	1617	1612	N17	E73		8083			1-		C		.48	1.03		18	
CLMX	08	1612	1620	1615	N18	E75		8083		8	1-		C	1615	.40	.84			
LOCK	08	1742	1755	1748	N20	E75		8083			1-		C	1748	.20	.50		10	
LOCK	08	1920	1930	1925	N20	E75		8083			1-		C	1925	.30	.70		10	
CULG	08	2212	2242	2218	N20	E79		8083		30	▭		C	2218	.80				J
	09	0410	0450	NO FLARE PATROL															
	09	2250	2300	NO FLARE PATROL															
	09	2305	2335	NO FLARE PATROL															
	09	2345	2355	NO FLARE PATROL															
	10	0045	0100	NO FLARE PATROL															
	10	0115	0135	NO FLARE PATROL															
MANI	10	0557E	0613	0601	N17	E62		8083			1-	2		0601	.50	.80			
MANI	10	0603E	0618	0605	N19	E69		8083			1-	2		0605	.20	.30			
LOCA	10	1340E	1410		N27	E65		8083		30D	1		S						
	10	1615	1625	NO FLARE PATROL															
	10	1720	1725	NO FLARE PATROL															
	10	2100	2120	NO FLARE PATROL															

SOLAR FLARES

DECEMBER 1965

OBSERVATORY	DATE 1965 DEC	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION McMATH PLAGE REGION	LOCATION CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT.	REMARKS
	10	2140	2210	NO FLARE PATROL															
	10	2235	2325	NO FLARE PATROL															
KANZ	11	1041E	1050		N25	W58		8075		9D	1								
	11	2240	2245	NO FLARE PATROL															
	11	2305	2310	NO FLARE PATROL															
	12	0035	0045	NO FLARE PATROL															
CULG	12	0137	0142D		S04	W06		8090		5D	1-		P	0142	•20	•20			CGL
CULG	12	0410E	0447D	0433	N30	E55		8087		37D	1-		P	0433	•20	•40			
	13	1455	1515	NO FLARE PATROL															
	13	2305	2320	NO FLARE PATROL															
	14	0150	0155	NO FLARE PATROL															
	14	0210	0215	NO FLARE PATROL															
	14	0225	0230	NO FLARE PATROL															
	14	1745	1755	NO FLARE PATROL															
SACP	14	1849U	1916U	1855U	N20	W05		8083			1-		C		1.19	1.19		21	
KANZ	15	0729E	0826		N20	W12		8083		57D	1								H
MONT	15	1135E	1201D	1201	N21	W10		8083			1-								
KANZ	15	1456E	1501D		N20	W16		8083		5D	1								
	15	1525	1710	NO FLARE PATROL															
LOCK	15	1750	1820	1755	N18	W20		8083			1-		C	1755	•30	•30		10	
CULG	16	0300	0318	0305	S40	E12				18	1-		C	0305	•20	•26			G
CULG	16	0434	0443	0436	S06	E22				9	1-		C	0436	•20	•22			CGH
KANZ	16	0916E	0920D		N20	W25		8083			1-								
KANZ	16	1013	1018		N20	W25		8083			1-								
KANZ	16	1055E	1103D		N20	W27		8083			1-								
	16	1510	1715	NO FLARE PATROL															
HUAN	16	1757E	1807		N25	W30		8083		10D	1-		P	1757	•30	•33			E
HUAN	16	1936	1940D		N21	W33		8083		4D	1-		P	1939	•25	•28			D
HALE	16	2206	2214	2207	N21	W33		8083			1-	1	C	2207	•20	•20			
	16	2230	2245	NO FLARE PATROL															
CULG	17	0639	0656	0643	N11	W42		8083		17	1-		C	0643	•40	•52			CFGH
	17	1240	1340	NO FLARE PATROL															
	17	1350	1415	NO FLARE PATROL															
	17	1430	1510	NO FLARE PATROL															
	17	1520	1555	NO FLARE PATROL															
	17	1610	1615	NO FLARE PATROL															
LOCK	17	1635	1642	1637	N23	W90		8089		7	1		C	1637	•80	4.00		10	H
MCMA	17	1638E	1642D		N27	W90		8089		4D	1-	1	P	1640					A
HALE	17	1820	1829	1822	N14	W01		8092			1-	2	C	1822	•20	•20			F
LOCK	17	2020	2027	2021	N18	W47		8083			1-		C	2021	•40	•50		10	J
HALE	17	2020	2037	2021	N19	W46		8083			1-	2	C	2021	•30	•40			F
HALE	17	2027	2036	2030	N27	W90		8089			1-	2	C	2030	•10				
CULG	17	2145	2153	2147	N26	W90		8089		8	□		C	2147	•20				
LOCK	17	2146	2150	2148	N23	W90		8089		4	1		C	2148	•50	2.50		20	B
HALE	17	2146	2151	2147	N26	W90		8089		5	1+	2	C	2147	•40				H
CULG	17	2151	2155	2152	N24	W90		8089		4	□		C	2152	•20				
LOCK	17	2208	2217	2210	N18	W48		8083			1-		C	2210	•60	•70		10	
HALE	17	2209	2218	2210	N18	W48		8083			1-	2	C	2210	•60	•80			
HALE	17	2213	2222	2215	N28	W90		8089			1-	2	C	2215	•20				H
HALE	17	2220	2231	2224	N19	W48		8083			1-	2	C	2224	•20	•30			
LOCK	17	2221	2230	2224	N19	W47		8083			1-		C	2224	•30	•40		10	
CULG	17	2344E	2351D		N26	W90		8089		7D	□		P						
MITK	17	2349	2354	2351	N26	W90		8089		5	1		C						GH
LOCK	17	2349	2354	2350	N23	W90		8089		5	1		C	2350	•50	2.50		10	H
MANI	18	0607	0618	0609	N23	W57		8083			1-	2		0609	•10	•10			
MANI	18	0723E	0725		N17	E60		8095			1-	1		0723	•20	•30			
	18	0905	0920	NO FLARE PATROL															
	18	0925	0940	NO FLARE PATROL															
KANZ	18	1022E	1044D		N20	W55		8083		22D	1								EH
KANZ	18	1036E	1042		N23	W53		8083			1-								DH
ARCE	18	1042E	1058D		N20	W58		8083			1-	2		1048	•92	1.67			
	18	1115	1135	NO FLARE PATROL															
	18	1140	1200	NO FLARE PATROL															
HUAN	18	1207E	1545D		N21	W58		8083		218D	□		P						
HUAN	18	1515	1524	1518	N24	W55		8083		9	1-		C	1518	•22	•33			D
LOCK	18	1733	1739	1735	N20	W60		8083			1-		C	1735	•30	•50		10	J
LOCK	18	1812	1815	1813	N20	W60		8083			1-		C	1813	•40	•60		10	J
LOCK	18	2151	2200	2154	N20	W60		8083			1-		C	2154	•50	•80		10	J
CULG	19	0204	0212	0210	S27	W71				8	1-		C	0210	•20	•70			CG

SOLAR FLARES

DECEMBER 1965

OBSERV-ATORY	OBSERVED UT DATE 1965 DEC	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	19	0234	0246	0236	N20	W61		8083			1-	2		0236	.20	.30			
CULG	19	0449	0505	0455	N19	W67		8083		16	1		C	0455	1.60	4.00			
KANZ	19	1333E	1342D		N19	W69		8083			1-								
KANZ	19	1352	1359		N19	W69		8083			1-								
KANZ	19	1358	1412D		N21	W67		8083			1-								E
KANZ	19	1420E	1422D		N19	W69		8083			1-								
HALE	19	1759	1810	1800	N25	E06		8100			1-	2	C	1800	.20	.20			
	19	2350	2400	NO FLARE PATROL															
	20	0000	0015	NO FLARE PATROL															
	20	0400	0425	NO FLARE PATROL															
MANI	20	0458	0521	0504	N18	W09		8099			1-	2		0504	.50	.50			
	20	1405	1415	NO FLARE PATROL															
CULG	20	2249	2309	2254	N21	W40		8097		20	1-		C	2254	.20	.28			GH
	21	0155	0200	NO FLARE PATROL															
CULG	21	0710	0725	0718	N19	W24		8099		15	1-		C	0718	.60	.69			FGL
KANZ	21	1032E	1042		N20	W90		8083		10D	1								A
	21	1410	1430	NO FLARE PATROL															
MCMA	21	1706	1714	1708	N19	W31		8099		8	1-	2	C	1708	.30	.40			DH
MANI	23	0342	0354		N19	W52		8099			1-	2		0347	.25	.30			
	23	1440	1540	NO FLARE PATROL															
	24	1245	1250	NO FLARE PATROL															
HUAN	24	1250E	1312	1254	N19	W70		8099		22D	1-		P	1254	.50				CE
CAPS	24	1254E	1305D		N19	W70		8099			1-	2		1255	.20			130	E
CULG	25	0012E	0132D	0020	N11	W01		8105		80D	1-		P	0020	.40	.40			LH
KODA	25	0750E	0805D		N10	W01		8105		15D	1-		P	0750	.43	.44			
HUAN	25	1220	1237		N12	W08		8105		17	1-		C	1225	.45	.45			E
HUAN	25	1258	1313		N11	W09		8105		15	1-		C	1305	.55	.55			E
HUAN	25	1424	1441	1427	N17	W90		8099		17	1-		C	1432	.20				K
HUAN	25			1433															
HUAN	25	1721	1748	1726	N18	W90		8099		27	1-		C	1726	.30				K
HUAN	25			1733															
HUAN	25			1739										1739	.45				
HUAN	25	1804	1817	1807	N18	W90		8099		13	1-		C	1807	.20				D
HUAN	25	1911	1917	1913	N18	W90		8099		6	1-		C	1913	.22				D
HUAN	25	1928	1942		N17	W90		8099		14	1-		P	1936	.47				
LOCK	25	1930E	1940	1934U	N18	W90		8099		10D	1		C	1934	.40	2.00		10	
SACP	25	1934	2037	1953	N11	W11		8105		63	1		C		2.11	2.14		21	
HUAN	25	1937E	1952D		N10	W11		8105		15D	1-		P	1943	.90	.90			CE
LOCK	25	1940	2005D	1949	N13	W12		8105			1-		C	1949	1.40	1.40		20	
HUAN	25	1948	1952D		N17	W90		8099		4D	1-		P	1948	.22				D
SACP	25	2324	2345	2331	N11	W14		8105			1-		C		.91	.92		18	
HALE	26	0227	0308	0229	N09	W14		8105			1-	2	C	0229	.20	.20			
MANI	26	0408E	0409D		N11	W18		8105			1-	1		0408	1.40	1.40			
MANI	26	0658E	0710D	0700	N11	W19		8105			1-	2		0700	1.00	1.00			
KANZ	26	1008	1030		N11	W15		8105		22	1								
HUAN	26	1344	1348		N11	W20		8105		4	1-		P	1345	.50	.50			CE
HUAN	26	1449	1458	1451	N10	W25		8105		9	1-		C	1451	.32	.32			E
HUAN	26	1534	1548D		N10	W22		8105		14D	1-		P	1540	.70	.70			E
LOCK	26	1632	1642	1637	N11	W21		8105			1-		C	1637	.40	.40		10	J
LOCK	26	1920	1935	1925	N08	W21		8105			1-		C	1925	.10	.10		10	H
CULG	26	2020	2156D	2120	S27	E59		8110		96D	1-		C	2120	.40	.40			G
LOCK	26	2100	2130	2110	N12	W30		8105			1-		C	2110	.20	.20		10	
HALE	27	0009	0031	0014	N08	W11		8105			1-	2	C	0014	.40	.40			H
MITK	27	0028	0055		N10	W28		8105		27	1-		C						EH
MANI	27	0031	0057	0041	N09	W24		8105		26	1	2		0041	2.20	2.20			
HALE	27	0034	0106	0039	N08	W11		8105			1-	2	C	0039	.60	.70			H
HALE	27	0118	0131	0122	N08	W11		8105			1-	2	C	0122	.40	.40			H
HALE	27	0138	0152	0141	N08	W11		8105			1-	2	C	0141	.40	.40			H
HALE	27	0153	0204	0156	N08	W11		8105			1-	2	C	0156	.20	.20			H
CULG	27	0351	0427D	0402	S29	E54		8110		36D	1-		P	0402	.20	.36			
	27	0525	0550	NO FLARE PATROL															
MANI	27	0620	0632	0623	N09	W29		8105			1-	2		0623	1.70	1.70			
	27	0725	0735	NO FLARE PATROL															
KAND	27	0824	0946		S31	E55		8110			1-								
CATA	27	0857E	0930D	0922	S25	E55		8110		33D	1			0922	1.85	3.20		150	D
CATA	27	0932E	1159D	0946	N11	W32		8105		147D	1			0946	1.87	2.20		155	F
KAND	27	1142	1257		S31	E55		8110		75	1								
HUAN	27	1322	1334	1325	N11	W35		8105		12	1-		C	1325	.30	.33			D
HUAN	27	1335	1404	1349	S30	E63		8110		29	1-		C	1349	.25	.35			D
HUAN	27	1410	1415	1412	S30	E63		8110		5	1-		C	1412	.30	.42			D
HUAN	27	1531	1553		S30	E61		8110		22	1-		P	1535	.50	.70			
HUAN	27	1604	1615D		S30	E62		8110		11D	1-		P	1605	.30	.42			D
SACP	27	1650	1711	1655	N10	W35		8105			1-		C		1.66	1.81		19	

SOLAR FLARES

DECEMBER 1965

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1965 DEC	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
HUAN	27	1746E	1826D		S30	E62		8110		40D	1-		P	1747	.30	.42			D
HALE	27	1748	1759	1750	S28	E48		8110			1-	1	C	1750	.20	.30			F
HALE	27	1801	1816	1805	N09	W36		8105			1-	2	C	1805	.40	.40			H
HUAN	27	1802	1811D		N10	W37		8105		9D	1-		P	1805	.25	.28			D
HALE	27	1810	1820	1813	S28	E50		8110			1-	1	C	1813	.20	.30			F
LOCK	27	1820	1831	1825	N12	W36		8105			1-		C	1825	.40	.40		10	
CLMX	27	1853	1904	1858	N11	W37		8105		11	1-		C	1858	.10	.11			
LOCK	27	1920	1946	1931	N12	W39		8105			1-		C	1931	1.80	1.80		20	
CLMX	27	1921	1945	1931	N10	W36		8105		24	1-		C	1931	1.70	1.87			
SACP	27	1923	1944	1930	N09	W37		8105			1-		C		1.82	2.01		20	
HALE	27	1923E	2017	1931	N10	W37		8105		54D	1	2	P	1931	2.20	2.40			F
LOCK	27	2050U	2115U	2103	S26	E45		8110			1-		C	2103	.40	.40		10	
SACP	27	2100	2115	2107	S27	E45		8110			1-		C		.82	1.03		19	
CLMX	27	2101	2115	2107	S28	E47		8110		14	1-		C	2107	.40	.52			
HALE	27	2116	2132D	2119	N10	W37		8105			1-	1	P	2119	.20	.20			
SACP	27	2207	2222	2212	S27	E45		8110			1-		C		1.15	1.45		20	
CLMX	27	2209	2224	2213	S28	E47		8110		15	1-		C	2213	.60	.78			
LOCK	27	2210	2235	2215	S26	E45		8110			1-		C	2215	.50	.50		10	
HALE	27	2212E	2219D		S28	E45		8110			1-	1	P	2215	.20	.30			
LOCK	27	2254	2322	2306	N11	W40		8105			1-		C	2306	.70	.70		10	
SACP	27	2332	2346	2338	N23	E54		8107			1-		C		.42	.61		18	
SACP	27	2347	2355D	2351	N11	W40		8105			1-		P		.87	.99		18	
HALE	27	2349E	2352D		N09	W40		8105			1-	1	P	2349	.30	.30			
MANI	28	0002E	0020	0005	N10	W41		8105			1-	2		0005	1.60	1.80			
HALE	28	0016E	0028D		N09	W42		8105			1-	2	P	0028	.40	.50			
MANI	28	0031E	0051	0036	N10	W42		8105			1-	2		0036	.80	.90			
CULG	28	0152	0206	0153	N24	E54		8107		14	1-		C	0153	.20	.38			
CULG	28	0300	0311	0308	S30	E48		8110		11	1-		C	0308	.20	.32			C
KODA	28	0359E			N10	W16		8105			1-		P	0350	.32	.34			
CULG	28	0614	0621	0617	N38	E00				7	1-		C	0617	.20	.22			HCG
CULG	28	0742	0809	0743	S28	E41		8110		27	1-		C	0743	.40	.60			
ARCE	28	0845E	0900D		N08	W48		8105			1-	3		0847	.52	.81			
KAND	28	0851			S27	E42		8110			1								
ARCE	28	0910E	0940D		N11	W46		8105			1-	3		0932	.88	1.35			
ARCE	28	0925E	0940D		S27	E40		8110			1-	3		0927	.98	1.44			
KANZ	28	1020E	1103D		S28	E39		8110		43D	1								H
KANZ	28	1028E	1050		N09	W43		8105			1-								D
KANZ	28	1028E	1103D		N10	W48		8105		35D	1								E
KANZ	28	1052E	1058D		N22	E50		8107			1-								D
MEUD	28	1158	1206	1201	N10	W45		8105			1-			1201	.70	1.10			
KANZ	28	1315E	1322D		N10	W49		8105			1-								D
KANZ	28	1336	1344		N12	W45		8105			1-								D
KANZ	28	1358E	1406D		N09	W48		8105		8D	1								EH
HUAN	28	1533E	1639		N11	W69		8105		66D	1-		P	1547	.50	.60			E
SACP	28	1609	1620	1613U	N11	W46		8105			1-		C		.33	.40		17	
HALE	28	2029	2034	2031	N08	W50		8105			1-	2	C	2031	.40	.50			
CULG	28	2030	2033	2031	N07	W50		8105		3	1-		C	2031	.20	.32			CH
HUAN	28	2031	2034D		N10	W67		8105		3D	1-		P	2033	.25	.30			D
HALE	28	2158	2221D	2205	S28	E32		8110			1-	2	P	2205	.20	.20			
SACP	28	2321	2350	2340U	S29	E34		8110			1-		C		.25	.29		17	
HALE	28	2326	2356	2332	S28	E32		8110			1-	2	C	2332	.20	.20			
HALE	29	0105	0115D	0112	S30	E32		8110		10D	1-	1	P	0112	.30	.30			L
HALE	29	0108	0115D	0113	N08	W50		8105		7D	1-	1	P	0113	.20	.30			
KODA	29	0640	0650	0641	S26	E32		8110		10	1-		P	0642	.64	.83	1.40		
MANI	29	0641E	0654D	0643	S29	E31		8110			1-	2		0643	1.00	1.10			
CATA	29	0834E	1020D	0838	N10	W59		8105			1-			0838	.54	.90		162	EH
UCCL	29	1013	1018D		S32	E26		8110		5D	1-	2							E
UCCL	29	1122	1226D	1146	N11	W62		8105		64D	1	3		1146	.30	.60			E
MEUD	29	1124	1235	1150	N11	W60		8105		71	1+			1150	2.40	5.10			
CATA	29	1126E	1230D	1210	N09	W58		8105		64D	1+			1210	1.80	3.40		229	
ONDR	29	1128E	1334D		N12	W60		8105		126D	2	3		1148			2.60		H
NERA	29	1130E	1240D		N11	W60		8105		70D	2	2							
ARCE	29	1232E	1306D		N10	W61		8105		34D	1	2		1252	1.64	3.16			
ARCE	29	1232E	1306D		N08	W58		8105			1-	2		1252	.65	1.18			
MEUD	29	1205	1226	1210	S29	E25		8110		21	1			1210	1.80	2.30			
CATA	29	1208E	1230D	1210	S29	E28		8110		22D	1+			1210	1.05	1.30		302	D
ARCE	29	1232E	1306D		S28	E27		8110			1-	2		1232	.95	1.19			
ARCE	29	1254E			N08	W58		8105			1-	2		1254	.50	.91			
LOCA	29	1352E	1406		N23	E40		8107		14D	1		S						
ARCE	29	1410E	1459D		S27	E27		8110			1-	2		1440	.72	.89			
ARCE	29	1440E	1445D		N08	W69		8105		5D	1	2		1440	1.01	2.30			
HUAN	29	1632	1647D	1636	S30	E27		8110		15D	1-		C	1636	.35	.39			E
SACP	29	1633E	1740	1642	S29	E24		8110		67D	1		P		2.31	2.48		20	
HALE	29	1712E	1743	1718	S31	E23		8110		31D	1-	1	P	1718	.60	.70			
HUAN	29	1715E	1727		S30	E26		8110		12D	1-		P	1716	.45	.54			C
SACP	29	1737	1843	1746	N09	E12					1-		C		.24	.24		17	
HALE	29	1741	1752	1747	N06	E12				11	1-	1	C	1747	.10	.10			
HALE	29	1757	1809	1804	N07	E12				12	1-	1	C	1804	.10	.10			

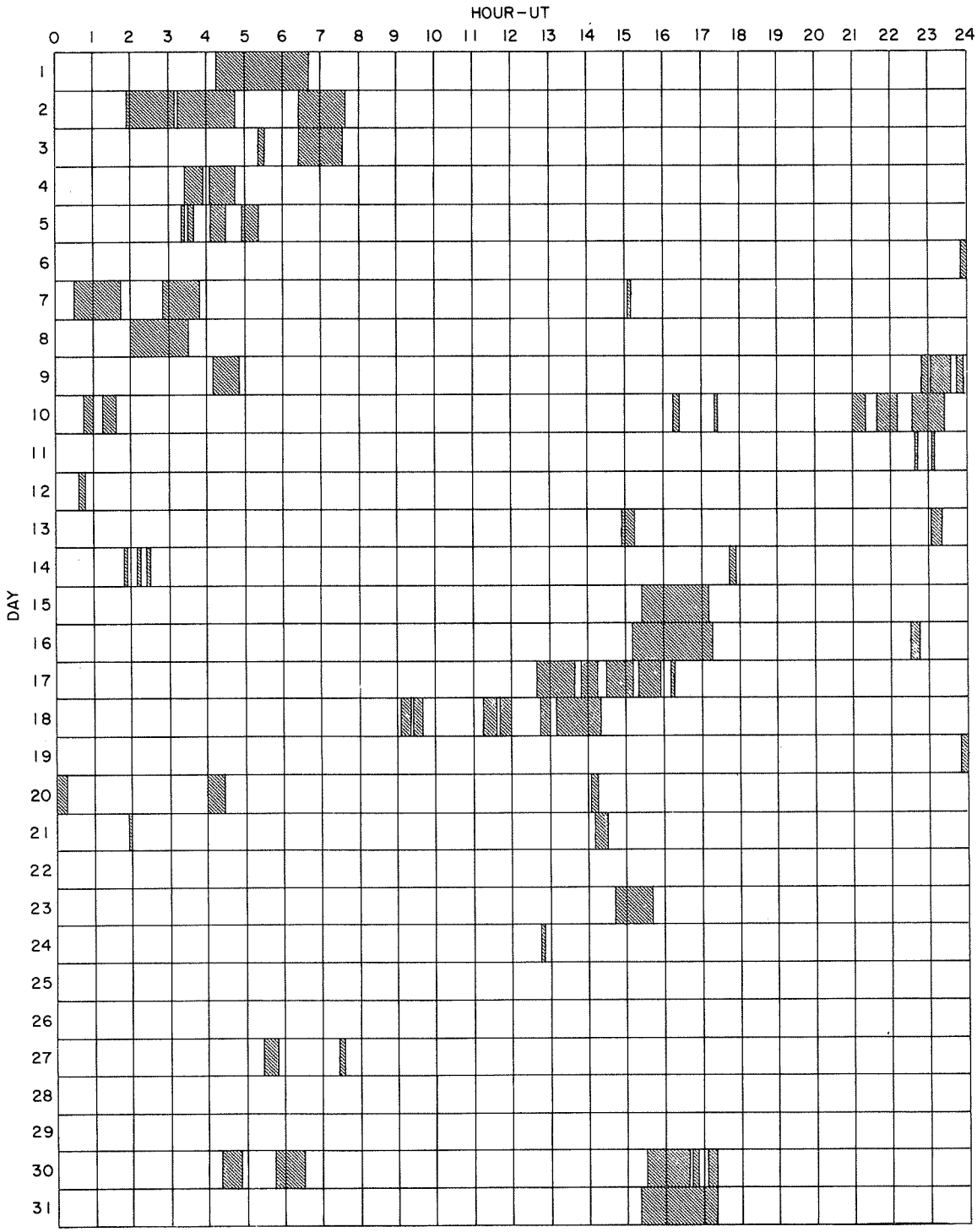
SOLAR FLARES

DECEMBER 1965

OBSERVATORY	OBSERVED UT DATE 1965 DEC	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
HALE	29	1810	1833	1812	N07	E11				23	1-	1	C	1812	.10	.10			
HALE	29	1818	1831	1820	N10	W71		8105		13	1-	1	C	1820	.10	.20			
HALE	29	1824	1828	1825	S30	E22		8110		4	1-	2	C	1825	.30	.30			
SACP	29	1905	1934	1926	N09	E11					1-		C		.33	.32		15	
HALE	29	1937	1943	1939	N08	W68		8105		6	1-	2	C	1939	.10	.20			
SACP	29	1932	2030	2019	S29	E23		8110			1-		C		1.57	1.67		18	
HALE	29	1941	1956	1943	S30	E22		8110		15	1-	2	C	1943	.30	.30			
HALE	29	2008	2019	2010	N11	W72		8105		11	1-	1	C	2010	.70	1.50			H
HALE	29	2018	2026	2020	S30	E22		8110		8	1-	1	C	2020	.60	.70			
HALE	29	2044	2058	2045	N10	W71		8105		14	1-	1	C	2045	.20	.40			
SACP	29	2132U	2144	2138	N09	W74		8105		12U	1		P		2.25	4.85		19	
HALE	29	2134	2147	2139	N08	W75		8105		13	1+	1	C	2139	1.80	4.10			
SACP	29	2154	2226	2211	N10	W72		8105			1-		C		.66	1.34		17	
HALE	29	2157	2224	2200	N11	W72		8105		27	1-	1	C	2200	.30	.70			K
HALE	29			2211										2211	.40	.90			
HALE	29	2211	2218	2213	N21	E28		8107		7	1-	1	C	2213	.10	.10			
HALE	29	2236E	2311	2242	N11	W72		8105		35D	1-	2	C	2242	.40	.90			
HALE	30	0006	0133D	0044	N09	W71		8105		87D	1+	2	C	0044	1.80	3.60			FJ
MANI	30	0029E	0123	0035	N09	W68		8105			1-	2		0035	1.10	1.90			
HALE	30	0322	0345D	0324	N08	W75		8105		23D	1-	1	P	0324	.30	.70			
	30	0420	0450	NO FLARE PATROL															
	30	0545	0630	NO FLARE PATROL															
ARCE	30	0908E	0935D		N10	W80		8105		27D	1	2		0915	1.18	3.78			
ARCE	30	0955E	1042D		N10	W80		8105		47D	1	2		0955	.85	2.72			
ARCE	30	1012E			N10	W80		8105			1	2		1012	.96	3.07			
CAPE	30	1121	1143	1122	N12	W85		8105		22	1			1121	1.10				J
	30	1530	1635	NO FLARE PATROL															
	30	1640	1650	NO FLARE PATROL															
	30	1705	1720	NO FLARE PATROL															
HALE	30	1818	1830	1821	N07	W80		8105		12	1-	1	C	1821	.30				HK
HALE	30			1827										1827	.20				
HALE	30	1839	1848	1844	N09	W85		8105		9	1-	1	C	1844	.10				
HALE	30	1850	1856	1853	N21	E13		8107		6	1-	2	C	1853	.10	.10			H
HALE	30	1914	1937	1918	N20	E13		8107		23	1-	2	C	1918	.10	.10			HK
HALE	30			1929										1929	.10	.10			
HALE	30	2032	2042	2035	N20	E12		8107		10	1-	2	C	2035	.20	.20			
LOCK	30	2211	2215	2212	N05	W80		8105			1-		C	2212	.10	.30		10	H
HALE	31	0059	0115	0104	N20	E10		8107		16	1-	1	C	0104	.20	.20			H
ARCE	31	0805E	0850D		N11	W85		8105		45D	1	2		0843	.82	3.35			
ARCE	31	0805E	0912D		N10	W90		8105		67D	1	2		0810	.49	2.78			
ARCE	31	0805E	0936D		N08	W90		8105		81D	1	2		0810	.65	3.69			
CATA	31	0825E	1200D	0845	N09	W90		8105		215D	2			0845	.94	5.30		138	F
ARCE	31	0925E	0936D		N11	W88		8105		11D	1	2		0930	.52	2.55			
KANZ	31	0930E	1012		N11	W90		8105		42D	1								A
ARCE	31	0940E	0945D		N12	W86		8105		5D	1	2		0940	.49	2.12			
ARCE	31	0953E	1026D		N11	W88		8105		33D	1	2		0957	.43	2.11			
KANZ	31	1016	1024D		N11	W90		8105		8D	1								A
ARCE	31	1119E	1128D		N12	W86		8105		9D	1	2		1121	.52	2.25			
ARCE	31	1130E			N11	W90		8105			1-	2		1130	.26	1.48			
	31	1520	1720	NO FLARE PATROL															
HALE	31	1740	1753	1744	N13	W90		8105		13	1	2	C	1744	.50				
LOCK	31	1755E	1807	1755E	N10	W85		8105			1-		C	1755	.40	1.20		10	
HALE	31	1842	1851	1846	N12	W90		8105		9	1-	1	C	1846	.10				
LOCK	31	1850E	1928D	1900	N10	W90		8105		38D	1		C	1900	.80	4.00		20	
LOCK	31	2027	2040D	2040U	N10	W90		8105		13D	1		C	2040	.40	2.00		10	

INTERVALS OF NO FLARE PATROL OBSERVATIONS

DECEMBER 1965



Observatories included:

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

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

FEBRUARY 1966

FEB. 1966	UNIVERSAL TIME			TYPE SWF	IMPORTANCE						BUR	WIDE SPREAD INDEX	STATIONS	KNOWN FLARE
	START	END	MAX	IMP	ABS	SCNA	SEA	SPA	SES	SFD				
03	2033	2120		SL 1									BO TR WS	
11	0122	0153	0126	S 1-								4	OK MA	0125
11	0124	0204	0130					31				1	MA(NPG18-31)	
11	2339	0024	2350					160				5	HA(WWVB60-160, WWVL20-40), MA(NPG18-93), BO(NPM26-54)	2335
11	2341	2359	2351	S 1+								5	MA CA OK TO WS	
26	0103	0200	0118	SL 1								4	MA OK	*
26	0105	0200	0118					50				1	MA(NPG18-50)	*
27	0043	0110	0046					86				1	MA(NPG18-86)	0044
27	0043	0115	0045	S 1-								5	OK MA WS	
27	1217	1300	1230						1			1	UM	
27	1220	1322	1227					13				1	UM(NBA24-13,NSS21-12)	
27	2326	0041	2356	S 1								5	MA CA OK TO	2331E
27	2326	0100	2338					92				5	BO(NPM26-92), HA(WWVB60-108, WWVL20-36), MA(NPG18-86)	
28	0351	0415	0355	S 2								4	OK MA	0351
28	0351	0421	0355	1								1	MA	
28	0352	0440	0356					137				5	MA(NPG18-137), AN(NPM28-25)	
28	1653	1700D	1657E							012		1	BO(WWV10-1.2,WWV15-0.5)	1650
28	1837	1839	1837D							002		1	BO(WWV10-0.2,WWV15-0.2)	1833
28	2258	0013	2342	G 1								5	MA CA OK WS	2257E
28	2259	2410	2310					94				5	MA(NPG18-94), BO(NPM26-64), HA(WWVL20-36)	

1. No SCNA, SEA and bursts reports received from Hawaii and McMath.

2. UM = Umuarama Radio Observatory, Mackenzie University, Brazil.

RIOMETER EVENTS

IIIs

FEBRUARY 1966

GREAT WHALE RIVER

30 Mc/s

FEB. 1966	START UT	END UT	MAX UT	MAX. ABSORP. db, (tenths)	NO. OF PEAKS	FEB. 1966	START UT	END UT	MAX. UT	MAX. ABSORP. db, (tenths)	NO. OF PEAKS
3	0600	0810	0730	3	1	16	0350	0910	0648	12	2
3	1100	2322	1530	16	5	17	1345	1800	1450	11	1
4	0224		0440	69	19	18	0217	0920	0457	8	3
5		2240				19	0436	0923	0648	24	2
6	0059	0902	0301	18	5	19	1406	2010	1434	13	3
6	1221	0700	1305	21	8	20	0304	2302	1310	70	10
7	1736	0030	2145	8	4	21	0130	2146	1334	15	6
8	1328	2020	1456	28	1	22	0829		1522	86	20
10	0107	1206	0557	7	2	23		2356			
11	0110	2112	1509	26	14	24	0220	2156	1253	66	10
12	0116	0942	0320	13	2	25	0119	0048	1614	30	5
13	0134	1402	0208	23	4	26	1856	1320	0525	10	3
14	1159	1444	1232	3	1						

SOLAR NOISE OBSERVATIONS

MARCH 1966

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

March 1966	FREQ.	STARTING TIME UT	TIME OF MAX. UT	DURATION MINUTES	FLUX DENSITY 10^{-22} wm^{-2} (c/s)$^{-1}$ PEAK	FLUX DENSITY 10^{-22} wm^{-2} (c/s)$^{-1}$ MEAN	TYPE
3	960	2050.7	2051.0	0.6	0.8*	0.4	Simple
	328	2050.7	2051.1	0.6	8	5	Simple
	960	2056.1	2056.2	0.4	0.8*	0.4	Simple
	328	2056.1	2056.3	0.4	20	10	Simple
	960	2142.2	2142.7	0.7	0.8*	0.4	Simple
	328	2142.3	2142.7	0.6	11	6	Simple
4	960	2126.7	2126.8	0.2	0.3*	0.1	Simple
	328	2126.7	2126.9	0.4	14	7	Simple
	960	2152.0	2152.1	0.3	0.8*	0.4	Simple
	328	2151.9	2152.1	0.4	41	21	Simple
	960	2158.0	2158.2	0.4	0.9*	0.4	Simple
	328	2157.8	2158.2	0.5	21	10	Simple
	960	2204.1	2204.1	0.2	0.1*	< .1	Simple
	328	2203.4	2203.9	1.1	17	7	Simple
5	960	1615.7	1616.9	1.7	12.0*	4.3	Simple
	328	1616.8	1616.9	0.6	12	6	Simple
6	960	1744.7	1745.2	0.9	1.3*	0.4	Simple
	328	1745.2	1745.5	0.5	11	4	Simple
7	960	1916.4	1916.5	0.2	0.7*	0.3	Simple
	328	1916.3	1916.5	0.3	20	10	Simple
8	328	1728.6	1729.0	0.9	55	28	Simple
15	2,690	1520.1	1520.3	1.0	3	2	Simple 1
	2,690	1538.4	1538.8	4.1	5	2	Simple 1
	10,700	1636.4	1636.8	1.4	9	5	Simple 2
	2,690	1636.0	1636.7	9.6	> 5	2 (?)	Simple 3
	2,690	1806.2	1806.4	3.6	3	2	Simple 1
	2,690	1904.0	1907.2	4.0	5	2	Simple 1
	2,690	2003.0	2006.1	7.4	6	3	Simple 1
	2,690	2006.8	2007.2	1.6	50	15	Complex (Fluctuations)
	2,690	2012.3	2012.6	1.5	5	2	Simple 1
	10,700	2119.8	2120.8	4.6	20	10	Simple 2
	2,690	2119.8	2121.3	3.2	5	3	Simple 1
	960	2120.6	2121.0	1.4	0.8*	0.4	Simple
16	10,700	1511.5	1515.2	6.2	7	4	Simple 1
	2,690	1514.2	1515.5	10.6	6	3	Simple 3
	10,700	1528.6	1528.8	2.8	4	2	Simple 1
	2,690	1528.4	1528.9	3.0	4	2	Simple 1
	10,700	1616.8	1617.4	2.6	9	5	Simple 2
	2,690	1616.8	1617.4	2.6	9	4	Simple 2
	10,700	1624.2	1626.8	7.6	119	19	Simple 2
	2,690	1624.2	1627.0	9.6	86	19	Simple 2
	960	1625.3	1627.3	3.5	3.9*	0.9	Simple
	10,700	1921.3	1923.0	4.8	110	29	Complex
	2,690	1921.0	1923.1	10.1	86	10	Complex
	960	1920.6	1922.9	9.2	11.1*	2.1	Complex
	10,700	1937.0	1937.7	1.5	7	4	Simple 1
	2,690	1936.1	1937.7	4.0	11	6	Simple 2
	10,700	2130.3	2130.4	0.3	13	7	Simple 2
	2,690	2130.2	2130.6	1.5	6	3	Simple 1
	10,700	2150.2	2150.7	3.1	122	23	Complex
	2,690	2150.4	2150.6	3.0	71	19	Complex
	960	2150.4	2150.9	2.4	0.4*	0.2	Simple

SOLAR NOISE OBSERVATIONS

MARCH 1966

PENNSYLVANIA STATE UNIVERSITY

10700, 2700, 960, 328 Mc/s

March 1966	FREQ.	STARTING TIME UT	TIME OF MAX. UT	DURATION MINUTES	FLUX DENSITY $10\text{-}22_{wm}\text{-}2$ (C/S)-I PEAK	FLUX DENSITY $10\text{-}22_{wm}\text{-}2$ (C/S)-I MEAN	TYPE
17	10,700	1148.2	1148.6	1.4	9	5	Simple 2
	2,690	1150.4	1151.0	2.0	52	6	Complex
	10,700	1150.6	1151.3	2.4	14	9	Simple 2
	2,690	1153.4	1153.8	1.8	6	3	Simple 1
	10,700	1210.2	1213.0	8.6	195	50	Complex
	2,690	1210.2	1212.8	8.6	50	13	Complex
	10,700	1646.4	1648.9	6.6	34	5	Complex
	2,690	1646.4	1646.6	7.6	110	92	Complex
	960	1646.4	1648.9	3.6	0.5*	0.1	Complex (Fluctuations)
	10,700	1745.2	1809.0	63.8	20	10	Complex
	2,690	1745.2	1809.0	63.8	5	3	Simple 3
	10,700	1745.2	1745.8	1.8	10	5	Complex
	2,690	1745.2	1746.5	1.8	8	5	Simple 2
	10,700	1747.8	1748.8	3.2	25	13	Complex
	2,690	1747.8	1748.8	3.2	18	9	Simple 2
	10,700	1753.0	1754.0	2.7	72	23	Complex
	960	1752.8	1753.0	1.4	31.0*	11.4	Complex
	2,690	1753.0	1753.4	2.7	9	4	Complex
	10,700	1758.6		7.4	20(?)	10(?)	Simple 2 **
	2,690	1758.6		7.4	15(?)	4(?)	Complex **
	10,700	1913.2	1918.4	12.8	10	5	Simple 3
	10,700	1915.2	1915.6	0.7	10	5	Simple 2
	10,700	1922.3	1923.0	1.1	15	10	Simple 2
	10,700	2145.4	2149.4	17.0	32	11	Simple 2
	2,690	2146.0	2148.0	7.4	13	9	Simple 2
	960	2149.0	2149.3	1.0	3.3*	0.8	Complex
18	960	1536.3	1536.9	1.0	0.3*	0.2	Simple
	10,700	1749.8	1751.0	2.6	22	11	Simple 2
	10,700	1902.6	1902.8	0.6	6	3	Simple 1
	2,690	1902.5	1902.7	0.5	5	3	Simple 1
19	10,700	1356.0		9.0			Complex **
	2,690	1356.0	1359.4	6.6			Complex **
	2,690	1423.6	1426.6	9.5	6	3	Simple 3
	2,690	2045.1	2045.7	3.2	16	7	Simple 2
20	10,700	1759.6	?	8.1			Simple 2 **
	2,690	1758.5	?	15.5			Simple 2 **
	960	1758.3	?	6.7			Simple 2 **
	2,690	1849.2	?	13.9			Fluctuations **
	10,700	1852.1	?	13.4			Fluctuations **
	10,700	2000.0-2002.0	?	4-6			**
	10,700	2006	?	29			Post Burst Increase
	2,690	2000.0-2002.0	?	5-7			**
	2,690	2007	?	40			Post Burst Increase
21	2,690	1415.6	1424.2	17.4	10	4	Simple 3
	10,700	1505.7	1508.3	15.6	20	10	Simple 2
	2,690	1505.3	1507.0	14.0	27	9	Simple 2
	10,700	1544.7	1546.4	12.8	51	14	Simple 2
	2,690	1607.4	1608.2	14.3	3	2	Simple 3
	10,700	1616.6	1617.3	3.4	12	6	Simple 2
	2,690	1616.6	1617.4	4.2	25	7	Complex
	10,700	1820.6	1821.7	19.5	28	14	Simple 2
	2,690	1820.6	1823.0	17.6	6	3	Simple 3
	10,700	2048.1	2048.5	4.2	18	10	Simple 2

SOLAR NOISE OBSERVATIONS

MARCH 1966

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

March 1966	FREQ.	STARTING TIME UT	TIME OF MAX. UT	DURATION MINUTES	FLUX DENSITY 10^{-22} $_{wm}^{-2}$ (c/s)$^{-1}$ PEAK	FLUX DENSITY 10^{-22} $_{wm}^{-2}$ (c/s)$^{-1}$ MEAN	TYPE
22	10,700	1408.8	1409.0	1.2	13	5	Simple 2
	2,690	1406.5	1409.0	12.5	16	3	Complex
	10,700	1816.8	1820.0	4.2	16	5	Simple 2
	2,690	1812.0	1820.0	17.6	14	2	Complex
23	10,700	1339.5	1339.6	1.1	8	3	Simple 2
	2,690	1332.0	1332.2	1.9	5	3	Simple 1
	2,690	1441.7	1442.5	8.9	5	2	Simple 3
	2,690	2112.6	2114.4	6.6	4	2	Simple 1
24	2,690	1423.3	1423.7	1.4	12	6	Complex
	10,700	1915.2	1916.0	3.4	61	12	Complex
	10,700	1956.2	1956.4	1.0	28	9	Simple 2
25	10,700	1313.9	1316.3	2.9	11	6	Simple 2
	2,690	1314.2	1316.1	4.2	12	2	Simple 2
	10,700	1342.7	1345.6	5.9	55	11	Complex
	2,690	1343.8	1345.5	3.0	4	1	Simple 1
	2,690	1531.8	1536.2	10.4	7	2	Simple 3
	2,690	2232.3	2233.0	2.0	6	3	Simple 1
26	2,690	1847.8	1851.2	10.0	11	6	Simple 2
27	2,690	1531.4	1532.5	3.0	5	3	Simple 1
28	2,690	1226.5	1226.9	5.3	4	1	Simple 1
	10,700	1909.0	1914.0	15.0	90	10	Complex
	2,690	1911.4	1914.4	17.0	31	6	Complex
29	2,690	1524.7	1525.2	1.3	7	3	Simple 1
	10,700	1746.3		74.7	>68	>3	Complex **
	2,690	1744.0	1801.0	?82.0	>89	>4	Complex **
	960	1746.2	1856.0	?80.4	>6.3*	>0.2	Complex **
30	10,700	1242.3	1247.0 1258.0	181.5	>217	>65	Great Burst (Complex) ***
	2,690	1244.3	1247.5 1306.8	179.5	>103	>40	Great Burst (Complex) ***
	960	1248.8	1304.7 1305.5	72.9	>6.9*	>1.5	Great Burst (Complex) ***
31	10,700	1900.0- 1902.0	1927.5	163- 165			Simple 3 **
	2,690	1900.0- 1902.0	1926.5	172- 174			Simple 3 **

* Flux at 960 Mc/s is given in terms of mean solar flux just prior to event.
** Calibration during burst.
*** Recorder went off scale.

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY—FEBRUARY 1966

AFCRL-SAGAMORE HILL — 8800, 2700, 1415, 606 Mc/s

Jan. 1966	FREQ.	STARTING TIME UT	TIME OF MAX UT	DURATION MINUTES	FLUX DENSITY $10\text{-}22_{wm^{-2}}$ (c/s)-1 PEAK	FLUX DENSITY MEAN	TYPE
14	8800	1903	1925	65	9	3	Simple 3
	2695	1903	1934	65	5	2	Simple 3
16	2695	1715	Indet.	210	6	2	Simple 3
	1415	1715	1854	176	14	4	Simple 3
	606	1715	1854	176	8	3	Simple 3
	2695	1852	Indet.	4	> 15	?	Simple 2
	606	1853	1854	3	17	5	Simple 2
	606	1856	1903	14	15		Fluctuations
	1415	1949	1959	11	28		Fluctuations
17	2695	1213+	Indet.	> 42	> 41		Incomplete
	1415	1213+	Indet.	> 42	> 58		Incomplete
	606	1213+	Indet.	> 42	> 175		Incomplete
	2695	1801	1802	2	10	2	Simple 2
	1415	1801	1802	2	24	3	Simple 2
	606	1801	1802	2	220	4	Simple 2
18	2695	1230	1457	210	7	2	Simple 3
	8800	1328	1329	4	40	14	Simple 2
	2695	1326	1327	7	12	5	Simple 2
	1415	1300	1430	180	7	1	Simple 3
	606	1300	1430	180	2	0.5	Simple 3
28	1415	1641.5	1642	2	19	4	Simple 2(f)
	606	1642	1642.4	2	41	20	Complex
	1415	1700	Indet.	59			Fluctuations
	606	1700	Indet.	59			Fluctuations
29	8800	1805	1823	55	6	3	Simple 3
	2695	1800	1803	25	11	5	Simple 3
	1415	1800	1804	180	6	3	Simple 3
	606	1800	1804	20	2		Fluctuations
Feb.							
2	1415	1512	1515	37	8	4	Simple 3
	606	1512	1520	37	5	3	Simple 3
	606	1553	1537	8	5	2	Simple 3
3	606	1516.4	1516.5	1	78		Simple 2
5	1415	1319	1354	101	2	1	Simple 3
	606	1403	Indet.	56	5		Fluctuations
	1415	1522.3	1522.4	0.4	7.4	2	Simple (1)
	606	1522.3	1522.4	0.4	16	4	Simple 2
	1415	1813	Indet.	200	> 5.6	2	Simple 3
	606	1813	Indet.	200	> 1.2	0.5	Simple 3
	606	2110.9	2111	0.2	1.5	0.5	Simple (1)
8	606	1246.5	1246.6	0.7	60	15	Complex
	606	1821.8	1822	0.5	2.5	0.6	Group
	606	2131.9	2132	0.9	2.6	0.4	Fluctuations
9	1415	1450.2	1450.4	0.4	6	2	Simple (1)
	606	1450.2	1450.4	0.6	8	2	Simple 2
	1415	1534.9	1535	0.8	8	4	Simple (1)
	606	1534.9	1535	0.8	18	5	Simple 2
10	1415	1637.25	Indet.	2	0.8		Fluctuations
	606	1637.2	Indet.	2	2.8		Fluctuations
11	606	1906.3	1906.35	0.3	8.0	1.5	Simple 2
	606	2042.2	2042.2	2.0	5.0		Group
12	1415	1318.3	1318.3	0.1	7.0	2.0	Simple 2
	1415	1319.1	1319.15	0.2	8.0	2.0	Simple 2
	1415	1417.2	1417.25	0.1	25	3.0	Simple 2
	606	1414	Indet.	44	7.2		Fluctuations
	1415	2041.8	2042	0.3	9.0	3.5	Simple 1
	606	2041.8	2042	0.3	4.0	1.5	Simple 1

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1966

AFCRL - SAGAMORE HILL — 8800, 2700, 1415, 606 Mc/s

Mar. 1966	FREQ.	STARTING TIME UT	TIME OF MAX UT	DURATION MINUTES	FLUX DENSITY $10\text{-}22_{wm^2}$ (c/s)-1 PEAK	FLUX DENSITY MEAN	TYPE
18	606	1428.8	1428.9	1.5	6.5		Fluctuations
	8800	1713	1754	62.0	10.0	5.0	Simple 3
	2695	1719	1720	2.0	1.9	0.7	Simple 1
	2695	1721	1727.5	20.0	5.3	1.9	Absorption
	1415	1723	1723.8	1.3	5.0		Fluctuations
	606	1723	1723.6	1.3	28.0		Fluctuations
	8800	1752	1754	5.0	42.0	20.0	Complex
	1415	1752	1753.8	5.0	1.6	Indet.	Simple (1)
	606	1752	1754.0	5.0	2.2	Indet.	Simple (1)
	2695	1819.5	Indet.	9.0	9.0	4.0	Complex
	2695	1855	1916	45.0	10.0	3.0	Complex
	8800	1905.2	1905.4	0.6	14.0	4.0	Simple 2
	1415	1905	1914	17.0	8.0	Indet.	Fluctuations
	606	1856	1912	38.0	30.0	Indet.	Group
19	8800	1356	1401	7.0	112.0	50.0	Complex
	2695	1356	1401	14.0	51.0	25.0	Complex
	1415	1356	1400	9.0	76.0	25.0	Complex
	606	1356	1359.7	9.0	378.0	30.0	Complex
	8800	1350.2	1350.5	9.6	9.0	3.0	Simple 2
	8800	1403	1403	15.0	20.0	6.0	Post Burst Inc.
	8800	1423	1424	7.0	6.0	2.0	Simple 1
	2695	1420	1426	20.0	8.0	5.0	Simple 3
	1415	1423	1424	27.0	30.0		Fluctuations
	606	1419	1424	21.0	36		Fluctuations
	2695	1910	1947		4.6	Indet.	Fluctuations
	1415	1946	1946.3	3.0	0.6	0.2	Simple 1
	606	1735	2143	300	17.1	Indet.	Fluctuations
	1415	2142	2158	50	27.5	Indet.	Fluctuations
20	8800	1410.4	1410.8	1.1	10	3	Simple 2
	8800	1524	1539	46	16	5	Simple 3
	8800	1755	1801.5	12	70	20	Simple 2
	2695	1758.3	1801.6	9.0	344.0	40.0	Complex
	1415	1758.5	1801.7	13.5	106.0	30.0	Simple 2
	606	1759	1801.4	11.0	387.0	Indet.	Complex
	8800	1807	Indet.	47.0	6.0	3.0	Absorption
	2695	1807	1818	43.0	8.0	5.5	Absorption
	8800	1852	1857.5	5.5	14.0	8.0	Precursor
	8800	1857	1858.2	3.5	30.0	7.0	Simple 2
	1415	1850	1852.8	15.0	13.2	6.0	Simple 3
	606	1838	1858.3	24.0	7.1		Fluctuations
	8800	1959	2003.8	6.0	91.0	45.0	Complex
	8800	2006	2006	18.0	20.0	10.0	Post Burst Inc.
	2695	2001.5	2002.5	5.0	13.5	3.0	Complex
	2695	2006	2006	15.0	4.0	2.0	Post Burst Inc.
	1415	2001	2002.3	5.0	22.0	6.0	Complex
	606	2000.7	2004.5	5.0	373.0	15.0	Complex
	606	2010	2010.8	14.0	395.0		Group
21	2695	1415	1425	20.0	3.8	1.9	Simple 3
	8800	1505	1508	23.0	29.6	4.0	Simple 3
	2695	1505.5	1507	21.0	27.0	6.0	Complex
	1415	1505.3	1507.3	10.0	4.3	2.0	Simple 3
	606	1505.5	1507.0	10.0	4.8		Group
	8800	1542	1543.6	21.0	59.0	15.0	Complex
	1415	1546	1547.1	4.0	34.0	3.0	Complex
	8800	1616.6	1617.1	5.5	12.0	Indet.	Complex
	2695	1616.6	1617.4	9.0	18.0	2.0	Complex
	1415	1616.3	1617.3	7.0	10.7	4.0	Simple 2
	606	1615.5	1617.7	3.5	103.0	Indet.	Group
	8800	1820.5	1821.5	6.5	28.9	12.0	Complex
	2695	1821.5	1822.9	4.5	7.5	3.0	Complex
	1415	1824.5	1824.8	1.5	71.0	15.0	Complex
	8800	1827	1827	20.0	10.0	5.0	Post Burst Inc.
	2695	1826	1826	69.0	7.5	3.7	Post Burst Inc.
	606	1832.1	1833.1	1.5	2.1	1.0	Fluctuations
	1415	2151	2158.3	9.0	40.2	12.0	Complex
	606	2151	2158.7	16.0	279.0	30.0	Complex
	1415	2220.4	2220.5	12.0	31.0		Group
	606	2220.5	2223.5	12.0	37.4	Indet.	Group
	606	2246.7	2248.3	3.5	86.2	Indet.	Complex

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

FEBRUARY – MARCH 1966

AFCRL-SAGAMORE HILL — **8800, 2700, 1415, 606 Mc/s**

Feb. 1966	FREQ.	STARTING TIME UT	TIME OF MAX. UT	DURATION MINUTES	FLUX DENSITY $10\text{-}22_{wm}\text{-}2$ (C/S)-1 PEAK	FLUX DENSITY MEAN	TYPE
14	606	1609.8	1609.9	0.2	3	2	Simple 1
16	2695	1354	Indet.	70	6	1.5	Simple 3
19	606	1427.3	1427.35	0.3	13	5.0	Simple 2
26	606	1436	1437.0	1.5	6.4		Fluctuations
Mar.							
10	1415	1602	1602.2	0.5	3.2	1.0	Complex
	606	1602.1	1602.3	0.8	2.7	1.0	Complex
13	1415	1451.7	1451.9	0.3	11.5	5	Simple 2
	606	1450.1	1450.2	1.9	5.0		Group
15	8800	1315.2	1317.5	10.8	13.5	3	Simple 3
	2695	1315.2	1316.0	10.8	16.1	4	Simple 3
	1415	1315.6	1315.7	0.5	35.2	10	Simple 2
	1415	1316.1	1316.1	10.0	8.0	3.0	Post Burst Inc.
	606	1315.6	1315.7	1.4	40.7		Group
	2695	1538.8	1540.6	8.0	9.7	4.0	Simple 3
	1415	1539.4	1540.1	8.0	10.1	3.0	Simple 3
	606	1539.3	1539.4	8.0	6.6		Group
	8800	1636.7	1637.3	23.0	15.0	3.0	Complex
	2695	1636.3	1637	32	365.0	30.0	Complex
	1415	1636.3	1637.7	20	49.9	10	Complex
	606	1636.3	1637.4	18	51.0	10	Complex
16	8800	1311.5	1311.9	4.5	24.7	3	Simple 2
	2695	1312	1212.05	3.0	9.4		Simple 2
	606	1312.2	1312.2	1.3	11.1		Simple 1
	8800	1510	1516.3	13	9.2	2	Simple 2
	2695	1513.5	1515.4	9.5	7.0	2	Simple 2
	1415	1514	1515.3	30	5.1	1	Simple 3
	606	1514.2	1515.2	1.0	55.8		Group
	8800	1528.3	1528.8	6.7	9.1	1.0	Simple 2
	2695	1528.3	1529	3.7	2.4	0.7	Simple 1
	1415	1528.1	1528.7	1.9	5.9	2.0	Simple 1
	606	1528.0	1528.8	2.7	4.0	1.5	Simple 1
	8800	1615.5	1626.0	20.5	98.7		Complex
	2695	1611	1626.0	15.0	106.6	Index	Complex
	1415	1615.5	1617.15	3.5	7.2	2.0	Complex
	1415	1624.9	1626.9	5.1	224.0	30.0	Complex
	606	1625.0	1626.8	6.0	186.0	20	Complex
	8800	1921.2	1923.0	25.8	108.0	7	Complex
	2695	1921.2	1923	25.75	89.0	7	Complex
	1415	1920.9	1922.9	9.15	351.0	34	Complex
	1415	1936.2	1936.6	3.05	10.4	2.9	Simple 2
	606	1921.5	1923.0	8.45	123.0	26	Complex
	606	1936.2	1936.6	1.16	5.2	0.5	Simple 1
	1415	2150.3	2150.8	2.0	9.0	2.6	Simple 2
	606	2150.2	2150.5	5.0	14.2	2.9	Complex
17	8800	1148.5	1149.2	2.4	9.3	4.6	Simple 2
	2695	1148.5	1149.2	2.4	4.6	1.7	Simple 1
	8800	1211.0	1214.0	35.0	225.0		Complex
	1415	1211.8	1211.9	11.0	87.0		Complex
	606	1211.7	1212.2	9.75	144.0		Complex
	1415	1732	1735	38.0	42		Group
	606	1732	1753	41.0	14.0		Group
	8800	1745	1754	24.0	75.0	30.0	Complex
	2695	1745	1754	21.0	22.0	15.0	Complex
	8800	1806	1806	24.0	12.0	6.0	Post Burst Inc.
	2695	1807	1807	23.0	5.5	2.0	Post Burst Inc.
	8800	1855	1923	50.0	11.0	5.0	Simple 3
	8800	1922	1923	1.5	26.0	15.0	Simple 2
	2695	1915	1917	9.0	4.0	2.0	Simple 3
	1415	2146	2150	6.0	43.0	6.0	Complex
	606	2146	2150	6.0	213.0	10.0	Complex

SOLAR RADIO EMISSION
OUTSTANDING OCCURENCES

MARCH 1966

AFCRL-SAGAMORE HILL — 8800, 2700, 1415, 606 Mc/s

MARCH	FREQ	STARTING TIME UT	TIME OF MAX UT	DURATION MINUTES	FLUX DENSITY 10-22 -2 (C/S)-1 PEAK	FLUX DENSITY 10-22 -2 (C/S)-1 MEAN	TYPE
22	1415	1114+	1120.4	>26	10.0		Fluctuations
	606	1114+	1120.6	>46	28.0		Fluctuations
	8800	1408.0	1409.2	2.0	20.0	6.0	Simple 2
	8800	1410.0	1410.0	12.0	6.0	2.0	Post Burst Inc.
	2695	1406	1409.5	6.0	16.5	9.0	Complex
	2695	1412	1412	7.0	3.0	1.4	Post Burst Inc.
	1415	1406.3	1408	7.0	6.0	3.0	Simple 3
	1415	1409	1409.4	2.0	26.0	7.0	Complex
	606	1406.7	1707.7	7.0	229.0		Group
	8800	1813.7	1820.2	14.0	24.0	6.0	Complex
	2695	1813	1821.2	29.0	18.0	4.0	Complex
	1415	1814.8	1818.8	15.0	70.0	16.0	Complex
	606	1811.9	1819.9	15.0	90.0	15.0	Complex
23	606	1045	2120	720.0	63.0		Fluctuations
	2695	1152.2	1156.5	34.0	16.0	4.0	Simple 3
	1415	1151.4	1156.2	11.5	4.8	2.0	Simple 3
	2695	1331	1332	3.0	8.2	3.0	Simple 2
	1415	1331.9	1332.1	2.8	4.8	2.0	Simple (1)
	2695	1441.2	1442.4	14.0	7.3	4.0	Simple 3
	2695	1534.0	1552.5	43.0	5.7	2.4	Simple 3
	1415	2109	2118	15.0	7.4		Group
24	8800	1755	1757	8.0	8.0	3.0	Simple 3
	2695	1720	1757	135.0	6.0	3.0	Simple 3
	8800	1915.4	1916.0	1.0	36.0	5.0	Simple 2
	1415	1915.5	1915.8	0.3	270.0	50.0	Complex
	606	1915.3	1916	2.0	602.0	100.0	Complex
	8800	1956.0	1956.2	1.0	40.0	8.0	Simple 2
25	606	1230	Indet.	138.0	7.0		Fluctuations
	8800	1314	1316.5	4.0	22.0	5.0	Simple 2
	2695	1314	1316.5	2.0	0.0	4.0	Simple 2
	1415	1315	1316.4	3.0	14.0	6.0	Simple 2
	606	1315	1316.3	2.0	>636.0	60.0	Complex
	606	1319	Indet.	9.0	5.0		Fluctuations
	8800	1344	1345.7	3.0	44.0	15.0	Complex
	2695	1344	1344.7	3.0	5.2	2.5	Simple (1)
	1415	1345.8	1345.9	0.2	5.0	1.0	Simple 2
	606	1345.9	1346.0	0.2	31.0	5.0	Simple (1)
	8800	1533	1536.6	10.1	6.0	2.5	Simple 1
	2695	1532	1536.6	6.5	7.0	2.0	Complex
	1415	1532	1536.6	10.0	4.0	2.0	Simple (1)
	606	1535.2	1543.5	13.0	8.5		Complex
26	2695	1225	1238	25.0	4.0	1.5	Simple 3
	8800	1850	1853.1	7.0	13.2	3.0	Simple 2
	2695	1845	1851	24.0	17.2	3.0	Complex
	1415	1850	1853	7.0	1.6	0.7	Simple 2
	606	1851.9	1854.7	3.0	6.5		Fluctuations
27	2695	1254	1319.5	43.0	5.0	2.0	Simple 3
	1415	1303	1319.7	55.0	6.1	2.0	Simple 3
	606	1308.5	1320.6	16.0	9.2		Fluctuations
28	2695	1415	1503.3	105.0	8.8		Fluctuations
	1415	1457.8	1502.8	12.2	6.9	Indet.	Complex
	606	1456	1503.3	20.0	8.8	Indet.	Complex
	8800	1909.6	1914.6	10.5	72.0	20.0	Complex
	2695	1911.2	1916	12.0	37.0	15.0	Complex
	1415	1911.7	1913.1	5.1	26.7	10.0	Complex
	606	1911	1920	13.0	4.9	2.4	Simple 3
	8800	1920	1920	75.0	12.0		Post Burst Inc.
	2695	1923	1923	UNCERTAIN			Post Burst Inc.
	1415	1916.5	1916.5	133.0	2.5		Post Burst Inc.
	606	1915.4	1915.5	0.4	124.0	12.0	Complex

SOLAR RADIO EMISSION
OUTSTANDING OCCURENCES

MARCH 1966

AFCRL–SAGAMORE HILL

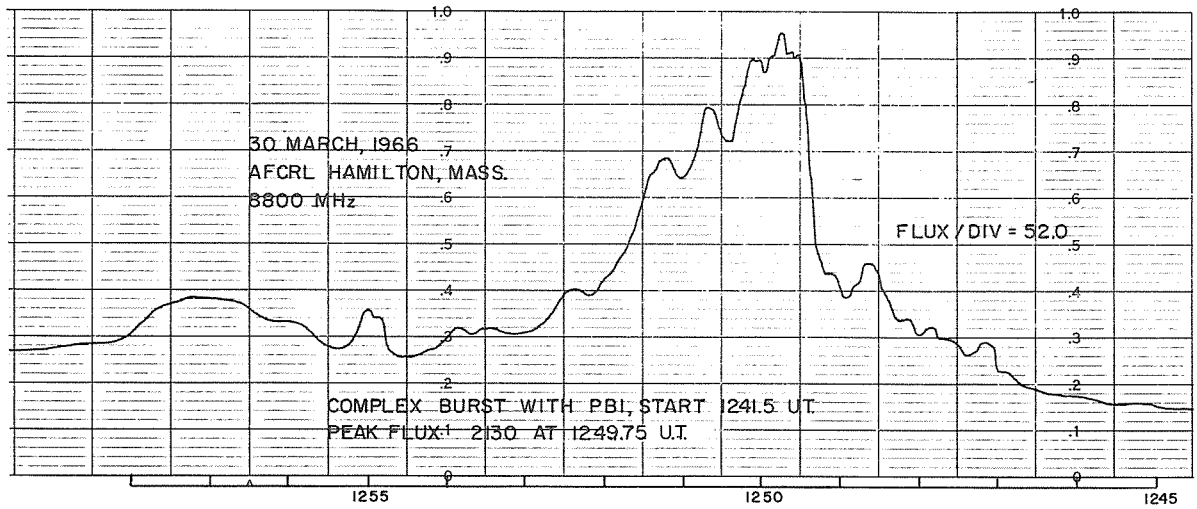
8800,2700,1415, 606 Mc/s

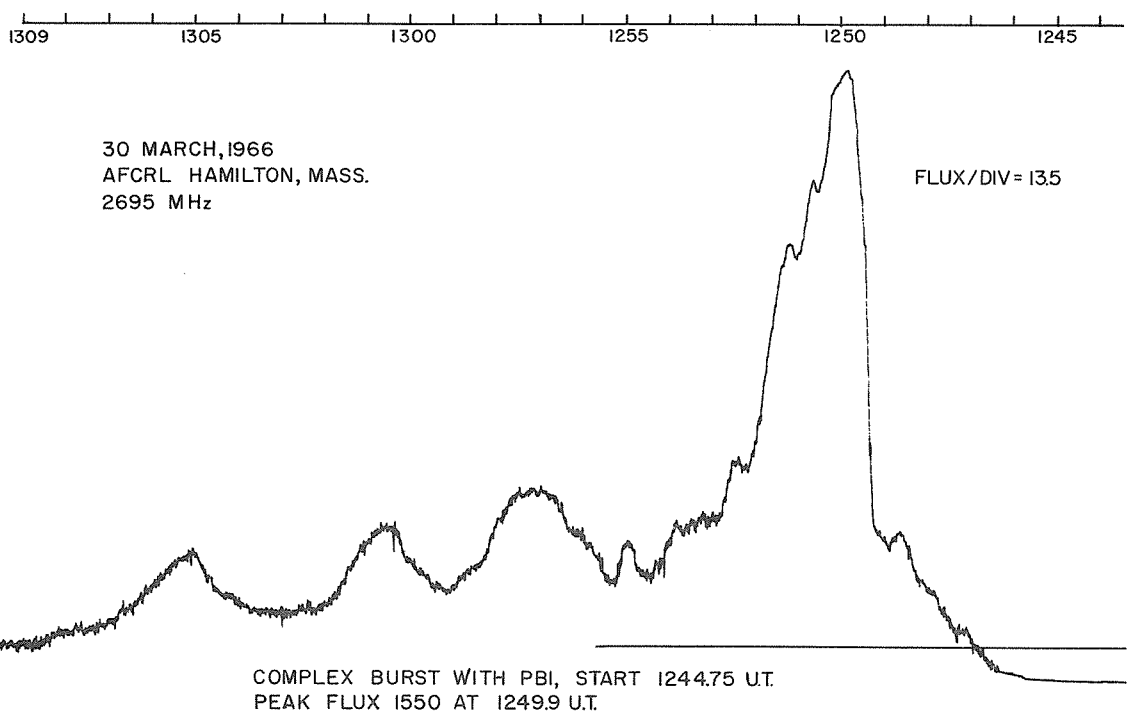
Mar. 1966	FREQ.	STARTING TIME UT	TIME OF MAX UT	DURATION MINUTES	FLUX DENSITY $10\text{-}22_{wm}2$ (c/s)-1 PEAK	FLUX DENSITY $10\text{-}22_{wm}2$ (c/s)-1 MEAN	TYPE
29	8800	1056	1056.75	34.0	485.0	50.0	Complex
	2695	1056	1057.0	51.0	270.0	30.0	Complex
	1415	1056	1104	8.5	187.0	40.0	Complex
	606	1057	1058.5	7.0	14.0	4.0	Complex
	606	1106.5	1107.3	3.5	29.0	7.0	Complex
	1415	1107.5	1108.8	2.5	6.5	1.5	Complex
	1415	1118.9	1120	4.1	24.0	8.0	Complex
	606	1118.5	1120	4.1	40.0	9.0	Complex
	2695	1147	1147	97.0	7.0	2.0	Post Burst Inc.
	2695	1506	1515	15.0	3.0	1.0	Simple 3
	8800	1524	1524.1	0.6	6.0	3.0	Simple (1)
	1415	1524	1525.0	2.0	7.7	3.0	Simple 2
	606	1524	1531	8.3	15.0	Indet.	Fluctuations
	2695	1525	1525.3	0.7	8.5	2.0	Simple 2
	8800	1737.5	Indet.	151.0			Simple 3
	2695	1741	1802.25	95.0	253.0		Complex
	8800	1744.6	1802.1	47.8	95.0	15.0	Complex
	1415	1746	1813	41.0	38.0		Fluctuations
	606	1746	1813	41.0	5.0		Fluctuations
	606	1827	1829.75	3.5	344.0	25.0	Complex
	1415	1827.5	1829.5	3.5	520.0	25.0	Complex
	1415	1836	1838.7	9.0	32.5	16.0	Complex
	606	1836	1839	9.0	195.0	110.0	Complex
	606	1854.6	1857.5	8.9	38.0	20.0	Simple 3(f)
	1415	1854.8	1858.4	8.7	1355.0	650.0	Complex
	1415	1904	1904	122.0	10.9		Post Burst Inc.
	606	1904	1904	21.0	9.0		Post Burst Inc.
	2695	1906	1906	?	116		Post Burst Inc.
30	8800	1241.5	1249.75	28.5	2130.0	200.0	Complex
	2695	1244.75	1249.9	25.25	1550.0	148.0	Complex
	1415	1245.67	1256.1	109.3	1550.0	50.0	Complex
	606	1248.6	1250.8	58.4	612.0	30.0	Complex
	8800	1310	1310	158	6.4	3.0	Post Burst Inc.
	2695	1310	1310	158.0	6.8	3.4	Post Burst Inc.
	606	1346	1346	100	5.3	2.5	Post Burst Inc.
	1415	1435	1435	73.0	6.5	3.0	Post Burst Inc.
	2695	1548	?	103.0	5.0		Fluctuations
31	606	1100	1505	680.0	56.0		Fluctuations
	8800	1850	1937	>100	45.0		Simple 3
	2695	1855	1933	>100	12.0		Simple 3
	8800	1901	1901.5	2.0	125.0	25.0	Simple 2
	2695	1901	1901.5	1.5	30.0	10.0	Simple 2
	606	2216.5	2217.6	4.0	6.5	1.5	Complex

+ = burst in progress during antenna-positioning
Peak flux is above pre-burst level

SELECTED SOLAR NOISE BURSTS
AFCRL SAGAMORE HILL

MARCH 1966





SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1966

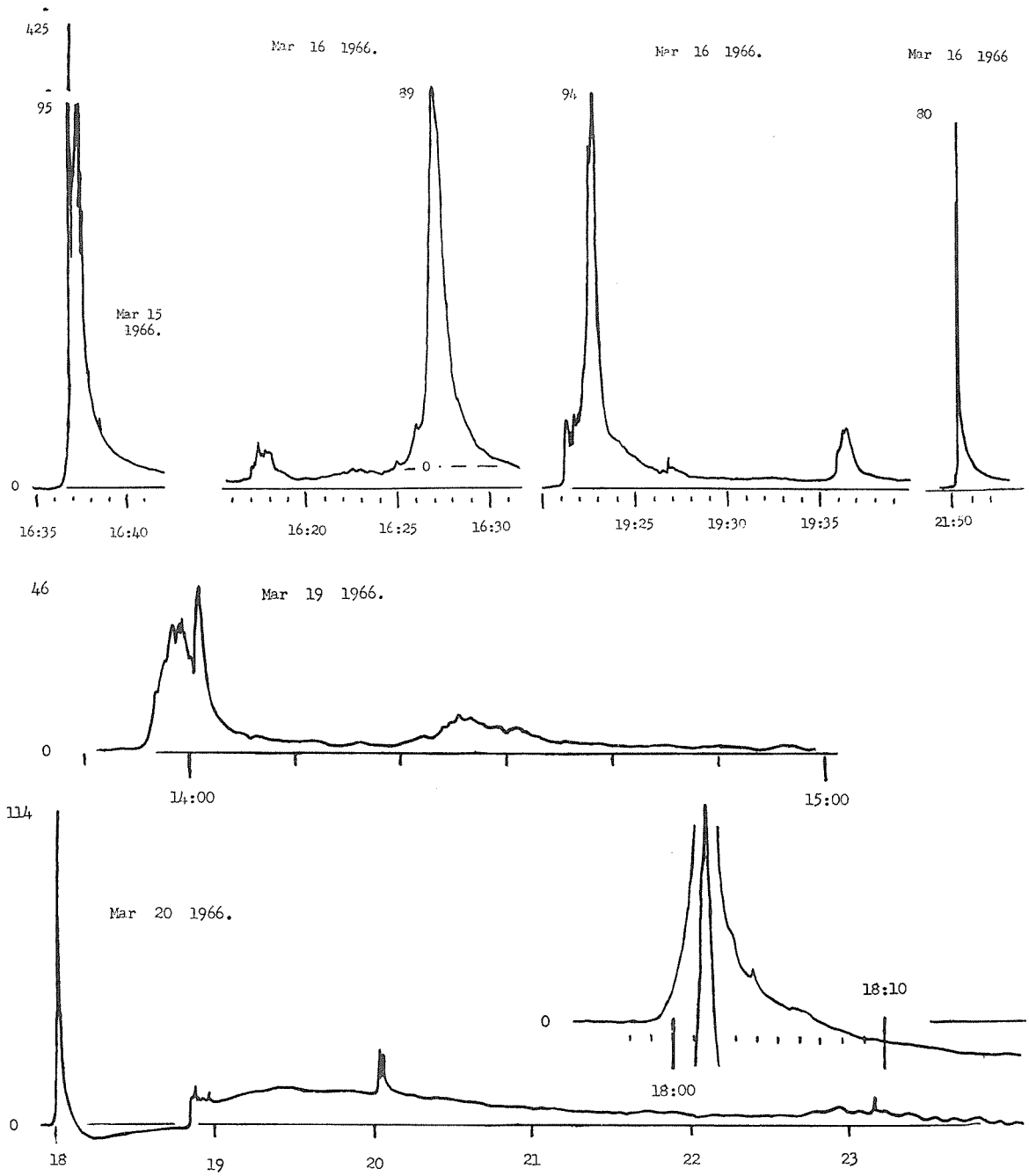
ARO - OTTAWA — 2800 Mc/s
DRAO - PENTICTON — 2700 Mc/s

1966	URANE	DESCRIPTIVE TYPE	START UT	DURATION HRS. MIN.	MEAN FLUX	MAXIMUM TIME	MAXIMUM FLUX	REMARKS
March								
15	3	simple 3AF	1310	15	1.5	1317	4.0	
	2	simple 2F	1315.7	0.5	6.0	1315.8	15.0	
	1	simple 1	1520.2	1.3	1.2	1520.5	2.4	
	1	simple 1	1539.5	1	3.2	1540	5.0	
	4	Post B.I.	1540.5	10	1.4	---	2.8	
	1	simple 1	1629	1.5	0.6	1629.3	1.2	
	2	simple 2F	1636.5	3	48.0*	1637.4	95.0	
	4	Post B.I.	1639.5	55	2.0	---	8.8	
	1	simple 1	1806.4	4	1.6	1806.8	3.2	
	3	simple 3A	1904	14	0.8	1906	1.6	
	1	simple 1	1907	0.5	1.1	1907.4	2.2	
	1	simple 1	1907.9	0.1	1.1	1907.9	2.2	
	3	simple 3AF	2005	30	0.7	2023	1.4	
	1	simple 1	2012.5	1.5	2.4	2013	4.8	
	3	simple 3A	2104	40	0.7	2108	1.4	
	1	simple 1F	2120	4	2.5	2121	5.0	
	7	fluctuations	2240	45	---	2259	4.0	
	1	simple 1	2331.9	1	1.2	2332.1	2.4	
16	2	simple 2	0108.5	0.8	6.5**	0108.8	13.0	
	6	complex	1514	10	3.0	1515.5	6.0	
		1st Compt.	1514	2.5	---	1515.5	6.0	
		2nd Compt.	1516.5	3.5	---	1517.5	3.6	
		3rd Compt.	1520	4	---	1522	2.2	
	1	simple 1F	1528	1.5	2.5	1528.8	5.0	
	3	simple 3A	1608	1 00	2.2	Indet.	4.4	
	1	simple 1F	1611.7	0.7	0.9	1612.2	1.8	
	2	simple 2F	1616.8	2.7	4.3	1617.3	8.6	
	2	simple 2	1624.7	8	16.0	1627	89.0	
	2	simple 2F	1921	7	20.0	1923	94.0	
	4	Post B.I. A	1928	22	0.9	---	1.8	
	2	simple 2	1936	2	6.0	1936.5	12.0	
	-	Rise A	2010	3 00	---	---	6.6	
	1	simple 1	2052	1	0.9	2052.5	1.8	
	1	simple 1	2130	2	2.9	2130.5	5.8	
	2	simple 2F	2150	3	8.0	2150.5	80.0	
	6	complex	2254	6	12.0	2256.5	37.0	
		1st compt.	2254	3	---	2256.5	37.0	
		2nd compt.	2257	3	---	2257.5	23.0	
	4	Post B.I. A	2300	20	1.0	---	2.0	
	1	simple 1	2306	2	0.7	2307	1.4	

IVk

SELECTED 2800,2700 Mc/s SOLAR NOISE BURSTS
ARO-OTTAWA, DRAO-PENTICTON

MARCH 1966



SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1966

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

1966	URANE	DESCRIPTIVE TYPE	START UT	DURATION HRS. MIN.	MEAN FLUX	MAXIMUM TIME	MAXIMUM FLUX	REMARKS
March								
19	3	simple 3A	2140	50	2.8	Indet.	5.6	
	1	simple 1F	2156	3	2.0	2157.5	3.6	
20	2	simple 2	1759.5	8	36.0	1801.5	114.0	
	5	Absorption	1807	43	-3.2	1817	-6.4	
	3	simple 3A	1850	6 10	6.3	1926	14.0	
	2	simple 2F	1850.7	11	6.5	1853	13.0	
	6	complex	2001.5	4	8.0	2002.5	14.0	
		1st compt.	2001.5	2	---	2002.5	14.0	
		2nd compt.	2003.5	2	---	2003.7	12.0	
	1	simple 1	2309	2	2.3	2309.5	4.6	
21	1	simple 1F	0115	6	6.0**	0117	7.2	
	incomplete burst		1424E	> 20	---	---	11.0***	
	2	simple 2F	1505	7	11.0	1507	30.0	
	4	Post B.I.	1512	18	4.3	---	8.6	
	3	simple 3A	1546	1 00	2.3	Indet.	4.6	
	1	simple 1	1546	1	1.0	1546.5	2.0	
	1	simple 1	1607.5	2	1.0	1608	2.0	
	2	simple 2F	1616.3	4	10.0	1617.2	26.0	
	6	complex	1821	5	4.5	1822.5	6.8	
		1st compt.	1821	3	---	1822.5	6.8	
		2nd compt.	1824	2	---	1825.2	5.2	
	4	Post B.I.	1826	1 00	1.1	---	2.2	
	1	simple 1	2023	1	2.5	2023.2	5.0	
	1	simple 1	2027	0.5	1.1	2027.2	2.2	
	3	simple 3AF	2151	27	2.9	2156	5.8	
	6	complex F	2157.5	3	6.0	2158.3	12.0	
		1st compt.	2157.5	2	---	2158.3	12.0	
		2nd compt.	2159.5	1	---	2259.7	11.0	
	2	simple 2	2220	1	3.5	2220.5	7.0	
	3	simple 3A	2221	1 50	8.0	2258	12.0	
	1	simple 1	2227	1	1.8	2227.5	3.6	
	2	simple 2F	2230.5	3	11.0	2231.5	33.0	
	6	complex	2246	4	2.2	2248.5	5.6	
		1st compt.	2246	2	---	2247.5	3.2	
		2nd compt.	2248	2	---	2248.5	5.6	
	1	simple 1	2303.8	2	1.0	2304	2.0	
22	3	simple 3A	1810	45	2.0	Indet.	5.2	
	2	simple 2F	1818	4	4.0	1820.2	13.0	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1966

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

1966	URANE	DESCRIPTIVE TYPE	START UT	DURATION HRS. MIN.	MEAN FLUX	MAXIMUM TIME	MAXIMUM FLUX	REMARKS
March								
23	1	simple 1F	1330	4	2.2	1332	6.8	
	1	simple 1F	1441.5	4.5	2.8	1442.2	5.8	
	4	Post B.I. A	1446	12	1.1	---	2.2	
	1	simple 1	1453	3	0.9	1454	1.8	
	1	simple 1	1512	1	0.5	1512.5	1.0	
	3	simple 3A	1850	4 50	3.6	Indet.	7.2	
		1st compt.	1850	1 50	---	2005	7.2	
		2nd compt.	2045	1 40	---	2115	6.0	
		3rd compt.	2230	1 20	---	2255	6.0	
	7	Fluct.	2106	24	---	2114	5.0	
	7	Fluct.	2240	22	---	Indet.	2.4	
	2	simple 2F	2251	3	10.0	2251.5	20.0	
24	1	simple 1F	0045	2	1.6	0046	3.2	
	3	simple 3A	1730	2 00	1.4	Indet.	2.8	
	7	Fluct.	1736	24	---	1800	1.4	
	1	simple 1	1915.5	1	0.4	1916	0.8	
	1	simple 1	1956	1	0.7	1956.5	1.4	
	1	simple 1F	2303	3	0.9	2304	1.8	
25	1	simple 1	0040	2	1.5	0041	3.0	
	1	simple 1F	0108	1	1.8	0108.5	3.6	
	2	simple 2	1314	4	4.0	1316.5	11.0	
	1	simple 1	1344	3	1.8	1345.5	3.6	
	1	simple 1F	1534	5	2.4	1536.5	5.2	
	1	simple 1F	2051.8	3	0.8	2053	1.6	
	6	complex	2232	2	2.5	2233	7.0	
		1st compt.	2232	1	---	2232.5	2.4	
		2nd compt.	2233	1	---	2233	7.0	
26	1	simple 1	0021	3	1.6	0022	2.6	
	1	simple 1	0126.5	1.5	0.9	0127	1.8	
	1	simple 1	1231	1	1.1	1231.5	2.2	
	1	simple 1	1249.5	1	1. 1	1250	2.2	
	3	simple 3A	1752	1 20	1.2	1754	1.6	
	2	simple 2F	1849.5	5	5.5	1851	11.0	
	7	Fluct.	2014	22	---	2020	2.2	
	1	simple 1	2243.5	1.5	0.6	2244	1.2	
27	1	simple 1	1319	1.5	1.5	1319.5	3.0	
	1	simple 1	1924	1	1.1	1924.5	2.2	
	3	simple 3	2117	13	1.0	2123	2.0	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1966

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

1966	URANE	DESCRIPTIVE TYPE	START UT	DURATION HRS. MIN.	MEAN FLUX	MAXIMUM TIME	MAXIMUM FLUX	REMARKS
March								
28	3	simple 3F	1500	30	1.5	1503.5	3.0	
	2	simple 2F	1911.5	13	10.0	1914.2	34.0	
	4	Post B.I. A	1924.5	2 35	2.8	---	5.0	
	7	Fluct.	1939	4	---	1942	9.0	
	1	simple 1	2230	1	0.7	2230.5	1.4	
	6	complex F	2358	14	32.0	0004.5	140.0	
		1st Compt.	2358	5	---	0001	50.0	
29		2nd Compt.	0003	3	---	0004.5	140.0	
		3rd Compt.	0006	6	---	0007	63.0	
	4	Post B.I. A	0011	>1 35	---	---	6.4	
	2	simple 2F	0020	6	7.0	0023.5	14.0	
	2	simple 2	0108	0.6	20.0	0108.2	40.0	
	3	simple 3F	0118	> 30	---	Indet.	12.0	
	3	simple 3	1338	12	1.5	1344	3.8	
	3	simple 3A	1506	30	1.4	Indet.	2.2	
	1	simple 1	1525	0.5	3.3	1525.2	6.6	
	-	Rise	1550	30	---	---	4.6	
	6	complex F	1744	51	32.0	1750.5	110.0	
		1st Compt.	1744	16	---	1750.5	35.0	
		2nd Compt.	1800	35	---	1802	110.0	
	4	Post B.I. A	1835	3 30	4.0	---	8.0	
	2	simple 2	1836	10	7.0	1838	17.0	
	2	simple 2F	1852	16	6.0	1859	22.0	
	1	simple 1	2220	3	1.1	2222	2.2	
30	6	complex F	1248E	>1 10	---	1250	500.0***	
	4	Post B.I.	1400	2 05	5.7	---	14.0	
	3	simple 3	1717	48	1.5	1719	2.2	
	5	Absorption	1810	1 45	-3.0	1917	-6.0	
	3	simple 3F	1955	2 25	4.4	2045	8.8	
	3	simple 3	2255	1 25	2.0	Indet.	2.6	
31	1	simple 1	0113	1	3.5	0113.5	7.0	
	-	Rise	1550	25	---	---	3.2	
	1	simple 1	1616	1	0.5	1616.5	1.0	
	1	simple 1	1811	2	0.6	1812	1.2	
	3	simple 3A	1853	3 40	6.0	1925	12.0	
	2	simple 2F	1901	2	12.0	1901.4	24.0	
	2	simple 2	2341	5	4.0	2343.5	12.0	

* Fluctuation is 370 Unit Burst starting at 1636.5 and ending at 1637.
** In sunset oscillations.

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1966

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

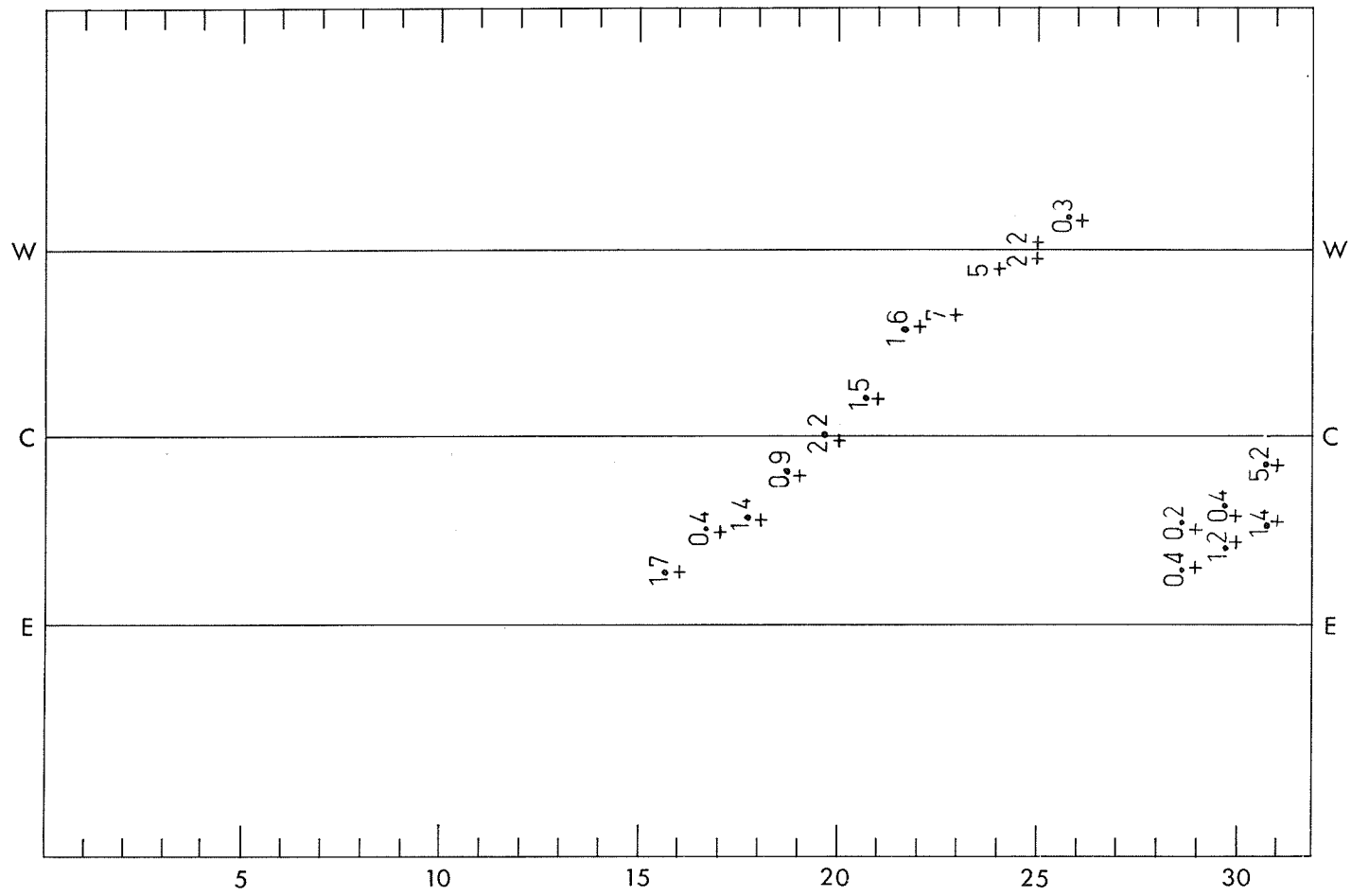
1966	URANE	DESCRIPTIVE TYPE	START UT	DURATION HRS. MIN.	MEAN FLUX	MAXIMUM TIME	MAXIMUM FLUX	REMARKS
March 17	-	Fall	1300	3 00	---	---	5.0	
	3	simple 3A	1630	1 00	2.6	Indet.	5.2	
	6	complex F	1647	5.5	22.0	1647.5	40.0	
		1st compt.	1647	1.5	---	1647.5	40.0	
		2nd compt.	1648.5	4	---	1649.5	28.0	
	3	simple 3A	1745	1 10	2.6	1810	5.2	
	6	complex F	1745	7	4.1	1749	15.6	
		1st compt.	1745	3	---	1746.5	6.8	
		2nd compt.	1748	4	---	1749	15.6	
	6	complex	1753	3	4.1	1753.5	8.2	
		1st compt.	1753	1	---	1753.5	8.2	
		2nd compt.	1754	2	---	1754.5	7.8	
	6	complex	1759	7	6.0	1801	21.0	
		1st compt.	1759	1	---	1759.5	5.2	
		2nd compt.	1800	3	---	1801	21.0	
		3rd compt.	1803	1	---	1803.5	12.6	
		4th compt.	1804	2	---	1805	3.8	
	3	simple 3A	1900	45	1.2	1919	2.4	
	1	simple 1F	1922.8	1.2	0.8	1923.5	2.2	
	3	simple 3A	2030	55	1.2	2110	2.4	
	1	simple 1	2040	3	0.7	2042	1.4	
	2	simple 2F	2146	6	8.0	2149	15.0	
	4	Post B.I.	2152	1 00	1.3	---	3.6	
18	1	simple 1	0014.5	1.5	1.1	0014	2.2	
	3	simple 3A	1320	1 25	3.0	1400	6.0	
	1	simple 1	1325	1	0.9	1325.5	1.8	
	1	simple 1	1753.5	1	0.3	1754	0.6	
	1	simple 1	1756	1	0.9	1756.5	1.8	
	3	simple 3A	1902	3 00	0.3	2100	6.0	
	1	simple 1	1905	1	2.2	1905.3	4.4	
	6	complex F	2347	9	8.0	2349.5	54.0	
		1st compt.	2347	1.5	---	2347.4	3.2	
		2nd compt.	2348.5	3	---	2349.5	54.0	
		3rd compt.	2351.5	4.5	---	2354	11.0	
19	1	simple 1	0042	2	1.0	0043	2.0	
	3	simple 3A	1355	2 45	2.2	1540	3.8	
	2	simple 2F	1356	10	19.0	1401	46.0	
	2	simple 2F	1419	17	4.2	1426	8.4	
	3	simple 3	1745	50	1.1	1805	2.2	
	3	simple 3	1940	20	1.6	1948	3.2	
	1	simple 1	2044	4	3.2	2045.5	7.4	

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

MARCH 1966

NANÇAY

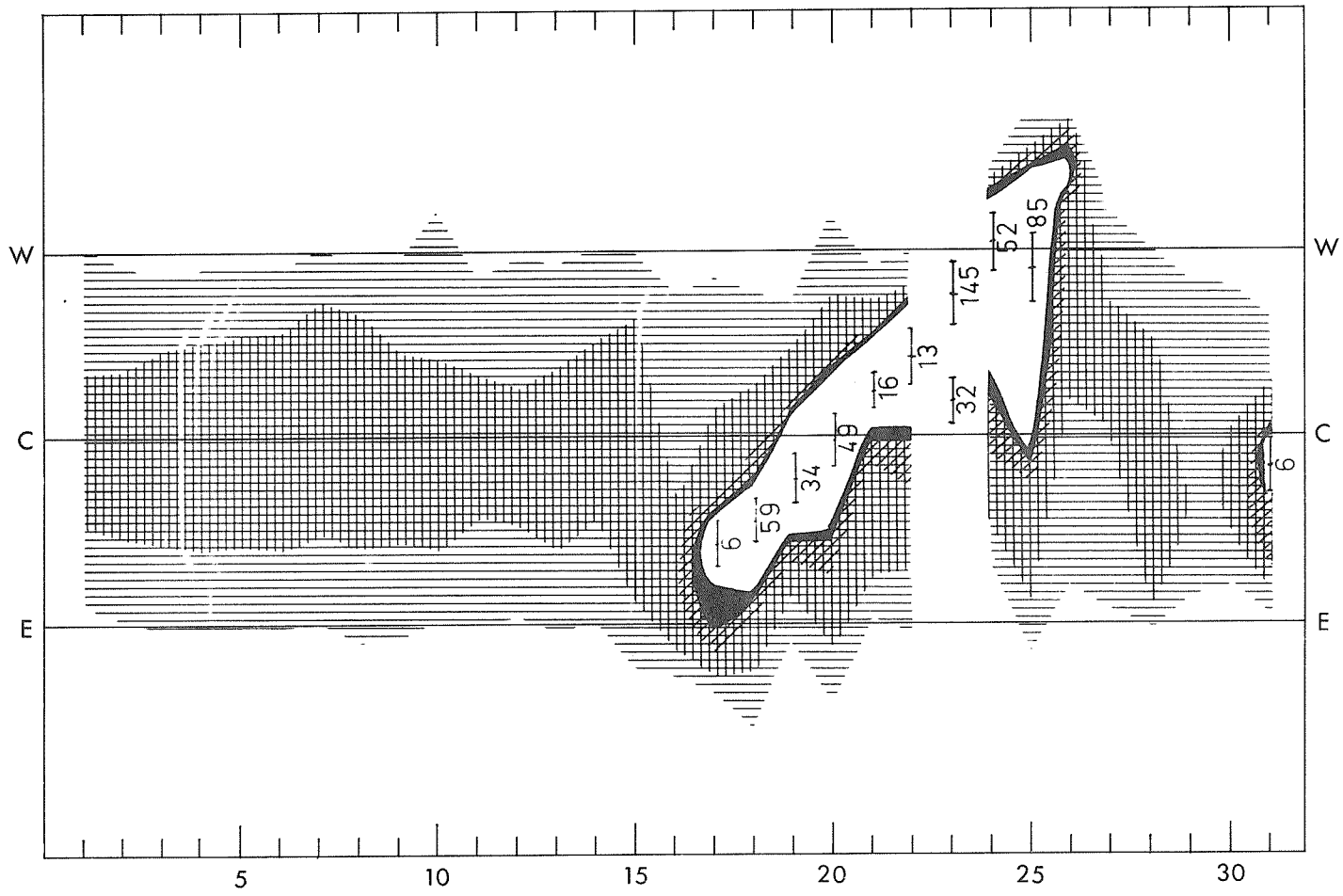
408 Mc/s



MARCH 1966

SOLAR RADIO EMISSION
INTERFEROMETRIC OBSERVATIONS

NANÇAY MARCH 1966 169 Mc/s



MARCH 1966

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1966

ESSA BOULDER

108 Mc/s

March 1966	TYPE	START UT	TIME OF MAXIMUM UT	DURATION MINUTES	INTENSITY
15	8	2120	2121.5	3.2	3
16	3	1515	1518	4.5	2
	3	1528.5	1528.8	1.0	3
	3	1621	1622.5	3.0	3
	8	1921	1922	4.0	3
	8	2255	2258	4.5	3
17	6	1314E	2247	701D	2
	2	1640	1647	22	3
	2	1745	1754	25	3
	8	2040	2041	5	3
	2	2140	2150	15	3
18	2	1342	1412	90	3
	3	1553	1555	2.5	3
	3	1826	1827	1.8	3
	2	1850	1907	50	3
	2	2053	2058	11	3
	9A	2344	2349	11	3
	9B	2351	0015	49	2
19	9A	1422	1427	12	3
	9B	1433	1443	27	2
	8	1605	1608	7.8	3
	7	1806	2013	160	2
	2	2128	2207	47	3

March 1966	TYPE	START UT	TIME OF MAXIMUM UT	DURATION MINUTES	INTENSITY
20	6	1309E	1400	708D	3
21	6	1307E	1940	711D	3
	3	1416	1416	1.1	3
	2	2144	2154	22	3
22	9A	1813	1820	10	3
	9B	1823	1828	47	2
	7	2325	0031	83D	3
23	6	1304E	1355	716D	3
24	6	1303E	1338	718D	1
25	6	1301E	1515	721D	3
26	3	1848	1850	3.7	3
27	3	1531	1532	3.2	3
29	8	0008	0009	22	2
	8	1800	1829	37	2
30	9A	1248	1254	11	3
	9B	1300	1327	45	2

NOMINAL TIMES OF OBSERVATION

MARCH 1966

ESSA BOULDER

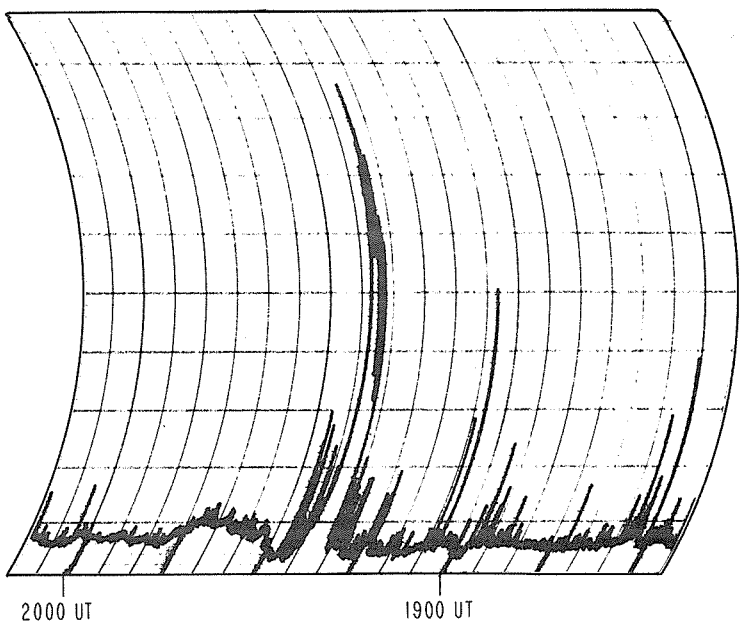
108 Mc/s

March 1966	HOURS OF OBSERVATION U.T.	HOURS OF INTERFERENCE U.T.		HOURS OF OBSERVATION U.T.	HOURS OF INTERFERENCE U.T.
1	1339-0037		17	1314-0055	
2	1337-0038		18	1312-0055	
3	1336-0039		19	1311-0056	
4	1334-0040		20	1309-0057	
5	1333-0041		21	1307-0058	
6	1331-0042		22	1306-0059	
7	1330-0043		23	1304-0100	
8	1328-0044		24	1303-0101	
9	1327-0045		25	1301-0102	
10	1325-0046		26	1259-0103	
11	1324-0047		27	1258-0104	
12	1322-0049		28	1256-0105	
13	1320-0050		29	1254-0106	
14	1319-0051		30	1253-0107	
15	1317-0052		31	1251-0108	
16	1316-0053				

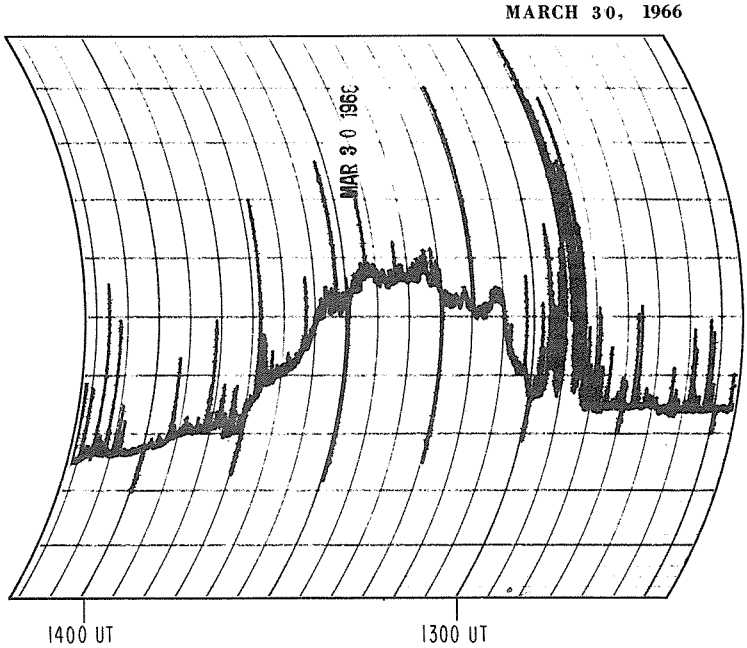
SOLAR NOISE BURSTS

BOULDER - 108 Mc/s

MARCH 16, 1966



MARCH 30, 1966



SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MARCH 1966

UNIVERSITY OF COLORADO

7.6-41 Mc/s

Date Mar 1966	Bursts				Date Mar 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)		Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
1	no observ.	2230-2400			16	III	1615-1619:30	2	12-41
2	III	1515-1515:30	1	29-38		IV	1621:30-1800	3	20-41
3	III	1617:15-1617:30	2	20-41		III	1625:30-1630	3	10-41
6	no observ.	1200-1543				III	1921:45-1924:30	3	16-41
12	III	2340:30-2341	1	24-41		IV	1920:45-2059	3	8-41
13	III	1336-1336:15	1-	31-41		III	2157:45-2202:30	2	10-41
	III	1337:30-1338	1-	32-41		III	2254:45-2259:15	3	12-41
	III	1339:45-1340	1-	29-41		IV	2254:45-a2400	3	22-41
	III	1431:45-1432	1-	24-36	17	continuum	b0000-a0040	1	20-41
	III	1526-1526:15	1-	23-32		IV	b0000-0025	3	22-41
	III	1536:15-1536:45	1-	24-41		continuum	b1310-a2400	2	16-41
	III	1554:15-1554:30	1-	23-30		III	1700-1701:30	3	10-41
	III	1555:15-1555:30	1-	25-30		III	1934:30-1938:30	3	10-41
	III	1556:15-1556:30	1-	26-34	18	continuum	b0000-a0040	2	16-41
	III	1620:15-1620:30	1-	25-41		continuum	b1301-a2400	2	20-41
	III	1644-1644:15	1-	27-41		III	1553-1557:15	3	11-41
	III	1707-1707:30	1-	24-41		III	2346:45-2348	2+	16-41
	III	1720:15-1721:30	1-	25-41		III	2348:45-2350:45	3	16-41
	III	1725:45-1726:15	1-	24-36	19	continuum	b0000-a0050	2	20-41
	III	1729:30-1729:45	1-	30-41		II	0006-0010	3	30-41
	III	1732-1732:15	1-	34-41		continuum	b1304:45-a2400	3	16-41
	III	1732:30-1732:45	1-	28-35	20	continuum	b0000-a0058	3	16-41
	III	1739:15-1739:45	1	24-41		continuum	b1302-a2400	3	16-41
	III	1758:30-1759	1-	27-31		III	1744:30-1745:15	2+	10-41
	III	1850:45-1851:15	1-	26-41		III	1857:45-1859:45	3	11-41
	III	1928:30-1929:45	1-	30-41		III	1948-1949:15	3	11-41
	III	1931:15-1931:30	1	25-36	21	continuum	b0000-a0051:30	3	16-41
	III	2141:15-2141:45	1-	30-41		continuum	b1300-a2400	3	19-41
	III	2144:45-2145	1-	30-41		III	1856:15-1857:30	2	11-41
	III	2227:15-2227:30	1	22-31		II	2209-2214	2	21-41
	III	2300:45-2301:15	1-	34-41		II	2217:30-2226:30	2	22-41
	III	2305:30-2306:15	1-	28-41	22	continuum	b0000-a0048:30	3	19-41
	III	2318:45-2319	1-	24-41		continuum	b1253-a2400	2	21-41
	III	2332:30-2332:45	1-	23-41		III	1818:15-1822:30	3	12-41
14	continuum	b1318:45-2005	1-	16-41	23	continuum	b0000-a0035	2	21-41
	III	1832-1832:30	3	16-41		continuum	b1303-45-a2400	3	16-41
	III	2019-2020	3	14-41	24	continuum	b0000-a0046:45	3	16-41
	continuum	2149-a2400	1-	16-41		continuum	b1302:15-a2400	1	16-41
	III	2256-2257	3	24-41		III	1915-1918	3	10-41
15	continuum	b0000-0017	1-	16-41		III	2039:45-2045:15	3	11-41
	continuum	1313:30-2120	1	19-41	25	continuum	b0000-a0042:45	1	16-41
	III	1629-1630:30	2+	13-41		continuum	b1250-a2400	2	20-41
	II	1647-1652	2	31-41		III	1653:30-1655	3	11-41
	III	2120-2124	3	8-41		III	1929-1932:15	2	11-41
	IV	2137-2250	3	16-41		III	2039-2042:15	2	11-41
	III	2315:45-2317:30	2	12-41		III	2051:45-2055	2	10-41
	continuum	2250-a2400	1	22-41	26	continuum	b0000-a0040	2	20-41
16	continuum	b0000-0035	1	22-41		III	0018:15-0026:30	3	16-41
	continuum	b1311:30-a2400	1	20-41		continuum	b1244:30-a2400	1	12-41
	III	1514:45-1520	2	20-41		III	1244:45-1245	2	12-17

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

MARCH 1966

UNIVERSITY OF COLORADO

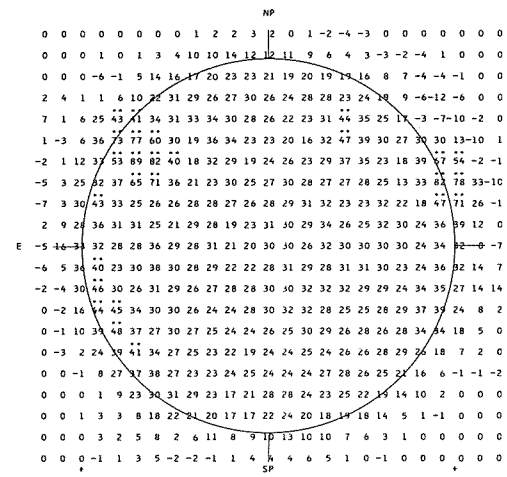
7.6-41 Mc/s

Date Mar 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
26	III	1247-1250:45	2	13-19
	III	1830-1834:15	3	12-41
	III	1849:30-1855:30	3	11-41
	III	1910-1911:15	2	12-41
27	continuum	b0000-a0030	1	12-41
	continuum	b1249-1425	2	20-41
	III	1501:30-1501:45	1-	25-41
	III	1524:45-1529:30	3	12-41
	III	1532:15-1533:15	3	13-41
	continuum	1524:45-2159	1-	22-41
	III	2118:30-2119:45	1+	16-41
	III	2122:30-2124	2	12-41
	III	2224:15-2224:30	1	24-41
	III	2300:45-2301	1-	24-41
	III	2338-2338:15	1-	33-38
28	III	1504:30-1508:15	3	16-41
	III	1541:45-1542:15	1-	24-38
	III	1834:15-1835	1	12-41
	III	1858:30-1859	2	26-31
	continuum	1913-2010	1	24-41
	III	2028:15-2029	1+	22-41
	III	2101:45-2102:15	1	25-41
	III	2104:30-2105	2	26-30
29	III	0000:45-0001	1-	32-40
	III	0001:15-0001:30	1-	33-39
	III	0009:15-0012	3	32-41
	III	1245:15-1245:45	1-	24-31
	III	1305:15-1305:30	1-	33-38
	III	1321:30-1322:30	1+	21-41
	III	1323-1323:45	1+	21-41
	III	1341-1341:30	1	26-38
	III	1347-1347:45	1+	21-41
	III	1400-1402	1+	20-41
	III	1403:30-1404	1	25-41
	III	1427:30-1428	1-	26-41
	III	1450:15-1450:45	1	22-34
	III	1453:15-1453:45	1-	23-41
	III	1518:30-1520	3	16-41
	III	1522:45-1523:30	1	21-41
	III	1525-1527	3	11-41
	III	1529-1532:45	3	16-41

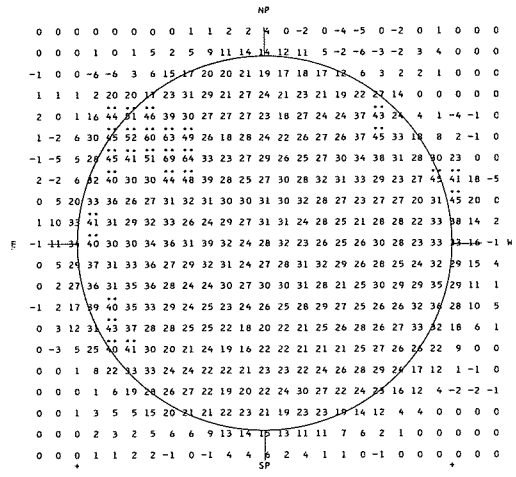
Date Mar 1966	Bursts			
	Type	Time (U.T.)	Intensity	Frequency Range (Mc/s)
29	III	1533:45-1534:45	2	17-41
	III	1535-1536:30	2	19-41
	III	1537:15-1537:30	1-	24-37
	III	1602:45-1603:15	1-	31-41
	III	1606:45-1607	1-	28-41
	III	1622:15-1623	2	16-39
	III	1633:45-1634:30	2	16-41
	III	1637:45-1638:15	1	24-41
	III	1659:30-1701:45	2	11-41
	III	1702-1703	1	20-41
	III	1704:30-1704:35	1	22-41
	III	1707-1708	2	12-41
	III	1717:30-1718	1	21-41
	III	1722:45-1725	2	11-41
	III	1726:15-1726:30	2	24-41
	III	1728:15-1729:15	2	10-41
	III	1731-1732:30	2	11-41
	III	1745-1745:45	1-	24-41
	III	1752:45-1753:30	2	24-41
	III	1801:30-1812:15	1	23-41
	IV	1812:15-1940	3	10-41
	III	1957-1957:30	1-	24-41
	III	2012-2012:30	1-	22-34
	III	2013:15-2013:30	1-	27-37
	III	2026:15-2026:45	1-	26-35
	III	2052-2052:30	1-	20-41
	III	2054-2055	1-	25-41
	III	2100:30-2101:30	2	13-41
	III	2317:15-2317:30	1	24-41
	continuum	2335:15-a2400	1	22-41
30	continuum	b0000-0011	1	22-41
	III	1249:30-1252	2	19-41
	II	1253-1301	3	19-41
	IV	1307-1450	3	19-41
	continuum	1445-2155	1-	20-41
	III	2203:30-2206	1+	23-36
31	continuum	0005-0059	1-	23-41
	continuum	b1248-a2400	3	20-41
1 Apr	continuum	b0000-a0052	3	20-41

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

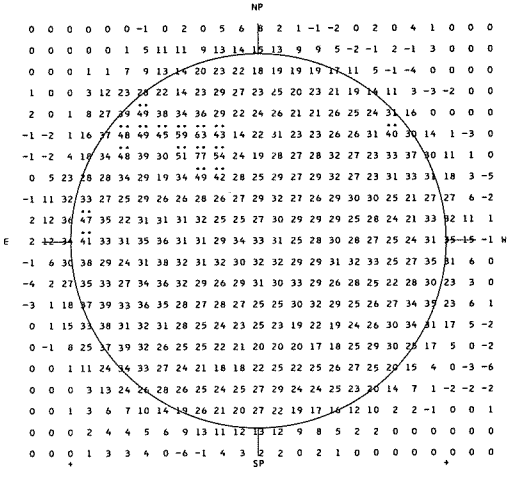
STANFORD — **MARCH 1966** — **9.1 cm**



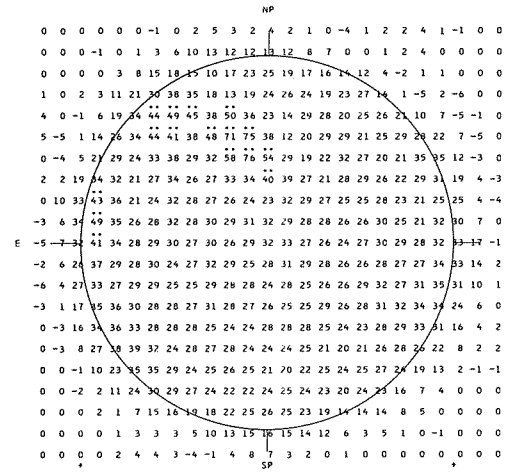
9.1 CM SPECTROHELIOGRAM
STANFORD, 01 MAR 1966 20-21 HRS UT. S = 81(NRC) BRIGHTNESS UNIT = 1000 K



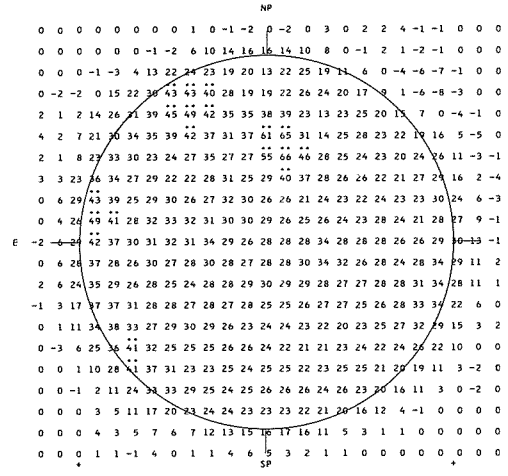
9.1 CM SPECTROHELIOGRAM
STANFORD, 02 MAR 1966 20-21 HOURS UT. S = 78 BRIGHTNESS UNIT = 1000 K



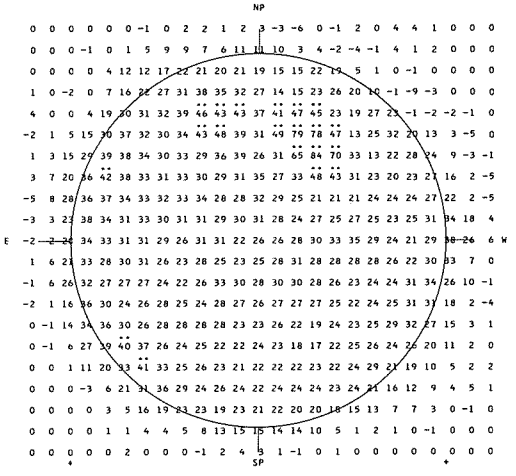
9.1 CM SPECTROHELIOGRAM
STANFORD, 03 MAR 1966 20-21 HOURS UT. S = 77 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 04 MAR 1966 20-21 HOURS UT. S = 77 BRIGHTNESS UNIT = 1000 K



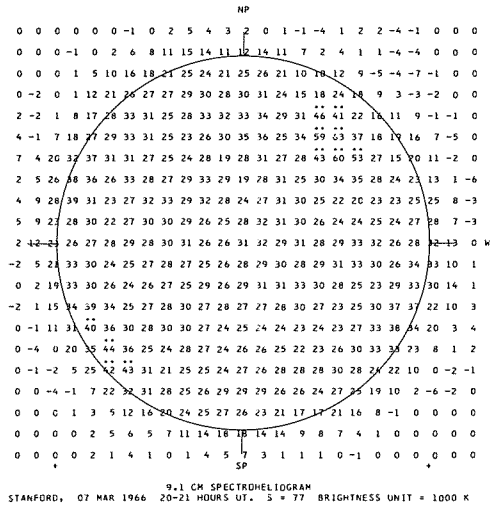
9.1 CM SPECTROHELIOGRAM
STANFORD, 05 MAR 1966 20-21 HOURS UT. S = 76 BRIGHTNESS UNIT = 1000 K



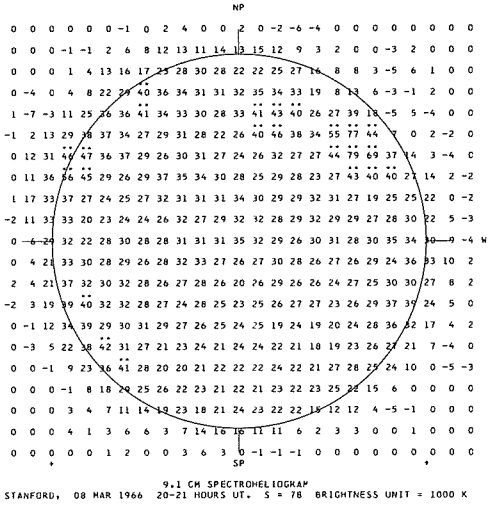
9.1 CM SPECTROHELIOGRAM
STANFORD, 06 MAR 1966 20-21 HOURS UT. S = 77 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

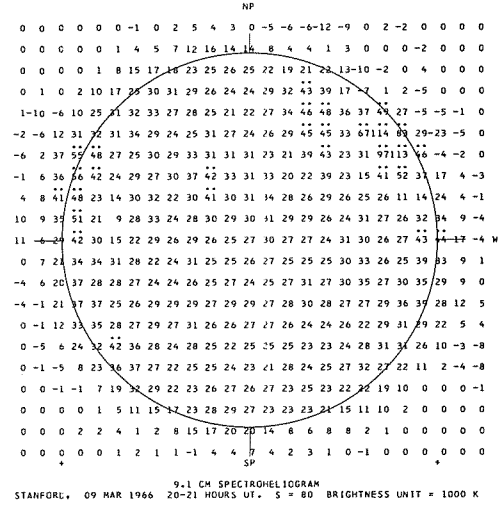
STANFORD — MARCH 1966 — **9.1 cm**



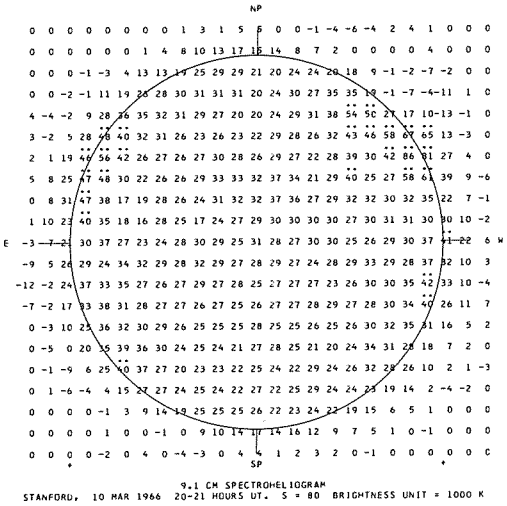
9.1 CM SPECTROHELIOGRAM
STANFORD, 07 MAR 1966 20-21 HOURS UT. S = 77 BRIGHTNESS UNIT = 1000 K



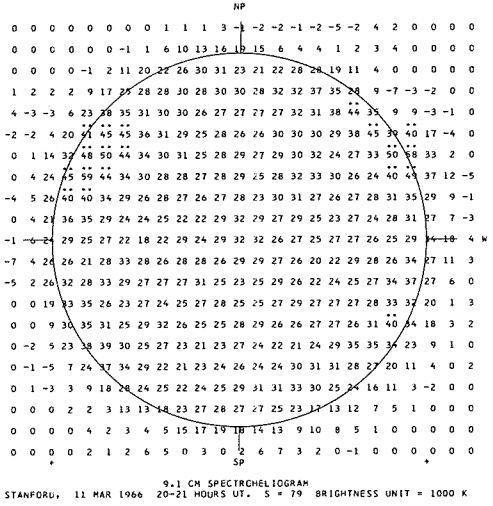
9.1 CM SPECTROHELIOGRAM
STANFORD, 08 MAR 1966 20-21 HOURS UT. S = 78 BRIGHTNESS UNIT = 1000 K



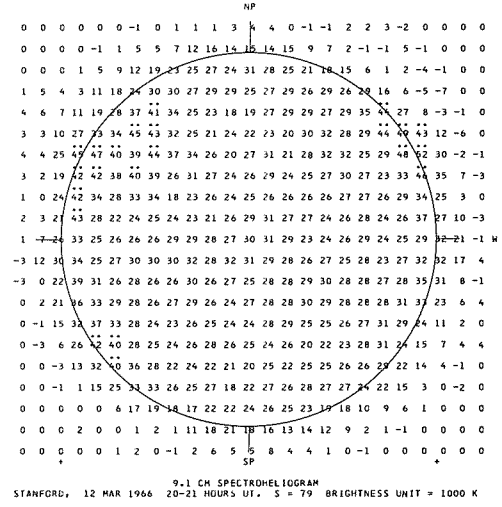
9.1 CM SPECTROHELIOGRAM
STANFORD, 09 MAR 1966 20-21 HOURS UT. S = 80 BRIGHTNESS UNIT = 1000 K



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



9.1 CM SPECTROHELIOGRAM
STANFORD, 11 MAR 1966 20-21 HOURS UT. S = 79 BRIGHTNESS UNIT = 1000 K



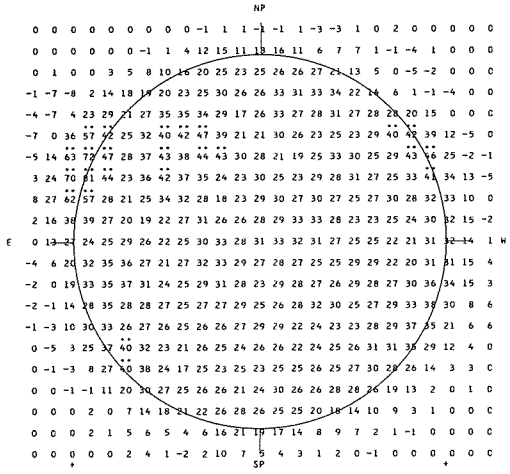
9.1 CM SPECTROHELIOGRAM
STANFORD, 12 MAR 1966 20-21 HOURS UT. S = 79 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

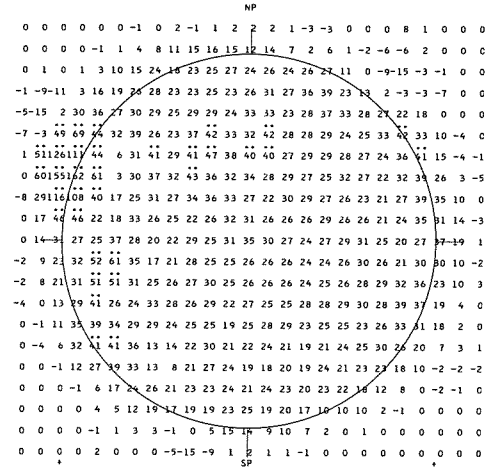
MARCH 1966

STANFORD

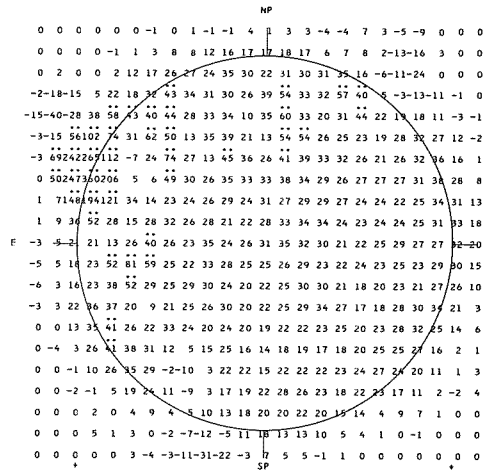
9.1 cm



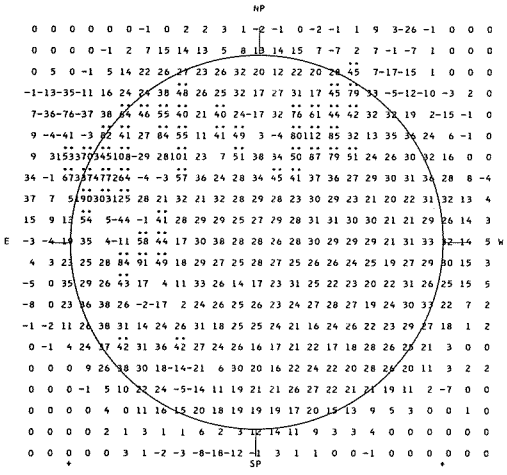
9.1 CM SPECTROHELIOGRAM
STANFORD, 13 MAR 1966 20-21 HOURS UT. S = 81 BRIGHTNESS UNIT = 1000 K



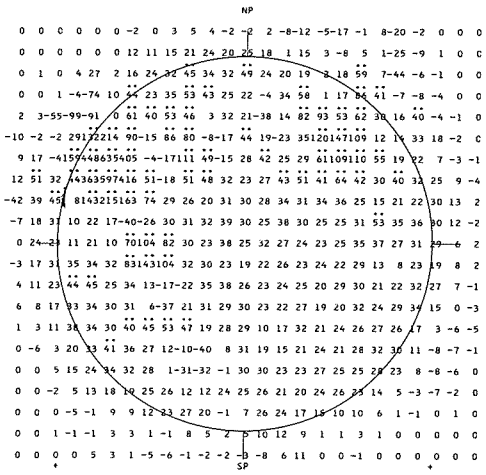
9.1 CM SPECTROHELIOGRAM
STANFORD, 14 MAR 1966 20-21 HOURS UT. S = 82 BRIGHTNESS UNIT = 1000 K



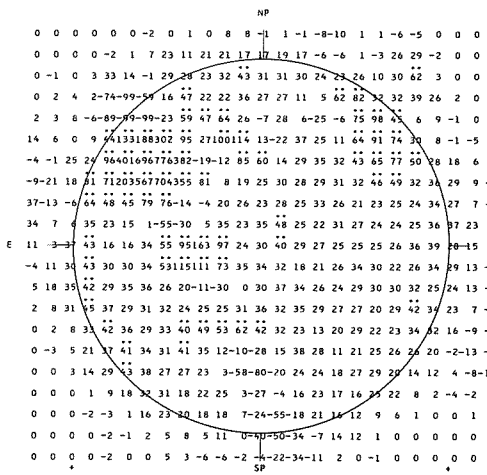
9.1 CM SPECTROHELIOGRAM
STANFORD, 15 MAR 1966 20-21 HOURS UT. S = 88 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 16 MAR 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K



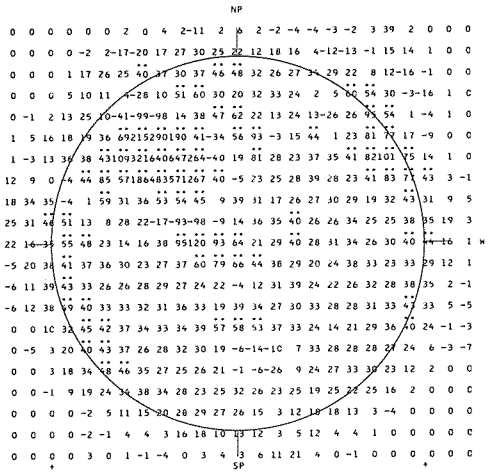
9.1 CM SPECTROHELIOGRAM
STANFORD, 17 MAR 1966 20-21 HOURS UT. S = 106 BRIGHTNESS UNIT = 1000 K



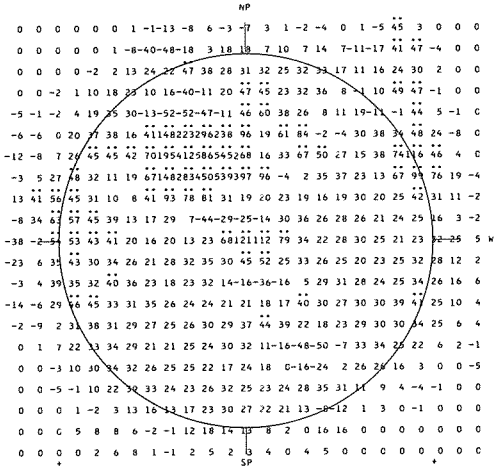
9.1 CM SPECTROHELIOGRAM
STANFORD, 18 MAR 1966 20-21 HOURS UT. S = 111 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

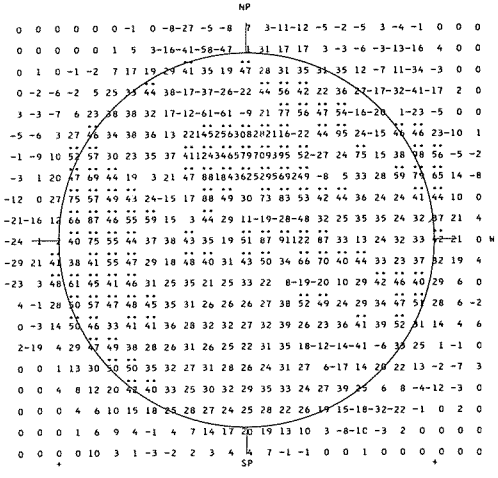
STANFORD — MARCH 1966 — **9.1 cm**



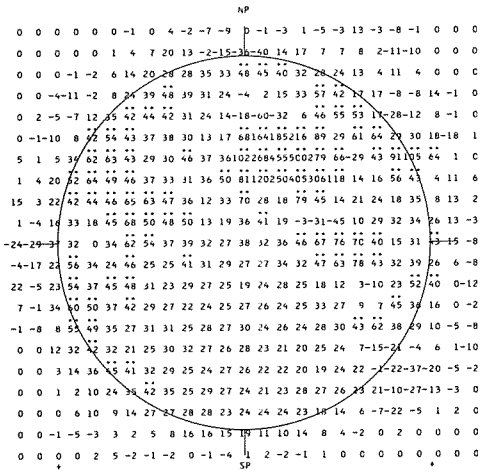
9.1 CM SPECTROHELIOGRAM
STANFORD, 19 MAR 1966 20-21 HOURS UT. S = 116 BRIGHTNESS UNIT = 1000 K



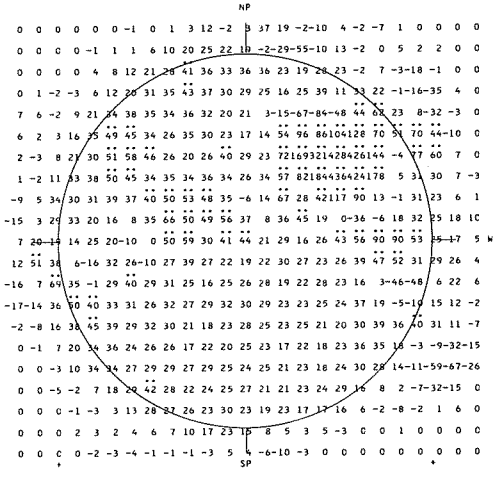
9.1 CM SPECTROHELIOGRAM
STANFORD, 20 MAR 1966 20-21 HOURS UT. S = 112 BRIGHTNESS UNIT = 1000 K



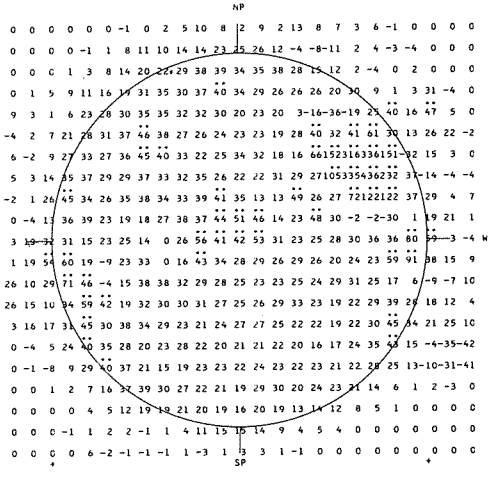
9.1 CM SPECTROHELIOGRAM
STANFORD, 21 MAR 1966 20-21 HOURS UT. S = 121 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 22 MAR 1966 20-21 HOURS UT. S = 106 BRIGHTNESS UNIT = 1000 K



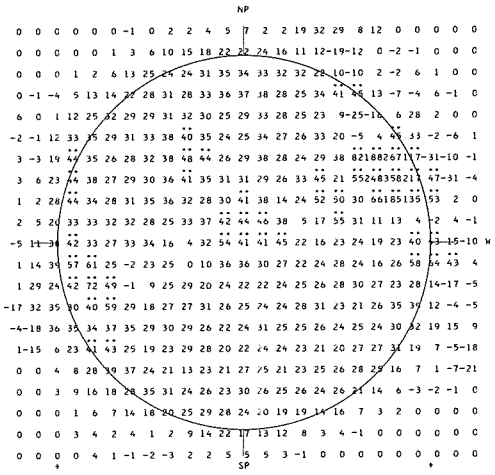
9.1 CM SPECTROHELIOGRAM
STANFORD, 23 MAR 1966 20-21 HOURS UT. S = 97 BRIGHTNESS UNIT = 1000 K



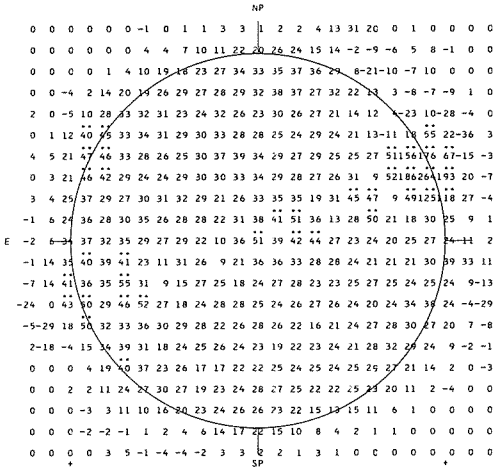
9.1 CM SPECTROHELIOGRAM
STANFORD, 24 MAR 1966 20-21 HOURS UT. S = 94 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

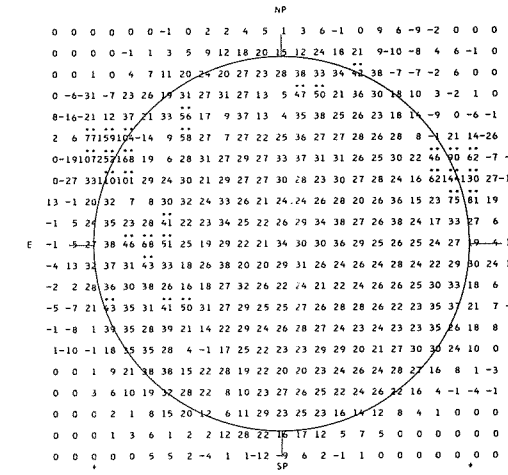
STANFORD MARCH 1966 **9.1 cm**



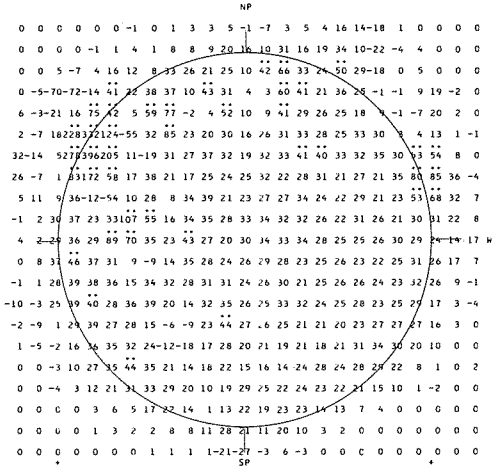
9.1 CM SPECTROHELIOGRAM
STANFORD, 25 MAR 1966 20-21 HOURS UT. S = 92 BRIGHTNESS UNIT = 1000 K



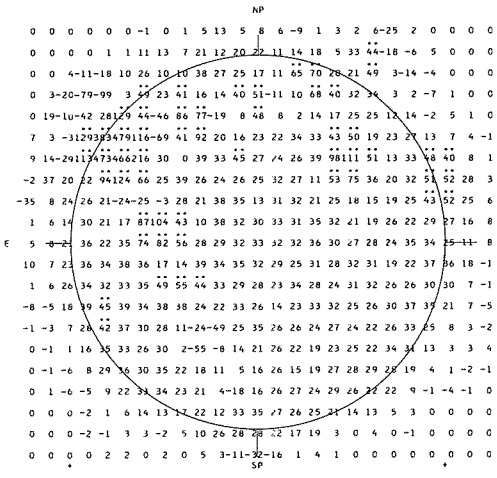
9.1 CM SPECTROHELIOGRAM
STANFORD, 26 MAR 1966 20-21 HOURS UT. S = 85 BRIGHTNESS UNIT = 1000 K



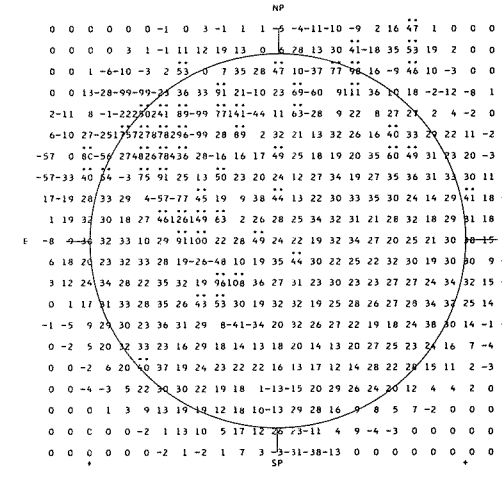
9.1 CM SPECTROHELIOGRAM
STANFORD, 27 MAR 1966 20-21 HOURS UT. S = 83 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 28 MAR 1966 20-21 HOURS UT. S = 88 BRIGHTNESS UNIT = 1000 K



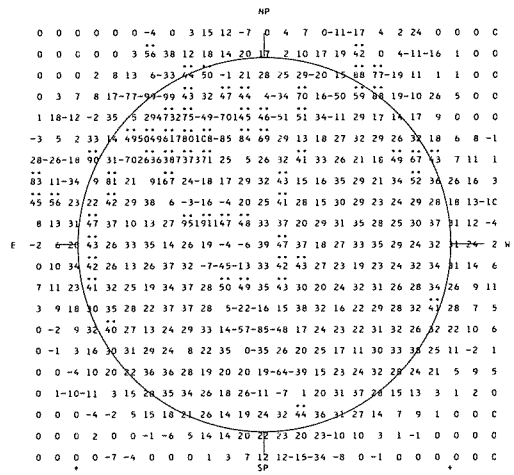
9.1 CM SPECTROHELIOGRAM
STANFORD, 29 MAR 1966 20-21 HOURS UT. S = 96 BRIGHTNESS UNIT = 1000 K



9.1 CM SPECTROHELIOGRAM
STANFORD, 30 MAR 1966 20-21 HOURS UT. S = 99 BRIGHTNESS UNIT = 1000 K

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

STANFORD MARCH 1966 **9.1 cm**



9.1 CM SPECTROHELIOGRAM
STANFORD, 31 MAR 1966 20-21 HOURS UT. S = 111 BRIGHTNESS UNIT = 1000 K

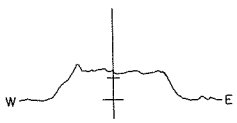
EAST - WEST SOLAR SCANS

FLEURS, AUSTRALIA

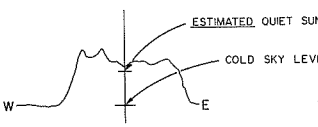
MARCH 1966

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

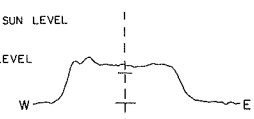
NO DATA
1966 March 1 THRU 1966 March 7



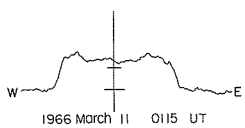
1966 March 8 0204 UT



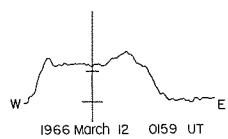
1966 March 9 0132 UT



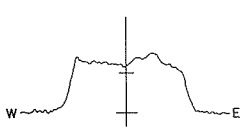
1966 March 10 0324 UT



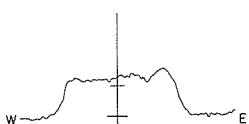
1966 March 11 0115 UT



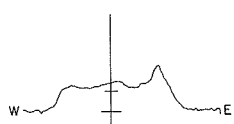
1966 March 12 0159 UT



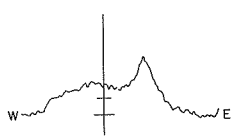
1966 March 13 0207 UT



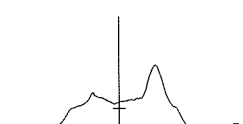
1966 March 14 0131 UT



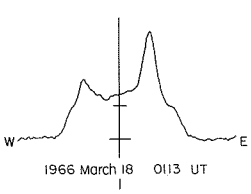
1966 March 15 0126 UT



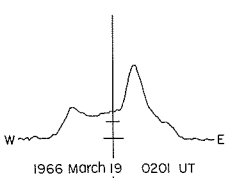
1966 March 16 0134 UT



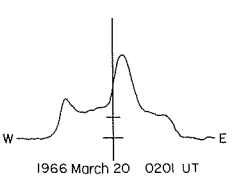
1966 March 17 0206 UT



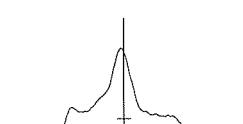
1966 March 18 0113 UT



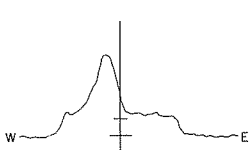
1966 March 19 0201 UT



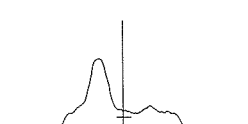
1966 March 20 0201 UT



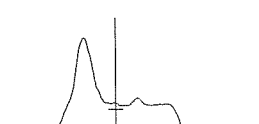
1966 March 21 0330 UT



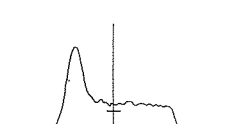
1966 March 22 0116 UT



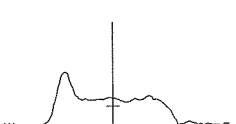
1966 March 23 0128 UT



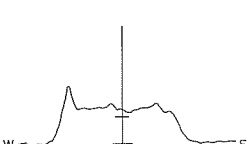
1966 March 24 0203 UT



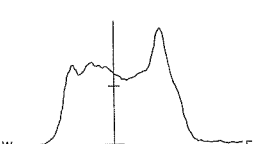
1966 March 25 0151 UT



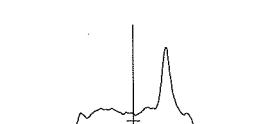
1966 March 26 0239 UT



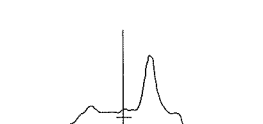
1966 March 27 0234 UT



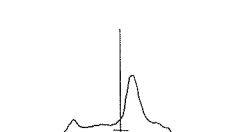
1966 March 28 0407 UT



1966 March 29 0114 UT



1966 March 30 0142 UT



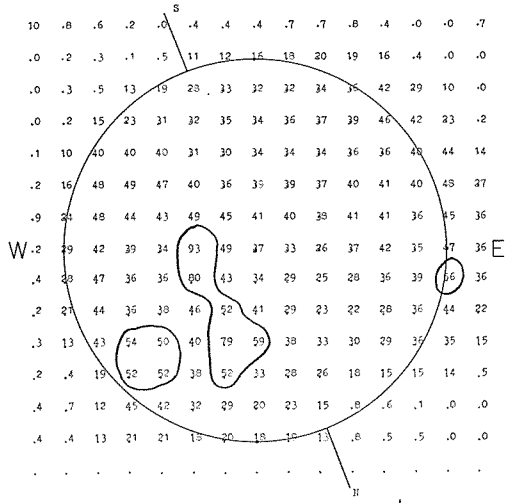
1966 March 31 0126 UT

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

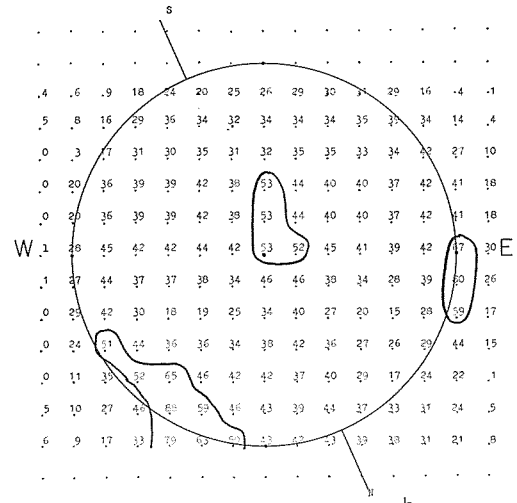
FLEURS, AUSTRALIA

SEPTEMBER 1965

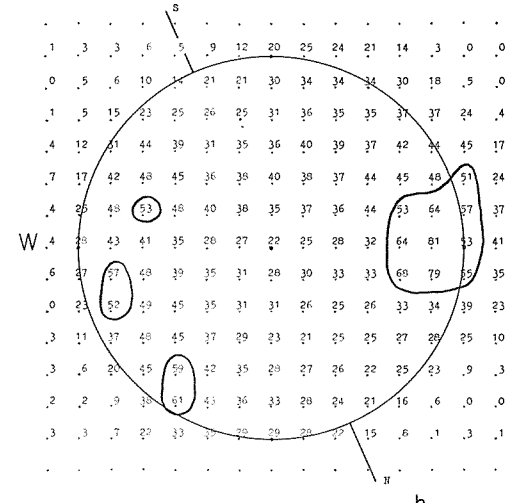
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



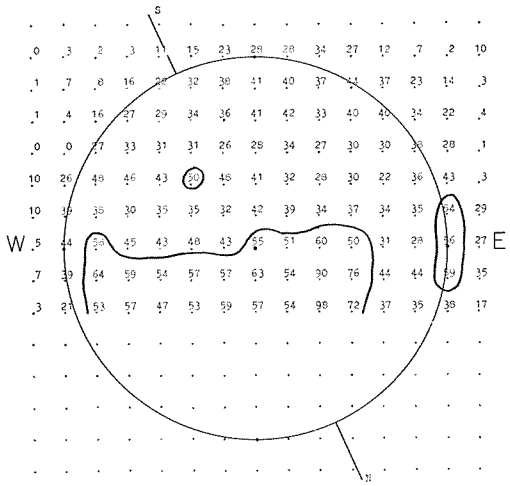
1965 SEPTEMBER 1 02-03^h UT



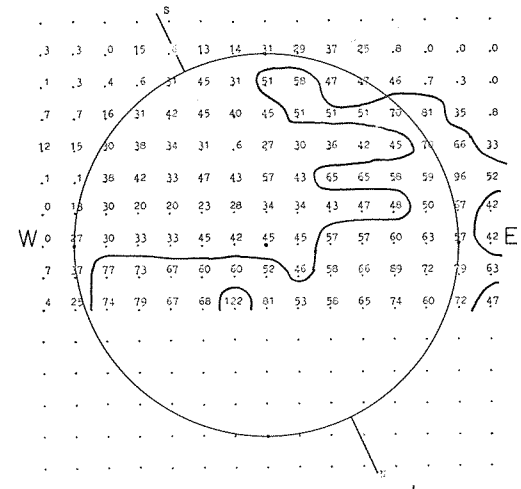
1965 SEPTEMBER 13 02-03^h UT



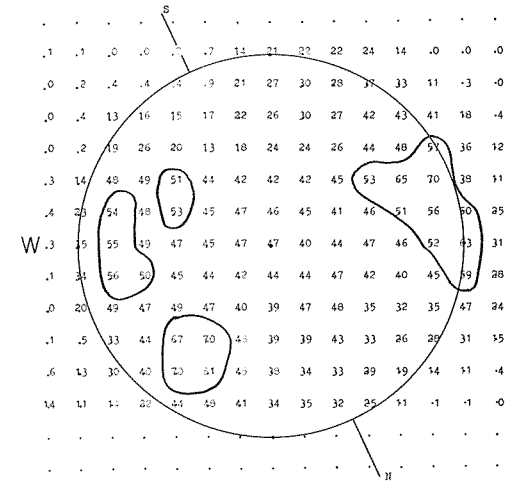
1965 SEPTEMBER 15 02-03^h UT



1965 SEPTEMBER 17 02-03^h UT



1965 SETEMBER 20 02-03^h UT



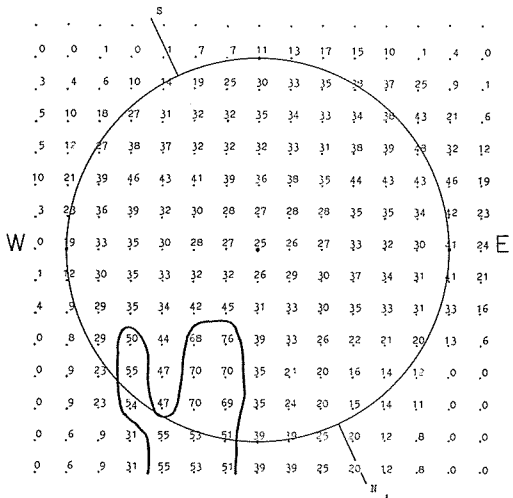
1965 SEPTEMBER 22 02-03^h UT

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

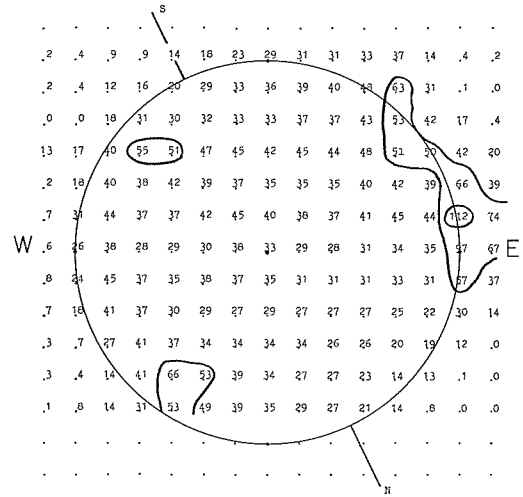
FLEURS, AUSTRALIA

SEPTEMBER 1965

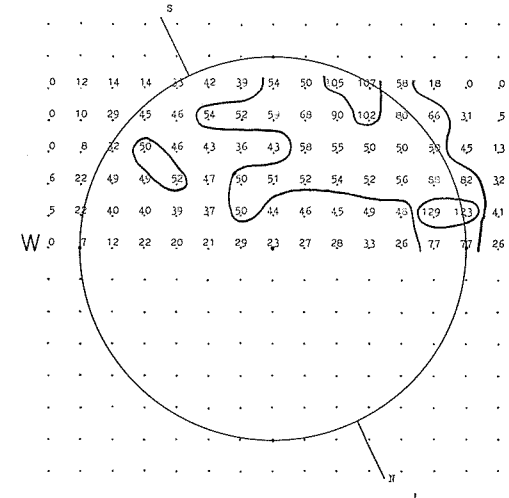
21 cm
Resolution: about 3 minutes of arc.
Unit of Brightness temperature: 1700°K



1965 SEPTEMBER 24 02-03^h UT



1965 SEPTEMBER 27 02-03^h UT



1965 SEPTEMBER 29 02-03^h UT

PPAI

COSMIC RAY INDICES

(Neutron Monitors)

FEBRUARY 1966

FEB. 1966	CHURCHILL	DEEP RIVER	CLIMAX	DALLAS
	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR	DAILY AVERAGE COUNTS PER HOUR
1	6478.8	7028.7	4232.1	6410.0
2	6501.5	7033.2	4234.3	6416.7
3	6519.9	7043.2	4230.9	6437.4
4	6502.8	7039.3	4225.2	6434.0
5	6504.5	7043.0	4238.4	6427.0
6	6504.0	6778.2	4243.8	6433.9
7	6525.7	7060.1	4274.7 (36)	6444.8
8	6529.0	7069.0	4298.6	6461.6
9	6545.1	7052.5	4305.8	6453.4
10	6541.5	7046.0	4293.0	6463.7
11	6544.7	7074.3	4283.8	6473.5
12	6525.4 (23)	7042.6	4262.0	6465.1
13	6554.4	7051.6	4283.6	6463.4
14	6557.6	7067.7	4277.1	6439.7 (23)
15	6585.7	7077.2	4279.4	6451.3
16	6603.9	7085.2	4275.0	6458.5
17	6603.7	7127.2	4278.3	6487.3
18	6588.9	7126.4	4289.1	6498.3
19	6556.0	7119.3	4291.6	6495.6
20	6488.5	7060.1	4244.3	6438.0
21	6454.2	7015.6	4217.3	6418.1
22	6432.3	7011.1	4228.5	6416.5
23	6443.3	6991.4	4232.8	6391.5
24	6467.0	7014.8	4243.1	6420.0
25	6482.5	7043.4	4252.8	6429.0
26	6519.0	7061.5	4271.2	6445.0
27	6544.7	7055.4	4270.8	6449.3
28	6560.7	7059.4	4264.1	6459.6

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

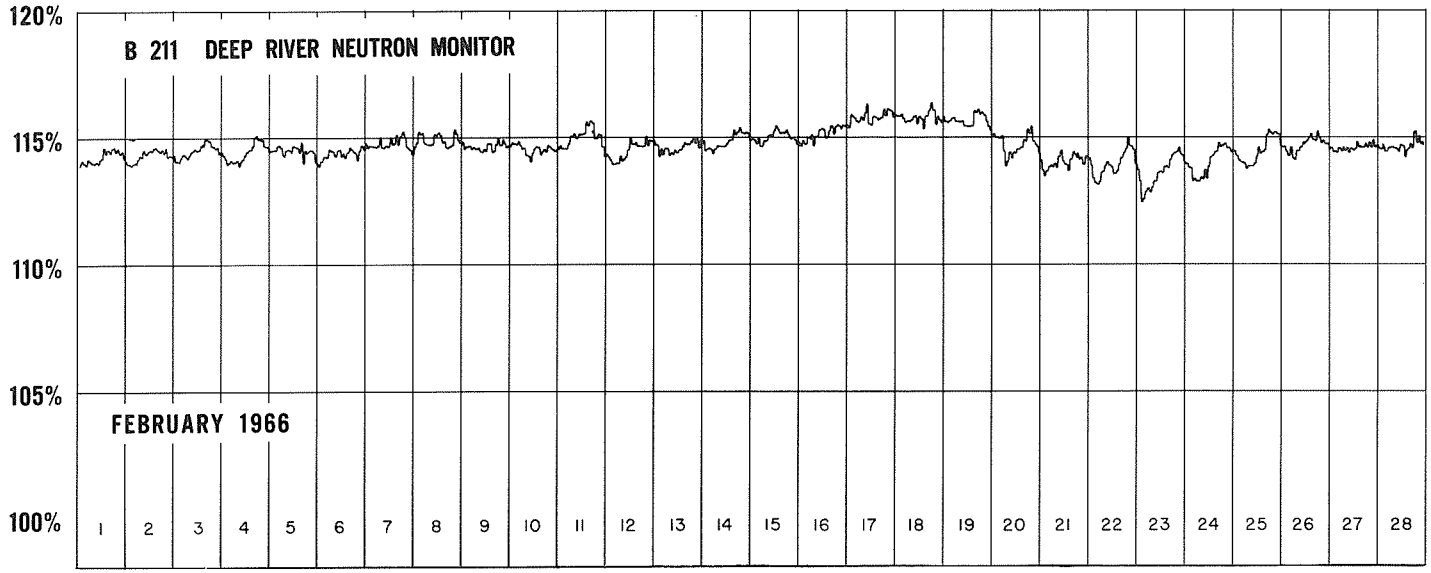
Churchill Super Neutron Monitor, Scaling Factor 120.

Climax IGC Station B305, Scaling Factor 100.

Dallas Super Neutron Monitor, Scaling Factor 120.

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

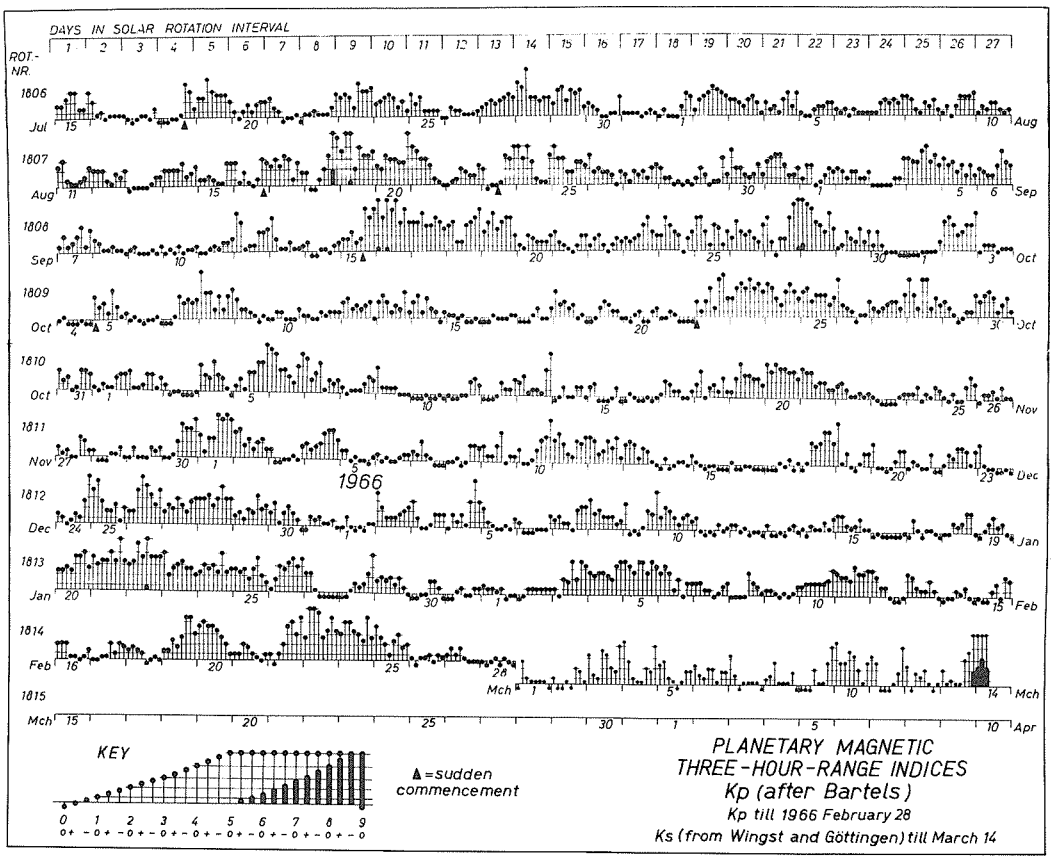


GEOMAGNETIC ACTIVITY INDICES

FEBRUARY 1966

FEB. 1966		Three-hour range indices Kp 1	2	3	4	5	6	7	8	Sum	Prel. Ci	Cp	Ap
1	Q	1+	1o	1o	1-	1o	0o	0+	0+	6-	0.0	0.1	3
2	q	0o	0+	1o	1o	1o	1o	1o	1o	6+	0.2	0.1	3
3		1o	0+	2o	2-	4-	2o	4-	3+	18-	0.9	0.6	11
4		3-	2+	3-	3-	2+	2o	3+	4-	22-	1.0	0.7	13
5	D	4-	3+	3-	4-	4-	3-	4-	3+	27-	1.1	1.0	18
6		3-	3+	3-	1o	2o	0+	2-	2-	15+	0.4	0.5	8
7		2-	2-	1o	1o	0+	1-	1+	2-	9+	0.2	0.2	4
8	q	0+	0+	0+	0+	3-	2-	1+	1-	8-	0.2	0.1	4
9	Q	1o	1o	1-	0+	1-	0+	1-	1+	6o	0.0	0.1	3
10		1+	2-	2-	2-	2-	2-	2o	3o	15-	0.5	0.4	7
11		3-	2+	2+	2o	3+	3-	3-	3o	21o	0.8	0.7	12
12		3o	2+	1+	1+	0+	0o	0o	0+	9-	0.3	0.2	5
13		3-	2+	1+	1o	1o	2o	1o	0+	12-	0.2	0.3	6
14	Q	0o	0+	0+	1o	1-	1+	0+	0o	4o	0.0	0.0	2
15		0+	0o	0o	1o	2-	0+	2+	2o	8-	0.2	0.1	4
16		2o	2o	2o	1-	1-	0+	1-	1+	10-	0.3	0.2	5
17		0+	0+	1-	1-	2o	1o	2o	2-	9-	0.3	0.1	4
18	q	1+	2-	1+	1o	0o	0+	1-	0+	7-	0.0	0.1	3
19	D	1+	1+	2+	2-	3-	4+	4+	3o	21o	1.0	0.8	14
20	D	4-	4o	4-	4-	3+	3-	2o	1o	24o	1.0	0.9	17
21	q	1o	1o	2o	2-	1o	1-	0+	1o	9-	0.1	0.1	4
22		1o	0o	1o	2o	4-	4o	3o	4+	19o	0.9	0.8	14
23	D	3-	5o	5o	5-	3-	3+	4+	3+	31o	1.4	1.2	28
24	D	3o	4o	4o	3+	3o	2+	4+	3-	27-	1.0	1.0	19
25		4-	3-	2o	1o	2+	3o	2-	2o	18+	0.6	0.6	10
26	Q	1-	0o	1-	1-	1o	0+	1o	1-	5o	0.0	0.0	3
27	q	1o	2-	1o	2-	1-	0+	0+	0+	7o	0.0	0.1	4
28	Q	0+	0o	0+	1-	0o	1-	0+	0o	2+	0.0	0.0	2
										Means:	0.45	0.39	8
										No. of days :	28	28	28

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES A_p

	Day	1965 Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	1966 Jan.	Feb.
	1	7	4	4	5	13	5	6	2	4	19	2	3
	2	8	2	2	6	5	11	5	16	5	9	8	3
	3	26	3	3	9	5	6	4	3	1	2	6	11
	4	21	6	4	11	3	7	16	1	8	11	11	13
	5	7	4	26	6	3	4	9	8	13	3	4	18
	6	4	7	6	5	19	3	9	2	17	3	2	8
	7	7	8	5	3	8	6	7	6	9	3	7	4
	8	2	4	11	9	21	6	4	15	4	4	8	4
	9	4	11	12	12	12	7	3	4	5	6	8	3
	10	2	6	7	2	14	4	3	3	0	10	7	7
	11	4	8	2	5	2	6	4	3	3	10	2	12
	12	4	7	4	3	5	6	11	6	3	10	2	5
	13	10	5	3	2	5	3	6	8	10	6	2	6
	14	6	5	3	6	4	8	3	6	3	2	3	2
	15	12	4	4	19	10	6	15	2	2	1	5	4
	16	4	4	18	73	4	7	35	2	1	1	0	5
	17	5	11	5	34	2	11	18	2	4	2	2	4
	18	2	68	4	11	6	21	16	6	6	12	5	3
	19	4	14	2	2	13	27	17	4	10	7	3	14
	20	5	10	4	2	5	17	5	2	17	4	15	17
	21	8	3	5	2	3	12	5	1	10	2	23	4
	22	8	5	6	4	4	5	5	14	4	6	27	14
	23	25	5	5	3	13	9	10	19	2	3	14	28
	24	12	5	6	3	7	14	10	14	4	9	14	19
	25	20	4	3	11	6	13	12	11	5	12	11	10
	26	13	6	4	10	4	7	9	7	4	19	14	3
	27	9	5	6	6	8	6	20	6	4	10	3	4
	28	5	3	5	3	15	3	27	15	2	16	7	2
	29	6	5	3	11	12	6	7	5	3	8	6	
	30	2	5	3	14	4	8	3	8	12	6	2	
	31	4		4		3	11		6		3	2	
	Mean:	8	8	6	10	8	9	10	7	6	7	7	8

CRPL RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

NORTH ATLANTIC, NORTH PACIFIC — FEBRUARY 1966

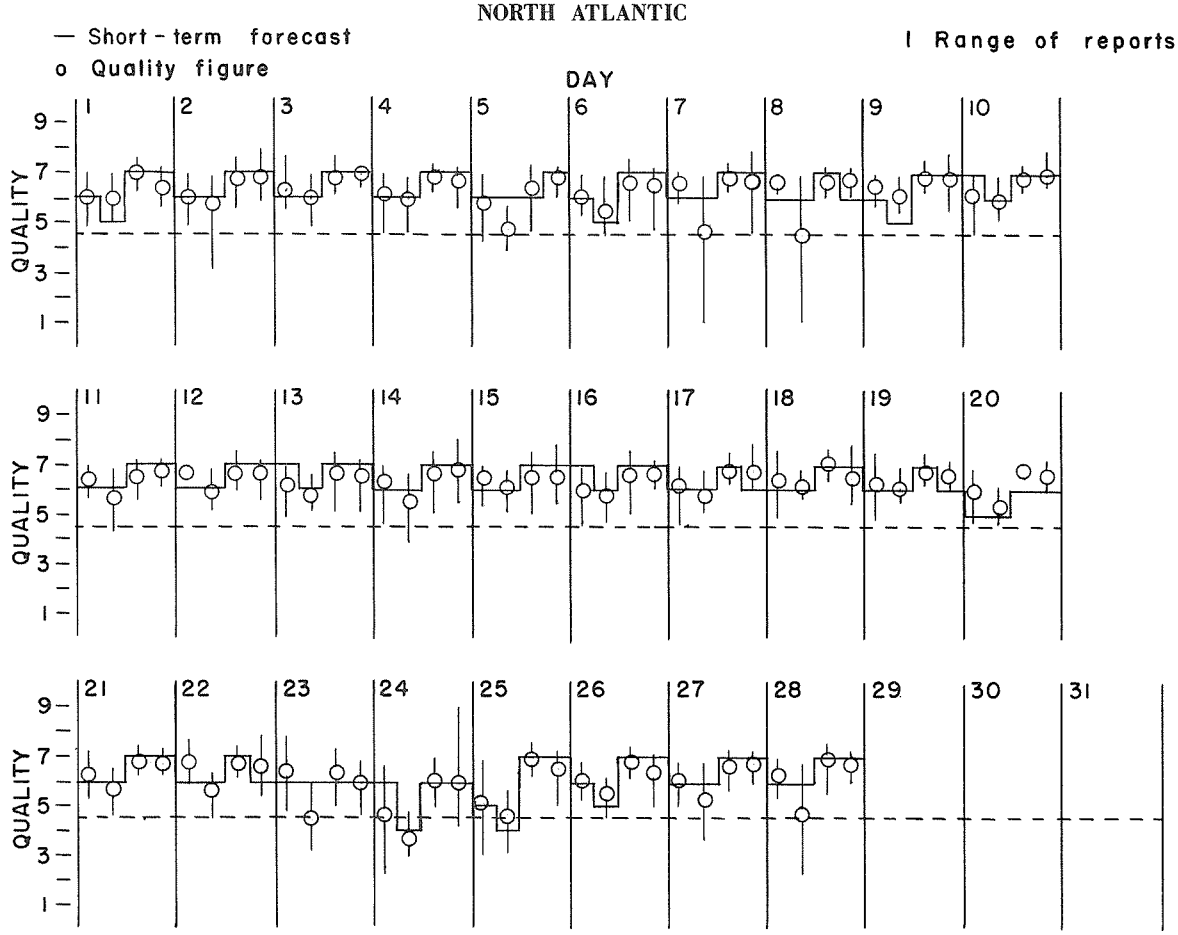
JAN 1966	WHOLE DAY INDICES: NORTH ATLANTIC	WHOLE DAY INDICES: NORTH PACIFIC	WHOLE DAY INDICES: AVERAGE HIGH LATITUDE	ADVANCE FORECASTS (Jc-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC 6-HOURLY QUALITY FIGURES: 00 TO 06	06 TO 12	12 TO 18	18 TO 24	NORTH ATLANTIC SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE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

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

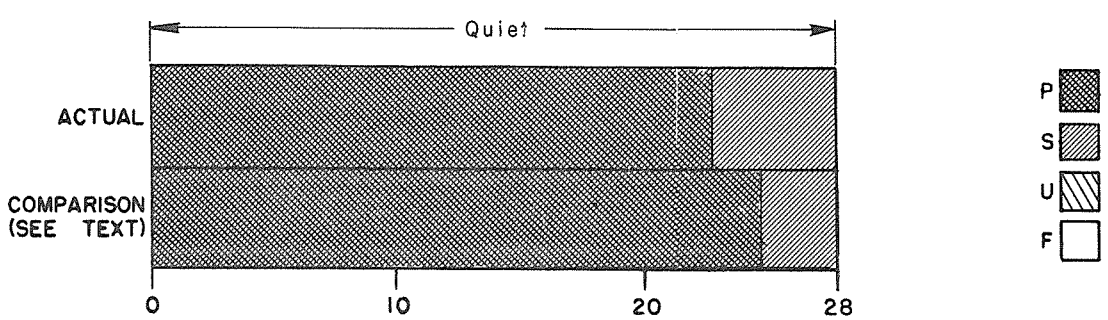
2) THE PREDICTED A_{FR} INDICES ARE ISSUED EACH WEDNESDAY FOR THE COMING SEVEN DAYS. THE VALUE FOR THE FIRST DAY OF EACH PREDICTION PERIOD IS UNDERSCORED.

FEBRUARY 1966

NORTH ATLANTIC

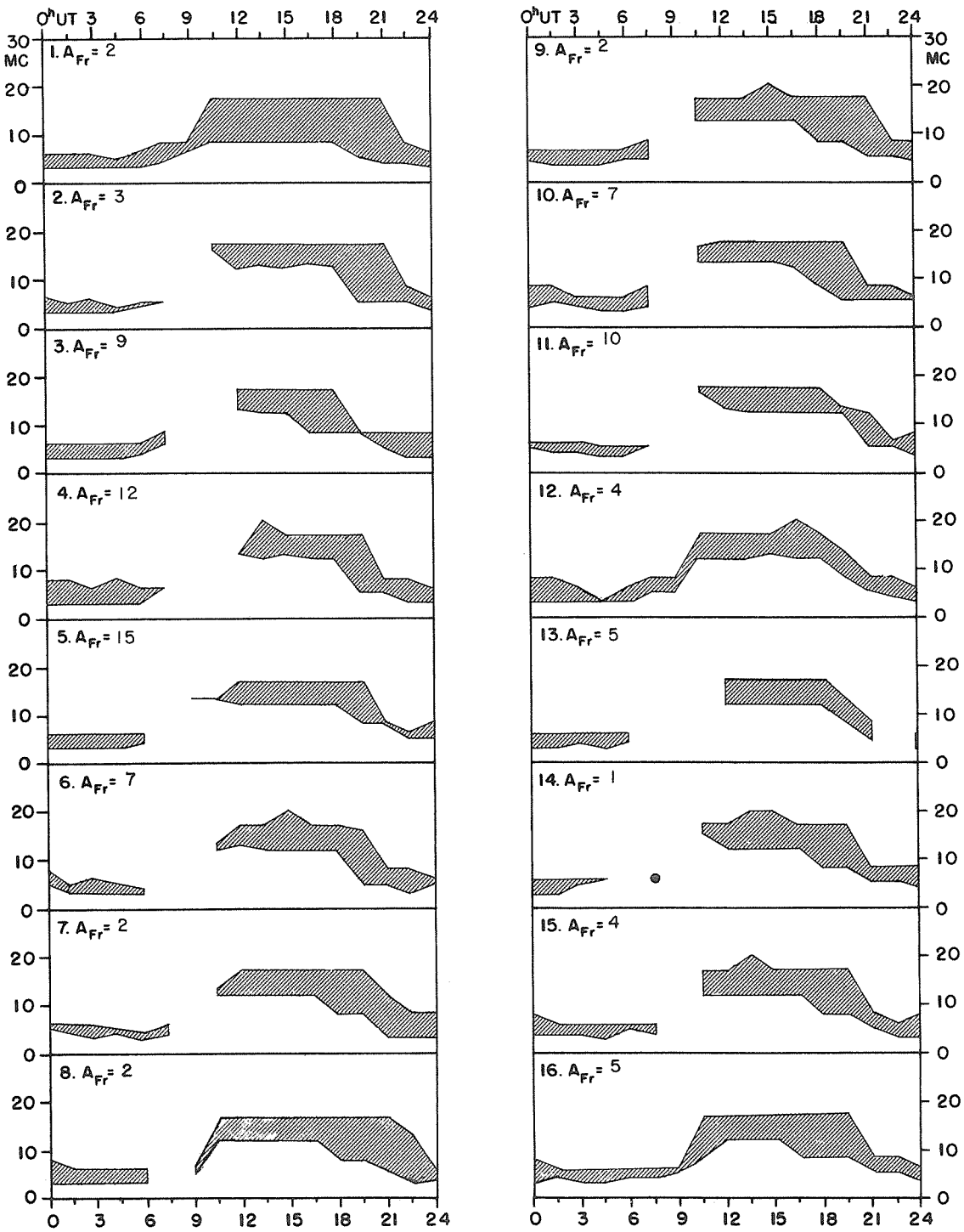


HIGH LATITUDE



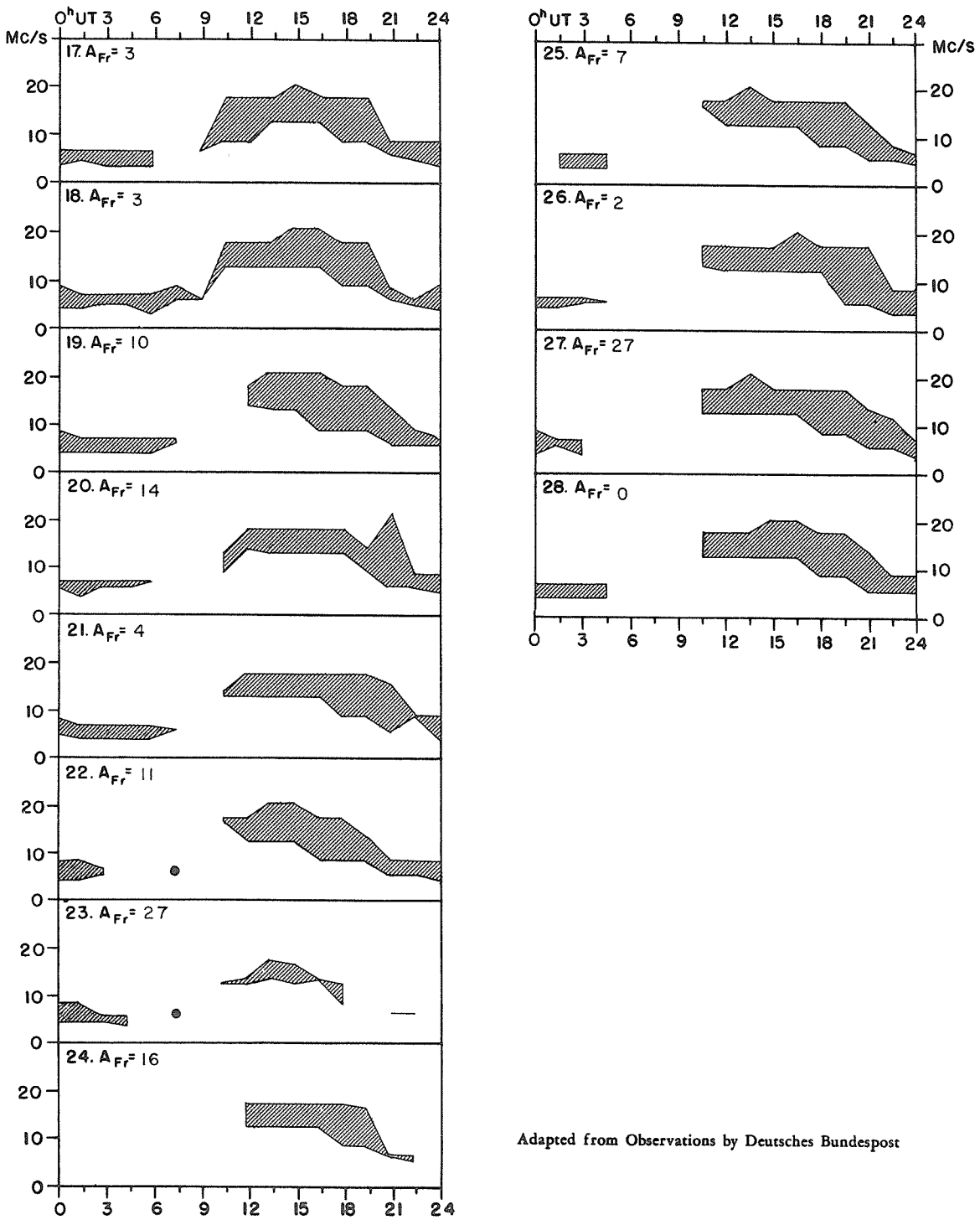
USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH

FEBRUARY 1966



USEFUL FREQUENCY RANGES -- NORTH ATLANTIC PATH VIId

FEBRUARY 1966



Adapted from Observations by Deutsches Bundespost

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

MARCH 1966

Mar. 1966	TIME OF ISSUE UT	ADVANCE GEOPHYSICAL ALERT	WORLDWIDE GEOPHYSICAL ALERT			
			NO.	TYPE	TIMING	ELABORATION
14	0250	AGIWARN, Magnetic Storm 13/19XXZ				
	0400		313	Magnetic Storm	1319XXZ	
15	0400		314	Magnetic Storm	Exists	
16	0400		315	Solar Activity	Exists	Northeast Region
	0837*	ADALERTPRESTO TENFLARE Toyokawa 160604Z				
17	0131*	ADALERTPRESTO TENFLARE Toyokawa 162254Z				
	0400		316	Solar Activity	Exists	Flares
	1358*	ADALERTPRESTO THREE CM FLARE Meudon 171211Z				
18	0400		317	Solar Activity	Exists	Flares
19	0120*	ADALERTPRESTO TENFLARE Toyokawa 182347Z				
	0400		318	Solar Activity	Exists	Flares
	0606	Quezon City, Solar Flare 19/0337Z				
20	0400		319	Solar Activity	Exists	Flares
			320	Magnetic Storm	Expected	
21	0400		321	Solar Activity	Exists	Flares
			322	Magnetic Storm	Expected	
	2345*	ADALERTPRESTO TENFLARE Toyokawa 212230Z				
22	0400		323	Solar Activity	Exists	Flares
			324	Magnetic Storm	Expected	
23	0400		325	Solar Activity	Exists	
			326	Magnetic Storm	Expected	
24	0400		327	Solar Activity	Exists	Flares
	1352*	ADALERTPRESTO TENFLARE Toyokawa 240226Z				
25	0400		328	Magnetic Storm	Expected	
29	0400		329	Solar Activity	Exists	Northeast Region
	0515*	ADALERTPRESTO TENFLARE Toyokawa 290325Z				
	1852	Maui, Solar Flare 29/1755Z				
30	0400		330	Solar Activity	Exists	Flares
31	0400		331	Solar Activity	Exists	

* Time when Alert was relayed by AGIWARN